

From Data to Design: Constructing the Global Bioeconomy Complexity Index

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ABSTRACT

This study introduces a novel socio-economic indicator designed to benchmark bioeconomy performance worldwide, thereby addressing a critical gap in existing evaluative tools as well as offering a unified tool for cross-national comparison and policy guidance. Using exports data of Harmonized System level 6 products from 2000 to 2023, we derived the Bioeconomy Complexity Index (BCI) for more than 150 countries and the emergence over 24 years employing the methodology used to compute the Economic Complexity Index (ECI) by Hidalgo and Hausmann. Countries have been ranked in terms of their respective BCI scores. Our findings suggest that countries scoring in the bottom are less complex and have fewer diversity when it comes to exporting bio-based products. The stark contrast between the top-tier and bottom-tier economies not only validates the Bioeconomy Complexity Index's effectiveness at capturing the twin dimensions of product complexity and export portfolio diversity but also highlights key gaps in global capability distribution.

1. Introduction

Human progress has historically been deeply linked with our capacity to utilize nature's resources - initially for survival, then for development, and now, imperatively, for sustainability. As we make the shift from an industrial age based on fossil fuels to an era requiring environmental awareness, the bioeconomy arises not just as an innovation but as a necessity. The bioeconomy encompasses economic systems in which renewable biological resources - such as plant, animal, and microbial biomass - serve as the primary feedstocks to produce materials, chemicals, and energy (Albrecht et al., 2010). Transitioning to a bio-based paradigm is widely recognized as essential for addressing pressing societal challenges, including climate change, depletion of natural resources, and environmental degradation. By replacing fossil inputs with biomass, a bioeconomy demands profound transformations across socioeconomic infrastructures, agricultural practices, energy systems, and technological platforms (McCormick and Kautto, 2013).

By early 2018, some 50 nations had started incorporating the bioeconomy in their national policy agendas (German Bioeconomy Council, 2018). Numerous articles have reviewed some of the bioeconomy strategies published, among them pointing out the absence of tools for tracking their advancement (Staffas et al., 2013), the necessity for a firm

scientific foundation, as well as more cooperation between scholars, firms, and the state (Dietz et al., 2018; Koukios et al., 2018).

At a European level, nearly all the nations have bioeconomy strategies or similar plans either already released or in the process of being developed (Lusser et al., 2018). The bioeconomy is deemed a present priority, which explains why the strategy released in 2012 was renewed in 2018 to concentrate on speeding up the rollout of a sustainable European bioeconomy and addressing global objectives (European Commission; Directorate-General for Research and Innovation, 2018). In addition, the year 2020's European Green Deal publication identifies the substantial role of the bioeconomy in realizing a climate-neutral Europe by 2050 (European Commission, 2019). To achieve this, the Joint Research Centre of the European Commission in 2010 released the official database BioSAM (Bioeconomy Social Accounting Matrix) which was a valuable contribution toward the analysis of the bioeconomy for every European nation, including a comprehensive breakdown of the bioeconomy accounts (Mainar et al., 2018).

At the end of 2025, the European Commission published the new Strategic Framework for a Competitive and Sustainable EU Bioeconomy, further emphasizing the bioeconomy's role at the heart of the European Union's industrial and economic renewal and green competitiveness (European Commission, 2025a, 2025b). This new strategy aims to

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leverage the use of renewable biological resources from both the land and the sea to drive the EU's transition to a low-carbon and more circular economy and to decrease the EU's dependence on fossil fuels imports, while also streamlining regulatory frameworks to facilitate the emergence of bio-based innovations and to increase investment in biotechnologies and bio-based materials (European Commission, 2025a). Specifically, this strategy aims to further promote the EU's leadership role in biotechnology and biomanufacturing, to increase the level of circularity and resource efficiency, and to create public-private investment platforms to facilitate the scale-up and commercialization of sustainable bio-based solutions, and to better support SMEs and rural areas (European Commission, 2025b). This strategy also aims to identify bio-based markets like advanced fermentation, bioplastics, bio-based chemicals, and sustainable fertilizers as high-growth markets for decarbonization and job creation in the EU ().

Similarly, in the last decades, the bioeconomy has become a key topic in the policy area of sustainable development. Terminology such as “bio-based economy” and “knowledge-based bio-economy” (KBBE) emerged in the early 2000s, however, concrete policy engagement began in earnest in the mid-2000s. Early European Union strategic documents - the 1993 White Paper on Growth, Competitiveness and Employment and the 2000 Lisbon Agenda - already highlighted the importance of investing in knowledge-intensive sectors and biotechnology to secure competitiveness (European Commission (EC), 1993, 2000). In 2002, the European Commission explicitly identified life sciences and biotechnology as frontier technologies with substantial potential to advance Lisbon Agenda objectives. The inaugural international conference on the KBBE in 2005, followed by a second in 2007, firmly established the bioeconomy within European policy discourse, outlining a twenty-year vision for its expansion.

Global policy interest has accelerated since that time. The United States released its National Bioeconomy Blueprint in 2012, catalyzing roughly 10% annual growth in its bioeconomy sector over the following decade ((White, 2012; Carlson, 2016). The European Commission estimates that Europe's bioeconomy generates approximately €2 trillion in annual turnover and sustains nearly 9% of the EU workforce, with every euro invested yielding an estimated tenfold return in added value across sectors (European Commission (EC), 2012a, 2012b). Emerging economies - including Brazil, India, China and South Africa - have similarly embedded bioeconomy objectives within their national growth strategies, and bio-based initiatives feature prominently in African development agendas (Virgin and Morris, 2017).

Despite minor variations in phrasing, most definitions converge on the notion that the bioeconomy spans the entire value chain—from primary production of biomass through downstream conversion into food, feed, bio-based materials and bioenergy. The European Commission's working definition, for example, encompasses agriculture, forestry, fisheries, food processing, pulp and paper, and segments of the chemical, biotechnological and energy industries (European Commission (EC), 2012a, 2012b).

Shifting toward a biomass-anchored economy promises to align economic growth with ecological sustainability, positioning the bioeconomy as a cornerstone of broader “green economy” frameworks. Analyses suggest that systematic substitution of fossil-based inputs with cultivated biomass in Europe could reduce CO₂ emissions by up to 2.5 billion tons annually (Bioeconomy Alliance, n.d.). As estimated by Carus and Dammer (2013), the world harvests some 14 billion tons of agricultural biomass every year. Of this, a large share - some 6 billion tons - is used for animal feed, and another 4 billion tons serve to support animal grazing. By comparison, just a small percentage, some 3% of total harvest (about 0.42 billion tons), goes to energy crops destined mainly for biofuel production. Some 23% of the biomass harvested, or 3.2 billion tons, are directly consumed as food by humans. Top bio-based products today are specialty chemicals, plastics and composites, surfactants, coatings, lubricants, paper, cellulose derivatives, building materials, furniture and pharmaceuticals, with biogas and biofuels

leading the energy field. Continued innovation in biotechnology and life-science research should bring new bio-based products that combine sustainability and improved functionality (European Commission (EC), 2012a, 2012b12).

Major industrial players have already emerged in this space. Among global leaders are Novozymes (biotechnology) and DSM (chemicals) in Europe; Cargill and DuPont in North America; and Nestlé in the food sector. In Germany, companies such as Süd-Chemie, BASF, Evonik, Continental and Symrise are at the forefront of bioeconomy innovation (German Bioecon. Council, 2015a, 2015b). Yet, to realize the full potential of a bioeconomy, coherent policy frameworks, cross-sectoral coordination, and sustained investment in research, development and market integration will be essential. As both economic complexity and the bioeconomy are being increasingly recognized as drivers of sustainable and inclusive growth, an emerging literature has started investigating how complexity-based strategies can be transferred to bio-based sectors and regions - a link which the subsequent review discusses at length.

Despite the volume of papers on the bioeconomy issued in recent years, it is still an entity that needs more study on estimating economic, environmental, and social impacts (D'Amato et al., 2017). The primary drawback of studies on activities such as the bioeconomy is the scarcity of information that is publicly available and national accounts cannot break down the accounts of bioproducts (Ronzon and M'Barek, 2018; Mainar et al., 2017). At present, no global methodology is accessible for estimating performance within the bioeconomy. Due to the reason that numerous bioeconomy policies have thrived across the globe, common methodology of the kind is imperative in order to facilitate comparison of the impact.

In recent years, numerous studies have emerged employing diverse approaches and datasets to quantify the bioeconomy (Wesseler and von Braun, 2017). The majority of the work dealt with Europe and the EU nations or the USA and utilized multisectoral approaches with Input-Output analysis, Social Accounting Matrix (SAM), or computable general equilibrium model (Smeets et al., 2014 & Bracco et al., 2018). Multi regional, regional, and national Input-Output tables have been utilized for studying the bioeconomy and biosectors in nations such as the USA (Joshi et al., 2012), Poland (Loizou et al., 2019), Japan (Wen et al., 2019), the Netherlands (Heijman, 2016), Germany (Budziński et al., 2017), Nicaragua (Zúniga and Trejos, 2014), Finland (Lehtonen and Okkonen, 2013), China (Song et al., 2015), the Baltic Region (Brizga et al., 2019), and for much of Asia, European, and American nations (Bruckner et al., 2019 & Asada et al., 2020). The Social Accounting Matrix, with more information provided in an input-output table, was utilized for research on bio economy and relevant sectors, e.g., in Mexico (Becerril and Albornoz, 2010), Turkey (Çağatay et al., 2017), Spain (Mainar and Philippidis, 2019 & Cardenete et al., 2014), Brazil (Machado et al., 2020), Uganda (Nakamya and Romstad, 2020), and the EU (Philippidis et al., 2014), Fuentes et al., 2017 & Philippidis and Sanjuán, 2018).

In view of the above, the fundamental aim of this paper is to introduce a sector-specific metric designed to quantify and compare national bioeconomic capabilities around the globe, keeping the essence of Economic Complexity Index (ECI) at its heart. The Economic Complexity Index (ECI), developed by Hidalgo and Hausmann (2009), measures the amount of productive knowledge in an economy by analysing the diversity of a country's exports and the ubiquity of those products globally. For this study, product-level export data were collected by downloading the complete list of Harmonized System (HS) codes and corresponding product descriptions at the six-digit level from the United Nations Statistics Division (UN Stats). The products were then filtered and categorized into eight bio-based sectors. By employing the identical methodology used to compute ECI, we mathematically derived the country-product matrix, product ubiquity, country diversity and ultimately the Bioeconomy Complexity Index (BCI). To further contextualize the BCI, we conducted the Pearson correlation coefficient and OLS

regression analysis.

This paper is structured as follows. Section 2 sheds light on the background of the study. Section 3 presents the literature review on past research done on the relevant topics. Section 4 depicts the data and methodology followed in the study. Section 5 discusses the results of the BCI score, rankings and export capabilities. Section 6 depicts the findings of the analyses. Sections 7 and 8 include implications and conclusions for the paper.

2. Literature Review

The ECI has attracted significant attention from researchers and policymakers. It can explain more variation in country income per capita and economic growth than other variables commonly employed in growth regressions such as governance, institutional quality, education, and competitiveness (Hausmann et al., 2014a, 2014b; Hidalgo and Hausmann, 2009). Early work by Sbardella et al. (2018) introduced “Green Technology Fitness” from patent networks; Fraccascia et al. (2018) devised a “Green Diversity” index based on export composition; and Fankhauser et al. (2013) combined patent, export and output data to assess “Green Competitiveness.” Product-Space methodologies have further identified proximity-based opportunities for green diversification (Hamwey and Pacini, 2013; Huberty and Zachmann, 2011), with Fraccascia et al. (2018) highlighting “Max Proximity” as a predictor of feasible green-product entry. (Teytelboym and Mealy, 2022) advance these approaches by constructing a Green Complexity Index (GCI) and Green Complexity Potential (GCP) using trade data (1995–2014), demonstrating that higher GCI scores correlate with stringent environmental policies, higher green-patenting rates and lower CO₂ emissions, while GCP emphasizes path-dependent diversification prospects.

The relationship between economic complexity and ecological sustainability has garnered growing scholarly attention, particularly in the context of the Environmental Kuznets Curve (EKC) hypothesis. (Khan et al., 2022) empirically analyzed G-7 economies from 1996 to 2019 and found a U-shaped relationship between the Economic Complexity Index (ECI) and Ecological Footprint (EFP), indicating that while initial increases in complexity exacerbate environmental degradation, surpassing a certain threshold helps mitigate it. Their study also revealed that renewable energy consumption improves environmental outcomes, whereas non-renewable energy, economic growth, and trade intensity contribute to greater ecological damage. In a country-specific analysis, Pata (2021) confirmed the EKC hypothesis for the USA, highlighting that increased economic complexity initially raises but eventually reduces environmental pollution, with renewable energy and globalization playing key roles in mitigating emissions, while non-renewable energy aggravates them. In contrast, Yilanci and Pata (2020) found no support for the EKC hypothesis in China; their results showed that economic complexity consistently increases ecological footprint in both the short and long term, emphasizing that growth alone is insufficient for environmental improvement and calling for greener export strategies. A growing body of empirical work examines the relationship between economic complexity and environmental burdens. Panel studies (e.g., Khan et al., 2022; Nathaniel et al., 2022) and time-series analyses (Shahzad et al., 2021) have predominantly focused on carbon emissions, yet investigations into ecological footprints remain comparatively scarce. Rafique et al. (2022) employ dense-panel data for the world's ten most complex economies over 1980–2018, finding that complexity and urbanization amplify ecological footprints while renewable-energy deployment reduces them; Nguyen and Doytch (2022) uncover an inverted-U relation across 95 countries grouped by income; and country-specific ARDL studies for Japan (Wang et al., 2023a, 2023b) reveal symmetric and asymmetric effects whereby favourable shocks to complexity lower footprints, whereas adverse shocks exacerbate them. Extensions to G-10 (Saqib et al., 2023) and Nordic (Alola et al., 2023) contexts similarly attest to complexity's role in decoupling environmental pressures. Collectively, these studies suggest that the

environmental impact of economic complexity is highly context-dependent, shaped by factors like energy composition, globalization, and policy frameworks.

The expansion of bio-based sectors—ranging from biomaterials and biochemicals to biopharmaceuticals—not only deepens industrial diversification but also enhances forward and backward linkages, promoting spillovers across related industries (Ramírez et al., 2025). Empirically, studies suggest that countries investing in bioeconomy development—through biomaterial innovation and value-chain expansion—see improvements in economic complexity and competitiveness (e.g., Brazil's efforts to leverage bio industrial diversification to climb the ECI rankings) (Lopes, 2023). Finally, literature on the sustainability transition underscores that complexity-based indicators can serve as leading metrics to evaluate readiness for global transitions toward circular and bio-based productivity models (Caldarola et al., 2024).

On the other hand, bioeconomy has had its own fair share in influencing exports around the globe. Resource-rich emerging economies often show even higher export shares: Brazil's bioeconomy generated roughly 45.8% of its export value in 2022 (FGV(Getulio Vargas Foundation FGV., 2023), whereas New Zealand's “added-value bioeconomy” exports (processed foods, infant formula, nutraceuticals, Manuka honey, etc.) grew from about USD 1.5 billion in 2003 to USD 8.3 billion in 2023 (Ministry of Business et al., 2024). Likewise, the EU has become a world leader in agri-food (bio-based) exports i.e. €138 billion in 2018 – a growth attributed in part to market-oriented policies that expanded trade. This export orientation in turn influences domestic innovation and production – studies report that higher bioeconomy export intensity is correlated with increased private R&D spending in these sectors (Nițescu and Murgu, 2020). Policy reviews also emphasize trade's dual role for the bioeconomy. On one hand, open trade can “spread innovative” circular bio-based goods, by moving biomass, by-products and technologies across regions to scale up sustainable bioproduction. On the other hand, unbalanced trade of bio-based goods can lock in unsustainable practices (such as intensive farming or long-distance food transport) and expose countries to environmental and geopolitical shocks (Barrie and Kettunen, 2023). In summary, a robust bioeconomy tends to boost exports of biological products (often generating trade surpluses), while global market demand and trade policies simultaneously help shape which bio-based industries grow and how they evolve.

At the country level, multisectoral modelling has quantified the bioeconomy's economic footprint in nations such as Spain. These analyses reveal that traditional agri-food and biomass sectors deliver strong growth and employment multipliers, whereas nascent bioindustries (e.g., biofuels, bio-based chemicals) display limited market penetration and smaller employment impacts. Ferreira et al. (2021) found that targeted R&D incentives, innovation policies and market-integration measures are necessary to scale emerging bio-based activities and maximize their socioeconomic and environmental contributions.

Moving beyond Europe, Többen et al. (2022) assessed how the bioeconomy may reconfigure land use and economic outcomes in Africa, the Asia-Pacific, the Americas and emerging economies. Projections indicate that intensified biomass demands could accelerate land-use change - particularly in sub-Saharan Africa and parts of Asia - while economic gains may accrue unevenly: regions like North America and South America are forecast to enjoy GDP growth, whereas countries such as Brazil, Russia, India and parts of Africa may face declining GDP per capita. These insights underscore the need for global governance mechanisms to manage land conversion pressures and to mitigate widening inequalities.

Complementing econometric analyses, influence-analysis frameworks have been applied by Heimann (2019) to derive plausible bioeconomy futures - namely business-as-usual, “bioeconomy,” and “sustainable bioeconomy” pathways - and to project their impacts on individual Sustainable Development Goals (SDGs). While a “bioeconomy” transition promises cleaner industrial processes and advances

targets such as SDG 2 (Zero Hunger), SDG 7 (Affordable and Clean Energy) and SDG 9 (Industry, Innovation and Infrastructure), it simultaneously poses mixed socio-economic risks and significant environmental trade-offs. Positive outcomes include intensified sustainable agriculture, job creation and expanded use of renewables; negative externalities have been flagged for water overuse (SDG 6), biodiversity decline (SDG 15) and inequitable benefit distribution (SDG 10). Policy reviews within the OECD, EU and Germany underscore the imperative of integrating inclusive governance and sustainability safeguards to reconcile these outcomes (Heimann, 2019).

Recent research evidence suggests that the engagement with bioeconomy policy is increasing but also becoming more critical. Gould et al. (2023), using bibliometrics, find that applied bioeconomy research has grown steadily but continues to focus on the more traditional areas of bioenergy and forestry, which were at the forefront of the original policy agendas. Simultaneously, the most highly cited research seems to be more critically examining the sustainability credentials and promises of bioeconomy policies, indicating a shift in the way that bioeconomy research is viewed by academics. Supporting these observations, Eversberg et al. (2023) find that the original bioeconomy agendas, primarily driven by techno-optimism and growth expectations, are gradually being moderated within EU policy discourse in light of empirical ‘reality checks.’ They find that their extensive review of discourse, institutional, economic, and biophysical research streams reveals that there are significant limitations on large-scale growth in the bioeconomy, including definition controversies, power disparities, economic justification, and ecological limitations. They propose that research on the bioeconomy needs to move beyond techno-economy perspectives in favor of a more general concept of social-ecological transformation that incorporates conflict, distributional questions, and feasibility considerations.

Additionally, latest studies in bioeconomy represent an advancement in the subject by strengthening the conceptual basis, identifying the changing landscape, and developing methods for bioeconomy assessments at the regional level. (Zúñiga-Gonzalez et al., 2024) start with the development of an innovative bioeconomy framework based on the bioeconomic theory formulated by Georgescu-Roegen, demonstrating through the application of data envelopment analysis (DEA) and stochastic frontier analysis (SFA) methods the importance of bioeconomic efficiency, which must be measured through the lens of physicality, scarcity, and entropy. This work not only refutes the traditional neo-classical model with its focus on growth but also incorporates other approaches such as the agricultural bioeconomy model and the circular bioeconomy model. To add to this development, Nifatova et al. (2024) have applied the methods of bibliometric analysis and cluster analysis to identify the explosive growth, diversification, and changing focus from the traditional production- and climate-related issues in bioeconomy studies since 2013, with an increased focus on issues such as regulation, innovation, and the broader socio-economic aspects. This work identifies the development of an emerging consensus on the need for an “alternative bioeconomy” based on the principles of the Green Economy, while also considering the debates on sustainability. Moving from the theoretical development to the practical implementation, Kalimeris et al. (2025) have applied an innovative two-step multi-criteria decision analysis framework to identify relevant indicators, rank the regions, and demonstrate the differences through the TOPSIS technique, thereby establishing the importance of the disaggregated, multi-dimensional assessment in the development of targeted policy approaches for the implementation of the bioeconomy.

While the existing research has comprehensively explored the linkages between economic complexity, green growth, and ecological sustainability, it has almost entirely neglected the impact of trade patterns and industrial competencies unique to the bioeconomy on such linkages - a gap our research tries to fill.

3. Data & Methodology

The Economic Complexity Index (ECI) quantifies a region's productive capabilities by leveraging information on the presence of diverse economic activities. Intuitively, an economy that produces - or exports - a broad array of sophisticated products is inferred to possess a richer set of underlying know-how, institutional frameworks and technological capacities. Empirically, higher ECI scores have been robustly linked to elevated income levels (Hidalgo and Hausmann, 2009; Hausmann et al., 2014), accelerated economic growth (Hidalgo and Hausmann, 2009 & Hausmann et al., 2014), reduced income disparities (Hartmann et al. 2017), and lower greenhouse-gas emissions (Can and Gozgor, 2017; Neagu, 2019) Beyond international trade data (Hidalgo and Hausmann, 2009 & Hausmann et al., 2014a, 2014b), researchers have successfully extended complexity measures to employment patterns (Fritz and Manduca, 2019), financial markets (Gao and Zhou, 2018), and patenting records (Balland and Rigby, 2017), underscoring the index's versatility.

Complementing the ECI, the Product Complexity Index (PCI) measures the depth of capability demanded to manufacture a particular good or enter a particular industry (Balland et al., 2020). More complex products are spatially concentrated in sophisticated economies with the necessary skills and infrastructures. Estimation of both ECI and PCI depends on a bipartite incidence matrix M_{cp} , which notes whether location c is adequately specialized in activity p (frequently operationalized through a Revealed Comparative Advantage or Location Quotient cutoff). Through an iterated mapping - where a location's complexity is a function of the complexities of its activities, and each activity's complexity is a function of the complexities of its producing locations - one achieves self-consistent eigenvector solutions. In practice, this involves solving linear fixed-point equations whose leading nontrivial eigenvectors provide the ECI and PCI. Since these indices are relative in nature - determined by the entire matrix of worldwide activities - they are standardized through z-scores to enable comparisons across regions and time.

Subnational applications extend this approach by combining international PCI values with presence-absence indicators based on local output shares. A modified RCA ratio compares an activity's local share to its global share, so that more diversified or economically larger regions do not automatically appear specialized in all sectors (Balassa, 1965). Traditional complex measures, however, impose binary cut-offs that can introduce artifacts near the threshold. To avoid this, newer measures like ECI+ substitute the hard RCA threshold for a continuous weighting: each country's total exports are down-weighted by the relative rarity - or “difficulty” - of exporting each product and normalized by the size of its export economy (Albeaik et al., 2017). This retains the basic intuition—different products require different bundles of capabilities—while reducing noise from arbitrary dichotomizations.

Decades of empirical inquiry attest to the ECI's predictive power. Early studies demonstrated that, controlling for per-capita income, economies with higher complexity grow more rapidly - often by 4–7 percentage points of annual GDP growth per standard-deviation increase in ECI. Subsequent work has extended these findings to subnational regions, confirmed links between complexity and narrower income inequality, and documented its negative association with carbon emissions. Collectively, this body of research positions economic complexity as a compelling, multifaceted indicator for policymakers seeking to foster sustainable, inclusive development.

Originally developed by Hidalgo and Hausmann (2009), the ECI is designed to evaluate the knowledge intensity of an economy based on the diversity of products it exports and the ubiquity of those products across countries. We adapt this approach to focus exclusively on bio-based exports, thereby creating the BCI as a tailored instrument for capturing the technological and knowledge capabilities embedded in a country's bioeconomy.

The selection of the ECI framework is grounded in its proven conceptual strength for capturing underlying productive capabilities that

are not directly observable but reflected in trade patterns. Since the bioeconomy is inherently knowledge- and innovation-driven - requiring scientific know-how, value chain coordination, and technological adaptation - it shares core features with the industrial sectors ECI was originally designed to analyse. Therefore, the ECI approach provides a robust methodological foundation for constructing the BCI, enabling meaningful cross-country comparisons of bioeconomic complexity and specialization.

The construction of the BCI follows a two-stage methodological model:

- (1) Identification of bioeconomy-relevant export products and construction of a binary country-product matrix using Revealed Comparative Advantage (RCA) criteria.
- (2) Application of the ECI algorithm to derive complexity scores based on the diversity (number of bio-based products exported by a country) and ubiquity (number of countries exporting a given bio-based product).

To ensure transparency, reproducibility, and analytical rigor, this study draws exclusively on secondary data from internationally recognized and authoritative databases. Each source contributes a specific data component essential for constructing the Bioeconomic Complexity Index (BCI), as summarized in Table 1.

Data processing, analysis, and visualization were performed in Python using the JupyterLab environment (Kluyver et al., 2016) to ensure an interactive and reproducible workflow. The primary libraries employed include pandas for data manipulation (Reback et al., 2020), NumPy for numerical computations (Harris et al., 2020), statsmodels for econometric analysis (Seabold and Perktold, 2010), and matplotlib for data visualization (Hunter, 2007).

3.1. Stage 1: Product Identification and Classification

In the first stage, we introduce our own unique approach to collect product-level export data by downloading the complete list of

Table 1
Data sources, extracted material, and analytical purpose.

Data Source	Extracted Material	Time Coverage	Analytical Purpose
United Nations Statistics Division (UNSD, 2024)	Full list of Harmonized System (HS) 6-digit product codes and official product descriptions	Static reference	Identification and classification of bio-based products; construction of bioeconomy product taxonomy
UN Comtrade (United Nations, 2024)	Country-level export values by HS 6-digit product codes	2000–2023	Construction of country-product export matrix; calculation of Revealed Comparative Advantage (RCA); input for BCI computation
UNCTAD (2024)	Export Diversification Index	2000–2023	Contextual analysis & descriptive statistics
World Bank (2024)	Macroeconomic indicators - GDP per capita	2000–2023	Contextual analysis & descriptive statistics
Atlas of Economic Complexity (Hausmann et al., 2014a, 2014b)	Economic Complexity Index (ECI) methodology, algorithms, and benchmarks	Methodological reference	Replication and adaptation of ECI framework for bioeconomy-specific application

Source: Author's Compilation of Data.

Harmonized System (HS) codes and corresponding product descriptions at the six-digit level from the United Nations Statistics Division (UN Stats). The products were then filtered and categorized into eight bio-based sectors. This classification served as the basis for isolating products relevant to the global bioeconomy (Appendix Section 1).

The eight bio-based sectors were chosen based on criteria which have both theoretical and empirical foundations and correspond to traditional notions of the bioeconomy as an economic system based on renewable biological materials, biological processes, and biotechnological knowledge (Georgescu-Roegen, 1971; OECD, 2009; European Commission, 2018). The sectors meet three different criteria: (1) inclusion of the bioeconomy value chains from the conversion of biomasses to bio-based manufacturing, (2) alignment with the high priority sectors defined in global strategies of the bioeconomy, and (3) possibility of analysis based on HS 6-digit trade statistics, which allow for RCA analysis among countries. The eight sectors together provide a balanced and relevant global bioeconomy and have a level of granularity high enough to capture variations in knowledge intensity and diversification, which improves the conceptual validity of BCI as a measure of bioeconomic productive capabilities rather than a dependency on biomasses. See Table 2:

3.2. Stage 2: Construction of Country-Product Matrix and Computation of BCI

In the second stage, export data for the identified bio-based products were retrieved from the United Nations Comtrade (United Nations, 2024) database for all countries over the period 2000–2023. Using this data, a binary country-product matrix M_{cp} was constructed, where $M_{cp} = 1$ if country c exports product p with revealed comparative advantage ($RCA \geq 1$), and $M_{cp} = 0$ otherwise. The revealed comparative advantage, RCA_{cp} , is computed using Balassa's (1965) index:

$$RCA_{cp} = \frac{\sum_p X_{cp}}{\sum_{c,p} X_{cp}}$$

where X_{cp} = export value of product p by country c .

From M_{cp} , two key metrics are derived:

1. Country diversity ($K_{c,0}$): the number of bio-based products that a country exports with comparative advantage

$$K_{c,0} = \sum_p M_{cp}$$

2. Product ubiquity ($K_{p,0}$): the number of countries that export a given bio-based product with comparative advantage

$$K_{p,0} = \sum_c M_{cp}$$

The method of reflections, originally proposed by Hidalgo and Hausmann (2009) was then employed to iteratively refine the information about countries and products by incorporating the complexity of their trading relationships. The n -th order iteration for country c and product p is given by:

$$K_{c,n} = \frac{1}{K_{c,0}} \sum_p M_{cp} K_{p,n-1}$$

$$K_{p,n} = \frac{1}{K_{p,0}} \sum_c M_{cp} K_{c,n-1}$$

Starting with $K_{c,0}$ and $K_{p,0}$, the iteration proceeds until

convergence. Following the approach of [Hidalgo and Hausmann \(2009\)](#), the BCI for each country is extracted as the second eigenvector of the resulting matrix which measures the similarity in export profiles across countries, adjusted by product ubiquity.

To ensure comparability across countries and over time, the raw BCI values were standardized using z-score normalization, using the formula depicted below:

$$BCI_c^{norm} = \frac{BCI_c - \mu_{BCI}}{\sigma_{BCI}}$$

where, μ_{BCI} & σ_{BCI} denote the mean and standard deviation of the BCI distribution respectively.

The BCI scores were then normalized to have a mean of zero and a standard deviation of one. Countries were subsequently ranked based on their BCI scores to assess their relative complexity in bio-based product exports.

To evaluate the strength of the linear relationship between the (BCI) and other economic indicators, we used the Pearson correlation coefficient. Given the nature of our dataset, we applied the computational formula of Pearson's r , defined as:

$$r = \frac{n(\sum xy) - (\sum x)(\sum y)}{\sqrt{[n\sum x^2 - (\sum x)^2][n\sum y^2 - (\sum y)^2]}}$$

where, r = correlation coefficient, n = number of data points, $\sum(xy)$ = sum of the products of each x and y value, $\sum x$ = sum of all x values, $\sum y$ = sum of all y values, $\sum x^2$ = sum of the squares of all x values, $\sum y^2$ = sum of the squares of all y values.

The Pearson correlation is applicable in this instance because of the nature of the BCI itself, which is a standard index that is derived in a continuous fashion by eigenvector-based techniques and is akin to the ECI. In addition to this, the dependent variables of GDP per capita, ECI, and the Export Diversification Index are themselves continuous macro-economic variables that have long-established linear relationships with complexity indices. Further, the sample size of countries is sufficiently large to be non-reliant on slight deviations from normality.

With these properties in mind, additional correlation tests based on rank correlation, such as Spearman's rho, were unnecessary in the main

analysis. Notwithstanding, Pearson correlation is a conservative test regarding the identification of monotonic, nonlinear associations, and thus the findings are to be regarded as indicating linear associations between bioeconomic complexity and economic performance.

Following the correlation analysis, simple linear regression models were constructed to quantify the predictive relationship of BCI with each individual indicator. In this section, we introduce another index to further contextualize the BCI scores and that is Export Diversification Index or EDI. For each model, BCI was treated as the independent variable, while GDP per capita, ECI, and EDI were used separately as dependent variables, following the formula:

$$Y = \beta_0 + \beta_1 X + \epsilon$$

where, Y = dependent variable (GDP per capita, ECI, EDI), X = Independent variable (BCI), ϵ = error term.

4. Results & Findings

This section presents the scores and rankings of the BCI for more than 157 countries over the period from 2000 to 2023. The results reflect the evolution of bioeconomic capabilities globally and highlight the structural differences in countries' export baskets of bio-based products, see Appendix Section 2.

[Fig. 1](#) and [Table 3](#) offer a complementarity in terms of a temporal and spatial representation of the development of the global bioeconomy based on the Bioeconomy Complexity Index. Although [Table 3](#) shows the leading countries in terms of bioeconomic complexity at a set of selected dates, the choropleths give a global perspective of how bio-based productive capabilities have developed over time. A discernible structural shift in the global bioeconomy at about its formalization in the policy environment circa 2010 emerges when these findings are considered together.

In 2000, long before a bioeconomy formally entered policy discourse, there is a clear concentration of relatively high scores on the BCI map in a small number of industrialized and developing economies, particularly in Europe and parts of Asia. [Table 3](#) confirms that at this formative stage, a leading group of countries included India, the UK, Czechia, Italy, and China. Such a distribution of scores suggests that at a

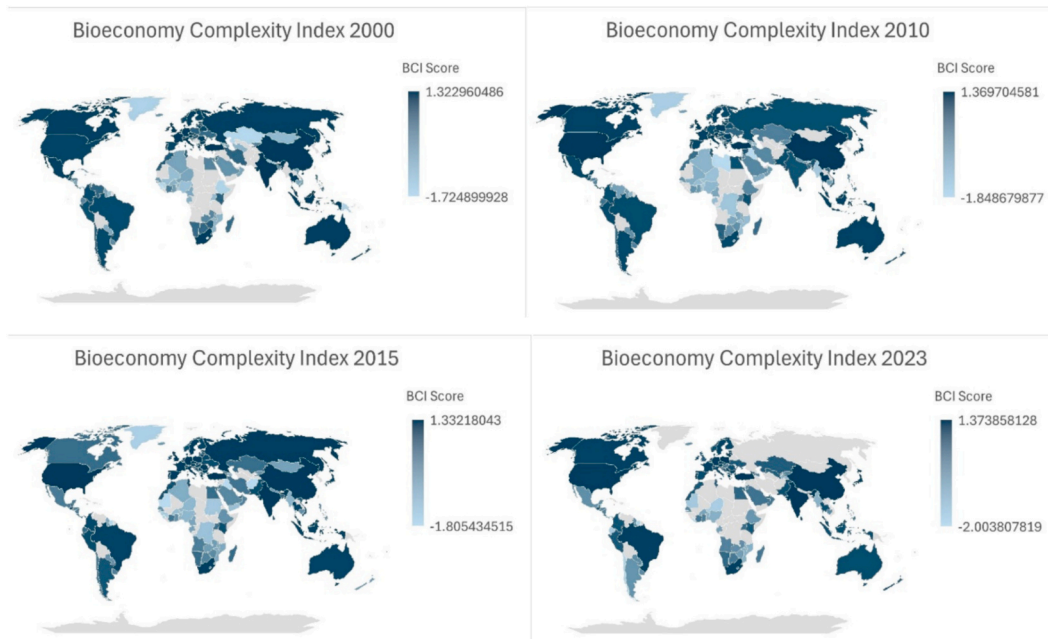


Fig. 1. Global maps showing Bioeconomy Complexity Index (BCI) scores for 2000, 2010, 2015 & 2023. Source: Figure created by authors (Data collected from UN COMTRADE).

very early stage in bioeconomic development, bioeconomic potential is largely a function of established industrial-technological capabilities, rather than bioeconomic strategy per se. Bio-based production is here closely associated with established agri-food, chemistry, and material sectors, rather than with bioeconomy strategy.

However, in 2010, in parallel with the growing institutional focus on the bioeconomy, there is a more marked differentiation in the spatial pattern of Bioeconomic Complexity Index (BCI) scores. The results are reflected in a marked intensification of bioeconomic complexity in Europe, North America, and East Asia, with new regions of strong performance in Eastern Europe. This is recorded in Table 3, in which China, the United States, Turkey, and Poland move into the top ranks. This phase marks a shift from potential bio-based capabilities to more intentional specializations that may signal new policy focus, research and development investments, or trade in more sophisticated bio-based goods.

The period after 2010, represented by the 2015 and 2023 maps, suggests a certain consolidation of leadership positions in the global bioeconomy. By 2015, the geographical distribution of BCI scores suggests a certain reinforcement of bioeconomic capacities in Europe and Asia but with certain differences becoming more apparent. Countries like Turkey, Poland, and the Netherlands stand out as persistent leaders, which is clear from Table 3 above. The leadership position attained by Turkey in the BCI by 2023 also suggests that a certain high degree of structural complexity could be attained by countries like Turkey that scores lower in traditional economic indicators.

As of 2023, the choropleth map captures a structured bioeconomy scenario where leaders and laggards have emerged rather clearly. The high scores of BCI continue to be geographically circumscribed in Europe and Asia, while the lower levels of complexity continue to be manifested in Africa and Latin America. The fact that there is spatial persistence in these patterns suggests that while bioeconomy policies have become more global in reach, the accretion of complex bioeconomy capabilities remain path-dependent to a considerable degree. Table 3 above bears this out: while there has been some change in who leads, it remains largely comprised of innovators and globally

networked economies.

Overall, there is an indication that the bioeconomy has developed evenly in different nations since its recognition in policy frameworks around 2010. It is evident that the BCI measures a certain evolution that has occurred in the reorientation of already established productive capabilities toward bio-based activities. This is indicated in the patterns that suggest that for a country to have a successful development in its bioeconomy, there is a need to focus more on its capability to integrate its biological resources with advanced knowledge, manufacturing, and export orientation. Through both historical and spatial approaches, the combined data from Table 3 and Fig. 1 highlights the importance of BCI in measuring the evolution of the bioeconomy prior to its recognition in policy frameworks.

Full BCI scores and corresponding country rankings for all years from 2000 to 2023 are provided in Appendix Section 2 for reference and further analysis.

To examine the product-level bioeconomic engagement of countries with the highest and lowest BCI scores over time, a year-wise breakdown of the number and categories of bio-based products exported by the top and bottom 10 countries from 2019 to 2023 was constructed, see Appendix Section 3. The results for 2023 are presented in Fig. 2. The data reveals both variation in the composition of leading and lagging countries as well as consistent product-level trends across key bio-based categories such as bioplastics, bio-based lubricants, and textiles.

Fig. 2 highlights a stark stratification in global bioeconomic participation. At the head of the pack, nations like Turkey (354 unique bio-based products), India (346), and the United States (349) exhibit an extremely diversified export profile across all eight major bio-product categories - such as bioplastics, bio-based lubricants, solvents, fuels, surfactants, biochemicals, textiles, and adhesives. Such widespread diversification is indicative of a highly developed and stable bioeconomy machinery, marked by profound technological expertise, integrated value-chain connectivity, and mature industrial ecosystems that can support high-value bio-industrial outputs.

On the other hand, the economies in the lower decile - illustrated by the Central African Republic (4 products), the Maldives (2), and French

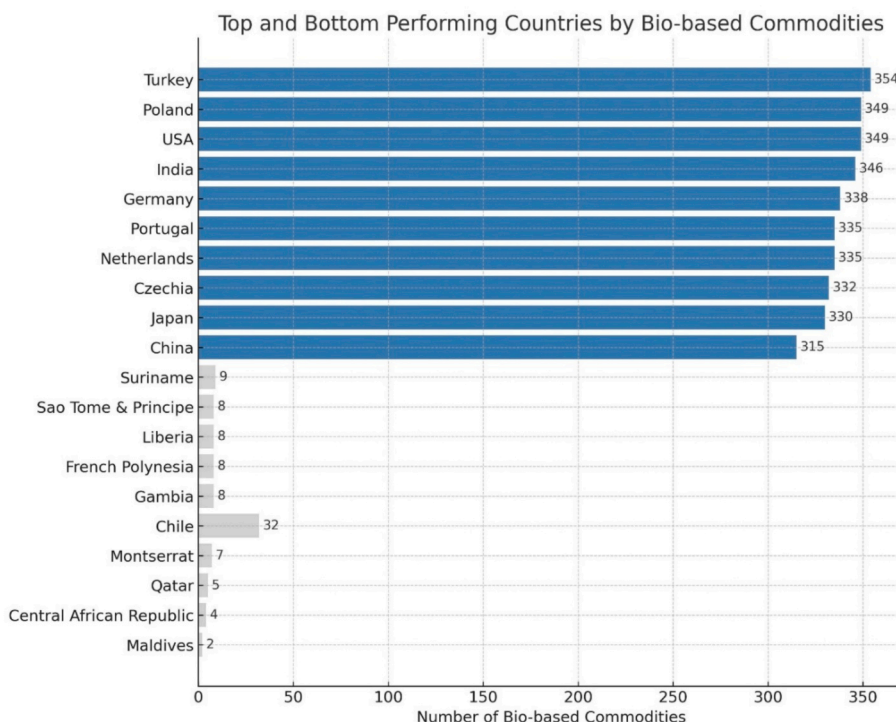


Fig. 2. Bar chart for No. of Commodities exported by top and bottom 10 BCI ranked countries for 2023. Source: Chart created by authors.

Polynesia (8) - mirror a dramatically narrow export base, mostly limited to a few lower-complexity niches like bio-textiles, simple lubricants, or basic surfactants. The fact that such limited participation in high-complexity bio-product areas persists underscores deep-seated structural weaknesses: low research and development capacity, fragmented supply chains, and weak access to enabling technologies.

Among the middle-ranked economies, several countries stand out for having made the largest leaps - both upward and downward - between 2019 and 2023: France vaulted from 50th to 16th place, an improvement of 34 positions, reflecting stronger diversification in its bio-circular indicators. Ireland rose from 57th to 31st (+ 26), and Finland from 54th to 29th (+ 25), each climbing more than twenty places - likely benefiting from policy reforms and growing bio-based innovation. Australia advanced from 49th to 35th (+ 14) and South Africa from 32nd to 17th (+ 15), both seeing double-digit gains. On the other hand, Belgium slid from 10th into 33rd (-23), dropping out of the leading group despite solid 2019 performance. Singapore fell from 29th to 48th (- 19), and Vietnam from 35th to 51st (- 16), each losing ground as other economies accelerated their bio-circular transitions. New Zealand dropped

from 33rd to 45th (-12), while Malaysia declined from 22nd to 32nd (-10). These shifts underscore how national bio-circular indices can change rapidly.

5. Analysis & Discussion

Export Diversification Index (EDI) measures the extent to which the structure of a country's exports differs from the world average. It reflects how diversified (or concentrated) a country's exports are across different products or markets. The index ranges from 0 to 1, where values closer to 1 indicate less diversification (higher concentration), and values closer to 0 indicate greater diversification (IMF, 2009). Including the Export Diversification Index allows us to see whether countries with a narrow export base struggle to pivot toward bioeconomy value chains, while those with more varied exports may more readily adopt and scale sustainable technologies or not.

Pearson correlation coefficients were computed between BCI and selected macroeconomic indicators, including GDP per capita, the Economic Complexity Index (ECI), and the Export Diversification Index

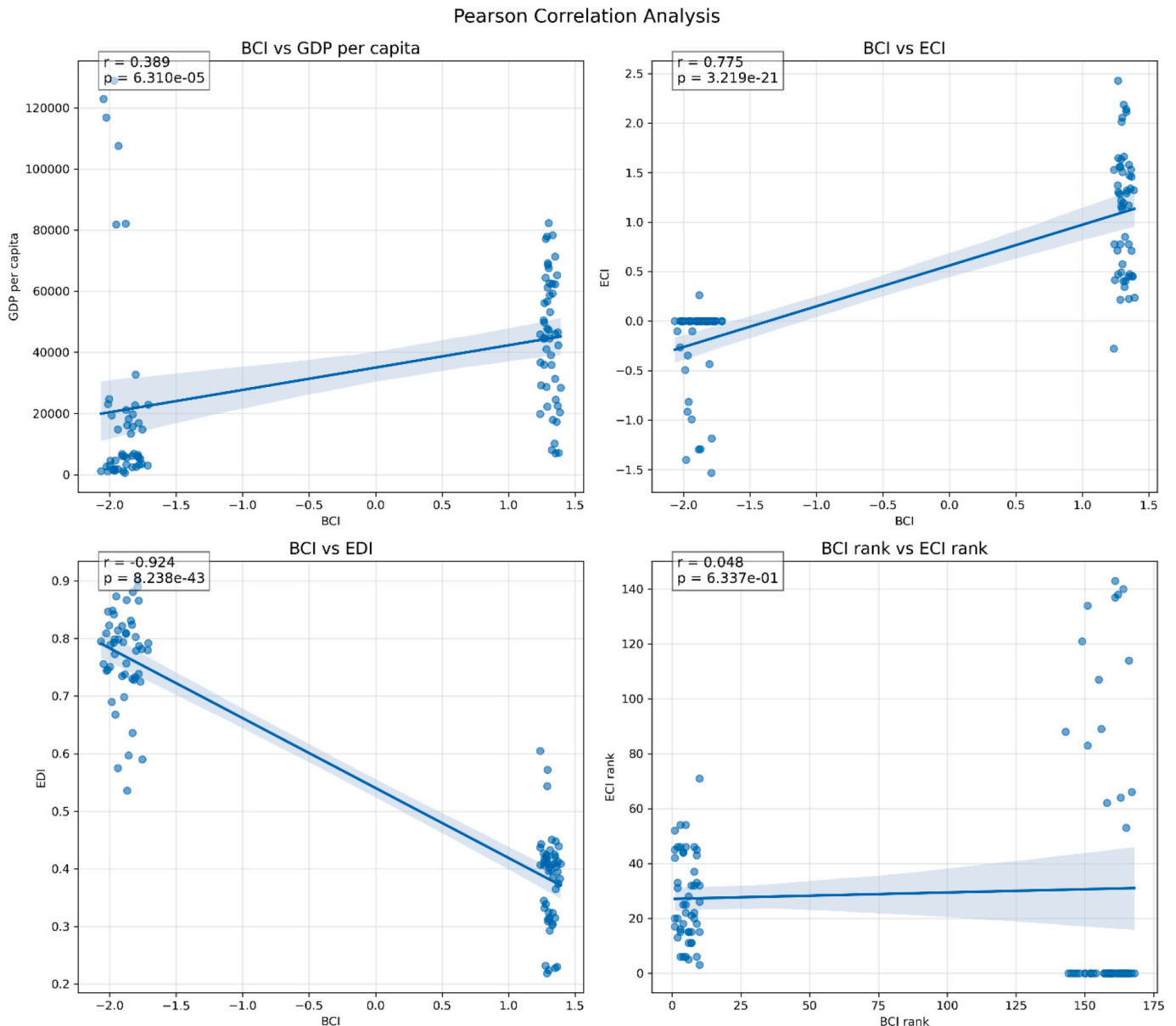


Fig. 3. Pearson Correlation Coefficients for BCI and macroeconomic indicators.

(EDI), see Appendix Section 4 for complete dataset comparison of top and bottom 10 BCI ranked countries.

The bivariate analysis in Fig. 3 of the Bioeconomy Complexity Index (BCI) and per-capita GDP shows a moderate but statistically significant association ($r = 0.3891, p < 0.001$), suggesting that richer countries tend to have more sophisticated and diversely bio economically oriented export profiles. Despite the moderate size of the coefficient, however, bioeconomic sophistication cannot be simply attributed to the extent of economic affluence since it is likely shaped through multiple lenses, such as the institutional regime that defines industries, the extent of the available technological infrastructure, and the quality of both mineral and biological endowments.

A considerably improved and highly applicable correlation is discerned between the Bioeconomy Complexity Index (BCI) and the underlying Economic Complexity Index (ECI) ($r = 0.7747, p < 0.0001$), thus corroborating the hypothesis that diversified, high-value production structures characteristic of economies also results in complex, high-technology bio-industrial export profiles. The strong association thus affirms the conceptual validity of the BCI as a novel extension of the set of economic complexity indicators, particularly crafted for capturing the characteristic traits of the bio-centric value-chains.

By contrast, the association of the Bioeconomic Complexity Index (BCI) and the Export Diversification Index (EDI) is strongly negative ($r = -0.9244, p < 0.0001$). This strong negative association indicates that the countries defined with high levels of bioeconomic complexity are inclined to condense their trade activities within a small set of high-complexity bio-products, instead of diversifying their trade interactions to cover a wide range of low-complexity commodities. This contrast highlights the basic difference between export complexity and export diversity, in addition to the structural proclivity of BCI in terms of specialized abilities instead of simply the volume of trade.

All in all, the association of the ECI rank with the BCI rank in regard to ordinal rankings is weak and not statistically significant ($r = 0.0482, p = 0.6337$). The findings highlight that even with the employment of absolute bioeconomy metrics as extra indicators, relative rankings of countries in the bioeconomy sector are different from the rank in the existing economic complexity hierarchy, thus reflecting the different developmental trajectories of bioeconomies.

Overall, the results of the correlations support the BCI as a robust and novel indicator that reflects the complex structural characteristics of bio-based industries, also displaying relative independence from the overall general economic prosperity and the export diversification patterns.

Building upon the observed correlations, linear regression analysis was conducted to further explore the predictive relationships between the Bioeconomy Complexity Index (BCI) and key economic indicators. While Pearson correlation coefficients provided initial insights into the strength and direction of linear associations, regression models offer a more robust framework for quantifying the impact of BCI on variables such as GDP per capita, ECI, and EDI.

Each regression model was estimated using BCI as the independent variable, with GDP per capita, ECI, and EDI as dependent variables in separate models. The resulting coefficients, intercepts, and R-squared values provide insight into how variations in BCI relate to variations in these indicators, and whether these relationships are statistically significant.

The regression in Table 4: shows the strong economic implications associated with bioeconomic sophistication. Notably, a one-unit increase in the Bioeconomy Complexity Index (BCI) is associated with an empirical gain of about USD 7305.85 in per-capita GDP, all else being equal. The coefficient indicates high statistical significance ($p < 0.001$), even if the explanatory power of the model for GDP per capita is moderate ($R^2 = 0.15$), explaining that other factors in addition to bioeconomic complexity also determine the levels of income.

Considering inter-index correlations, the relationship between the Bioeconomic Complexity Index (BCI) and the Economic Complexity Index (ECI) is both remarkable and different. A one-unit increase in BCI

Table 2
Classification of bio-based products.

Classification	Product Description
Biofuels (Demirbas (2009), Neupane (2022), U.S. Energy Information Administration (2024a, 2024b), Encyclopædia Britannica (2025))	Petroleum oils, Alcohols, Biodiesel, Wood etc
Bioplastics (Hubbe et al. (2021), (Johansson et al., 2012), (Negrete-Bolagay and Guerrero, 2024) Bolagay & Guerrero, (2024), Royer et al. (2023))	Cellulose, Plastics, Paper, Yarn, Fibres, Friction material etc
Biochemicals (Liu (2003), Hassan et al. (2023), Rigueto et al. (2020), Li et al. (2019), Koranian et al. (2022))	Glycerol, Acids, Tanning extracts, Leather, Machinery etc
Bio-based Textiles (Harmsen (2025), Textile Exchange (2024), Carus (2025))	Cotton yarn, Oil seeds, Pulp, Fabrics, Flax, Sacks & bags, Nightdresses, Garments, Hemp, Jute etc
Bio-based Adhesives & Binders (Gadhawe and Gadhawe (2022), Watcharakitti et al. (2022), Admase et al. (2025), Satchanska et al. (2024), Calvez et al. (2024))	Plates, Pharmaceutical goods, Glues, Gelatin, Dextrins, Casein, Twine, Stationery, Textile fabrics etc
Bio-based Surfactants (Karnwal et al. (2023), Nagtode et al. (2023), Stubbs et al. (2022))	Soap, Industrial fatty alcohols & fatty acids etc
Bio-based Solvents (Sicaire et al. (2015), Vertec BioSolvents, Inc (2025), Clark et al. (2015), Zirahi et al. (2019), Xu et al. (2023))	Petroleum resins, Residual products, Solvents & thinners, Oils, Acids, Alcohols etc
Bio-based Lubricants (Salimon et al. (2010), Pillai and Kumar (2017), Patel et al. (2025), Hao et al. (2025))	Instruments, Tools, Engines, Turbines, Wool, Cement, Hydraulic lime & brake fluids etc

Source: Author's classification based on literature cited.

is associated with a 0.412-point increase in ECI, and the model explains 60% of the resulting variability ($R^2 = 0.60; p < 0.0001$). These results confirm the close theoretical correspondence of sectoral bioeconomic capabilities with the larger productivity complexity framework.

Noteworthy is the negative association of the Bioeconomic Complexity Index (BCI) and the Export Diversification Index (EDI). The regression coefficient of -0.1214 ($p < 0.0001$) shows that a rise of one unit in bioeconomic complexity significantly lowers export diversification, and the model is able to explain 85% of the variation in the EDI ($R^2 = 0.85$). The negative association here implies that countries with complex bioeconomic structures are likely to specialize in their trade operations in a small number of high-value, high-tech bio-based commodities, instead of diversifying their export basket to encompass a higher number of lower bioeconomic complexity products.

These regression results, as a group, confirm the two-pronged role of the BCI as simultaneously a statistically significant indicator of core developmental indicators and a strong independent explaining variable. In illuminating the complex interrelationships among bioeconomic complexity, incomes, levels of overall economic sophistication, and trade composition, these findings reinforce the value of the BCI as a useful policy instrument and analytical tool for assessing and ultimately enhancing the world's advancement within the bioeconomy.

6. Conclusion

This paper introduces the Bioeconomy Complexity Index (BCI), a new sector-specific indicator that seeks to measure the bioeconomic capabilities of nations in a comparable manner. Building upon the Economic Complexity concept, the BCI seeks to incorporate the sophistication of the structural composition of countries' bioeconomy export structures, an area that is not addressed in the current state of affairs, in which the focus of most indices lies solely around diversification, income, or sectoral production. This analysis uses the trade statistics of 157 countries over the 2000–2023 time span.

From an empirical perspective, the evidence suggests that the BCI is

Table 3

Top 10 countries by Bioeconomy Complexity Index (BCI) across selected years. Source: Author's compilation based on BCI calculations

Rank	2000 (BCI)	Score	2010 (BCI)	Score	2015 (BCI)	Score	2023 (BCI)	Score
1	India	1.323	China	1.370	Turkey	1.332	Turkey	1.374
2	UK	1.314	USA	1.357	USA	1.317	Poland	1.370
3	Czechia	1.311	Turkey	1.355	UK	1.317	China	1.354
4	Italy	1.301	UK	1.340	Poland	1.315	India	1.346
5	China	1.296	Italy	1.333	Germany	1.309	Netherlands	1.331
6	France	1.296	Czechia	1.332	China	1.303	Czechia	1.312
7	Turkey	1.294	Poland	1.316	India	1.292	USA	1.301
8	Germany	1.289	Switzerland	1.312	Czechia	1.286	Portugal	1.301
9	Japan	1.285	Belgium	1.307	Netherlands	1.276	Germany	1.295
10	Belgium	1.274	China, Hong Kong SAR	1.300	Romania	1.268	Japan	1.267

Table 4

Summary of regression results.

	GDP per capita	ECI	EDI
Intercept	35,023.8118 (1.30e-21)	5.61E-01 (5.82e-17)	0.5404 (8.65e-83)
Coefficient	7305.8469 (6.31e-05)	0.41193.22e-21)	-0.1214 (8.24e-43)
R-squared	0.1514	0.6001	0.8545
Adjusted R-squared	0.1427	0.596	0.853
N observations	100		

not only theoretically justifiable but also of high relevance. The positive correlation of the BCI with the Economic Complexity Index (ECI) not only verifies the fact that the performance of the bio-economy depends on systemic capabilities on a larger scale; on the other hand, the negative correlation of the BCI with the Export Diversification Index (EDI) verifies the fact that the performance of the bio-economy depends on more than just the quantity of bio-economy exports; it depends on the specialization of the economy within high-complexity sectors.

However, aside from these results, this study has several important implications. One is that it now becomes possible to benchmark and monitor changes in bioeconomic transformation across different countries through the BCI. Furthermore, this study indicates that, aside from the fact that there is a need to develop bioeconomic capabilities, there is a danger of a structural divide between developed and less developed nations in terms of their bioeconomic capabilities, as indicated by the high level of disparities in bioeconomic complexities among different nations. Finally, this study indicates that, aside from the need to develop

Appendix A. Appendix Section 1

Categorisation of bio-based products

Classification	Code	Description	Category
H6	271,012	Petroleum oils and oils from bituminous minerals, not containing biodiesel, not crude, not waste oils; preparations n.e.c, containing by weight 70% or more of petroleum oils or oils from bituminous minerals; light oils and preparations	Biofuels
H6	271,019	Petroleum oils and oils from bituminous minerals, not containing biodiesel, not crude, not waste oils; preparations n.e.c, containing by weight 70% or more of petroleum oils or oils from bituminous minerals; not light oils and preparations	Biofuels
H6	271,020	Petroleum oils and oils from bituminous minerals, containing biodiesel, not crude, not waste oils; preparations n.e.c, containing by weight 70% or more of petroleum oils or oils from bituminous minerals	Biofuels
H6	290,511	Alcohols; saturated monohydric, methanol (methyl alcohol)	Biofuels
H6	290,941	Ether-alcohols and their halogenated, sulphonated, nitrated or nitrosated derivatives; 2,2-oxydiethanol (diethylene glycol, digol)	Biofuels
H6	292,211	Amino-alcohols, other than those containing more than one kind of oxygen function; their ethers and esters; salts thereof, monoethanolamine and its salts	Biofuels
H6	292,212	Amino-alcohols, other than those containing more than one kind of oxygen function; their ethers and esters; salts thereof, diethanolamine and its salts	Biofuels
H6	292,215	Amino-alcohols, other than those containing more than one kind of oxygen function; their ethers and esters; salts thereof, triethanolamine	Biofuels
H6	292,216	Amino-alcohols, other than those containing more than one kind of oxygen function; their ethers and esters; salts thereof, Diethanolammonium perfluorooctane sulphonate	Biofuels

(continued on next page)

bioeconomic capabilities, nations, especially those from the Global South or nations that rank lower in terms of BCI, need to invest in bioeconomic innovation and not necessarily expand their biomass-based sector.

The Bioeconomy Capability Index (BCI) is a flexible and scalable tool for assessing the development of the bioeconomy in the context of overall sustainable development. In this respect, the current study fills an important gap in the methodology of bioeconomy research, as it moves the debate from the realm of narrative approaches and piecemeal indices to a scientifically grounded, capability-focused analysis of the position of countries in the global bioeconomy. As the transition to a low-carbon, circular economy gains momentum, the BCI provides a strong empirical tool for facilitating more just, innovation-driven, and sustainable transformations of the bioeconomy. This is particularly relevant in the current context of growing demands for a low-carbon, circular, and sustainable economy.

CRedit authorship contribution statement

Tabassum Tazin: Writing–original draft, Visualization, Validation, Software, Resources, Investigation, Formal analysis, Data curation. **Sascha Stark:** Writing– review & editing, Methodology, Conceptualization, Supervision. **Sandra Venghaus:** Writing– review & editing, Methodology, Conceptualization, Supervision.

Funding Statement

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(Classification)	Code	Description	Category
H6	292,217	Amino-alcohols, other than those containing more than one kind of oxygen function; their ethers and esters; salts thereof, Methyl-diethanolamine and ethyl-diethanolamine	Biofuels
H6	292,218	Amino-alcohols, other than those containing more than one kind of oxygen function; their ethers and esters; salts thereof, 2-(N,N-Diisopropylamino)ethanol	Biofuels
H6	3826	Biodiesel and mixtures thereof; not containing or containing less than 70% by weight of petroleum oils or oils obtained from bituminous minerals	Biofuels
H6	382,600	Biodiesel and mixtures thereof; not containing or containing less than 70% by weight of petroleum oils or oils obtained from bituminous minerals	Biofuels
H6	440,131	Wood; for fuel, sawdust and wood waste and scrap, agglomerated in wood pellets	Biofuels
H6	440,139	Wood; for fuel, sawdust and wood waste and scrap, agglomerated in logs or similar forms, other than wood pellets or wood briquettes	Biofuels
H6	3912	Cellulose and its chemical derivatives, n.e.c. or included, in primary forms	Bioplastics
H6	391,211	Cellulose acetates; non-plasticised, in primary forms	Bioplastics
H6	391,212	Cellulose acetates; plasticised, in primary forms	Bioplastics
H6	391,220	Cellulose nitrates (including collodions); in primary forms	Bioplastics
H6	391,231	Cellulose ethers; carboxymethylcellulose and its salts, in primary forms	Bioplastics
H6	391,239	Cellulose ethers; (other than carboxymethylcellulose and its salts), in primary forms	Bioplastics
H6	391,290	Cellulose and its chemical derivatives; n.e.c. in item no. 3912, in primary forms	Bioplastics
H6	392,071	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of regenerated cellulose; non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bioplastics
H6	392,073	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of cellulose acetate, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bioplastics
H6	392,079	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of cellulose derivatives n.e.c. in heading no. 3920, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bioplastics
H6	392,114	Plastics; plates, sheets, film, foil and strip, of regenerated cellulose, cellular	Bioplastics
H6	4803	Tissue, towel, napkin stock or similar; for household or sanitary uses, cellulose wadding, webs of cellulose fibres, in rolls over 36 cm in width or rectangular sheets with one side exceeding 36 cm when unfolded	Bioplastics
H6	480,300	Tissue, towel, napkin stock or similar; for household or sanitary use, cellulose, wadding webs of cellulose fibres, in rolls exceeding 36 cm in width or rectangular sheets with one side more than 36 cm in unfolded state	Bioplastics
H6	4811	Paper, paperboard, cellulose wadding and webs of cellulose fibres, coated, impregnated, covered, surface-coloured, decorated or printed, rolls or sheets, other than goods of heading no. 4803, 4809, or 4810	Bioplastics
H6	481,190	Paper, paperboard, cellulose wadding and webs of soft cellulose fibres; coated, impregnated, covered, surface-decorated or surface-coloured, n.e.c. in heading no. 4811, in rolls or sheets	Bioplastics
H6	4818	Toilet paper, width 36 cm or less or cut to size/shape; handkerchiefs, tissues, towels, serviettes, bed sheets and similar household or hospital articles, apparel and clothing accessories of paper pulp, paper, cellulose wadding or webs of cellulose fibres	Bioplastics
H6	481,830	Paper articles; tablecloths and serviettes, of paper, cellulose wadding or fibres	Bioplastics
H6	481,850	Paper articles; apparel and clothing accessories of paper, cellulose wadding or fibres	Bioplastics
H6	481,890	Paper articles; articles of paper, cellulose wadding or fibres, n.e.c. in heading no. 4818	Bioplastics
H6	4819	Cartons, boxes, cases, bags and the like, of paper, paperboard, cellulose wadding or fibres; box files, letter trays and the like, of paper or paperboard, of a kind used in offices, shops or the like	Bioplastics
H6	481,930	Paper and paperboard; sacks and bags of paper, paperboard, cellulose wadding or fibres, having a base of a width of 40 cm or more	Bioplastics
H6	481,940	Paper and paperboard; sacks and bags, including cones, of paper, paperboard, cellulose wadding or fibres, having a base width less than 40 cm	Bioplastics
H6	481,950	Paper and paperboard; packing containers, including record sleeves, of paper, paperboard, cellulose wadding or fibres, n.e.c. in heading no. 4819	Bioplastics
H6	481,960	Paper and paperboard; box files, letter trays, storage boxes and similar articles, used in offices, shops or the like of paper, paperboard, cellulose wadding or webs of cellulose fibres	Bioplastics
H6	4823	Paper, paperboard, cellulose wadding and webs of cellulose fibres; cut to size or shape, articles of paper pulp, paper and paper-board, cellulose wadding or webs of cellulose fibres, n.e.c. in chapter 48	Bioplastics
H6	482,390	Paper pulp, paper, paperboard, cellulose wadding or webs of cellulose fibres; articles n.e.c. in heading no. 4823	Bioplastics
H6	540,333	Yarn, artificial; filament, monofilament (less than 67 decitex), of cellulose acetate, single, not for retail sale, not sewing thread	Bioplastics
H6	540,342	Yarn, artificial; filament, monofilament (less than 67 decitex), of cellulose acetate, multiple (folded) or cabled, not for retail sale, not sewing thread	Bioplastics
H6	550,210	Fibres; artificial filament tow of cellulose acetate	Bioplastics
H6	550,290	Fibres; artificial filament tow, other than cellulose acetate	Bioplastics
H6	6811	Asbestos-cement, of cellulose fibre-cement or the like	Bioplastics
H6	681,181	Cellulose fibre-cement; articles or the like; corrugated sheets, not containing asbestos	Bioplastics
H6	681,182	Cellulose fibre-cement; articles or the like, sheets, panels, tiles and similar articles (other than corrugated sheets), not containing asbestos	Bioplastics
H6	681,189	Cellulose fibre-cement; articles or the like, other than corrugated sheets and other sheets, panels, tiles and similar articles, not containing asbestos	Bioplastics
H6	6813	Friction material and articles thereof (e.g. sheets, rolls, strips, segments, discs, washers, pads) not mounted; for brakes, clutches or the like, with a basis of asbestos, other mineral substances, or cellulose	Bioplastics
H6	681,381	Brake linings and pads; with a basis of mineral substances or cellulose (other than asbestos)	Bioplastics
H6	681,389	Friction material and articles thereof (e.g. sheets, rolls, strips, segments, discs, washers, pads) not mounted; for clutches or the like (not brake linings and pads), with a basis of mineral substances or cellulose (other than asbestos)	Bioplastics
H6	1520	Glycerol, crude; glycerol waters and glycerol lyes	Biochemicals
H6	152000	Glycerol, crude; glycerol waters and glycerol lyes	Biochemicals
H6	290545	Alcohols; polyhydric, glycerol	Biochemicals
H6	291811	Acids; carboxylic acids, (with alcohol function but without other oxygen function), lactic acid, its salts and esters	Biochemicals
H6	293212	Heterocyclic compounds; with oxygen hetero-atom(s) only, containing an unfused furan ring (whether or not hydrogenated) in the structure, 2-furaldehyde (furfuraldehyde)	Biochemicals
H6	32	Tanning or dyeing extracts; tannins and their derivatives; dyes, pigments and other colouring matter; paints, varnishes; putty, other mastics; inks	Biochemicals

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(continued)

Classification	Code	Description	Category
H6	3201	Tanning extracts of vegetable origin; tannins and their salts, ethers, esters and other derivatives	Biochemicals
H6	320110	Tanning extracts of vegetable origin; quebracho extract	Biochemicals
H6	320120	Tanning extracts of vegetable origin; wattle extract	Biochemicals
H6	320190	Tanning extracts of vegetable origin; tannins and their salts, ethers, esters and other derivatives, (excluding quebracho or wattle extract)	Biochemicals
H6	3202	Tanning substances; synthetic organic or inorganic tanning substances; tanning preparations, whether or not containing natural tanning substances, enzymatic preparations for pre-tanning	Biochemicals
H6	320210	Tanning substances; synthetic organic tanning substances	Biochemicals
H6	320290	Tanning substances; inorganic tanning substances; tanning preparations, whether or not containing natural tanning substances; enzymatic preparations for pre-tanning	Biochemicals
H6	390770	Poly(lactic acid); in primary forms	Biochemicals
H6	4107	Leather further prepared after tanning or crusting, including parchment-dressed leather, of bovine (including buffalo) or equine animals, without hair on, whether or not split, other than leather of heading 41.14	Biochemicals
H6	410711	Leather; further prepared after tanning or crusting, including parchment-dressed leather, of bovine (including buffalo) or equine animals, without hair on, other than leather of heading 41.14, whole hides and skins, full grain, unsplit	Biochemicals
H6	410712	Leather; further prepared after tanning or crusting, including parchment-dressed leather, of bovine (including buffalo) or equine animals, without hair on, other than leather of heading 41.14, whole hides and skins, grain splits	Biochemicals
H6	410719	Leather; further prepared after tanning or crusting, including parchment-dressed, of bovine (including buffalo) or equine animals, without hair on, split or not, other than leather of heading 41.14, (other than grain splits and full grains, unsplit)	Biochemicals
H6	410791	Leather; further prepared after tanning or crusting, including parchment-dressed, of bovine (including buffalo) or equine animals, without hair on, other than leather of heading 41.14, not whole hides and skins, but including sides, full grain, unsplit	Biochemicals
H6	410792	Leather; further prepared after tanning or crusting, including parchment-dressed, of bovine (including buffalo) or equine animals, without hair on, other than leather of heading 41.14, not whole hides and skins, but including sides, grain splits	Biochemicals
H6	410799	Leather; further prepared after tanning or crusting, incl. parchment-dressed, of bovine (including buffalo) or equine animals, no hair, excluding leather of heading 41.14, and whole hides and skins, and sides, (full grains, unsplit and grain splits)	Biochemicals
H6	4112	Leather further prepared after tanning or crusting, including parchment dressed leather, of sheep or lamb, without wool on, whether or not split, other than leather of heading 41.14	Biochemicals
H6	411200	Leather; further prepared after tanning or crusting, including parchment dressed leather, of sheep or lamb, without wool on, whether or not split, other than leather of heading 41.14	Biochemicals
H6	4113	Leather further prepared after tanning or crusting, including parchment-dressed leather, of animals (other than ovine), without wool or hair on, whether or not split, other than leather of heading 41.14	Biochemicals
H6	411310	Leather; further prepared after tanning or crusting, including parchment-dressed leather, without hair on, whether or not split, other than leather of heading 41.14, of goats and kids	Biochemicals
H6	411320	Leather; further prepared after tanning or crusting, including parchment-dressed leather, without hair on, whether or not split, other than leather of heading 41.14, of swine	Biochemicals
H6	411330	Leather; further prepared after tanning or crusting, including parchment-dressed leather, of reptiles, whether or not split, other than leather of heading 41.14	Biochemicals
H6	411390	Leather; further prepared after tanning or crusting, including parchment-dressed leather, of animals (other than sheep and lambs, goats and kids, swine and reptiles), without wool or hair on, whether or not split, other than leather of heading 41.14	Biochemicals
H6	481160	Paper and paperboard; coated, impregnated or covered with wax, paraffin wax, stearin, oil or glycerol, other than goods of heading no. 4803, 4809, or 4810	Biochemicals
H6	8453	Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines	Biochemicals
H6	845310	Machinery; for preparing, tanning or working hides, skins or leather, other than sewing machines	Biochemicals
H6	845390	Machinery; parts of those for preparing, tanning or working hides, skins or leather, for making or repairing footwear or other articles of hides, skin or leather, other than sewing machines	Biochemicals
H6	120721	Oil seeds; cotton seeds, seed, whether or not broken	Bio-based Textiles
H6	120729	Oil seeds; cotton seeds, other than seed, whether or not broken	Bio-based Textiles
H6	140420	Vegetable products; cotton linters	Bio-based Textiles
H6	1512	Sun-flower seed, safflower or cotton-seed oil and their fractions; whether or not refined, but not chemically modified	Bio-based Textiles
H6	151221	Vegetable oils; cotton-seed oil and its fractions; crude, whether or not gossypol has been removed, not chemically modified	Bio-based Textiles
H6	151229	Vegetable oils; cotton-seed oil and its fractions, other than crude, whether or not refined, but not chemically modified	Bio-based Textiles
H6	230610	Oil-cake and other solid residues; whether or not ground or in the form of pellets, resulting from the extraction of cotton seed oils	Bio-based Textiles
H6	470610	Pulp; cotton linters pulp	Bio-based Textiles
H6	470691	Pulp; of fibrous cellulosic material, other than of bamboo or fibres derived from recovered (waste and scrap) paper or paperboard or from cotton linters pulp, mechanical	Bio-based Textiles
H6	470692	Pulp; of fibrous cellulosic material, other than of bamboo or fibres derived from recovered (waste and scrap) paper or paperboard or from cotton linters pulp, chemical	Bio-based Textiles
H6	470693	Pulp; of fibrous cellulosic material, other than of bamboo or fibres derived from recovered (waste and scrap) paper or paperboard or from cotton linters pulp, obtained by a combination of mechanical and chemical processes	Bio-based Textiles
H6	52	Cotton	Bio-based Textiles
H6	5201	Cotton; not carded or combed	Bio-based Textiles
H6	520100	Cotton; not carded or combed	Bio-based Textiles
H6	5202	Cotton waste (including yarn waste and garnetted stock)	Bio-based Textiles
H6	520210	Cotton; yarn waste (including thread waste)	Bio-based Textiles
H6	520291	Cotton; garnetted stock waste	Bio-based Textiles
H6	520299	Cotton; waste other than garnetted stock and yarn (including thread) waste	Bio-based Textiles
H6	5203	Cotton, carded or combed	Bio-based Textiles
H6	520300	Cotton; carded or combed	Bio-based Textiles
H6	5204	Cotton sewing thread, whether or not put up for retail sale	Bio-based Textiles
H6	520411	Cotton; sewing thread, containing 85% or more by weight of cotton, not put up for retail sale	Bio-based Textiles
H6	520419	Cotton; sewing thread, containing less than 85% by weight of cotton, not put up for retail sale	Bio-based Textiles
H6	520420	Cotton; sewing thread, put up for retail sale	Bio-based Textiles
H6	5205	Cotton yarn (other than sewing thread), containing 85% or more by weight of cotton, not put up for retail sale	Bio-based Textiles

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Classification	Code	Description	Category
H6	520634	Cotton yarn; (not sewing thread), multiple or cabled, of uncombed fibres, less than 85% by weight of cotton, 192.30 to 125 decitex (53 to 80 metric number) per single yarn, not for retail sale	Bio-based Textiles
H6	520635	Cotton yarn; (not sewing thread), multiple or cabled, of uncombed fibres, less than 85% by weight of cotton, less than 125 decitex (exceeding 80 metric number) per single yarn, not for retail sale	Bio-based Textiles
H6	520641	Cotton yarn; (not sewing thread), multiple or cabled, of combed fibres, less than 85% by weight of cotton, 714.29 decitex or more (not exceeding 14 metric number) per single yarn, not for retail sale	Bio-based Textiles
H6	520642	Cotton yarn; (not sewing thread), multiple or cabled, of combed fibres, less than 85% by weight of cotton, 714.28 to 232.56 decitex (15 to 43 metric number) per single yarn, not for retail sale	Bio-based Textiles
H6	520643	Cotton yarn; (not sewing thread), multiple or cabled, of combed fibres, less than 85% by weight of cotton, 232.55 to 192.31 decitex (44 to 52 metric number) per single yarn, not for retail sale	Bio-based Textiles
H6	520644	Cotton yarn; (not sewing thread), multiple or cabled, of combed fibres, less than 85% by weight of cotton, 192.30 to 125 decitex (53 to 80 metric number) per single yarn, not for retail sale	Bio-based Textiles
H6	520645	Cotton yarn; (not sewing thread), multiple or cabled, of combed fibres, less than 85% by weight of cotton, less than 125 decitex (exceeding 80 metric number) per single yarn, not for retail sale	Bio-based Textiles
H6	5207	Cotton yarn (other than sewing thread), put up for retail sale	Bio-based Textiles
H6	520710	Cotton yarn; (not sewing thread), containing 85% or more by weight of cotton, put up for retail sale	Bio-based Textiles
H6	520790	Cotton yarn; (not sewing thread), containing less than 85% by weight of cotton, put up for retail sale	Bio-based Textiles
H6	5208	Woven fabrics of cotton, containing 85% or more by weight of cotton, weighing not more than 200 g/m ²	Bio-based Textiles
H6	520811	Fabrics, woven; containing 85% or more by weight of cotton, unbleached, plain weave, weighing not more than 100g/m ²	Bio-based Textiles
H6	520812	Fabrics, woven; containing 85% or more by weight of cotton, unbleached, plain weave, weighing more than 100g/m ² but not more than 200g/m ²	Bio-based Textiles
H6	520813	Fabrics, woven; containing 85% or more by weight of cotton, unbleached, 3-thread or 4-thread twill, including cross twill, weighing not more than 200g/m ²	Bio-based Textiles
H6	520819	Fabrics, woven; containing 85% or more by weight of cotton, unbleached, of weaves n.e.c. in item no. 5208.1, weighing not more than 200g/m ²	Bio-based Textiles
H6	520821	Fabrics, woven; containing 85% or more by weight of cotton, bleached, plain weave, weighing not more than 100g/m ²	Bio-based Textiles
H6	520822	Fabrics, woven; containing 85% or more by weight of cotton, bleached, plain weave, weighing more than 100g/m ² but not more than 200g/m ²	Bio-based Textiles
H6	520823	Fabrics, woven; containing 85% or more by weight of cotton, bleached, 3-thread or 4-thread twill, including cross twill, weighing not more than 200g/m ²	Bio-based Textiles
H6	520829	Fabrics, woven; containing 85% or more by weight of cotton, bleached, of weaves n.e.c. in item no. 5208.2, weighing not more than 200g/m ²	Bio-based Textiles
H6	520831	Fabrics, woven; containing 85% or more by weight of cotton, dyed, plain weave, weighing not more than 100g/m ²	Bio-based Textiles
H6	520832	Fabrics, woven; containing 85% or more by weight of cotton, dyed, plain weave, weighing more than 100g/m ² but not more than 200g/m ²	Bio-based Textiles
H6	520833	Fabrics, woven; containing 85% or more by weight of cotton, dyed, 3-thread or 4-thread twill, including cross twill, weighing not more than 200g/m ²	Bio-based Textiles
H6	520839	Fabrics, woven; containing 85% or more by weight of cotton, dyed, of weaves n.e.c. in item no. 5208.3 weighing not more than 200g/m ²	Bio-based Textiles
H6	520841	Fabrics, woven; containing 85% or more by weight of cotton, of yarns of different colours, plain weave, weighing not more than 100g/m ²	Bio-based Textiles
H6	520842	Fabrics, woven; containing 85% or more by weight of cotton, of yarns of different colours, weighing more than 100g/m ² but not more than 200g/m ²	Bio-based Textiles
H6	520843	Fabrics, woven; containing 85% or more by weight of cotton, of yarns of different colours, 3-thread or 4-thread twill, including cross twill, weighing not more than 200g/m ²	Bio-based Textiles
H6	520849	Fabrics, woven; containing 85% or more by weight of cotton, of yarns of different colours, of weaves n.e.c. in item no. 5208.4, weighing not more than 200g/m ²	Bio-based Textiles
H6	520851	Fabrics, woven; containing 85% or more by weight of cotton, printed, plain weave, weighing not more than 100g/m ²	Bio-based Textiles
H6	520852	Fabrics, woven; containing 85% or more by weight of cotton, printed, plain weave, weighing more than 100g/m ² but not more than 200g/m ²	Bio-based Textiles
H6	520859	Fabrics, woven; containing 85% or more by weight of cotton, printed, of weaves n.e.c. in item no. 5208.5, weighing not more than 200g/m ²	Bio-based Textiles
H6	5209	Woven fabrics of cotton, containing 85% or more by weight of cotton, weighing more than 200g/m ²	Bio-based Textiles
H6	520911	Fabrics, woven; containing 85% or more by weight of cotton, unbleached, plain weave, weighing more than 200g/m ²	Bio-based Textiles
H6	520912	Fabrics, woven; containing 85% or more by weight of cotton, unbleached, 3-thread or 4-thread twill, including cross twill, weighing more than 200g/m ²	Bio-based Textiles
H6	520919	Fabrics, woven; containing 85% or more by weight of cotton, unbleached, of weaves n.e.c. in item no. 5209.1, weighing more than 200g/m ²	Bio-based Textiles
H6	520921	Fabrics, woven; containing 85% or more by weight of cotton, bleached, plain weave, weighing more than 200g/m ²	Bio-based Textiles
H6	520922	Fabrics, woven; containing 85% or more by weight of cotton, bleached, 3-thread or 4-thread twill, including cross twill, weighing more than 200g/m ²	Bio-based Textiles
H6	520929	Fabrics, woven; containing 85% or more by weight of cotton, bleached, of weaves n.e.c. in item no. 5209.2, weighing more than 200g/m ²	Bio-based Textiles
H6	520931	Fabrics, woven; containing 85% or more by weight of cotton, dyed, plain weave, weighing more than 200g/m ²	Bio-based Textiles
H6	520932	Fabrics, woven; containing 85% or more by weight of cotton, dyed, 3-thread or 4-thread twill, including cross twill, weighing more than 200g/m ²	Bio-based Textiles
H6	520939	Fabrics, woven; containing 85% or more by weight of cotton, dyed, of weaves n.e.c. in item no. 5209.3, weighing more than 200g/m ²	Bio-based Textiles
H6	520941	Fabrics, woven; containing 85% or more by weight of cotton, of yarns of different colours, plain weave, weighing more than 200g/m ²	Bio-based Textiles
H6	520942	Fabrics, woven; containing 85% or more by weight of cotton, of yarns of different colours, weighing more than 200g/m ² , denim	Bio-based Textiles
H6	520943	Fabrics, woven; containing 85% or more by weight of cotton, of yarns of different colours, 3-thread or 4-thread twill, including cross twill, weighing more than 200g/m ²	Bio-based Textiles
H6	520949	Fabrics, woven; containing 85% or more by weight of cotton, of yarns of different colours, of weaves n.e.c. in item no. 5209.4, weighing more than 200g/m ²	Bio-based Textiles

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Classification	Code	Description	Category
H6	520951	Fabrics, woven; containing 85% or more by weight of cotton, printed, plain weave, weighing more than 200g/m ²	Bio-based Textiles
H6	520952	Fabrics, woven; containing 85% or more by weight of cotton, printed, 3-thread or 4-thread twill, including cross twill, weighing more than 200g/m ²	Bio-based Textiles
H6	520959	Fabrics, woven; containing 85% or more by weight of cotton, printed, of weaves n.e.c. in item no. 5209.5, weighing more than 200g/m ²	Bio-based Textiles
H6	5210	Woven fabrics of cotton, containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing not more than 200 g/m ²	Bio-based Textiles
H6	521011	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, unbleached, plain weave, weighing 200g/m ² or less	Bio-based Textiles
H6	521019	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, unbleached, of weaves n.e.c. in item no. 5210.1, weighing 200g/m ² or less	Bio-based Textiles
H6	521021	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, bleached, plain weave, weighing 200g/m ² or less	Bio-based Textiles
H6	521029	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing 200g/m ² or less, bleached, of weaves n.e.c. in item no. 5210.2	Bio-based Textiles
H6	521031	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing 200g/m ² or less, dyed, plain weave	Bio-based Textiles
H6	521032	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing 200g/m ² or less, dyed, 3-thread or 4-thread twill, including cross twill	Bio-based Textiles
H6	521039	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing 200g/m ² or less, dyed, of weaves n.e.c. in item no. 5210.3	Bio-based Textiles
H6	521041	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing 200g/m ² or less, of yarns of different colours, plain weave	Bio-based Textiles
H6	521049	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing 200g/m ² or less, of yarns of different colours, of weaves n.e.c. in item no. 5210.4	Bio-based Textiles
H6	521051	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing 200g/m ² or less, printed, plain weave	Bio-based Textiles
H6	521059	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing 200g/m ² or less, printed, of weaves n.e.c. in item no. 5210.5	Bio-based Textiles
H6	5211	Woven fabrics of cotton, containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ²	Bio-based Textiles
H6	521111	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, unbleached, plain weave, weighing more than 200g/m ²	Bio-based Textiles
H6	521112	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, unbleached, 3- or 4-thread twill, including cross twill, weighing more than 200g/m ²	Bio-based Textiles
H6	521119	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, unbleached, of weaves n.e.c. in item no. 5211.1, weighing more than 200g/m ²	Bio-based Textiles
H6	521120	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , bleached	Bio-based Textiles
H6	521131	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , dyed, plain weave	Bio-based Textiles
H6	521132	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , dyed, 3-thread or 4-thread twill, including cross twill	Bio-based Textiles
H6	521139	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , dyed, of weaves n.e.c. in item no. 5211.3	Bio-based Textiles
H6	521141	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , of yarns of different colours, plain weave	Bio-based Textiles
H6	521142	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , of yarns of different colours, denim	Bio-based Textiles
H6	521143	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , of yarns of different colours, 3-thread or 4-thread twill, including cross twill	Bio-based Textiles
H6	521149	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , of yarns of different colours, of weaves n.e.c. in item no. 5211.4	Bio-based Textiles
H6	521151	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , printed, plain weave	Bio-based Textiles
H6	521152	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , printed, 3-thread or 4-thread twill, including cross twill	Bio-based Textiles
H6	521159	Fabrics, woven; containing less than 85% by weight of cotton, mixed mainly or solely with man-made fibres, weighing more than 200g/m ² , printed, of weaves n.e.c. in item no. 5211.5	Bio-based Textiles
H6	5212	Other woven fabrics of cotton, n.e.c. in chapter 52	Bio-based Textiles
H6	521211	Fabrics, woven; of cotton, unbleached, weighing not more than 200g/m ² , n.e.c. in chapter 52	Bio-based Textiles
H6	521212	Fabrics, woven; of cotton, bleached, weighing not more than 200g/m ² , n.e.c. in chapter 52	Bio-based Textiles
H6	521213	Fabrics, woven; of cotton, dyed, weighing not more than 200g/m ² , n.e.c. in chapter 52	Bio-based Textiles
H6	521214	Fabrics, woven; of cotton, of yarns of different colours, weighing not more than 200g/m ² , n.e.c. in chapter 52	Bio-based Textiles
H6	521215	Fabrics, woven; of cotton, printed, weighing not more than 200g/m ² , n.e.c. in chapter 52	Bio-based Textiles
H6	521221	Fabrics, woven; of cotton, unbleached, weighing more than 200g/m ² , n.e.c. in chapter 52	Bio-based Textiles
H6	521222	Fabrics, woven; of cotton, bleached, weighing more than 200g/m ² , n.e.c. in chapter 52	Bio-based Textiles
H6	521223	Fabrics, woven; of cotton, dyed, weighing more than 200g/m ² , n.e.c. in chapter 52	Bio-based Textiles
H6	521224	Fabrics, woven; of cotton, of yarns of different colours, weighing more than 200g/m ² , n.e.c. in chapter 52	Bio-based Textiles
H6	521225	Fabrics, woven; of cotton, printed, weighing more than 200g/m ² , n.e.c. in chapter 52	Bio-based Textiles
H6	5301	Flax, raw or processed but not spun; flax tow and waste (including yarn waste and garnetted stock)	Bio-based Textiles
H6	530110	Flax; raw or retted, but not spun	Bio-based Textiles
H6	530121	Flax; broken or scutched, but not spun	Bio-based Textiles
H6	530129	Flax; hackled or otherwise processed, but not spun	Bio-based Textiles
H6	530130	Flax; tow and waste, including yarn waste and garnetted stock	Bio-based Textiles

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Classification	Code	Description	Category
H6	5302	True hemp (<i>cannabis sativa</i> L.), raw or processed but not spun; tow and waste of true hemp (including yarn waste and garnetted stock)	Bio-based Textiles
H6	530210	Hemp (<i>cannabis sativa</i> L.); raw or retted, but not spun	Bio-based Textiles
H6	530290	Hemp (<i>cannabis sativa</i> L.); processed (other than retted) (but not spun), true hemp tow and waste (including yarn waste and garnetted stock)	Bio-based Textiles
H6	5303	Jute and other textile bast fibres (not flax, true hemp and ramie), raw or processed but not spun; tow and waste of these fibres, including yarn waste and garnetted stock	Bio-based Textiles
H6	530310	Jute and other textile bast fibres; raw or retted, but not spun, (excluding flax, hemp (<i>cannabis sativa</i> L.), and ramie)	Bio-based Textiles
H6	530390	Jute and other textile bast fibres; processed but not spun, tow and waste of these fibres, including yarn waste and garnetted stock (excluding flax, hemp (<i>cannabis sativa</i> L.), and ramie)	Bio-based Textiles
H6	5305	Coconut, abaca (<i>Manila hemp</i> or <i>Musa textilis</i> Nee), ramie and other vegetable textile fibres n.e.c., raw or processed but not spun; tow, noils and waste of these fibres (including yarn waste and garnetted stock)	Bio-based Textiles
H6	530500	Coconut, abaca (<i>Manila hemp</i> or <i>Musa textilis</i> Nee), ramie and other vegetable textile fibres n.e.c., raw or processed but not spun; tow, noils and waste of these fibres (including yarn waste and garnetted stock)	Bio-based Textiles
H6	5306	Flax yarn	Bio-based Textiles
H6	530610	Yarn; of flax, single	Bio-based Textiles
H6	530620	Yarn; of flax, multiple (folded) or cabled	Bio-based Textiles
H6	5307	Yarn of jute or of other textile bast fibres of heading no. 5305	Bio-based Textiles
H6	530710	Yarn; of jute or of other textile bast fibres, single	Bio-based Textiles
H6	530720	Yarn; of jute or of other textile bast fibres, multiple (folded) or cabled	Bio-based Textiles
H6	530810	Yarn; of coir	Bio-based Textiles
H6	530820	Yarn; of hemp (<i>cannabis sativa</i> L.)	Bio-based Textiles
H6	5309	Woven fabrics of flax	Bio-based Textiles
H6	530911	Fabrics, woven; of flax, containing 85% or more flax, unbleached or bleached	Bio-based Textiles
H6	530919	Fabrics, woven; of flax, containing 85% or more flax, other than bleached or unbleached	Bio-based Textiles
H6	530921	Fabrics, woven; of flax, containing less than 85% flax, unbleached or bleached	Bio-based Textiles
H6	530929	Fabrics, woven; of flax, containing less than 85% flax, other than unbleached or bleached	Bio-based Textiles
H6	5310	Woven fabrics of jute, other textile bast fibres of heading no. 5303	Bio-based Textiles
H6	531010	Fabrics, woven; of jute or of other textile bast fibres of heading no. 5303, unbleached	Bio-based Textiles
H6	531090	Fabrics, woven; of jute or of other textile bast fibres of heading no. 5303, other than unbleached	Bio-based Textiles
H6	540781	Fabrics, woven; of synthetic filament yarn, containing less than 85% by weight of synthetic filaments, mixed mainly or solely with cotton, bleached or unbleached	Bio-based Textiles
H6	540782	Fabrics, woven; of synthetic filament yarn, containing less than 85% by weight of synthetic filaments, mixed mainly or solely with cotton, dyed	Bio-based Textiles
H6	540783	Fabrics, woven; of synthetic filament yarn, containing less than 85% by weight of synthetic filaments, mixed mainly or solely with cotton, of yarns of different colours	Bio-based Textiles
H6	550953	Yarn; (not sewing thread), of polyester staple fibres, mixed mainly or solely with cotton, not put up for retail sale	Bio-based Textiles
H6	550962	Yarn; (not sewing thread), of acrylic or modacrylic staple fibres, mixed mainly or solely with cotton, not put up for retail sale	Bio-based Textiles
H6	550992	Yarn; (not sewing thread), of synthetic staple fibres, mixed mainly or solely with cotton, n.e.c. in heading no. 5509, not put up for retail sale	Bio-based Textiles
H6	550999	Yarn; (not sewing thread), of synthetic staple fibres, mixed mainly or solely with fibres (other than wool, fine animal hair or cotton), n.e.c. in heading no. 5509, not put up for retail sale	Bio-based Textiles
H6	551030	Yarn; (not sewing thread), of artificial staple fibres, mixed mainly or solely with cotton, not put up for retail sale	Bio-based Textiles
H6	551090	Yarn; (not sewing thread), of artificial staple fibres, mixed mainly or solely with fibres (other than wool, fine animal hair or cotton), not put up for retail sale	Bio-based Textiles
H6	5513	Woven fabrics of synthetic staple fibres, containing less than 85% by weight of such fibres, mixed mainly or solely with cotton, of a weight not exceeding 170g/m ²	Bio-based Textiles
H6	551311	Fabrics, woven; plain weave, of polyester staple fibres, containing less than 85% by weight of such fibres, mixed mainly or solely with cotton, of a weight not exceeding 170g/m ² , unbleached or bleached	Bio-based Textiles
H6	551312	Fabrics, woven; 3-thread or 4-thread twill, of polyester staple fibres, containing less than 85% by weight of such, mixed mainly or solely with cotton, not exceeding 170g/m ² , unbleached or bleached	Bio-based Textiles
H6	551313	Fabrics, woven; of polyester staple fibres, containing less than 85% by weight of such fibres, mixed mainly or solely with cotton, not exceeding 170g/m ² , unbleached or bleached	Bio-based Textiles
H6	551319	Fabrics, woven; containing less than 85% by weight of synthetic staple fibres (other than polyesters), mixed mainly or solely with cotton, not exceeding 170g/m ² , unbleached or bleached	Bio-based Textiles
H6	551321	Fabrics, woven; plain weave, dyed, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, not exceeding 170g/m ²	Bio-based Textiles
H6	551323	Fabrics, woven; dyed, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, not exceeding 170g/m ²	Bio-based Textiles
H6	551329	Fabrics, woven; dyed, containing less than 85% by weight of synthetic staple fibres (other than polyesters), mixed mainly or solely with cotton, not exceeding 170g/m ²	Bio-based Textiles
H6	551331	Fabrics, woven; plain weave, of yarns of different colours, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, not exceeding 170g/m ²	Bio-based Textiles
H6	551339	Fabrics, woven; of yarns of different colours, containing less than 85% of synthetic staple fibres (other than polyester, plain weave), mixed mainly or solely with cotton, not exceeding 170g/m ²	Bio-based Textiles
H6	551341	Fabrics, woven; plain weave, printed, of polyester staple fibres, containing less than 85% by weight of such fibres, mixed mainly or solely with cotton, not exceeding 170g/m ²	Bio-based Textiles
H6	551349	Fabrics, woven; printed, containing less than 85% by weight of synthetic staple fibres (other than polyester, plain weave), mixed mainly or solely with cotton, not exceeding 170g/m ²	Bio-based Textiles
H6	5514	Woven fabrics of synthetic staple fibres, containing less than 85% by weight of such fibres, mixed mainly or solely with cotton, of a weight exceeding 170g/m ²	Bio-based Textiles
H6	551411	Fabrics, woven; plain weave, unbleached or bleached, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, exceeding 170g/m ²	Bio-based Textiles
H6	551412	Fabrics, woven; 3- or 4-thread twill, including cross twill, unbleached or bleached, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, over 170g/m ²	Bio-based Textiles

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Classification	Code	Description	Category
H6	551419	Fabrics, woven; unbleached or bleached, containing less than 85% by weight of synthetic staple fibres n.e.c. in item no. 55.14.1, mixed mainly or solely with cotton, exceeding 170g/m ²	Bio-based Textiles
H6	551421	Fabrics, woven; plain weave, dyed, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, exceeding 170g/m ²	Bio-based Textiles
H6	551422	Fabrics, woven; 3- or 4-thread twill, including cross twill, dyed, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, exceeding 170g/m ²	Bio-based Textiles
H6	551423	Fabrics, woven; dyed, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, exceeding 170g/m ² , n.e.c. in heading no. 5514	Bio-based Textiles
H6	551429	Fabrics, woven; dyed, containing less than 85% by weight of synthetic staple fibres (other than polyesters), mixed mainly or solely with cotton, exceeding 170g/m ²	Bio-based Textiles
H6	551430	Fabrics, woven; of yarns of different colours, containing less than 85% by weight of synthetic staple fibres, mixed mainly or solely with cotton, exceeding 170g/m ²	Bio-based Textiles
H6	551441	Fabrics, woven; plain weave, printed, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, exceeding 170g/m ²	Bio-based Textiles
H6	551442	Fabrics, woven; 3- or 4-thread twill, including cross twill, printed, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, exceeding 170g/m ²	Bio-based Textiles
H6	551443	Fabrics, woven; printed, containing less than 85% by weight of polyester staple fibres, mixed mainly or solely with cotton, weight exceeding 170g/m ² , n.e.c. in heading no. 5514	Bio-based Textiles
H6	551449	Fabrics, woven; printed, containing less than 85% by weight of synthetic staple fibres (other than polyesters), mixed mainly or solely with cotton, exceeding 170g/m ²	Bio-based Textiles
H6	551641	Fabrics, woven; unbleached or bleached, containing less than 85% by weight of artificial staple fibres, mixed mainly or solely with cotton	Bio-based Textiles
H6	551642	Fabrics, woven; dyed, containing less than 85% by weight of artificial staple fibres, mixed mainly or solely with cotton	Bio-based Textiles
H6	551643	Fabrics, woven; of yarns of different colours, containing less than 85% by weight of artificial staple fibres, mixed mainly or solely with cotton	Bio-based Textiles
H6	551644	Fabrics, woven; printed, containing less than 85% by weight of artificial staple fibres, mixed mainly or solely with cotton	Bio-based Textiles
H6	560121	Wadding; other articles thereof, of cotton	Bio-based Textiles
H6	560129	Wadding; other articles thereof, other than of cotton or man-made fibres	Bio-based Textiles
H6	570220	Carpets and other textile floor coverings; woven, (not tufted or flopped), whether or not made up, of coconut fibres (coir)	Bio-based Textiles
H6	580121	Fabrics; woven pile, of cotton, uncut weft pile fabrics, other than fabrics of heading no. 5802 or 5806	Bio-based Textiles
H6	580122	Fabrics; woven pile, of cotton, cut corduroy, other than fabrics of heading no. 5802 or 5806	Bio-based Textiles
H6	580123	Fabrics; woven pile, of cotton, weft pile fabrics other than uncut and corduroy, other than fabrics of heading no. 5802 or 5806	Bio-based Textiles
H6	580126	Fabrics; chenille, of cotton, other than fabrics of heading no. 5802 or 5806	Bio-based Textiles
H6	580127	Fabrics; woven pile, of cotton, warp pile fabrics, other than fabrics of heading no. 5802 or 5806	Bio-based Textiles
H6	580210	Fabrics; terry towelling and similar woven terry fabrics, of cotton, whether bleached or unbleached, excluding narrow fabrics of heading no. 5806	Bio-based Textiles
H6	580220	Fabrics; terry towelling and similar woven terry fabrics, of textile materials, excluding cotton, excluding narrow fabrics of heading no. 5806	Bio-based Textiles
H6	580631	Fabrics; narrow woven fabrics, n.e.c. in heading no. 5806, of cotton (excluding goods of heading no. 5807)	Bio-based Textiles
H6	581091	Embroidery; with visible ground, of cotton, in the piece, in strips or in motifs	Bio-based Textiles
H6	581099	Embroidery; with visible ground, of textile materials (other than cotton and man-made fibres), in the piece, in strips or in motifs	Bio-based Textiles
H6	600121	Fabrics; looped pile fabrics, of cotton, knitted or crocheted	Bio-based Textiles
H6	600129	Fabrics; looped pile fabrics, of textile materials (other than cotton or man-made fibres), knitted or crocheted	Bio-based Textiles
H6	600191	Fabrics; pile fabrics (excluding long pile and loop pile), of cotton, knitted or crocheted	Bio-based Textiles
H6	600199	Fabrics; pile fabrics (excluding long pile and loop pile), of textile materials (other than cotton or man-made fibres), knitted or crocheted	Bio-based Textiles
H6	600320	Fabrics; knitted or crocheted fabrics, other than those of heading 60.01 and 60.02, of a width not exceeding 30 cm, of cotton	Bio-based Textiles
H6	600390	Fabrics; knitted or crocheted fabrics, other than those of heading 60.01 and 60.02, of a width not exceeding 30 cm, other than of wool and fine animal hair, cotton, synthetic or artificial fibres	Bio-based Textiles
H6	600521	Fabrics; warp knit (including those made on galloon knitting machines), other than those of headings 60.01 to 60.04, of cotton, unbleached or bleached	Bio-based Textiles
H6	600522	Fabrics; warp knit (including those made on galloon knitting machines), other than those of headings 60.01 to 60.04, of cotton, dyed	Bio-based Textiles
H6	600523	Fabrics; warp knit (including those made on galloon knitting machines), other than those of headings 60.01 to 60.04, of cotton, yarns of different colours	Bio-based Textiles
H6	600524	Fabrics; warp knit (including those made on galloon knitting machines), other than those of headings 60.01 to 60.04, of cotton, printed	Bio-based Textiles
H6	600590	Fabrics; warp knit (including those made on galloon knitting machines), other than those of headings 60.01 to 60.04, excluding those made from cotton or synthetic or artificial fibres	Bio-based Textiles
H6	600621	Fabrics; knitted or crocheted fabrics, other than those of headings 60.01 to 60.04, of cotton, unbleached or bleached	Bio-based Textiles
H6	600622	Fabrics; knitted or crocheted fabrics, other than those of headings 60.01 to 60.04, of cotton, dyed	Bio-based Textiles
H6	600623	Fabrics; knitted or crocheted fabrics, other than those of headings 60.01 to 60.04, of cotton, of yarns of different colours	Bio-based Textiles
H6	600624	Fabrics; knitted or crocheted fabrics, other than those of headings 60.01 to 60.04, of cotton, printed	Bio-based Textiles
H6	600690	Fabrics; knitted or crocheted fabrics, other than those of headings 60.01 to 60.04, and other than those made of wool, fine animal hair, cotton, synthetic or artificial fibres	Bio-based Textiles
H6	610120	Coats; men's or boys' overcoats, car-coats, capes, anoraks, wind-jackets and similar articles, of cotton, knitted or crocheted (excluding those of heading no. 6103)	Bio-based Textiles
H6	610220	Coats; women's or girls' overcoats, car-coats, capes, anoraks, wind-jackets and similar articles, of cotton, knitted or crocheted (excluding those of heading no. 6104)	Bio-based Textiles
H6	610322	Ensembles; men's or boys', of cotton, knitted or crocheted	Bio-based Textiles
H6	610329	Ensembles; men's or boys', of textile materials (other than cotton or synthetic fibres), knitted or crocheted	Bio-based Textiles
H6	610332	Jackets and blazers; men's or boys', of cotton, knitted or crocheted	Bio-based Textiles
H6	610339	Jackets and blazers; men's or boys', of textile materials (other than wool or fine animal hair, cotton or synthetic fibres), knitted or crocheted	Bio-based Textiles

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Classification	Code	Description	Category
H6	610342	Trousers, bib and brace overalls, breeches and shorts; men's or boys', of cotton, knitted or crocheted	Bio-based Textiles
H6	610349	Trousers, bib and brace overalls, breeches and shorts; men's or boys', of textile materials (other than wool or fine animal hair, cotton or synthetic fibres), knitted or crocheted	Bio-based Textiles
H6	610422	Ensembles; women's or girls', of cotton, knitted or crocheted	Bio-based Textiles
H6	610429	Ensembles; women's or girls', of textile materials (other than cotton or synthetic fibres), knitted or crocheted	Bio-based Textiles
H6	610432	Jackets; women's or girls', of cotton, knitted or crocheted	Bio-based Textiles
H6	610439	Jackets; women's or girls', of textile materials (other than wool or fine animal hair, cotton or synthetic fibres), knitted or crocheted	Bio-based Textiles
H6	610442	Dresses; women's or girls', of cotton, knitted or crocheted	Bio-based Textiles
H6	610449	Dresses; women's or girls', of textile materials (other than wool or fine animal hair, cotton, synthetic or artificial fibres), knitted or crocheted	Bio-based Textiles
H6	610452	Skirts and divided skirts; women's or girls', of cotton, knitted or crocheted	Bio-based Textiles
H6	610459	Skirts and divided skirts; women's or girls', of textile materials (other than wool or fine animal hair, cotton or synthetic fibres), knitted or crocheted	Bio-based Textiles
H6	610462	Trousers, bib and brace overalls, breeches and shorts; women's or girls', of cotton, knitted or crocheted	Bio-based Textiles
H6	610469	Trousers, bib and brace overalls, breeches and shorts; women's or girls', of textile materials (other than wool or fine animal hair, cotton or synthetic fibres), knitted or crocheted	Bio-based Textiles
H6	610510	Shirts; men's or boys', of cotton, knitted or crocheted	Bio-based Textiles
H6	610590	Shirts; men's or boys', of textile materials (other than cotton or man-made fibres), knitted or crocheted	Bio-based Textiles
H6	610610	Blouses, shirts and shirt-blouses; women's or girls', of cotton, knitted or crocheted	Bio-based Textiles
H6	610690	Blouses, shirts and shirt-blouses; women's or girls', of textile materials (other than cotton or man-made fibres), knitted or crocheted	Bio-based Textiles
H6	610711	Underpants and briefs; men's or boys', of cotton, knitted or crocheted	Bio-based Textiles
H6	610719	Underpants and briefs; men's or boys', of textile materials (other than cotton or man-made fibres), knitted or crocheted	Bio-based Textiles
H6	610721	Nightshirts and pyjamas; men's or boys', of cotton, knitted or crocheted	Bio-based Textiles
H6	610729	Nightshirts and pyjamas; men's or boys', of textile materials (other than cotton or man-made fibres), knitted or crocheted	Bio-based Textiles
H6	610791	Bathrobes, dressing gowns and similar articles; men's or boys', of cotton, knitted or crocheted	Bio-based Textiles
H6	610799	Bathrobes, dressing gowns and similar articles; men's or boys', of textile materials (other than cotton), knitted or crocheted	Bio-based Textiles
H6	610821	Briefs and panties; women's or girls', of cotton, knitted or crocheted	Bio-based Textiles
H6	610829	Briefs and panties; women's or girls', of textile materials (other than cotton or man-made fibres), knitted or crocheted	Bio-based Textiles
H6	610831	Nightdresses and pyjamas; women's or girls', of cotton, knitted or crocheted	Bio-based Textiles
H6	610839	Nightdresses and pyjamas; women's or girls', of textile materials (other than cotton or man-made fibres), knitted or crocheted	Bio-based Textiles
H6	610891	Negligees, bathrobes, dressing gowns and similar articles; women's or girls', of cotton, knitted or crocheted	Bio-based Textiles
H6	610899	Negligees, bathrobes, dressing gowns and similar articles; women's or girls', of textile materials (other than cotton or man-made fibres), knitted or crocheted	Bio-based Textiles
H6	610910	T-shirts, singlets and other vests; of cotton, knitted or crocheted	Bio-based Textiles
H6	610990	T-shirts, singlets and other vests; of textile materials (other than cotton), knitted or crocheted	Bio-based Textiles
H6	611020	Jerseys, pullovers, cardigans, waistcoats and similar articles; of cotton, knitted or crocheted	Bio-based Textiles
H6	611090	Jerseys, pullovers, cardigans, waistcoats and similar articles; of textile materials (other than wool or fine animal hair, cotton or man-made fibres), knitted or crocheted	Bio-based Textiles
H6	611120	Garments and clothing accessories; babies', of cotton, knitted or crocheted	Bio-based Textiles
H6	611190	Garments and clothing accessories; babies', of textile materials (other than cotton or synthetic fibres), knitted or crocheted	Bio-based Textiles
H6	611211	Track suits; of cotton, knitted or crocheted	Bio-based Textiles
H6	611219	Track suits; of textile materials (other than cotton or synthetic fibres), knitted or crocheted	Bio-based Textiles
H6	611420	Garments; of cotton, knitted or crocheted, n.e.c. in chapter 61	Bio-based Textiles
H6	611490	Garments; of textile materials (other than cotton or man-made fibres), knitted or crocheted, n.e.c. in chapter 61	Bio-based Textiles
H6	611595	Hosiery and footwear; without applied soles, of cotton, knitted or crocheted (excluding graduated compression hosiery, panty hose, tights, full or knee-length hosiery measuring per single yarn less than 67 decitex)	Bio-based Textiles
H6	611692	Gloves, mittens and mitts; of cotton, knitted or crocheted, (other than impregnated, coated, covered or laminated with plastics or rubber)	Bio-based Textiles
H6	611699	Gloves, mittens and mitts; of textile materials (other than wool or fine animal hair, cotton or synthetic fibres), knitted or crocheted, (other than impregnated, coated, covered or laminated with plastics or rubber)	Bio-based Textiles
H6	620130	Coats; men's or boys', overcoats, raincoats, car-coats, capes, cloaks, anoraks (including ski-jackets) and similar articles, of cotton, other than those of heading no. 6203 (not knitted or crocheted)	Bio-based Textiles
H6	620190	Coats; men's or boys', overcoats, rain-coats, car-coats, capes, cloaks and similar, of textile materials (other than wool, fine animal hair, cotton or man-made fibres), other than those of heading no. 6203 (not knitted or crocheted)	Bio-based Textiles
H6	620230	Coats; women's or girls', overcoats, raincoats, car-coats, capes, cloaks anoraks (including ski-jackets) and similar articles, of cotton, other than those of heading no. 6204 (not knitted or crocheted)	Bio-based Textiles
H6	620290	Coats; women's or girls', overcoats, raincoats, car-coats, capes, cloaks and similar articles, of textile materials (other than wool, fine animal hair, cotton or man-made fibres), other than those of heading no. 6204 (not knitted or crocheted)	Bio-based Textiles
H6	620322	Ensembles; men's or boys', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620332	Jackets and blazers; men's or boys', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620342	Trousers, bib and brace overalls, breeches and shorts; men's or boys', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620349	Trousers, bib and brace overalls, breeches and shorts; men's or boys', of textile materials (other than wool, fine animal hair, cotton or synthetic fibres), (not knitted or crocheted)	Bio-based Textiles
H6	620412	Suits; women's or girls', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620422	Ensembles; women's or girls', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620432	Jackets and blazers; women's or girls', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620442	Dresses; women's or girls', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620452	Skirts and divided skirts; women's or girls', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620462	Trousers, bib and brace overalls, breeches and shorts; women's or girls', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620469	Trousers, bib and brace overalls, breeches and shorts; women's or girls', of textile materials (other than wool, fine animal hair, cotton or synthetic fibres), (not knitted or crocheted)	Bio-based Textiles
H6	620520	Shirts; men's or boys', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620630	Blouses, shirts and shirt-blouses; women's or girls', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620711	Underpants and briefs; men's or boys', of cotton (not knitted or crocheted)	Bio-based Textiles

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Classification	Code	Description	Category
H6	620719	Underpants and briefs; men's or boys', of textile materials other than cotton (not knitted or crocheted)	Bio-based Textiles
H6	620721	Nightshirts and pyjamas; men's or boys', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620729	Nightshirts and pyjamas; men's or boys', of textile materials other than cotton or man-made fibres (not knitted or crocheted)	Bio-based Textiles
H6	620791	Singlets and other vests, bathrobes, dressing gowns and similar articles; men's or boys', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620799	Singlets and other vests, bathrobes, dressing gowns and similar articles; men's or boys', of textile materials other than cotton (not knitted or crocheted)	Bio-based Textiles
H6	620821	Nightdresses and pyjamas; women's or girls', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620829	Nightdresses and pyjamas; women's or girls', of textile materials other than cotton or man-made fibres (not knitted or crocheted)	Bio-based Textiles
H6	620891	Singlets and other vests, briefs, panties, negligees, bathrobes, dressing gowns and similar articles; women's or girls', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620899	Singlets and other vests, briefs, panties, negligees, bathrobes, dressing gowns and similar articles; women's or girls', of textile materials other than cotton or man-made fibres (not knitted or crocheted)	Bio-based Textiles
H6	620920	Garments and clothing accessories; babies', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	620990	Garments and clothing accessories; babies', of textile materials other than cotton or synthetic fibres (not knitted or crocheted)	Bio-based Textiles
H6	621132	Track suits and other garments n.e.c.; men's or boys', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	621142	Track suits and other garments n.e.c.; women's or girls', of cotton (not knitted or crocheted)	Bio-based Textiles
H6	621320	Handkerchiefs; of cotton (not knitted or crocheted)	Bio-based Textiles
H6	621390	Handkerchiefs; of textile materials other than cotton (not knitted or crocheted)	Bio-based Textiles
H6	630130	Blankets (other than electric blankets) and travelling rugs; of cotton	Bio-based Textiles
H6	630221	Bed linen; of cotton, printed, not knitted or crocheted	Bio-based Textiles
H6	630229	Bed linen; of textile materials (other than cotton or man-made fibres), printed, not knitted or crocheted	Bio-based Textiles
H6	630231	Bed linen; of cotton (not printed, knitted or crocheted)	Bio-based Textiles
H6	630239	Bed linen; of textile materials other than cotton or man-made fibres (not printed, knitted or crocheted)	Bio-based Textiles
H6	630251	Table linen; of cotton, not knitted or crocheted	Bio-based Textiles
H6	630259	Table linen; of textile materials (other than cotton or man-made fibres), not knitted or crocheted	Bio-based Textiles
H6	630260	Kitchen and toilet linen; of terry towelling or similar terry fabrics, of cotton	Bio-based Textiles
H6	630291	Toilet and kitchen linen; of cotton, excluding terry towelling or similar terry fabrics	Bio-based Textiles
H6	630299	Toilet and kitchen linen; of textile materials (other than cotton or man-made fibres)	Bio-based Textiles
H6	630391	Curtains (including drapes) and interior blinds, curtain or bed valances; of cotton, not knitted or crocheted	Bio-based Textiles
H6	630399	Curtains (including drapes) and interior blinds, curtain or bed valances; of textile materials other than cotton or synthetic fibres, not knitted or crocheted	Bio-based Textiles
H6	630492	Furnishing articles; of cotton, not knitted or crocheted (excluding bedspreads and articles of heading no. 9404)	Bio-based Textiles
H6	630499	Furnishing articles; of textile materials other than cotton or synthetic fibres, not knitted or crocheted (excluding bedspreads and articles of heading no. 9404)	Bio-based Textiles
H6	630510	Sacks and bags; of a kind used for the packing of goods, of jute or of other textile bast fibres of heading no. 5303	Bio-based Textiles
H6	630520	Sacks and bags; of a kind used for the packing of goods, of cotton	Bio-based Textiles
H6	630590	Sacks and bags; of a kind used for the packing of goods, of textile materials (other than jute, cotton or man-made textile materials)	Bio-based Textiles
H6	3005	Wadding, gauze, bandages (dressings, adhesive plasters, poultices), impregnated or coated with pharmaceutical substances or in forms or packings for retail sale, for medical, surgical or veterinary use	Bio-based Adhesives & Binders
H6	300510	Dressings, adhesive; and other articles having an adhesive layer, packed for retail sale for medical, surgical, dental or veterinary purposes	Bio-based Adhesives & Binders
H6	300590	Wadding, gauze, bandages and similar articles; (excluding adhesive dressings), impregnated or coated with pharmaceutical substances, packaged for retail sale	Bio-based Adhesives & Binders
H6	300610	Pharmaceutical goods; sterile surgical catgut, suture materials, tissue adhesives, laminaria, laminaria tents, absorbable surgical or dental haemostatics, and surgical or dental adhesion barriers	Bio-based Adhesives & Binders
H6	3501	Casein, caseinates and other casein derivatives; casein glues	Bio-based Adhesives & Binders
H6	350110	Casein	Bio-based Adhesives & Binders
H6	350190	Caseinates and other casein derivatives; casein glues	Bio-based Adhesives & Binders
H6	3503	Gelatin (including gelatin in rectangular sheets, whether or not surface-worked or coloured) and gelatin derivatives; isinglass; other glues of animal origin, excluding casein glues of heading no. 3501	Bio-based Adhesives & Binders
H6	350300	Gelatin (including gelatin in rectangular sheets, whether or not surface-worked or coloured) and gelatin derivatives; isinglass; other glues of animal origin, excluding casein glues of heading no. 3501	Bio-based Adhesives & Binders
H6	3505	Dextrins and other modified starches (e.g. pregelatinised or esterified starches); glues based on starches or on dextrins or other modified starches	Bio-based Adhesives & Binders
H6	350510	Dextrins and other modified starches	Bio-based Adhesives & Binders
H6	350520	Glues; based on starches, or on dextrins or other modified starches	Bio-based Adhesives & Binders
H6	3506	Prepared glues and other prepared adhesives, n.e.c. or included; products suitable for use as glues or adhesives, put up for retail sale as glues or adhesives, not exceeding 1kg net weight	Bio-based Adhesives & Binders
H6	350610	Glues or adhesives; prepared, products suitable for use as glues or adhesives, put up for retail sale as glues or adhesives, not exceeding a net weight of 1kg	Bio-based Adhesives & Binders
H6	350691	Adhesives; prepared, based on polymers of heading 3901 to 3913 or on rubber	Bio-based Adhesives & Binders
H6	350699	Glues and other adhesives; prepared, n.e.c. in heading no. 3506, not exceeding a net weight of 1kg	Bio-based Adhesives & Binders
H6	3707	Chemical preparations for photographic uses (other than varnishes, glues, adhesives and similar preparations); unmixed products for photographic uses, put up in measured portions or for retail sale	Bio-based Adhesives & Binders
H6	3824	Prepared binders for foundry moulds or cores; chemical products and preparations of the chemical or allied industries (including those consisting of mixtures of natural products), not elsewhere specified or included	Bio-based Adhesives & Binders

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Classification	Code	Description	Category
H6	382410	Binders, prepared; for foundry moulds or cores	Bio-based Adhesives & Binders
H6	382430	Metal carbides, non-agglomerated; mixed together or with metallic binders	Bio-based Adhesives & Binders
H6	3918	Floor coverings of plastics, self-adhesive or not, in rolls or tiles; wall or ceiling coverings of plastics, in rolls of a width not less than 45cm	Bio-based Adhesives & Binders
H6	391810	Floor, wall or ceiling coverings; of polymers of vinyl chloride, whether or not self-adhesive, in rolls or in the form of tiles	Bio-based Adhesives & Binders
H6	391890	Floor, wall or ceiling coverings; of plastics (excluding polymers of vinyl chloride), whether or not self-adhesive, in rolls or in the form of tiles	Bio-based Adhesives & Binders
H6	3919	Self-adhesive plates, sheets, film, foil, tape, strip and other flat shapes, of plastics, whether or not in rolls	Bio-based Adhesives & Binders
H6	391910	Plastics; plates, sheets, film, foil, tape, strip, other flat shapes thereof, self-adhesive, in rolls of a width not exceeding 20cm	Bio-based Adhesives & Binders
H6	391990	Plastics; plates, sheets, film, foil, tape, strip, other flat shapes thereof, self-adhesive, other than in rolls of a width not exceeding 20cm	Bio-based Adhesives & Binders
H6	3920	Plastics; plates, sheets, film, foil and strip (not self-adhesive); non-cellular and not reinforced, laminated, supported or similarly combined with other materials, n.e.c. in chapter 39	Bio-based Adhesives & Binders
H6	392010	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of polymers of ethylene, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392020	Plastics; of polymers of propylene, plates, sheets, film, foil and strip (not self-adhesive), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392030	Plastics; of polymers of styrene, plates, sheets, film, foil and strip (not self-adhesive), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392043	Plastics; polymers of vinyl chloride, containing by weight not less than 6% of plasticisers; plates, sheets, film, foil and strip (not self-adhesive), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392049	Plastics; polymers of vinyl chloride, containing by weight, less than 6% of plasticisers; plates, sheets, film, foil and strip (not self-adhesive), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392051	Plastics; of acrylic polymers, polymethyl methacrylate, plates, sheets, film, foil and strip (not self-adhesive), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392059	Plastics; of acrylic polymers (excluding polymethyl methacrylate), plates, sheets, film, foil and strip (not self-adhesive), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392061	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of polycarbonates, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392062	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of poly(ethylene terephthalate), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392063	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of unsaturated polyesters, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392069	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of polyesters n.e.c. in heading no. 3920, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392091	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of poly(vinyl butyral), non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392092	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of polyamides, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392093	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of amino-resins, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392094	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of phenolic resins, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	392099	Plastics; plates, sheets, film, foil and strip (not self-adhesive), of plastics n.e.c. in heading no. 3920, non-cellular and not reinforced, laminated, supported or similarly combined with other materials	Bio-based Adhesives & Binders
H6	4807	Composite paper and paperboard, (made by sticking layers together with an adhesive), not surface-coated or impregnated, whether or not internally reinforced, in rolls or sheets	Bio-based Adhesives & Binders
H6	480700	Paper and paperboard; composite (made by sticking layers together with an adhesive), not surface-coated or impregnated, whether or not internally reinforced, in rolls or sheets	Bio-based Adhesives & Binders
H6	4810	Paper and paperboard, coated one or both sides with kaolin (china clay) or inorganic substances, with binder or not, no other coating, surface coloured or not, surface decorated or printed, in rolls or rectangular (including square) sheets, of any size	Bio-based Adhesives & Binders
H6	481141	Paper and paperboard; self-adhesive, in rolls or sheets, other than goods of heading no. 4803, 4809, or 4810	Bio-based Adhesives & Binders
H6	481149	Paper and paperboard; gummed or adhesive paper and paperboard (excluding self-adhesive), in rolls or sheets, other than goods of heading no. 4803, 4809, or 4810	Bio-based Adhesives & Binders
H6	481151	Paper and paperboard; coated, impregnated or covered with plastics (excluding adhesives), bleached, weighing more than 150g/m ² , other than goods of heading no. 4803, 4809, or 4810	Bio-based Adhesives & Binders
H6	481159	Paper and paperboard; coated, impregnated or covered with plastics (excluding adhesives), other than bleached and weighing more than 150g/m ² , other than goods of heading no. 4803, 4809, or 4810	Bio-based Adhesives & Binders
H6	482030	Paper and paperboard; binders, folders and file covers	Bio-based Adhesives & Binders
H6	540730	Fabrics, woven; from synthetic filament yarn, adhesive or thermal bonded	Bio-based Adhesives & Binders
H6	560721	Twine; binder or baler twine, of sisal or other textile fibres of the genus agave	Bio-based Adhesives & Binders
H6	560729	Twine, cordage, ropes, cables; of sisal or other textile fibres of the genus agave (excluding binder or baler twine), whether or not plaited, braided or rubber or plastic impregnated, coated, covered or sheathed	Bio-based Adhesives & Binders
H6	560741	Twine; binder or baler twine, of polyethylene or polypropylene	Bio-based Adhesives & Binders
H6	560749	Twine, cordage, ropes, cables; of polyethylene or polypropylene (excluding binder or baler twine), whether or not plaited, braided or rubber or plastic impregnated, coated, covered or sheathed	Bio-based Adhesives & Binders

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Classification	Code	Description	Category
H6	5806	Fabrics; narrow woven, other than goods of heading 5807; narrow fabrics consisting of warp without weft assembled by means of an adhesive (bolducs)	Bio-based Adhesives & Binders
H6	580640	Fabrics; narrow woven, consisting of warp without weft, assembled by means of an adhesive (bolducs)	Bio-based Adhesives & Binders
H6	590610	Textile fabrics, rubberised; (excluding those of heading no. 5902), adhesive tape of a width not exceeding 20cm	Bio-based Adhesives & Binders
H6	590691	Textile fabrics, rubberised; (excluding those of heading no. 5902 and adhesive tape of a width not exceeding 20cm), knitted or crocheted	Bio-based Adhesives & Binders
H6	590699	Textile fabrics, rubberised; (excluding those of heading no. 5902 and adhesive tape of a width not exceeding 20cm), not knitted or crocheted	Bio-based Adhesives & Binders
H6	6808	Panels, boards, tiles, blocks and the like; of vegetable fibre, of straw, shavings, chips, particles, sawdust or other waste, of wood, agglomerated with cement, plaster or other mineral binders	Bio-based Adhesives & Binders
H6	680800	Panels, boards, tiles, blocks and the like; of vegetable fibre, of straw, shavings, chips, particles, sawdust or other waste, of wood, agglomerated with cement, plaster or other mineral binders	Bio-based Adhesives & Binders
H6	8305	Stationery; fittings for loose-leaf binders or files, letter clips, letter corners, paper clips, indexing tags and the like, staples in strips (for offices, upholstery, packaging), of base metal	Bio-based Adhesives & Binders
H6	830510	Stationery; fittings for loose-leaf binders or files, of base metal	Bio-based Adhesives & Binders
H6	120730	Oil seeds; castor oil seeds, whether or not broken	Bio-based Lubricants
H6	1505	Wool grease and fatty substances derived therefrom (including lanolin)	Bio-based Lubricants
H6	150500	Wool grease and fatty substances derived therefrom (including lanolin)	Bio-based Lubricants
H6	151530	Vegetable oils; castor oil and its fractions, whether or not refined, but not chemically modified	Bio-based Lubricants
H6	2522	Quicklime, slaked lime and hydraulic lime; other than calcium oxide and hydroxide of heading no. 2825	Bio-based Lubricants
H6	252230	Hydraulic lime; excluding calcium oxide and hydroxide of heading no. 2825	Bio-based Lubricants
H6	2523	Portland cement, aluminous cement (ciment fondu), slag cement, supersulphate cement and similar hydraulic cements, whether or not coloured or in the form of clinkers	Bio-based Lubricants
H6	252390	Cement; hydraulic kinds n.e.c. in heading no. 2523	Bio-based Lubricants
H6	300670	Pharmaceutical goods; Gel preparations designed to be used in human or veterinary medicine as a lubricant for parts of the body for surgical operations or physical examinations or as a coupling agent between the body and medical instruments	Bio-based Lubricants
H6	3403	Lubricating preparations and those used in oil or grease treatment of textile and similar materials; excluding preparations containing 70% or more (by weight) of petroleum or bituminous mineral oils	Bio-based Lubricants
H6	3819	Hydraulic brake fluids and other prepared liquids for hydraulic transmission, not containing or containing less than 70% by weight of petroleum oils or oils obtained from bituminous minerals	Bio-based Lubricants
H6	381900	Hydraulic fluids; for brakes and other prepared liquids for hydraulic transmission, not containing or containing less than 70% by weight of petroleum oils or oils obtained from bituminous minerals	Bio-based Lubricants
H6	382550	Residual products of chemical or allied industries, not elsewhere specified or included; wastes of metal pickling liquors, hydraulic fluids, brake fluids and anti-freeze fluids	Bio-based Lubricants
H6	4806	Vegetable parchment, greaseproof papers, tracing papers, glassine and other glazed transparent or translucent papers, in rolls or sheets	Bio-based Lubricants
H6	480620	Paper; greaseproof papers, in rolls or sheets	Bio-based Lubricants
H6	510121	Wool; (not carded or combed), degreased, (not carbonised), shorn	Bio-based Lubricants
H6	510129	Wool; (not carded or combed), degreased, (not carbonised), (other than shorn)	Bio-based Lubricants
H6	8410	Turbines; hydraulic water wheels and regulators therefor	Bio-based Lubricants
H6	841011	Turbines; hydraulic turbines and water wheels, of a power not exceeding 1000kW	Bio-based Lubricants
H6	841012	Turbines; hydraulic turbines and water wheels, of a power exceeding 1000kW but not exceeding 10000kW	Bio-based Lubricants
H6	841013	Turbines; hydraulic turbines and water wheels, of a power exceeding 10000kW	Bio-based Lubricants
H6	841090	Turbines; parts of hydraulic turbines and water wheels, including regulators	Bio-based Lubricants
H6	8412	Engines and motors; n.e.c. (e.g. reaction engines, hydraulic power engines, pneumatic power engines)	Bio-based Lubricants
H6	841221	Engines; hydraulic power engines and motors, linear acting (cylinders)	Bio-based Lubricants
H6	841229	Engines; hydraulic power engines and motors, other than linear acting (cylinders)	Bio-based Lubricants
H6	841311	Pumps; fitted or designed to be fitted with a measuring device, for dispensing fuel or lubricants, of the type used in filling-stations or in garages	Bio-based Lubricants
H6	841319	Pumps; for liquids, fitted or designed to be fitted with a measuring device, other than pumps for dispensing fuel or lubricants	Bio-based Lubricants
H6	842542	Jacks and hoists; hydraulic, of a kind used for raising vehicles	Bio-based Lubricants
H6	842549	Jacks and hoists; (other than hydraulic), of a kind used for raising vehicles	Bio-based Lubricants
H6	846261	Machine-tools; cold metal working presses, hydraulic presses	Bio-based Lubricants
H6	846269	Machine-tools; cold metal working presses, other than hydraulic, mechanical or servo-presses	Bio-based Lubricants
H6	8467	Tools; for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motor	Bio-based Lubricants
H6	846789	Tools; for working in the hand, (other than chain saws), hydraulic or with self-contained non-electric motor, (not pneumatic)	Bio-based Lubricants
H6	848120	Valves; for oleohydraulic or pneumatic transmissions	Bio-based Lubricants
H6	903281	Regulating or controlling instruments and apparatus; automatic, hydraulic or pneumatic	Bio-based Lubricants
H6	903289	Regulating or controlling instruments and apparatus; automatic, other than hydraulic or pneumatic	Bio-based Lubricants
H6	3401	Soap; organic surface-active preparations used as soap, skin washing, in bars, cakes, moulded pieces, shapes, liquid or cream, containing soap or not; for retail, paper, wadding, felt and nonwovens, impregnated, coated or covered with soap or detergent	Bio-based Surfactants
H6	340111	Soap and organic surface-active products; in the form of bars, cakes, moulded shapes, and paper, wadding, felt and nonwovens, impregnated, coated or covered with soap or detergent, for toilet use (including medicated products)	Bio-based Surfactants
H6	340119	Soap and organic surface-active products; in the form of bars, cakes, moulded shapes, and paper, wadding, felt and nonwovens, impregnated, coated or covered with soap or detergent, not for toilet use	Bio-based Surfactants
H6	3823	Industrial monocarboxylic fatty acids; acid oils from refining; industrial fatty alcohols	Bio-based Surfactants
H6	382370	Industrial fatty alcohols	Bio-based Surfactants
H6	290219	Cyclic hydrocarbons; cyclanes, cyclenes and cycloterpenes, excluding cyclohexane	Bio-based Solvents
H6	290522	Alcohols; unsaturated monohydric, acyclic terpene alcohols	Bio-based Solvents
H6	290529	Alcohols; acyclic, unsaturated monohydric, (other than acyclic terpene alcohols)	Bio-based Solvents
H6	291531	Acids; saturated acyclic monocarboxylic acids; ethyl acetate	Bio-based Solvents

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Classification	Code	Description	Category
H6	2936	Provitamins, vitamins; natural or reproduced by synthesis (including natural concentrates) derivatives thereof used as vitamins, and intermixtures of the fore-going, whether or not in any solvent	Bio-based Solvents
H6	330112	Oils, essential; of orange (terpeneless or not), including concretes and absolutes	Bio-based Solvents
H6	330113	Oils, essential; of lemon (terpeneless or not), including concretes and absolutes	Bio-based Solvents
H6	330119	Oils, essential; of citrus fruits n.e.c. in heading no. 3301 (terpeneless or not), including concretes and absolutes	Bio-based Solvents
H6	330124	Oils, essential; of peppermint (<i>Mentha piperita</i>), terpeneless or not, including concretes and absolutes	Bio-based Solvents
H6	330125	Oils, essential; of mints (excluding peppermint), terpeneless or not, including concretes and absolutes	Bio-based Solvents
H6	330129	Oils, essential; n.e.c. in heading no. 3301 (terpeneless or not), including concretes and absolutes	Bio-based Solvents
H6	3814	Organic composite solvents and thinners, not elsewhere specified or included; prepared paint or varnish removers	Bio-based Solvents
H6	381400	Solvents and thinners; organic composite solvents and thinners, n.e.c. or included, prepared paint or varnish removers	Bio-based Solvents
H6	382541	Residual products of the chemical or allied industries, not elsewhere specified or included; halogenated waste organic solvents	Bio-based Solvents
H6	382549	Residual products of the chemical or allied industries, not elsewhere specified or included; waste organic solvents, other than halogenated	Bio-based Solvents
H6	3911	Petroleum resins, coumarone-indene resins, polyterpenes, polysulphides, polysulphones and similar products of chemical synthesis n.e.c. in chapter 39, in primary forms	Bio-based Solvents
H6	391110	Petroleum resins, coumarone, indene or coumarone-indene resins and polyterpenes; in primary forms	Bio-based Solvents

Appendix B. Appendix Section: 2

Global BCI score and ranks for 2000–2023

Country	BCI	Year	Rank
India	1.32296	2000	1
United Kingdom	1.313818	2000	2
Czechia	1.310957	2000	3
Italy	1.30089	2000	4
China	1.296439	2000	5
France	1.295973	2000	6
Turkey	1.294333	2000	7
Germany	1.288584	2000	8
Japan	1.28525	2000	9
Belgium	1.274231	2000	10
Thailand	1.260029	2000	11
China, Hong Kong SAR	1.257681	2000	12
Portugal	1.256332	2000	13
Rep. of Korea	1.244939	2000	14
Indonesia	1.237713	2000	15
Other Asia, nes	1.231843	2000	16
Australia	1.226749	2000	17
South Africa	1.214104	2000	18
Canada	1.207226	2000	19
Netherlands	1.202361	2000	20
Sweden	1.200503	2000	21
Austria	1.197782	2000	22
Singapore	1.195072	2000	23
Denmark	1.191621	2000	24
Mexico	1.187996	2000	25
Russian Federation	1.186711	2000	26
Greece	1.185909	2000	27
Slovakia	1.185625	2000	28
Slovenia	1.180409	2000	29
Finland	1.177582	2000	30
Bulgaria	1.146502	2000	31
Romania	1.142044	2000	32
USA	1.118256	2000	33
Spain	1.091101	2000	34
Switzerland	1.084719	2000	35
Estonia	1.076757	2000	36
Lithuania	1.069302	2000	37
Malaysia	1.057184	2000	38
Belarus	1.052584	2000	39
Argentina	1.02054	2000	40
Norway	1.008139	2000	41
Brazil	0.992656	2000	42
Croatia	0.988775	2000	43
Colombia	0.976811	2000	44
New Zealand	0.975516	2000	45
Sri Lanka	0.971118	2000	46
Peru	0.869712	2000	47
Hungary	0.835235	2000	48
Ireland	0.817705	2000	49

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Country	BCI	Year	Rank
Guatemala	0.80746	2000	50
Latvia	0.792303	2000	51
Morocco	0.666633	2000	52
Zimbabwe	0.62062	2000	53
Poland	0.616105	2000	54
El Salvador	0.605525	2000	55
Serbia and Montenegro (...2005)	0.595783	2000	56
Kenya	0.569751	2000	57
Chile	0.568677	2000	58
Tunisia	0.553645	2000	59
North Macedonia	0.551425	2000	60
Iran	0.534433	2000	61
Mauritius	0.503986	2000	62
Venezuela	0.49394	2000	63
Luxembourg	0.489042	2000	64
Botswana	0.469451	2000	65
Lebanon	0.459344	2000	66
Trinidad and Tobago	0.455912	2000	67
Philippines	0.453311	2000	68
Namibia	0.434978	2000	69
Ukraine	0.410987	2000	70
Israel	0.400098	2000	71
Madagascar	0.379658	2000	72
Jordan	0.3581	2000	73
Cyprus	0.331712	2000	74
Costa Rica	0.270834	2000	75
Eswatini	0.249819	2000	76
Ivory Coast	0.114797	2000	77
Rep. of Moldova	0.026751	2000	78
Kyrgyzstan	-0.03572	2000	79
Egypt	-0.04902	2000	80
Ecuador	-0.06304	2000	81
Zambia	-0.1055	2000	82
Bangladesh	-0.12236	2000	83
Honduras	-0.18061	2000	84
Uruguay	-0.1887	2000	85
Barbados	-0.19144	2000	86
Bolivia (Plurinational State of)	-0.20516	2000	87
Malta	-0.26008	2000	88
Bahrain	-0.29862	2000	89
Saudi Arabia	-0.30177	2000	90
Malawi	-0.36397	2000	91
Iceland	-0.41493	2000	92
Jamaica	-0.43189	2000	93
Ghana	-0.48129	2000	94
Senegal	-0.48681	2000	95
Viet Nam	-0.51284	2000	96
Antigua and Barbuda	-0.51548	2000	97
Cuba	-0.5286	2000	98
Albania	-0.53215	2000	99
Azerbaijan	-0.56557	2000	100
Guyana	-0.59735	2000	101
Algeria	-0.62336	2000	102
Panama	-0.63129	2000	103
Andorra	-0.63266	2000	104
Nicaragua	-0.64143	2000	105
China, Macao SAR	-0.65315	2000	106
Bahamas	-0.65542	2000	107
Oman	-0.67204	2000	108
Niger	-0.67436	2000	109
United Rep. of Tanzania	-0.6789	2000	110
Cambodia	-0.70982	2000	111
Cameroon	-0.71734	2000	112
Paraguay	-0.73619	2000	113
Qatar	-0.85149	2000	114
Gabon	-0.87276	2000	115
Georgia	-0.88962	2000	116
Burkina Faso	-0.91975	2000	117
New Caledonia	-0.93467	2000	118
Cabo Verde	-0.94343	2000	119
Saint Lucia	-0.94607	2000	120
Turkmenistan	-0.9485	2000	121
Mozambique	-0.95155	2000	122
French Polynesia	-0.98768	2000	123
Togo	-1.00973	2000	124
Benin	-1.03419	2000	125

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Country	BCI	Year	Rank
Mongolia	-1.04447	2000	126
Uganda	-1.08697	2000	127
Armenia	-1.10311	2000	128
Saint Vincent and the Grenadines	-1.11209	2000	129
Mali	-1.15328	2000	130
Kuwait	-1.16196	2000	131
Nigeria	-1.20397	2000	132
Suriname	-1.22093	2000	133
Dominica	-1.2284	2000	134
Grenada	-1.25135	2000	135
Saint Kitts and Nevis	-1.27844	2000	136
Nepal	-1.28682	2000	137
Belize	-1.32875	2000	138
Seychelles	-1.37577	2000	139
Maldives	-1.38736	2000	140
Papua New Guinea	-1.48797	2000	141
Gambia	-1.49037	2000	142
Greenland	-1.49677	2000	143
Anguilla	-1.51513	2000	144
Sudan (...2011)	-1.52417	2000	145
Central African Rep.	-1.53832	2000	146
Ethiopia	-1.56596	2000	147
Burundi	-1.56688	2000	148
Mayotte (Overseas France)	-1.5789	2000	149
Montserrat	-1.58452	2000	150
Guinea	-1.62085	2000	151
Kazakhstan	-1.64305	2000	152
Faeroe Isds	-1.65401	2000	153
Sao Tome and Principe	-1.66068	2000	154
Comoros	-1.6669	2000	155
Sierra Leone	-1.7249	2000	156
Czechia	1.333555	2001	1
India	1.329138	2001	2
United Kingdom	1.325778	2001	3
France	1.318085	2001	4
Germany	1.306794	2001	5
Turkey	1.305515	2001	6
Italy	1.289591	2001	7
China	1.288516	2001	8
Japan	1.267074	2001	9
South Africa	1.266809	2001	10
Portugal	1.261201	2001	11
Belgium	1.256592	2001	12
Other Asia, nes	1.256429	2001	13
Australia	1.255727	2001	14
Indonesia	1.248015	2001	15
Netherlands	1.246642	2001	16
Thailand	1.242749	2001	17
Slovakia	1.236971	2001	18
Rep. of Korea	1.235064	2001	19
China, Hong Kong SAR	1.234059	2001	20
Slovenia	1.233186	2001	21
Denmark	1.21272	2001	22
Finland	1.207524	2001	23
Canada	1.202146	2001	24
Austria	1.199707	2001	25
Sweden	1.198188	2001	26
Greece	1.170491	2001	27
Russian Federation	1.162569	2001	28
Romania	1.156591	2001	29
Lithuania	1.144105	2001	30
Singapore	1.14355	2001	31
Mexico	1.141573	2001	32
Belarus	1.13717	2001	33
Switzerland	1.124206	2001	34
Bulgaria	1.111884	2001	35
Estonia	1.090644	2001	36
USA	1.067412	2001	37
Spain	1.055315	2001	38
Brazil	1.029733	2001	39
Croatia	1.025357	2001	40
New Zealand	1.019612	2001	41
Sri Lanka	1.015666	2001	42
Colombia	1.012939	2001	43
Argentina	0.995316	2001	44
Norway	0.965352	2001	45

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Country	BCI	Year	Rank
Hungary	0.922376	2001	46
Peru	0.896267	2001	47
Malaysia	0.865222	2001	48
Guatemala	0.826899	2001	49
Ireland	0.817379	2001	50
Latvia	0.813816	2001	51
Morocco	0.800922	2001	52
Serbia and Montenegro (...2005)	0.792853	2001	53
Tunisia	0.749256	2001	54
El Salvador	0.731836	2001	55
Poland	0.650711	2001	56
Trinidad and Tobago	0.629971	2001	57
Luxembourg	0.61706	2001	58
Eswatini	0.580597	2001	59
Kenya	0.577851	2001	60
Philippines	0.570977	2001	61
Mauritius	0.513416	2001	62
Iran	0.510378	2001	63
Ukraine	0.507645	2001	64
Lebanon	0.477954	2001	65
North Macedonia	0.464954	2001	66
Chile	0.444173	2001	67
Namibia	0.434767	2001	68
Botswana	0.415364	2001	69
Venezuela	0.374953	2001	70
Madagascar	0.366712	2001	71
Cyprus	0.363712	2001	72
Israel	0.344974	2001	73
Viet Nam	0.321306	2001	74
Costa Rica	0.279789	2001	75
Ivory Coast	0.219604	2001	76
Bangladesh	0.120194	2001	77
Egypt	0.108454	2001	78
Ecuador	-0.0028	2001	79
Rep. of Moldova	-0.02167	2001	80
Honduras	-0.03859	2001	81
Zimbabwe	-0.07709	2001	82
Kazakhstan	-0.09537	2001	83
Jordan	-0.12295	2001	84
Uruguay	-0.24676	2001	85
Bolivia (Plurinational State of)	-0.24967	2001	86
Kyrgyzstan	-0.2545	2001	87
Zambia	-0.27875	2001	88
Barbados	-0.34591	2001	89
Nicaragua	-0.35218	2001	90
Albania	-0.37822	2001	91
Jamaica	-0.37943	2001	92
Saudi Arabia	-0.38204	2001	93
Senegal	-0.39065	2001	94
New Caledonia	-0.40674	2001	95
Andorra	-0.45467	2001	96
Guyana	-0.47447	2001	97
Bahrain	-0.48581	2001	98
Malawi	-0.48894	2001	99
Iceland	-0.50161	2001	100
United Rep. of Tanzania	-0.51826	2001	101
Cameroon	-0.53757	2001	102
Brunei Darussalam	-0.58648	2001	103
Dominican Rep.	-0.64513	2001	104
Cuba	-0.64947	2001	105
Bahamas	-0.6747	2001	106
Paraguay	-0.67784	2001	107
China, Macao SAR	-0.68357	2001	108
Saint Lucia	-0.72467	2001	109
Azerbaijan	-0.72596	2001	110
Cambodia	-0.73365	2001	111
Panama	-0.74585	2001	112
Ghana	-0.77516	2001	113
Armenia	-0.78667	2001	114
Oman	-0.83948	2001	115
Malta	-0.85712	2001	116
Uganda	-0.87219	2001	117
Georgia	-0.88737	2001	118
Mozambique	-0.91758	2001	119
Saint Vincent and the Grenadines	-0.9324	2001	120
Gabon	-0.94165	2001	121

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Country	BCI	Year	Rank
Niger	-0.95878	2001	122
Mongolia	-0.96089	2001	123
Togo	-1.00942	2001	124
Algeria	-1.0429	2001	125
Dominica	-1.04862	2001	126
Mali	-1.05952	2001	127
Benin	-1.06894	2001	128
French Polynesia	-1.0779	2001	129
Burkina Faso	-1.11177	2001	130
Suriname	-1.13718	2001	131
Saint Kitts and Nevis	-1.17028	2001	132
Kuwait	-1.25732	2001	133
Grenada	-1.27087	2001	134
Lesotho	-1.28111	2001	135
Ethiopia	-1.30532	2001	136
Mayotte (Overseas France)	-1.33514	2001	137
Papua New Guinea	-1.35003	2001	138
Qatar	-1.35809	2001	139
Central African Rep.	-1.36065	2001	140
Syria	-1.36548	2001	141
Maldives	-1.39801	2001	142
Samoa	-1.41013	2001	143
Guinea	-1.41079	2001	144
Nigeria	-1.41332	2001	145
Gambia	-1.42674	2001	146
Greenland	-1.45079	2001	147
Rwanda	-1.49473	2001	148
Seychelles	-1.49627	2001	149
Belize	-1.52267	2001	150
Cabo Verde	-1.53018	2001	151
Comoros	-1.5341	2001	152
Burundi	-1.5799	2001	153
Anguilla	-1.58082	2001	154
Montserrat	-1.59216	2001	155
Sudan (...2011)	-1.59894	2001	156
Faeroe Isds	-1.64816	2001	157
Sao Tome and Principe	-1.68008	2001	158
United Kingdom	1.330118	2002	1
Czechia	1.329058	2002	2
Germany	1.316592	2002	3
France	1.297734	2002	4
Denmark	1.284012	2002	5
Japan	1.279418	2002	6
Italy	1.27907	2002	7
Turkey	1.277762	2002	8
Portugal	1.273368	2002	9
Singapore	1.270182	2002	10
Australia	1.266021	2002	11
South Africa	1.265758	2002	12
India	1.256031	2002	13
Rep. of Korea	1.255347	2002	14
Sweden	1.254171	2002	15
Spain	1.249447	2002	16
Thailand	1.239046	2002	17
Slovenia	1.234973	2002	18
Slovakia	1.23416	2002	19
Canada	1.230615	2002	20
China, Hong Kong SAR	1.223534	2002	21
China	1.215625	2002	22
Austria	1.213851	2002	23
Other Asia, nes	1.211325	2002	24
Belgium	1.190256	2002	25
Bulgaria	1.189177	2002	26
Indonesia	1.179106	2002	27
Greece	1.175081	2002	28
Netherlands	1.174211	2002	29
Switzerland	1.16953	2002	30
Finland	1.166579	2002	31
Romania	1.160805	2002	32
USA	1.152288	2002	33
Belarus	1.127346	2002	34
Russian Federation	1.115838	2002	35
Mexico	1.097035	2002	36
Lithuania	1.086546	2002	37
Estonia	1.064357	2002	38
Croatia	1.058258	2002	39

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Country	BCI	Year	Rank
New Zealand	1.045337	2002	40
Brazil	1.033954	2002	41
Argentina	1.022485	2002	42
Sri Lanka	0.999653	2002	43
Malaysia	0.992009	2002	44
Hungary	0.981528	2002	45
Norway	0.973737	2002	46
Colombia	0.969382	2002	47
Latvia	0.936053	2002	48
Peru	0.896377	2002	49
Serbia and Montenegro (...2005)	0.854014	2002	50
Guatemala	0.826237	2002	51
Ireland	0.766231	2002	52
Morocco	0.715688	2002	53
Tunisia	0.696608	2002	54
Eswatini	0.690139	2002	55
Poland	0.680019	2002	56
El Salvador	0.671591	2002	57
Luxembourg	0.560775	2002	58
Lebanon	0.551363	2002	59
Zimbabwe	0.531997	2002	60
Philippines	0.525227	2002	61
Trinidad and Tobago	0.50917	2002	62
Namibia	0.501628	2002	63
Venezuela	0.475022	2002	64
Iran	0.462689	2002	65
Viet Nam	0.453815	2002	66
Mauritius	0.445393	2002	67
Ukraine	0.441502	2002	68
Kenya	0.411609	2002	69
Chile	0.410239	2002	70
Botswana	0.394712	2002	71
North Macedonia	0.39324	2002	72
Fiji	0.391023	2002	73
Cyprus	0.313676	2002	74
Israel	0.232084	2002	75
Madagascar	0.165768	2002	76
Ivory Coast	0.148483	2002	77
Bangladesh	0.048598	2002	78
Egypt	0.022897	2002	79
Costa Rica	0.022643	2002	80
Honduras	0.003948	2002	81
Ecuador	-0.02314	2002	82
Rep. of Moldova	-0.04111	2002	83
Kyrgyzstan	-0.18493	2002	84
Saudi Arabia	-0.19372	2002	85
Jordan	-0.2395	2002	86
Nicaragua	-0.26805	2002	87
Uruguay	-0.27394	2002	88
Kazakhstan	-0.28943	2002	89
Senegal	-0.36847	2002	90
Bolivia (Plurinational State of)	-0.37307	2002	91
Bahrain	-0.38057	2002	92
Jamaica	-0.41936	2002	93
Zambia	-0.43195	2002	94
New Caledonia	-0.45497	2002	95
Barbados	-0.46379	2002	96
Guyana	-0.46404	2002	97
Malta	-0.46658	2002	98
Dominican Rep.	-0.48885	2002	99
Iceland	-0.50635	2002	100
Saint Lucia	-0.50781	2002	101
Cameroon	-0.51488	2002	102
Albania	-0.53018	2002	103
Cambodia	-0.55155	2002	104
Malawi	-0.57709	2002	105
Panama	-0.58301	2002	106
United Rep. of Tanzania	-0.63313	2002	107
Andorra	-0.66007	2002	108
Armenia	-0.68055	2002	109
Mozambique	-0.69992	2002	110
China, Macao SAR	-0.71	2002	111
Cuba	-0.72072	2002	112
Oman	-0.72508	2002	113
Paraguay	-0.74163	2002	114
Azerbaijan	-0.76241	2002	115

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Country	BCI	Year	Rank
Brunei Darussalam	-0.80638	2002	116
Bahamas	-0.83421	2002	117
Georgia	-0.84953	2002	118
Qatar	-0.85093	2002	119
Lesotho	-0.8634	2002	120
Syria	-0.9257	2002	121
Algeria	-0.9429	2002	122
Uganda	-0.9452	2002	123
French Polynesia	-0.96251	2002	124
Saint Vincent and the Grenadines	-0.9626	2002	125
Niger	-0.98094	2002	126
Gabon	-1.03794	2002	127
Mongolia	-1.04413	2002	128
Togo	-1.04584	2002	129
Benin	-1.05152	2002	130
Papua New Guinea	-1.1326	2002	131
Kuwait	-1.14156	2002	132
Burkina Faso	-1.16746	2002	133
Suriname	-1.18684	2002	134
Mali	-1.18899	2002	135
Ethiopia	-1.25848	2002	136
Grenada	-1.27632	2002	137
Saint Kitts and Nevis	-1.28619	2002	138
Dominica	-1.29492	2002	139
Mayotte (Overseas France)	-1.3551	2002	140
Maldives	-1.43488	2002	141
Rwanda	-1.43732	2002	142
Samoa	-1.44761	2002	143
Central African Rep.	-1.44978	2002	144
Nigeria	-1.45573	2002	145
Greenland	-1.48628	2002	146
Gambia	-1.49044	2002	147
Seychelles	-1.49987	2002	148
Cabo Verde	-1.50226	2002	149
Sudan (...2011)	-1.51539	2002	150
Comoros	-1.5454	2002	151
Belize	-1.55702	2002	152
Anguilla	-1.59374	2002	153
Guinea	-1.60141	2002	154
Faeroe Isds	-1.6274	2002	155
Sierra Leone	-1.63856	2002	156
Burundi	-1.64148	2002	157
Montserrat	-1.64203	2002	158
Sao Tome and Principe	-1.67352	2002	159
France	1.315392	2003	1
United Kingdom	1.312412	2003	2
Czechia	1.303857	2003	3
Germany	1.296212	2003	4
Turkey	1.283293	2003	5
South Africa	1.275589	2003	6
Italy	1.27376	2003	7
China, Hong Kong SAR	1.267143	2003	8
Denmark	1.252005	2003	9
Japan	1.251298	2003	10
China	1.247599	2003	11
Portugal	1.241689	2003	12
Thailand	1.225667	2003	13
USA	1.218506	2003	14
Belgium	1.2172	2003	15
Slovenia	1.210399	2003	16
Singapore	1.208594	2003	17
Rep. of Korea	1.207712	2003	18
Austria	1.205541	2003	19
India	1.205409	2003	20
Australia	1.200636	2003	21
Netherlands	1.195262	2003	22
Slovakia	1.192435	2003	23
Sweden	1.190405	2003	24
Switzerland	1.186618	2003	25
Canada	1.176897	2003	26
Greece	1.167793	2003	27
Finland	1.166583	2003	28
Other Asia, nes	1.136567	2003	29
Indonesia	1.125161	2003	30
Spain	1.118975	2003	31
Romania	1.108271	2003	32

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Country	BCI	Year	Rank
Bulgaria	1.107052	2003	33
Croatia	1.08066	2003	34
Mexico	1.079943	2003	35
Estonia	1.074099	2003	36
Russian Federation	1.071692	2003	37
Lithuania	1.057365	2003	38
Malaysia	1.047311	2003	39
Argentina	1.038823	2003	40
Belarus	1.024756	2003	41
New Zealand	1.010068	2003	42
Brazil	0.992853	2003	43
Hungary	0.976279	2003	44
Colombia	0.970022	2003	45
Norway	0.958683	2003	46
Sri Lanka	0.932801	2003	47
Peru	0.877311	2003	48
Latvia	0.850879	2003	49
Guatemala	0.806284	2003	50
Pakistan	0.787608	2003	51
Ireland	0.751296	2003	52
Kenya	0.733707	2003	53
Morocco	0.679861	2003	54
Tunisia	0.659727	2003	55
Poland	0.659005	2003	56
Lebanon	0.657198	2003	57
Chile	0.653056	2003	58
El Salvador	0.610099	2003	59
Eswatini	0.583128	2003	60
Ukraine	0.560089	2003	61
Mauritius	0.557032	2003	62
Luxembourg	0.548326	2003	63
Iran	0.54047	2003	64
Syria	0.532694	2003	65
Viet Nam	0.463124	2003	66
Philippines	0.462949	2003	67
Bosnia Herzegovina	0.462817	2003	68
Trinidad and Tobago	0.461133	2003	69
North Macedonia	0.458228	2003	70
Venezuela	0.399868	2003	71
Namibia	0.38339	2003	72
Costa Rica	0.318987	2003	73
Israel	0.306372	2003	74
Zimbabwe	0.296725	2003	75
Madagascar	0.27796	2003	76
Jordan	0.26193	2003	77
Bangladesh	0.260696	2003	78
Fiji	0.248735	2003	79
Cyprus	0.23797	2003	80
Botswana	0.165083	2003	81
Ecuador	0.160329	2003	82
Egypt	0.096382	2003	83
Rep. of Moldova	0.022145	2003	84
Honduras	-0.04579	2003	85
Ivory Coast	-0.1745	2003	86
Uruguay	-0.18929	2003	87
Nicaragua	-0.22374	2003	88
Kyrgyzstan	-0.26038	2003	89
Saudi Arabia	-0.26452	2003	90
Paraguay	-0.26901	2003	91
Albania	-0.29039	2003	92
Senegal	-0.30116	2003	93
New Caledonia	-0.33172	2003	94
Malta	-0.3532	2003	95
Kazakhstan	-0.3552	2003	96
Bahrain	-0.35882	2003	97
Zambia	-0.35915	2003	98
Bolivia (Plurinational State of)	-0.40272	2003	99
Dominican Rep.	-0.44112	2003	100
Nepal	-0.44756	2003	101
Jamaica	-0.4674	2003	102
Cameroon	-0.47008	2003	103
Barbados	-0.48467	2003	104
United Rep. of Tanzania	-0.48577	2003	105
Malawi	-0.513	2003	106
Mozambique	-0.51576	2003	107
Guyana	-0.54777	2003	108

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Country	BCI	Year	Rank
Cambodia	-0.62294	2003	109
Iceland	-0.62885	2003	110
Armenia	-0.63948	2003	111
China, Macao SAR	-0.66739	2003	112
Uganda	-0.67263	2003	113
Ghana	-0.67901	2003	114
Andorra	-0.68145	2003	115
Saint Lucia	-0.73048	2003	116
Cuba	-0.77572	2003	117
Panama	-0.80694	2003	118
French Polynesia	-0.83482	2003	119
Georgia	-0.83549	2003	120
Algeria	-0.85299	2003	121
Bahamas	-0.9207	2003	122
Mongolia	-0.97421	2003	123
Azerbaijan	-0.98449	2003	124
Brunei Darussalam	-1.02469	2003	125
Benin	-1.04705	2003	126
Oman	-1.06267	2003	127
Suriname	-1.09119	2003	128
Togo	-1.09146	2003	129
Lesotho	-1.12191	2003	130
Saint Vincent and the Grenadines	-1.13183	2003	131
Gabon	-1.13632	2003	132
Mali	-1.14725	2003	133
Niger	-1.16923	2003	134
Burkina Faso	-1.17316	2003	135
Ethiopia	-1.21499	2003	136
Papua New Guinea	-1.22716	2003	137
Saint Kitts and Nevis	-1.26003	2003	138
Grenada	-1.28795	2003	139
Kuwait	-1.32492	2003	140
Nigeria	-1.40781	2003	141
Dominica	-1.41247	2003	142
Mayotte (Overseas France)	-1.41563	2003	143
Belize	-1.43186	2003	144
Samoa	-1.43713	2003	145
Montserrat	-1.47632	2003	146
Rwanda	-1.48318	2003	147
Qatar	-1.52008	2003	148
Eritrea	-1.53261	2003	149
Cabo Verde	-1.5406	2003	150
Seychelles	-1.586	2003	151
Greenland	-1.58824	2003	152
Central African Rep.	-1.60439	2003	153
Anguilla	-1.61567	2003	154
Gambia	-1.64011	2003	155
Maldives	-1.64246	2003	156
Sudan (...2011)	-1.64312	2003	157
Sao Tome and Principe	-1.69733	2003	158
Comoros	-1.7005	2003	159
Faeroe Isds	-1.70925	2003	160
Guinea-Bissau	-1.74305	2003	161
China	1.28839	2004	1
Czechia	1.273488	2004	2
United Kingdom	1.271005	2004	3
France	1.270738	2004	4
Turkey	1.268413	2004	5
Japan	1.253092	2004	6
China, Hong Kong SAR	1.243935	2004	7
Italy	1.240702	2004	8
India	1.240675	2004	9
Other Asia, nes	1.238888	2004	10
Austria	1.232354	2004	11
Germany	1.230655	2004	12
Switzerland	1.230287	2004	13
Poland	1.228045	2004	14
South Africa	1.226937	2004	15
Portugal	1.21497	2004	16
Thailand	1.212837	2004	17
Netherlands	1.212569	2004	18
Canada	1.21143	2004	19
Belgium	1.209921	2004	20
Denmark	1.204995	2004	21
Slovenia	1.203249	2004	22
Singapore	1.194945	2004	23

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Country	BCI	Year	Rank
Australia	1.181714	2004	24
Rep. of Korea	1.177448	2004	25
Sweden	1.164498	2004	26
Romania	1.143855	2004	27
Bulgaria	1.13952	2004	28
USA	1.133339	2004	29
Mexico	1.124624	2004	30
Greece	1.119069	2004	31
Slovakia	1.112829	2004	32
Hungary	1.110063	2004	33
Finland	1.107546	2004	34
Belarus	1.089122	2004	35
Brazil	1.087846	2004	36
Croatia	1.0871	2004	37
Lithuania	1.074874	2004	38
Malaysia	1.071418	2004	39
Spain	1.056061	2004	40
Argentina	1.05412	2004	41
Colombia	1.053201	2004	42
Estonia	1.023568	2004	43
Russian Federation	1.019595	2004	44
New Zealand	1.008398	2004	45
Indonesia	1.006837	2004	46
Latvia	0.928288	2004	47
Peru	0.903793	2004	48
Norway	0.887996	2004	49
Sri Lanka	0.873236	2004	50
Guatemala	0.850677	2004	51
Pakistan	0.797021	2004	52
Serbia and Montenegro (...2005)	0.745048	2004	53
Tunisia	0.716281	2004	54
Viet Nam	0.699183	2004	55
Mauritius	0.696603	2004	56
Ireland	0.689427	2004	57
Bosnia Herzegovina	0.687684	2004	58
Kenya	0.683825	2004	59
Morocco	0.630848	2004	60
Ukraine	0.592155	2004	61
El Salvador	0.587251	2004	62
Luxembourg	0.550975	2004	63
Bangladesh	0.53769	2004	64
Chile	0.535385	2004	65
North Macedonia	0.48154	2004	66
Lebanon	0.477339	2004	67
Eswatini	0.441346	2004	68
Trinidad and Tobago	0.41635	2004	69
Namibia	0.412759	2004	70
Philippines	0.399591	2004	71
Madagascar	0.382529	2004	72
Iran	0.36452	2004	73
Venezuela	0.359949	2004	74
Jordan	0.328783	2004	75
Israel	0.305997	2004	76
Cyprus	0.27262	2004	77
Zimbabwe	0.237014	2004	78
Fiji	0.22868	2004	79
Costa Rica	0.217371	2004	80
Ecuador	0.175993	2004	81
Rep. of Moldova	0.16807	2004	82
Brunei Darussalam	0.011168	2004	83
Honduras	-0.01546	2004	84
Uruguay	-0.01788	2004	85
Botswana	-0.02449	2004	86
Egypt	-0.06704	2004	87
Ivory Coast	-0.07726	2004	88
United Rep. of Tanzania	-0.08391	2004	89
Kazakhstan	-0.12112	2004	90
Kyrgyzstan	-0.13314	2004	91
Senegal	-0.19689	2004	92
Nicaragua	-0.2021	2004	93
Albania	-0.21425	2004	94
Bolivia (Plurinational State of)	-0.2685	2004	95
Saudi Arabia	-0.30041	2004	96
Zambia	-0.33759	2004	97
New Caledonia	-0.3709	2004	98
Malta	-0.42631	2004	99

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Country	BCI	Year	Rank
Jamaica	-0.46263	2004	100
Bahrain	-0.51621	2004	101
Malawi	-0.54304	2004	102
Barbados	-0.55339	2004	103
Dominican Rep.	-0.55583	2004	104
Syria	-0.56186	2004	105
Cameroon	-0.57957	2004	106
Paraguay	-0.58454	2004	107
Lesotho	-0.59642	2004	108
Iceland	-0.60749	2004	109
Cambodia	-0.62356	2004	110
Mozambique	-0.62374	2004	111
Andorra	-0.6442	2004	112
Oman	-0.66701	2004	113
Uganda	-0.68177	2004	114
China, Macao SAR	-0.68736	2004	115
Armenia	-0.68842	2004	116
Saint Lucia	-0.69118	2004	117
Cuba	-0.71591	2004	118
Guyana	-0.79091	2004	119
Panama	-0.80916	2004	120
French Polynesia	-0.8625	2004	121
Bahamas	-0.87539	2004	122
Azerbaijan	-0.90816	2004	123
Georgia	-0.92186	2004	124
Angola	-0.94454	2004	125
Mongolia	-0.96152	2004	126
Suriname	-0.967	2004	127
Algeria	-0.98504	2004	128
Togo	-1.02734	2004	129
Timor-Leste	-1.02807	2004	130
Grenada	-1.091	2004	131
Burkina Faso	-1.1307	2004	132
Niger	-1.14281	2004	133
Mali	-1.16489	2004	134
Benin	-1.21774	2004	135
Kuwait	-1.23634	2004	136
Saint Vincent and the Grenadines	-1.24077	2004	137
Ethiopia	-1.24673	2004	138
Yemen	-1.26256	2004	139
Papua New Guinea	-1.27384	2004	140
Gabon	-1.27665	2004	141
Saint Kitts and Nevis	-1.27718	2004	142
Dominica	-1.35618	2004	143
Maldives	-1.36106	2004	144
Belize	-1.38785	2004	145
Rwanda	-1.39631	2004	146
Qatar	-1.40083	2004	147
Mayotte (Overseas France)	-1.50159	2004	148
Greenland	-1.51283	2004	149
Samoa	-1.51424	2004	150
Seychelles	-1.51761	2004	151
Anguilla	-1.5606	2004	152
Gambia	-1.59618	2004	153
Cabo Verde	-1.59763	2004	154
Guinea	-1.59781	2004	155
Montserrat	-1.60472	2004	156
Central African Rep.	-1.6449	2004	157
Burundi	-1.66612	2004	158
Sudan (...2011)	-1.67034	2004	159
Guinea-Bissau	-1.70263	2004	160
Sao Tome and Principe	-1.71225	2004	161
Comoros	-1.71786	2004	162
Faeroe Isds	-1.72052	2004	163
China	1.322967	2005	1
China, Hong Kong SAR	1.309963	2005	2
Czechia	1.304187	2005	3
United Kingdom	1.303289	2005	4
Turkey	1.297697	2005	5
France	1.295159	2005	6
Poland	1.280179	2005	7
Italy	1.279604	2005	8
Portugal	1.274928	2005	9
India	1.267867	2005	10
Denmark	1.259812	2005	11
Japan	1.257238	2005	12

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Country	BCI	Year	Rank
Netherlands	1.25692	2005	13
Thailand	1.25435	2005	14
Germany	1.25111	2005	15
South Africa	1.2479	2005	16
Belgium	1.241354	2005	17
Austria	1.237113	2005	18
Singapore	1.224672	2005	19
Rep. of Korea	1.222492	2005	20
Australia	1.208467	2005	21
Switzerland	1.207135	2005	22
Greece	1.205823	2005	23
Canada	1.203189	2005	24
Slovenia	1.198843	2005	25
Mexico	1.191277	2005	26
Sweden	1.181206	2005	27
USA	1.163241	2005	28
Argentina	1.135283	2005	29
Bulgaria	1.134458	2005	30
Hungary	1.116462	2005	31
United Arab Emirates	1.109314	2005	32
Finland	1.094078	2005	33
Romania	1.087784	2005	34
Croatia	1.086415	2005	35
Spain	1.083269	2005	36
Lithuania	1.066881	2005	37
New Zealand	1.050917	2005	38
Brazil	1.039139	2005	39
Malaysia	1.028311	2005	40
Russian Federation	1.025436	2005	41
Colombia	1.023773	2005	42
Pakistan	1.004238	2005	43
Indonesia	0.991424	2005	44
Estonia	0.985641	2005	45
Peru	0.955829	2005	46
Latvia	0.934463	2005	47
Belarus	0.928603	2005	48
Norway	0.906593	2005	49
Guatemala	0.871465	2005	50
Kenya	0.848731	2005	51
Sri Lanka	0.848607	2005	52
Other Asia, nes	0.84501	2005	53
Slovakia	0.735169	2005	54
Viet Nam	0.684465	2005	55
Tunisia	0.674709	2005	56
Luxembourg	0.65778	2005	57
Ireland	0.650513	2005	58
Mauritius	0.645845	2005	59
Bosnia Herzegovina	0.633684	2005	60
Bangladesh	0.601336	2005	61
Morocco	0.5529	2005	62
Chile	0.547433	2005	63
North Macedonia	0.5434	2005	64
Ukraine	0.521905	2005	65
Lebanon	0.513649	2005	66
El Salvador	0.464987	2005	67
Iran	0.419913	2005	68
Trinidad and Tobago	0.412866	2005	69
Namibia	0.406135	2005	70
Eswatini	0.361379	2005	71
Philippines	0.343472	2005	72
Ecuador	0.283579	2005	73
Costa Rica	0.281594	2005	74
Madagascar	0.277752	2005	75
Rep. of Moldova	0.272283	2005	76
Fiji	0.252226	2005	77
Israel	0.238405	2005	78
Botswana	0.229631	2005	79
Jordan	0.214969	2005	80
Syria	0.199961	2005	81
Venezuela	0.152331	2005	82
Cyprus	0.140752	2005	83
Zimbabwe	0.049673	2005	84
Honduras	-0.01107	2005	85
United Rep. of Tanzania	-0.01263	2005	86
Ivory Coast	-0.04579	2005	87
Senegal	-0.05543	2005	88

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Country	BCI	Year	Rank
Uruguay	-0.08018	2005	89
Kazakhstan	-0.12084	2005	90
Barbados	-0.13389	2005	91
Nicaragua	-0.1469	2005	92
Saudi Arabia	-0.15605	2005	93
Egypt	-0.16968	2005	94
Kyrgyzstan	-0.17275	2005	95
Bahrain	-0.21881	2005	96
Bolivia (Plurinational State of)	-0.2646	2005	97
Albania	-0.26831	2005	98
New Caledonia	-0.29292	2005	99
Paraguay	-0.37763	2005	100
Zambia	-0.40135	2005	101
Malta	-0.41287	2005	102
Uganda	-0.47142	2005	103
Jamaica	-0.48976	2005	104
Qatar	-0.49902	2005	105
Armenia	-0.50905	2005	106
Guyana	-0.51487	2005	107
Cameroon	-0.5978	2005	108
Lesotho	-0.60478	2005	109
Georgia	-0.6317	2005	110
Malawi	-0.68355	2005	111
Andorra	-0.69489	2005	112
Dominican Rep.	-0.71269	2005	113
Ethiopia	-0.72662	2005	114
Saint Lucia	-0.73639	2005	115
Iceland	-0.74966	2005	116
Cambodia	-0.75398	2005	117
Mozambique	-0.76096	2005	118
Algeria	-0.76959	2005	119
Azerbaijan	-0.77243	2005	120
Antigua and Barbuda	-0.81355	2005	121
Cuba	-0.81434	2005	122
Panama	-0.82938	2005	123
Mongolia	-0.84191	2005	124
China, Macao SAR	-0.87189	2005	125
Togo	-0.8751	2005	126
Cabo Verde	-0.89174	2005	127
Ghana	-0.8935	2005	128
Oman	-0.90674	2005	129
French Polynesia	-0.9255	2005	130
Maldives	-0.96247	2005	131
Timor-Leste	-1.01153	2005	132
Burkina Faso	-1.02312	2005	133
Yemen	-1.05733	2005	134
Niger	-1.0661	2005	135
Saint Vincent and the Grenadines	-1.1031	2005	136
Netherlands Antilles (...2010)	-1.10673	2005	137
Gabon	-1.1789	2005	138
Angola	-1.18392	2005	139
Suriname	-1.26793	2005	140
Grenada	-1.28189	2005	141
Benin	-1.28235	2005	142
Mali	-1.28354	2005	143
Rwanda	-1.31389	2005	144
Mayotte (Overseas France)	-1.32663	2005	145
Bhutan	-1.35462	2005	146
Burundi	-1.38601	2005	147
Saint Kitts and Nevis	-1.41284	2005	148
Dominica	-1.43743	2005	149
Belize	-1.44278	2005	150
Samoa	-1.4933	2005	151
Seychelles	-1.56794	2005	152
Greenland	-1.58304	2005	153
Central African Rep.	-1.59229	2005	154
Guinea	-1.6125	2005	155
Montserrat	-1.67151	2005	156
Gambia	-1.67833	2005	157
Kiribati	-1.69364	2005	158
Aruba	-1.69601	2005	159
Bahamas	-1.70209	2005	160
Comoros	-1.7127	2005	161
Faeroe Isds	-1.72679	2005	162
Sudan (...2011)	-1.73234	2005	163
Sao Tome and Principe	-1.74045	2005	164

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Country	BCI	Year	Rank
Cook Isds	-1.74427	2005	165
USA	1.311625	2006	1
China	1.294082	2006	2
United Kingdom	1.265725	2006	3
Czechia	1.260515	2006	4
China, Hong Kong SAR	1.260074	2006	5
Turkey	1.255871	2006	6
Portugal	1.250206	2006	7
Poland	1.242222	2006	8
India	1.23841	2006	9
Denmark	1.234727	2006	10
France	1.230705	2006	11
Netherlands	1.230144	2006	12
Italy	1.229808	2006	13
Other Asia, nes	1.229114	2006	14
Austria	1.228853	2006	15
Canada	1.219115	2006	16
Thailand	1.217571	2006	17
Japan	1.217239	2006	18
Belgium	1.212901	2006	19
South Africa	1.208272	2006	20
Germany	1.206643	2006	21
Switzerland	1.201913	2006	22
Rep. of Korea	1.176953	2006	23
Australia	1.17019	2006	24
Romania	1.168002	2006	25
Singapore	1.165611	2006	26
Slovenia	1.160168	2006	27
Mexico	1.15402	2006	28
Greece	1.138077	2006	29
Bulgaria	1.133276	2006	30
Sweden	1.130857	2006	31
Argentina	1.104482	2006	32
Finland	1.100311	2006	33
Lithuania	1.095454	2006	34
New Zealand	1.051881	2006	35
Russian Federation	1.033043	2006	36
Malaysia	1.027076	2006	37
Croatia	1.019959	2006	38
Serbia	0.999608	2006	39
Estonia	0.995849	2006	40
Pakistan	0.970446	2006	41
Colombia	0.964297	2006	42
Spain	0.96362	2006	43
Brazil	0.946155	2006	44
Indonesia	0.905589	2006	45
Peru	0.879308	2006	46
Kenya	0.867899	2006	47
Belarus	0.858578	2006	48
Norway	0.85625	2006	49
Sri Lanka	0.836567	2006	50
Latvia	0.821475	2006	51
Hungary	0.79073	2006	52
Guatemala	0.745156	2006	53
Morocco	0.721826	2006	54
Viet Nam	0.706201	2006	55
Tunisia	0.703627	2006	56
Mauritius	0.701369	2006	57
Syria	0.684721	2006	58
North Macedonia	0.664644	2006	59
Slovakia	0.661044	2006	60
Bosnia Herzegovina	0.626434	2006	61
Ukraine	0.599142	2006	62
Ireland	0.578824	2006	63
Luxembourg	0.578055	2006	64
Panama	0.564607	2006	65
Lebanon	0.560296	2006	66
El Salvador	0.536319	2006	67
Chile	0.500902	2006	68
Namibia	0.468312	2006	69
Iran	0.451025	2006	70
Bangladesh	0.442659	2006	71
Philippines	0.385089	2006	72
Trinidad and Tobago	0.359521	2006	73
Ecuador	0.350898	2006	74
Eswatini	0.332465	2006	75

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Country	BCI	Year	Rank
Costa Rica	0.273014	2006	76
Kuwait	0.268566	2006	77
Israel	0.243524	2006	78
Madagascar	0.241669	2006	79
Fiji	0.224204	2006	80
Rep. of Moldova	0.207795	2006	81
Jordan	0.171853	2006	82
Botswana	0.136389	2006	83
Kazakhstan	0.048883	2006	84
Cyprus	0.016593	2006	85
Zimbabwe	-0.01035	2006	86
Honduras	-0.01145	2006	87
Barbados	-0.10024	2006	88
Venezuela	-0.10656	2006	89
United Rep. of Tanzania	-0.10667	2006	90
Uruguay	-0.14412	2006	91
Nicaragua	-0.2092	2006	92
Senegal	-0.21504	2006	93
Albania	-0.24169	2006	94
Kyrgyzstan	-0.25688	2006	95
Bolivia (Plurinational State of)	-0.25703	2006	96
Saudi Arabia	-0.28725	2006	97
Egypt	-0.30009	2006	98
Ivory Coast	-0.31798	2006	99
Paraguay	-0.34839	2006	100
Brunei Darussalam	-0.37343	2006	101
New Caledonia	-0.37835	2006	102
Bahrain	-0.4467	2006	103
Zambia	-0.45449	2006	104
Armenia	-0.48287	2006	105
Malta	-0.48325	2006	106
Uganda	-0.48814	2006	107
Guyana	-0.4974	2006	108
Mongolia	-0.50694	2006	109
Lesotho	-0.52945	2006	110
Qatar	-0.55245	2006	111
Jamaica	-0.55617	2006	112
Dominican Rep.	-0.55617	2006	113
Mozambique	-0.60088	2006	114
Georgia	-0.63815	2006	115
Andorra	-0.68599	2006	116
Malawi	-0.69186	2006	117
China, Macao SAR	-0.73784	2006	118
Montenegro	-0.74156	2006	119
Saint Lucia	-0.75441	2006	120
Azerbaijan	-0.75771	2006	121
Iceland	-0.7657	2006	122
Cameroon	-0.80295	2006	123
French Polynesia	-0.81856	2006	124
Cambodia	-0.86271	2006	125
Niger	-0.88278	2006	126
Bahamas	-0.90476	2006	127
Algeria	-0.91042	2006	128
Cuba	-0.92045	2006	129
Ghana	-0.93376	2006	130
Oman	-0.97959	2006	131
Yemen	-1.00533	2006	132
Netherlands Antilles (...2010)	-1.01412	2006	133
Cabo Verde	-1.0569	2006	134
Mali	-1.13957	2006	135
Ethiopia	-1.20755	2006	136
Saint Vincent and the Grenadines	-1.25705	2006	137
Burkina Faso	-1.29728	2006	138
Suriname	-1.31671	2006	139
Belize	-1.32121	2006	140
Benin	-1.33965	2006	141
Gabon	-1.34419	2006	142
Grenada	-1.38212	2006	143
Angola	-1.39452	2006	144
Mayotte (Overseas France)	-1.427	2006	145
Saint Kitts and Nevis	-1.48348	2006	146
Nigeria	-1.49376	2006	147
Rwanda	-1.50082	2006	148
Bhutan	-1.51299	2006	149
Greenland	-1.53901	2006	150
Burundi	-1.5451	2006	151

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Country	BCI	Year	Rank
Dominica	-1.57891	2006	152
Faeroe Isds	-1.58995	2006	153
Vanuatu	-1.61956	2006	154
Samoa	-1.63415	2006	155
Seychelles	-1.63696	2006	156
Anguilla	-1.66373	2006	157
Guinea	-1.72437	2006	158
Sudan (...2011)	-1.74799	2006	159
Gambia	-1.79349	2006	160
Montserrat	-1.80332	2006	161
Central African Rep.	-1.8304	2006	162
Comoros	-1.83254	2006	163
Sao Tome and Principe	-1.84453	2006	164
Other Asia, nes	1.35709	2007	1
USA	1.333294	2007	2
United Kingdom	1.302825	2007	3
India	1.287016	2007	4
Czechia	1.283401	2007	5
Poland	1.281685	2007	6
Turkey	1.279463	2007	7
Thailand	1.26648	2007	8
Portugal	1.262385	2007	9
Italy	1.260067	2007	10
Denmark	1.25633	2007	11
Austria	1.252404	2007	12
Slovenia	1.231457	2007	13
South Africa	1.227683	2007	14
United Arab Emirates	1.222007	2007	15
China	1.219187	2007	16
China, Hong Kong SAR	1.214007	2007	17
Greece	1.213914	2007	18
Switzerland	1.21348	2007	19
Romania	1.207879	2007	20
Germany	1.205555	2007	21
Japan	1.201158	2007	22
France	1.200561	2007	23
Netherlands	1.188164	2007	24
Mexico	1.171836	2007	25
Bulgaria	1.162563	2007	26
Australia	1.157932	2007	27
Rep. of Korea	1.156561	2007	28
Belgium	1.150992	2007	29
Lithuania	1.148683	2007	30
Argentina	1.114147	2007	31
Sweden	1.099381	2007	32
Canada	1.093817	2007	33
Finland	1.082672	2007	34
Malaysia	1.081025	2007	35
Croatia	1.060716	2007	36
Spain	1.060343	2007	37
Pakistan	1.055469	2007	38
Russian Federation	1.052733	2007	39
New Zealand	1.024479	2007	40
Singapore	1.016494	2007	41
Peru	0.976977	2007	42
Estonia	0.969358	2007	43
Colombia	0.953271	2007	44
Brazil	0.946098	2007	45
Serbia	0.945728	2007	46
Kenya	0.918271	2007	47
Latvia	0.902254	2007	48
Sri Lanka	0.881753	2007	49
Morocco	0.862712	2007	50
Belarus	0.855851	2007	51
Indonesia	0.854597	2007	52
Norway	0.805442	2007	53
Guatemala	0.77989	2007	54
Mauritius	0.778047	2007	55
Tunisia	0.775126	2007	56
North Macedonia	0.715859	2007	57
Ukraine	0.710296	2007	58
Hungary	0.685804	2007	59
Philippines	0.651856	2007	60
Bosnia Herzegovina	0.645565	2007	61
Ireland	0.636124	2007	62
Viet Nam	0.60066	2007	63

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Country	BCI	Year	Rank
Slovakia	0.599614	2007	64
Luxembourg	0.593471	2007	65
Bangladesh	0.564674	2007	66
Panama	0.55132	2007	67
Lebanon	0.540079	2007	68
El Salvador	0.520817	2007	69
Chile	0.437781	2007	70
Namibia	0.432003	2007	71
Ecuador	0.391279	2007	72
Trinidad and Tobago	0.388407	2007	73
Rep. of Moldova	0.386466	2007	74
Madagascar	0.311325	2007	75
Costa Rica	0.265414	2007	76
Zimbabwe	0.215153	2007	77
Jordan	0.202627	2007	78
Fiji	0.183707	2007	79
Eswatini	0.150286	2007	80
United Rep. of Tanzania	0.092967	2007	81
Botswana	0.091875	2007	82
Honduras	0.050747	2007	83
Kazakhstan	0.006934	2007	84
Cyprus	-0.00488	2007	85
Uganda	-0.00708	2007	86
Israel	-0.0277	2007	87
Kuwait	-0.02824	2007	88
Syria	-0.05473	2007	89
Egypt	-0.06015	2007	90
Uruguay	-0.12075	2007	91
Senegal	-0.15669	2007	92
Nicaragua	-0.19544	2007	93
Barbados	-0.20771	2007	94
Kyrgyzstan	-0.22536	2007	95
Paraguay	-0.24877	2007	96
Bolivia (Plurinational State of)	-0.25432	2007	97
Saudi Arabia	-0.26526	2007	98
Zambia	-0.29562	2007	99
Albania	-0.29602	2007	100
Georgia	-0.31793	2007	101
Ivory Coast	-0.31857	2007	102
Jamaica	-0.34797	2007	103
New Caledonia	-0.35901	2007	104
Guyana	-0.41164	2007	105
Brunei Darussalam	-0.42791	2007	106
Bahrain	-0.44412	2007	107
Dominican Rep.	-0.48407	2007	108
Armenia	-0.4869	2007	109
Montenegro	-0.52337	2007	110
Cameroon	-0.5316	2007	111
Malta	-0.58441	2007	112
Malawi	-0.58949	2007	113
Lesotho	-0.61254	2007	114
Andorra	-0.62601	2007	115
Iceland	-0.63013	2007	116
Ethiopia	-0.64853	2007	117
Ghana	-0.64945	2007	118
Qatar	-0.66061	2007	119
French Polynesia	-0.67564	2007	120
China, Macao SAR	-0.70372	2007	121
Cambodia	-0.71987	2007	122
Cabo Verde	-0.72961	2007	123
Antigua and Barbuda	-0.79768	2007	124
Mozambique	-0.81137	2007	125
Netherlands Antilles (...2010)	-0.85786	2007	126
Algeria	-0.89259	2007	127
Oman	-0.90897	2007	128
Burkina Faso	-0.93488	2007	129
Azerbaijan	-0.94596	2007	130
State of Palestine	-0.94984	2007	131
Saint Lucia	-0.97776	2007	132
Bahamas	-1.00608	2007	133
Yemen	-1.01405	2007	134
Mongolia	-1.02045	2007	135
Mali	-1.03641	2007	136
Nigeria	-1.12832	2007	137
Togo	-1.13785	2007	138
Suriname	-1.1541	2007	139

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Country	BCI	Year	Rank
Rwanda	-1.22789	2007	140
Niger	-1.23844	2007	141
Benin	-1.244	2007	142
Burundi	-1.25853	2007	143
Saint Vincent and the Grenadines	-1.27582	2007	144
Gabon	-1.34646	2007	145
Grenada	-1.35161	2007	146
Dominica	-1.40662	2007	147
Saint Kitts and Nevis	-1.41936	2007	148
Congo	-1.43631	2007	149
Vanuatu	-1.45649	2007	150
Seychelles	-1.46538	2007	151
Belize	-1.48339	2007	152
Bhutan	-1.51743	2007	153
Mayotte (Overseas France)	-1.53964	2007	154
Faeroe Isds	-1.55768	2007	155
Samoa	-1.58529	2007	156
Greenland	-1.61156	2007	157
Guinea	-1.65381	2007	158
Anguilla	-1.65543	2007	159
Gambia	-1.71681	2007	160
Libya	-1.71898	2007	161
Sudan (...2011)	-1.7693	2007	162
Kiribati	-1.77587	2007	163
Central African Rep.	-1.80066	2007	164
Montserrat	-1.80686	2007	165
Sao Tome and Principe	-1.83002	2007	166
Comoros	-1.83025	2007	167
Czechia	1.406324	2008	1
United Kingdom	1.398857	2008	2
Portugal	1.382203	2008	3
Turkey	1.37678	2008	4
China, Hong Kong SAR	1.372277	2008	5
Poland	1.368498	2008	6
Denmark	1.36799	2008	7
USA	1.34936	2008	8
China	1.344493	2008	9
South Africa	1.321597	2008	10
Austria	1.320424	2008	11
Greece	1.30892	2008	12
Slovenia	1.301474	2008	13
Japan	1.297178	2008	14
France	1.297088	2008	15
Italy	1.291403	2008	16
Rep. of Korea	1.28466	2008	17
Netherlands	1.27752	2008	18
Thailand	1.269624	2008	19
Australia	1.266163	2008	20
Belgium	1.249863	2008	21
Switzerland	1.248929	2008	22
Mexico	1.237966	2008	23
Romania	1.235713	2008	24
Bulgaria	1.23505	2008	25
United Arab Emirates	1.206557	2008	26
Argentina	1.190931	2008	27
Spain	1.172197	2008	28
Sweden	1.170676	2008	29
Croatia	1.147515	2008	30
Singapore	1.130505	2008	31
Lithuania	1.127804	2008	32
Finland	1.094536	2008	33
New Zealand	1.093611	2008	34
Peru	1.063015	2008	35
Pakistan	1.054051	2008	36
India	1.046731	2008	37
Serbia	1.042257	2008	38
Brazil	1.019062	2008	39
Germany	1.018036	2008	40
Colombia	1.015865	2008	41
Russian Federation	1.006154	2008	42
Other Asia, nes	0.994959	2008	43
Estonia	0.957753	2008	44
Latvia	0.933816	2008	45
Canada	0.923648	2008	46
Malaysia	0.895298	2008	47
Belarus	0.890699	2008	48

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Country	BCI	Year	Rank
Kenya	0.86902	2008	49
Tunisia	0.824568	2008	50
Guatemala	0.819208	2008	51
Norway	0.80781	2008	52
Ukraine	0.796979	2008	53
North Macedonia	0.758499	2008	54
Hungary	0.755399	2008	55
Sri Lanka	0.725855	2008	56
Indonesia	0.620075	2008	57
Mauritius	0.611768	2008	58
Luxembourg	0.59973	2008	59
Slovakia	0.57496	2008	60
El Salvador	0.569237	2008	61
Morocco	0.56643	2008	62
Bosnia Herzegovina	0.555672	2008	63
Ireland	0.553193	2008	64
Chile	0.528708	2008	65
Namibia	0.492105	2008	66
Viet Nam	0.491134	2008	67
Bangladesh	0.455359	2008	68
Lebanon	0.447407	2008	69
Egypt	0.417612	2008	70
Panama	0.402812	2008	71
Ecuador	0.30465	2008	72
Israel	0.304237	2008	73
Eswatini	0.287011	2008	74
Costa Rica	0.251291	2008	75
Trinidad and Tobago	0.237698	2008	76
Madagascar	0.212776	2008	77
Philippines	0.170958	2008	78
Rep. of Moldova	0.153682	2008	79
Jordan	0.151071	2008	80
Uruguay	0.076178	2008	81
United Rep. of Tanzania	0.050076	2008	82
Kazakhstan	-0.04855	2008	83
Saudi Arabia	-0.05135	2008	84
Nicaragua	-0.05934	2008	85
Venezuela	-0.07925	2008	86
Fiji	-0.09052	2008	87
Cyprus	-0.10145	2008	88
Botswana	-0.12564	2008	89
Uganda	-0.14562	2008	90
Syria	-0.16545	2008	91
Senegal	-0.17461	2008	92
Kuwait	-0.19335	2008	93
Zimbabwe	-0.21365	2008	94
Albania	-0.24578	2008	95
Zambia	-0.25393	2008	96
Paraguay	-0.27951	2008	97
Bahrain	-0.29553	2008	98
Bolivia (Plurinational State of)	-0.32269	2008	99
Ivory Coast	-0.34523	2008	100
Armenia	-0.34877	2008	101
New Caledonia	-0.36049	2008	102
Barbados	-0.38458	2008	103
Kyrgyzstan	-0.43662	2008	104
Iceland	-0.44888	2008	105
Malta	-0.45214	2008	106
Montenegro	-0.45614	2008	107
Georgia	-0.48893	2008	108
Dominican Rep.	-0.4955	2008	109
Ghana	-0.49619	2008	110
Jamaica	-0.51963	2008	111
Guyana	-0.54968	2008	112
Ethiopia	-0.58412	2008	113
Brunei Darussalam	-0.58534	2008	114
Saint Lucia	-0.60083	2008	115
Cameroon	-0.60708	2008	116
Oman	-0.61451	2008	117
Togo	-0.63222	2008	118
Lesotho	-0.66256	2008	119
Angola	-0.67134	2008	120
China, Macao SAR	-0.67542	2008	121
Andorra	-0.69884	2008	122
Algeria	-0.73448	2008	123
Yemen	-0.74631	2008	124

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Country	BCI	Year	Rank
Malawi	-0.77461	2008	125
Cambodia	-0.78801	2008	126
Mozambique	-0.86236	2008	127
Bahamas	-0.88845	2008	128
Mali	-0.91522	2008	129
State of Palestine	-0.91653	2008	130
Nigeria	-0.94383	2008	131
Azerbaijan	-0.94973	2008	132
Netherlands Antilles (...2010)	-0.96228	2008	133
French Polynesia	-1.02232	2008	134
Burkina Faso	-1.05164	2008	135
Gabon	-1.11167	2008	136
Niger	-1.17929	2008	137
Congo	-1.18364	2008	138
Rwanda	-1.20306	2008	139
Suriname	-1.2342	2008	140
Benin	-1.27845	2008	141
Mayotte (Overseas France)	-1.30413	2008	142
Saint Vincent and the Grenadines	-1.3199	2008	143
Seychelles	-1.35367	2008	144
Faeroe Isds	-1.3996	2008	145
Greenland	-1.40844	2008	146
Grenada	-1.4218	2008	147
Dominica	-1.42314	2008	148
Guinea	-1.44282	2008	149
Burundi	-1.44826	2008	150
Gambia	-1.45587	2008	151
Belize	-1.45789	2008	152
Sudan (...2011)	-1.50827	2008	153
Anguilla	-1.51996	2008	154
Samoa	-1.53925	2008	155
Bhutan	-1.57931	2008	156
Saint Kitts and Nevis	-1.58303	2008	157
Tonga	-1.60455	2008	158
Cook Isds	-1.60765	2008	159
Qatar	-1.63722	2008	160
Comoros	-1.64171	2008	161
Libya	-1.64322	2008	162
Maldives	-1.66129	2008	163
Central African Rep.	-1.68128	2008	164
Montserrat	-1.69804	2008	165
Mauritania	-1.69826	2008	166
Sao Tome and Principe	-1.7033	2008	167
USA	1.355263	2009	1
Turkey	1.353348	2009	2
Czechia	1.341241	2009	3
Poland	1.337272	2009	4
Thailand	1.335335	2009	5
China, Hong Kong SAR	1.325929	2009	6
Portugal	1.323599	2009	7
Denmark	1.317542	2009	8
Austria	1.310502	2009	9
Japan	1.308937	2009	10
Other Asia, nes	1.304002	2009	11
Italy	1.299463	2009	12
India	1.297587	2009	13
United Kingdom	1.274558	2009	14
China	1.268686	2009	15
Greece	1.267714	2009	16
Slovenia	1.259724	2009	17
South Africa	1.238648	2009	18
Australia	1.23858	2009	19
France	1.236459	2009	20
Canada	1.228926	2009	21
Romania	1.21957	2009	22
Rep. of Korea	1.20328	2009	23
Lithuania	1.188681	2009	24
Spain	1.179486	2009	25
Malaysia	1.16701	2009	26
Switzerland	1.164286	2009	27
Belgium	1.161741	2009	28
Bulgaria	1.1456	2009	29
Sweden	1.135694	2009	30
Finland	1.122785	2009	31
Argentina	1.115195	2009	32
New Zealand	1.111203	2009	33

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Country	BCI	Year	Rank
Mexico	1.095591	2009	34
Singapore	1.081807	2009	35
Croatia	1.072025	2009	36
Brazil	1.067392	2009	37
Russian Federation	1.064693	2009	38
Serbia	1.001881	2009	39
Peru	0.983024	2009	40
Slovakia	0.970895	2009	41
Pakistan	0.967429	2009	42
Colombia	0.965013	2009	43
Latvia	0.939436	2009	44
Estonia	0.930622	2009	45
Germany	0.901456	2009	46
Belarus	0.882498	2009	47
Norway	0.872948	2009	48
Guatemala	0.867699	2009	49
Kenya	0.855913	2009	50
Tunisia	0.853699	2009	51
Netherlands	0.808142	2009	52
North Macedonia	0.774302	2009	53
Sri Lanka	0.751353	2009	54
Hungary	0.732268	2009	55
Mauritius	0.708018	2009	56
Luxembourg	0.701288	2009	57
El Salvador	0.680763	2009	58
Bosnia Herzegovina	0.675152	2009	59
Bangladesh	0.607672	2009	60
Ireland	0.57737	2009	61
Ukraine	0.571059	2009	62
Lebanon	0.556339	2009	63
Namibia	0.527953	2009	64
Viet Nam	0.513864	2009	65
Egypt	0.507446	2009	66
Syria	0.482879	2009	67
Chile	0.477742	2009	68
Panama	0.446737	2009	69
Morocco	0.432383	2009	70
Indonesia	0.428481	2009	71
Ecuador	0.368397	2009	72
Rep. of Moldova	0.348815	2009	73
Costa Rica	0.331994	2009	74
Madagascar	0.302556	2009	75
Trinidad and Tobago	0.286883	2009	76
Kazakhstan	0.254347	2009	77
Philippines	0.155896	2009	78
Israel	0.125889	2009	79
Uruguay	0.111293	2009	80
Honduras	0.104685	2009	81
Eswatini	0.100741	2009	82
United Rep. of Tanzania	0.075135	2009	83
Fiji	0.046749	2009	84
Botswana	0.028303	2009	85
Nicaragua	-0.01288	2009	86
Uganda	-0.04165	2009	87
Cyprus	-0.04835	2009	88
Albania	-0.07509	2009	89
Jordan	-0.18481	2009	90
Montenegro	-0.19921	2009	91
Ivory Coast	-0.2167	2009	92
Georgia	-0.25533	2009	93
Bolivia (Plurinational State of)	-0.25754	2009	94
Bahrain	-0.2642	2009	95
Barbados	-0.27	2009	96
Kuwait	-0.27759	2009	97
Saudi Arabia	-0.28056	2009	98
Malta	-0.28185	2009	99
Paraguay	-0.29967	2009	100
Armenia	-0.32487	2009	101
Zambia	-0.33262	2009	102
Zimbabwe	-0.34866	2009	103
Nepal	-0.36775	2009	104
Dominican Rep.	-0.38193	2009	105
Kyrgyzstan	-0.38204	2009	106
Brunei Darussalam	-0.42005	2009	107
Senegal	-0.42583	2009	108
Jamaica	-0.42879	2009	109

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Country	BCI	Year	Rank
Guyana	-0.4673	2009	110
Venezuela	-0.47337	2009	111
Iceland	-0.49716	2009	112
New Caledonia	-0.50906	2009	113
Aruba	-0.59839	2009	114
Ethiopia	-0.60245	2009	115
Saint Lucia	-0.60667	2009	116
Malawi	-0.60832	2009	117
Oman	-0.64386	2009	118
China, Macao SAR	-0.64573	2009	119
Andorra	-0.66234	2009	120
Yemen	-0.67674	2009	121
Cameroon	-0.72375	2009	122
Qatar	-0.72638	2009	123
French Polynesia	-0.78325	2009	124
Ghana	-0.80279	2009	125
Cabo Verde	-0.82148	2009	126
Bahamas	-0.83581	2009	127
Cambodia	-0.84277	2009	128
Togo	-0.85376	2009	129
Azerbaijan	-0.91092	2009	130
Lesotho	-0.92921	2009	131
Antigua and Barbuda	-0.96994	2009	132
Algeria	-0.98371	2009	133
State of Palestine	-1.01756	2009	134
Mozambique	-1.03193	2009	135
Nigeria	-1.05031	2009	136
Burkina Faso	-1.05403	2009	137
Niger	-1.0542	2009	138
Saint Vincent and the Grenadines	-1.07187	2009	139
Suriname	-1.11827	2009	140
Rwanda	-1.22166	2009	141
Benin	-1.23535	2009	142
Mayotte (Overseas France)	-1.28754	2009	143
Congo	-1.30218	2009	144
Gabon	-1.32252	2009	145
Dominica	-1.37073	2009	146
Vanuatu	-1.42043	2009	147
Bhutan	-1.43775	2009	148
Saint Kitts and Nevis	-1.46391	2009	149
Faeroe Isds	-1.46479	2009	150
Djibouti	-1.48469	2009	151
Burundi	-1.52774	2009	152
Seychelles	-1.54935	2009	153
Samoa	-1.55913	2009	154
Belize	-1.59088	2009	155
Greenland	-1.6503	2009	156
Comoros	-1.66468	2009	157
Sudan (...2011)	-1.66481	2009	158
Gambia	-1.72802	2009	159
Libya	-1.73774	2009	160
Tonga	-1.76439	2009	161
Kiribati	-1.77452	2009	162
Sao Tome and Principe	-1.77879	2009	163
Cook Isds	-1.78017	2009	164
Central African Rep.	-1.78826	2009	165
Solomon Isds	-1.79199	2009	166
Montserrat	-1.8011	2009	167
China	1.369705	2010	1
USA	1.357458	2010	2
Turkey	1.35497	2010	3
United Kingdom	1.339619	2010	4
Italy	1.333205	2010	5
Czechia	1.331825	2010	6
Poland	1.316479	2010	7
Switzerland	1.311829	2010	8
Belgium	1.306805	2010	9
China, Hong Kong SAR	1.300017	2010	10
Austria	1.296874	2010	11
Portugal	1.296688	2010	12
Other Asia, nes	1.29017	2010	13
Denmark	1.289685	2010	14
Thailand	1.28961	2010	15
Greece	1.242226	2010	16
Slovenia	1.228175	2010	17
Japan	1.20933	2010	18

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Country	BCI	Year	Rank
Romania	1.200237	2010	19
Netherlands	1.199276	2010	20
Canada	1.193246	2010	21
Indonesia	1.18832	2010	22
France	1.185774	2010	23
Australia	1.185658	2010	24
Rep. of Korea	1.181581	2010	25
Lithuania	1.163482	2010	26
Malaysia	1.140949	2010	27
Sweden	1.140413	2010	28
Bulgaria	1.113979	2010	29
Mexico	1.107053	2010	30
Spain	1.101583	2010	31
Finland	1.080768	2010	32
South Africa	1.06748	2010	33
Argentina	1.052034	2010	34
Hungary	1.044026	2010	35
Peru	1.02846	2010	36
Latvia	1.000211	2010	37
Brazil	0.994485	2010	38
Croatia	0.993101	2010	39
Estonia	0.990632	2010	40
Pakistan	0.977399	2010	41
Germany	0.975029	2010	42
Singapore	0.967363	2010	43
Russian Federation	0.966726	2010	44
Colombia	0.95131	2010	45
Serbia	0.920673	2010	46
Belarus	0.91766	2010	47
Norway	0.89932	2010	48
Egypt	0.883022	2010	49
Slovakia	0.876201	2010	50
Guatemala	0.865082	2010	51
India	0.860298	2010	52
Kenya	0.855339	2010	53
New Zealand	0.803515	2010	54
Sri Lanka	0.782067	2010	55
North Macedonia	0.755424	2010	56
Syria	0.74455	2010	57
Tunisia	0.740513	2010	58
Mauritius	0.720053	2010	59
El Salvador	0.710562	2010	60
Bosnia Herzegovina	0.705727	2010	61
Ireland	0.642923	2010	62
Luxembourg	0.633272	2010	63
Panama	0.613605	2010	64
Namibia	0.578289	2010	65
Bangladesh	0.550665	2010	66
Viet Nam	0.537588	2010	67
Lebanon	0.536253	2010	68
Ukraine	0.523914	2010	69
Chile	0.424209	2010	70
Madagascar	0.376701	2010	71
Costa Rica	0.364355	2010	72
Morocco	0.344272	2010	73
Israel	0.283268	2010	74
Rep. of Moldova	0.260249	2010	75
Ecuador	0.248548	2010	76
Eswatini	0.214982	2010	77
Trinidad and Tobago	0.212154	2010	78
Fiji	0.172371	2010	79
Jordan	0.123325	2010	80
Albania	0.073421	2010	81
Uruguay	0.026123	2010	82
United Rep. of Tanzania	0.02523	2010	83
Kazakhstan	0.014016	2010	84
Uganda	0.002254	2010	85
Philippines	-0.07275	2010	86
Nicaragua	-0.09031	2010	87
Brunei Darussalam	-0.09514	2010	88
Honduras	-0.11183	2010	89
Saudi Arabia	-0.14849	2010	90
Iran	-0.15939	2010	91
Georgia	-0.16286	2010	92
Ethiopia	-0.16469	2010	93
Kyrgyzstan	-0.173	2010	94

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Country	BCI	Year	Rank
Bahrain	-0.21455	2010	95
Cyprus	-0.23777	2010	96
Paraguay	-0.29167	2010	97
Zimbabwe	-0.31058	2010	98
Bolivia (Plurinational State of)	-0.33384	2010	99
Botswana	-0.33713	2010	100
Kuwait	-0.33927	2010	101
Senegal	-0.33981	2010	102
Ivory Coast	-0.34334	2010	103
Montenegro	-0.3647	2010	104
Jamaica	-0.36802	2010	105
Barbados	-0.43343	2010	106
New Caledonia	-0.46335	2010	107
Nepal	-0.48739	2010	108
Oman	-0.51447	2010	109
Ghana	-0.52218	2010	110
Malta	-0.52801	2010	111
Dominican Rep.	-0.52801	2010	112
Guyana	-0.53384	2010	113
Iceland	-0.57999	2010	114
Malawi	-0.61694	2010	115
Cambodia	-0.61697	2010	116
Armenia	-0.62255	2010	117
Andorra	-0.65919	2010	118
Venezuela	-0.66879	2010	119
Saint Lucia	-0.6908	2010	120
Cameroon	-0.75087	2010	121
Cabo Verde	-0.75712	2010	122
Zambia	-0.7694	2010	123
Bahamas	-0.78571	2010	124
French Polynesia	-0.81399	2010	125
China, Macao SAR	-0.81452	2010	126
Lesotho	-0.86898	2010	127
Lao People's Dem. Rep.	-0.86968	2010	128
Yemen	-0.87191	2010	129
Aruba	-0.87475	2010	130
Mali	-0.90804	2010	131
Algeria	-1.02334	2010	132
Saint Vincent and the Grenadines	-1.03178	2010	133
Suriname	-1.04903	2010	134
Azerbaijan	-1.06743	2010	135
Togo	-1.0745	2010	136
Nigeria	-1.09712	2010	137
Antigua and Barbuda	-1.10208	2010	138
State of Palestine	-1.1315	2010	139
Rwanda	-1.17563	2010	140
Gabon	-1.18613	2010	141
Mozambique	-1.21056	2010	142
Burkina Faso	-1.21297	2010	143
Niger	-1.28784	2010	144
Grenada	-1.29187	2010	145
Saint Kitts and Nevis	-1.37451	2010	146
Vanuatu	-1.38126	2010	147
Congo	-1.38809	2010	148
Benin	-1.39611	2010	149
Dominica	-1.40022	2010	150
Myanmar	-1.4627	2010	151
Belize	-1.47123	2010	152
Burundi	-1.53033	2010	153
Samoa	-1.53601	2010	154
Greenland	-1.55027	2010	155
Seychelles	-1.57329	2010	156
Sudan (...2011)	-1.58797	2010	157
Gambia	-1.59382	2010	158
Bhutan	-1.64342	2010	159
Tonga	-1.6912	2010	160
Qatar	-1.78845	2010	161
Libya	-1.80474	2010	162
Comoros	-1.81048	2010	163
Central African Rep.	-1.81392	2010	164
Iraq	-1.8319	2010	165
Montserrat	-1.84682	2010	166
Cook Isds	-1.84868	2010	167
China	1.351012	2011	1
USA	1.330829	2011	2
Italy	1.318566	2011	3

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Country	BCI	Year	Rank
Turkey	1.317509	2011	4
Poland	1.306011	2011	5
Thailand	1.30222	2011	6
Czechia	1.301222	2011	7
Switzerland	1.298589	2011	8
United Kingdom	1.297232	2011	9
Austria	1.288687	2011	10
Germany	1.283444	2011	11
Japan	1.282817	2011	12
Denmark	1.274953	2011	13
Other Asia, nes	1.273303	2011	14
China, Hong Kong SAR	1.264432	2011	15
India	1.253343	2011	16
Belgium	1.232416	2011	17
Greece	1.224653	2011	18
France	1.219025	2011	19
Romania	1.216381	2011	20
Australia	1.211798	2011	21
Portugal	1.193252	2011	22
Slovenia	1.186929	2011	23
Rep. of Korea	1.178575	2011	24
Indonesia	1.167934	2011	25
Canada	1.163044	2011	26
Netherlands	1.155599	2011	27
Lithuania	1.152324	2011	28
Brazil	1.137894	2011	29
Malaysia	1.128664	2011	30
Sweden	1.115924	2011	31
Mexico	1.097261	2011	32
South Africa	1.054635	2011	33
Colombia	1.050619	2011	34
Finland	1.046586	2011	35
Argentina	1.046521	2011	36
Bulgaria	1.0406	2011	37
Russian Federation	1.028772	2011	38
Hungary	1.019388	2011	39
Serbia	1.010972	2011	40
Estonia	1.001282	2011	41
Ukraine	0.990531	2011	42
Latvia	0.989989	2011	43
Belarus	0.988002	2011	44
Peru	0.986354	2011	45
Pakistan	0.982383	2011	46
Croatia	0.950595	2011	47
Singapore	0.914998	2011	48
Spain	0.87769	2011	49
New Zealand	0.875305	2011	50
Slovakia	0.862054	2011	51
Norway	0.852535	2011	52
Tunisia	0.840178	2011	53
Guatemala	0.786715	2011	54
Egypt	0.784693	2011	55
Sri Lanka	0.773935	2011	56
North Macedonia	0.763924	2011	57
Bosnia Herzegovina	0.741593	2011	58
Mauritius	0.716099	2011	59
Ireland	0.652419	2011	60
Rep. of Moldova	0.614864	2011	61
El Salvador	0.607296	2011	62
Viet Nam	0.575201	2011	63
Lebanon	0.572874	2011	64
Namibia	0.556955	2011	65
Luxembourg	0.549776	2011	66
Bangladesh	0.545588	2011	67
Chile	0.482359	2011	68
Panama	0.475048	2011	69
Costa Rica	0.386832	2011	70
Eswatini	0.380057	2011	71
Ecuador	0.379218	2011	72
Madagascar	0.376052	2011	73
Kazakhstan	0.371117	2011	74
Morocco	0.285176	2011	75
Trinidad and Tobago	0.283431	2011	76
Fiji	0.233014	2011	77
Israel	0.183881	2011	78
Iran	0.165307	2011	79

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Country	BCI	Year	Rank
Kuwait	0.141453	2011	80
Uruguay	0.12019	2011	81
United Rep. of Tanzania	0.076786	2011	82
Uganda	0.057452	2011	83
Albania	0.041543	2011	84
Jordan	0.026743	2011	85
Honduras	0.012435	2011	86
Philippines	-0.00121	2011	87
Georgia	-0.02436	2011	88
Bahrain	-0.03808	2011	89
Nicaragua	-0.05301	2011	90
Brunei Darussalam	-0.08497	2011	91
Zimbabwe	-0.1033	2011	92
Kyrgyzstan	-0.11024	2011	93
Saudi Arabia	-0.15323	2011	94
Ethiopia	-0.19661	2011	95
Botswana	-0.20115	2011	96
Cyprus	-0.21445	2011	97
Bolivia (Plurinational State of)	-0.22448	2011	98
Paraguay	-0.28291	2011	99
Dominican Rep.	-0.31233	2011	100
Montenegro	-0.31619	2011	101
Senegal	-0.33629	2011	102
Ghana	-0.3423	2011	103
Iceland	-0.34752	2011	104
Malta	-0.3492	2011	105
Barbados	-0.41962	2011	106
Jamaica	-0.42491	2011	107
Ivory Coast	-0.4517	2011	108
Oman	-0.4719	2011	109
Guyana	-0.51154	2011	110
Zambia	-0.54833	2011	111
New Caledonia	-0.55033	2011	112
Andorra	-0.55595	2011	113
Nepal	-0.55843	2011	114
Venezuela	-0.58421	2011	115
Malawi	-0.62774	2011	116
Armenia	-0.64042	2011	117
Cabo Verde	-0.65894	2011	118
Cambodia	-0.68088	2011	119
Nigeria	-0.69707	2011	120
Cameroon	-0.74541	2011	121
Bahamas	-0.79051	2011	122
China, Macao SAR	-0.79174	2011	123
Aruba	-0.81801	2011	124
Azerbaijan	-0.8481	2011	125
Saint Lucia	-0.86772	2011	126
Mali	-0.87169	2011	127
Suriname	-0.87987	2011	128
Lao People's Dem. Rep.	-0.90643	2011	129
Papua New Guinea	-0.91135	2011	130
French Polynesia	-0.92032	2011	131
Lesotho	-0.98646	2011	132
Burkina Faso	-0.99056	2011	133
Togo	-1.00194	2011	134
Yemen	-1.00586	2011	135
Rwanda	-1.00662	2011	136
Algeria	-1.05016	2011	137
Antigua and Barbuda	-1.09187	2011	138
State of Palestine	-1.10148	2011	139
Mozambique	-1.14178	2011	140
Belize	-1.15175	2011	141
Gabon	-1.15333	2011	142
Saint Vincent and the Grenadines	-1.16224	2011	143
Congo	-1.22721	2011	144
Benin	-1.29363	2011	145
Niger	-1.31319	2011	146
Myanmar	-1.35094	2011	147
Gambia	-1.4183	2011	148
Saint Kitts and Nevis	-1.42491	2011	149
Grenada	-1.44471	2011	150
Sudan (...2011)	-1.48557	2011	151
Tonga	-1.4984	2011	152
Seychelles	-1.53401	2011	153
Vanuatu	-1.53619	2011	154
Samoa	-1.55367	2011	155

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Country	BCI	Year	Rank
Burundi	-1.57464	2011	156
Greenland	-1.58749	2011	157
Bhutan	-1.59394	2011	158
Turks and Caicos Isds	-1.64343	2011	159
Iraq	-1.73213	2011	160
Comoros	-1.75215	2011	161
Sao Tome and Principe	-1.75621	2011	162
Qatar	-1.76201	2011	163
Mauritania	-1.7672	2011	164
Solomon Isds	-1.7728	2011	165
Maldives	-1.77803	2011	166
Cook Isds	-1.78657	2011	167
Central African Rep.	-1.79951	2011	168
China	1.4081	2012	1
Turkey	1.366235	2012	2
USA	1.36394	2012	3
Italy	1.360871	2012	4
France	1.337206	2012	5
Czechia	1.336772	2012	6
Poland	1.333809	2012	7
United Kingdom	1.33043	2012	8
Thailand	1.323896	2012	9
Belgium	1.291982	2012	10
Portugal	1.279789	2012	11
Greece	1.275413	2012	12
Sweden	1.27479	2012	13
Switzerland	1.267001	2012	14
Hungary	1.266551	2012	15
India	1.264995	2012	16
Russian Federation	1.263606	2012	17
Denmark	1.261072	2012	18
Romania	1.260317	2012	19
Slovenia	1.257848	2012	20
Austria	1.250023	2012	21
United Arab Emirates	1.233181	2012	22
Japan	1.229767	2012	23
Indonesia	1.229162	2012	24
Netherlands	1.227598	2012	25
Brazil	1.219711	2012	26
Other Asia, nes	1.216202	2012	27
Mexico	1.195248	2012	28
Lithuania	1.190807	2012	29
Canada	1.181435	2012	30
South Africa	1.178739	2012	31
Singapore	1.178136	2012	32
China, Hong Kong SAR	1.175688	2012	33
Bulgaria	1.167017	2012	34
Malaysia	1.155853	2012	35
Australia	1.131633	2012	36
Spain	1.126258	2012	37
Finland	1.111287	2012	38
Colombia	1.109116	2012	39
Belarus	1.107872	2012	40
Germany	1.081735	2012	41
Estonia	1.049957	2012	42
Argentina	1.032461	2012	43
Serbia	1.03031	2012	44
Croatia	1.00816	2012	45
Norway	0.961539	2012	46
Ukraine	0.960861	2012	47
Peru	0.956083	2012	48
Tunisia	0.944123	2012	49
Sri Lanka	0.940912	2012	50
Slovakia	0.908413	2012	51
Guatemala	0.88862	2012	52
Latvia	0.882511	2012	53
Ireland	0.785053	2012	54
Rep. of Korea	0.782298	2012	55
El Salvador	0.683176	2012	56
North Macedonia	0.680574	2012	57
Mauritius	0.607517	2012	58
Rep. of Moldova	0.580429	2012	59
Namibia	0.578978	2012	60
Luxembourg	0.573002	2012	61
Bangladesh	0.530509	2012	62
Panama	0.503084	2012	63

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Country	BCI	Year	Rank
Chile	0.476304	2012	64
Egypt	0.438538	2012	65
Dominican Rep.	0.411002	2012	66
Bosnia Herzegovina	0.373152	2012	67
Madagascar	0.355213	2012	68
Trinidad and Tobago	0.345875	2012	69
Bahrain	0.342088	2012	70
Ecuador	0.286361	2012	71
Israel	0.280045	2012	72
Morocco	0.261677	2012	73
Pakistan	0.259912	2012	74
Lebanon	0.202699	2012	75
Fiji	0.153793	2012	76
Albania	0.115381	2012	77
Uganda	0.110791	2012	78
Georgia	0.071673	2012	79
United Rep. of Tanzania	0.064405	2012	80
Saudi Arabia	0.034971	2012	81
Philippines	0.030552	2012	82
Costa Rica	0.006825	2012	83
Honduras	0.00488	2012	84
Uruguay	-0.01945	2012	85
Eswatini	-0.03566	2012	86
Kazakhstan	-0.03599	2012	87
Cyprus	-0.03704	2012	88
Jordan	-0.08642	2012	89
Ethiopia	-0.09602	2012	90
Kyrgyzstan	-0.10852	2012	91
Zimbabwe	-0.1549	2012	92
Botswana	-0.17952	2012	93
Paraguay	-0.18091	2012	94
Oman	-0.2083	2012	95
Bolivia (Plurinational State of)	-0.21211	2012	96
Montenegro	-0.22437	2012	97
Ivory Coast	-0.24667	2012	98
Ghana	-0.25074	2012	99
Brunei Darussalam	-0.266	2012	100
Malta	-0.30911	2012	101
Senegal	-0.3144	2012	102
New Zealand	-0.35404	2012	103
Saint Lucia	-0.38738	2012	104
Jamaica	-0.3935	2012	105
New Caledonia	-0.39368	2012	106
Nepal	-0.4022	2012	107
Zambia	-0.43186	2012	108
Barbados	-0.48725	2012	109
Cabo Verde	-0.49606	2012	110
Cambodia	-0.54403	2012	111
Guyana	-0.55406	2012	112
Gabon	-0.55877	2012	113
Armenia	-0.56622	2012	114
Aruba	-0.56803	2012	115
Iceland	-0.58162	2012	116
Andorra	-0.58892	2012	117
Malawi	-0.66948	2012	118
Bahamas	-0.73327	2012	119
Lesotho	-0.76635	2012	120
Azerbaijan	-0.81085	2012	121
Cameroon	-0.81952	2012	122
Mali	-0.85965	2012	123
State of Palestine	-0.87882	2012	124
Suriname	-0.88712	2012	125
Algeria	-0.90329	2012	126
Yemen	-0.91609	2012	127
China, Macao SAR	-0.92899	2012	128
Mozambique	-0.94216	2012	129
Togo	-0.94304	2012	130
Antigua and Barbuda	-0.96206	2012	131
Dominica	-0.98574	2012	132
Niger	-1.03186	2012	133
Nigeria	-1.04807	2012	134
Lao People's Dem. Rep.	-1.04914	2012	135
Myanmar	-1.06408	2012	136
French Polynesia	-1.07101	2012	137
Burkina Faso	-1.07416	2012	138
Saint Vincent and the Grenadines	-1.1121	2012	139

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Country	BCI	Year	Rank
Tonga	-1.16962	2012	140
Rwanda	-1.17621	2012	141
Grenada	-1.21699	2012	142
Nicaragua	-1.24802	2012	143
Belize	-1.26668	2012	144
Congo	-1.27053	2012	145
Papua New Guinea	-1.29046	2012	146
Sudan	-1.32961	2012	147
Benin	-1.3403	2012	148
Bhutan	-1.35148	2012	149
Saint Kitts and Nevis	-1.35535	2012	150
Palau	-1.39796	2012	151
Gambia	-1.43785	2012	152
Burundi	-1.4611	2012	153
Turks and Caicos Isds	-1.52354	2012	154
Greenland	-1.53685	2012	155
Venezuela	-1.58069	2012	156
Seychelles	-1.58237	2012	157
Central African Rep.	-1.5868	2012	158
Comoros	-1.5936	2012	159
Samoa	-1.609	2012	160
Solomon Isds	-1.61333	2012	161
Viet Nam	-1.61897	2012	162
Qatar	-1.62901	2012	163
Iraq	-1.65456	2012	164
Mauritania	-1.67527	2012	165
Maldives	-1.67598	2012	166
Montserrat	-1.6899	2012	167
Sao Tome and Principe	-1.70318	2012	168
China	1.346176	2013	1
Italy	1.317739	2013	2
Turkey	1.316956	2013	3
USA	1.315504	2013	4
United Kingdom	1.315019	2013	5
France	1.293945	2013	6
Poland	1.289733	2013	7
Czechia	1.288937	2013	8
India	1.27832	2013	9
Portugal	1.276917	2013	10
Belgium	1.261692	2013	11
Thailand	1.260604	2013	12
Russian Federation	1.256089	2013	13
Romania	1.240322	2013	14
Switzerland	1.234913	2013	15
Denmark	1.230387	2013	16
Greece	1.2274	2013	17
Other Asia, nes	1.22418	2013	18
Rep. of Korea	1.219837	2013	19
Sweden	1.219064	2013	20
Hungary	1.217579	2013	21
Indonesia	1.206206	2013	22
Slovenia	1.201686	2013	23
Austria	1.199496	2013	24
Malaysia	1.191654	2013	25
Lithuania	1.174351	2013	26
Japan	1.168324	2013	27
Brazil	1.162743	2013	28
Bulgaria	1.152759	2013	29
South Africa	1.145264	2013	30
Mexico	1.135419	2013	31
Singapore	1.129653	2013	32
Australia	1.121295	2013	33
Finland	1.112369	2013	34
Spain	1.098843	2013	35
Canada	1.08549	2013	36
Slovakia	1.058629	2013	37
Belarus	1.053629	2013	38
Netherlands	1.041974	2013	39
Serbia	1.02892	2013	40
Peru	1.01529	2013	41
Pakistan	1.007873	2013	42
Germany	1.004878	2013	43
Croatia	0.980063	2013	44
Colombia	0.972287	2013	45
Estonia	0.960186	2013	46
Ukraine	0.911645	2013	47

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Country	BCI	Year	Rank
Argentina	0.906857	2013	48
Norway	0.888948	2013	49
Latvia	0.866586	2013	50
Egypt	0.834248	2013	51
Guatemala	0.831993	2013	52
China, Hong Kong SAR	0.826807	2013	53
Tunisia	0.819071	2013	54
Bosnia Herzegovina	0.773939	2013	55
Kenya	0.756109	2013	56
Mauritius	0.741333	2013	57
El Salvador	0.683434	2013	58
Ireland	0.67782	2013	59
North Macedonia	0.677197	2013	60
United Arab Emirates	0.658057	2013	61
Luxembourg	0.602233	2013	62
Namibia	0.60179	2013	63
Viet Nam	0.573719	2013	64
Rep. of Moldova	0.567046	2013	65
Bangladesh	0.563492	2013	66
Panama	0.529835	2013	67
Lebanon	0.52631	2013	68
Costa Rica	0.472699	2013	69
Dominican Rep.	0.463913	2013	70
Iran	0.381446	2013	71
Sri Lanka	0.364118	2013	72
Madagascar	0.362761	2013	73
Kuwait	0.361424	2013	74
Ecuador	0.316463	2013	75
Bahrain	0.295866	2013	76
Fiji	0.238991	2013	77
Trinidad and Tobago	0.238873	2013	78
Kazakhstan	0.217213	2013	79
Morocco	0.204524	2013	80
Israel	0.198726	2013	81
Albania	0.155445	2013	82
United Rep. of Tanzania	0.147557	2013	83
Ghana	0.143349	2013	84
Georgia	0.139788	2013	85
Uganda	0.122999	2013	86
Chile	0.109152	2013	87
Jordan	0.062048	2013	88
Oman	-0.01006	2013	89
Brunei Darussalam	-0.05752	2013	90
Philippines	-0.07787	2013	91
Cyprus	-0.079	2013	92
Uruguay	-0.10288	2013	93
Kyrgyzstan	-0.10954	2013	94
Ivory Coast	-0.13487	2013	95
Saudi Arabia	-0.19785	2013	96
Zimbabwe	-0.21505	2013	97
Eswatini	-0.22369	2013	98
Paraguay	-0.28312	2013	99
Nepal	-0.2868	2013	100
Saint Lucia	-0.35855	2013	101
Ethiopia	-0.36707	2013	102
Montenegro	-0.37466	2013	103
New Caledonia	-0.40337	2013	104
Malta	-0.40882	2013	105
Senegal	-0.41449	2013	106
Cambodia	-0.41678	2013	107
New Zealand	-0.42267	2013	108
Botswana	-0.42545	2013	109
Bolivia (Plurinational State of)	-0.42868	2013	110
Zambia	-0.44564	2013	111
Jamaica	-0.48386	2013	112
Iceland	-0.49457	2013	113
Cameroon	-0.53671	2013	114
Barbados	-0.55188	2013	115
Armenia	-0.5868	2013	116
Guyana	-0.61138	2013	117
Aruba	-0.66516	2013	118
French Polynesia	-0.6688	2013	119
Antigua and Barbuda	-0.68037	2013	120
Mozambique	-0.73287	2013	121
Gabon	-0.73359	2013	122
Venezuela	-0.7353	2013	123

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Country	BCI	Year	Rank
Andorra	-0.74472	2013	124
Malawi	-0.75495	2013	125
Bahamas	-0.83438	2013	126
Nigeria	-0.84482	2013	127
Lao People's Dem. Rep.	-0.85039	2013	128
Myanmar	-0.8531	2013	129
Mongolia	-0.88386	2013	130
Azerbaijan	-0.90494	2013	131
Rwanda	-0.91752	2013	132
Lesotho	-0.93599	2013	133
Algeria	-0.94383	2013	134
State of Palestine	-0.95744	2013	135
China, Macao SAR	-0.9645	2013	136
Togo	-0.98621	2013	137
Tonga	-1.07517	2013	138
Dominica	-1.07556	2013	139
Burkina Faso	-1.13582	2013	140
Grenada	-1.15114	2013	141
Samoa	-1.17189	2013	142
Saint Vincent and the Grenadines	-1.21531	2013	143
Benin	-1.22455	2013	144
Suriname	-1.23485	2013	145
Nicaragua	-1.30066	2013	146
Belize	-1.30227	2013	147
Bermuda	-1.32239	2013	148
Yemen	-1.36542	2013	149
Guinea	-1.4039	2013	150
Congo	-1.41449	2013	151
Niger	-1.43913	2013	152
Saint Kitts and Nevis	-1.48281	2013	153
Seychelles	-1.48508	2013	154
Burundi	-1.48849	2013	155
Greenland	-1.54429	2013	156
Gambia	-1.55074	2013	157
Sudan	-1.58764	2013	158
Sao Tome and Principe	-1.5907	2013	159
Qatar	-1.70279	2013	160
Timor-Leste	-1.7115	2013	161
Kiribati	-1.73243	2013	162
Mauritania	-1.73569	2013	163
Iraq	-1.73627	2013	164
Maldives	-1.74962	2013	165
Central African Rep.	-1.75251	2013	166
Solomon Isds	-1.75896	2013	167
Cabo Verde	-1.76039	2013	168
Montserrat	-1.77021	2013	169
Comoros	-1.7814	2013	170
Turkey	1.340219	2014	1
Italy	1.334099	2014	2
India	1.31601	2014	3
United Kingdom	1.30488	2014	4
Portugal	1.299178	2014	5
Poland	1.299055	2014	6
France	1.290043	2014	7
China	1.276289	2014	8
Czechia	1.27505	2014	9
Russian Federation	1.269682	2014	10
Romania	1.254788	2014	11
China, Hong Kong SAR	1.249205	2014	12
Thailand	1.246358	2014	13
Switzerland	1.239284	2014	14
Lithuania	1.235523	2014	15
Other Asia, nes	1.229229	2014	16
USA	1.228667	2014	17
Sweden	1.227359	2014	18
Hungary	1.223853	2014	19
Denmark	1.223384	2014	20
Austria	1.221734	2014	21
Belgium	1.219709	2014	22
Greece	1.216516	2014	23
Japan	1.210345	2014	24
Rep. of Korea	1.209457	2014	25
Brazil	1.205828	2014	26
Slovenia	1.1884	2014	27
Canada	1.187507	2014	28
South Africa	1.177127	2014	29

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Country	BCI	Year	Rank
Malaysia	1.166819	2014	30
Indonesia	1.163606	2014	31
Bulgaria	1.156575	2014	32
Australia	1.136795	2014	33
Finland	1.097809	2014	34
Croatia	1.088028	2014	35
Netherlands	1.059464	2014	36
Singapore	1.05553	2014	37
Spain	1.032261	2014	38
Slovakia	1.020134	2014	39
Serbia	1.020046	2014	40
Pakistan	1.015944	2014	41
Germany	1.004804	2014	42
Peru	1.003214	2014	43
Colombia	0.979756	2014	44
Estonia	0.976287	2014	45
Sri Lanka	0.943822	2014	46
Norway	0.939722	2014	47
Belarus	0.937302	2014	48
Ukraine	0.900181	2014	49
Latvia	0.873114	2014	50
Tunisia	0.868311	2014	51
Argentina	0.865478	2014	52
Egypt	0.837563	2014	53
Guatemala	0.836656	2014	54
Viet Nam	0.769306	2014	55
Ireland	0.745958	2014	56
Bosnia Herzegovina	0.732979	2014	57
Mauritius	0.710706	2014	58
North Macedonia	0.70258	2014	59
United Arab Emirates	0.691131	2014	60
Lebanon	0.684184	2014	61
Bahrain	0.611708	2014	62
El Salvador	0.587938	2014	63
Namibia	0.574105	2014	64
Luxembourg	0.519176	2014	65
Panama	0.507176	2014	66
Ecuador	0.388968	2014	67
Kuwait	0.364759	2014	68
Iran	0.330241	2014	69
Rep. of Moldova	0.324492	2014	70
Fiji	0.306883	2014	71
Israel	0.299399	2014	72
Costa Rica	0.296417	2014	73
Kazakhstan	0.295246	2014	74
Madagascar	0.278835	2014	75
Dominican Rep.	0.253683	2014	76
Uganda	0.218304	2014	77
Eswatini	0.201595	2014	78
Nicaragua	0.193042	2014	79
Trinidad and Tobago	0.146415	2014	80
Morocco	0.136554	2014	81
Oman	0.134724	2014	82
United Rep. of Tanzania	0.115577	2014	83
Chile	0.106588	2014	84
Honduras	0.094097	2014	85
Jordan	0.073677	2014	86
Mexico	0.026034	2014	87
Georgia	0.002012	2014	88
Botswana	-0.00961	2014	89
Uruguay	-0.01476	2014	90
Cyprus	-0.0811	2014	91
Kyrgyzstan	-0.10805	2014	92
Saudi Arabia	-0.13212	2014	93
Philippines	-0.14726	2014	94
Brunei Darussalam	-0.18141	2014	95
Zimbabwe	-0.20683	2014	96
Ivory Coast	-0.23772	2014	97
Paraguay	-0.25984	2014	98
Montenegro	-0.26171	2014	99
Nepal	-0.28436	2014	100
Ghana	-0.2964	2014	101
Bolivia (Plurinational State of)	-0.3054	2014	102
Ethiopia	-0.31067	2014	103
Senegal	-0.34754	2014	104
Saint Lucia	-0.34996	2014	105

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Country	BCI	Year	Rank
Malta	-0.43676	2014	106
New Zealand	-0.46658	2014	107
Iceland	-0.48723	2014	108
New Caledonia	-0.50383	2014	109
Jamaica	-0.51492	2014	110
Zambia	-0.55123	2014	111
Cambodia	-0.5837	2014	112
Cameroon	-0.58906	2014	113
Armenia	-0.6114	2014	114
Barbados	-0.61985	2014	115
Guyana	-0.6392	2014	116
Gabon	-0.63972	2014	117
Mongolia	-0.64784	2014	118
Aruba	-0.66044	2014	119
Malawi	-0.70149	2014	120
Andorra	-0.70889	2014	121
French Polynesia	-0.74479	2014	122
Algeria	-0.7866	2014	123
Mozambique	-0.78716	2014	124
Bahamas	-0.82377	2014	125
Rwanda	-0.83023	2014	126
Albania	-0.83805	2014	127
Myanmar	-0.85641	2014	128
Belize	-0.88498	2014	129
Azerbaijan	-0.88666	2014	130
China, Macao SAR	-0.89962	2014	131
Lao People's Dem. Rep.	-0.92458	2014	132
Antigua and Barbuda	-0.93742	2014	133
Yemen	-0.98145	2014	134
State of Palestine	-1.02906	2014	135
Lesotho	-1.06247	2014	136
Benin	-1.15549	2014	137
Togo	-1.16256	2014	138
Nigeria	-1.16837	2014	139
Burkina Faso	-1.18863	2014	140
Niger	-1.2158	2014	141
Saint Vincent and the Grenadines	-1.25454	2014	142
Grenada	-1.2673	2014	143
Bermuda	-1.2905	2014	144
Tonga	-1.31034	2014	145
Suriname	-1.31577	2014	146
Burundi	-1.31847	2014	147
Congo	-1.33897	2014	148
Sudan	-1.38364	2014	149
Palau	-1.38993	2014	150
Saint Kitts and Nevis	-1.42585	2014	151
Seychelles	-1.48339	2014	152
Guinea	-1.49007	2014	153
Samoa	-1.5172	2014	154
Greenland	-1.5582	2014	155
Gambia	-1.57331	2014	156
Kiribati	-1.62582	2014	157
Sierra Leone	-1.62929	2014	158
Montserrat	-1.68292	2014	159
Qatar	-1.68457	2014	160
Sao Tome and Principe	-1.69058	2014	161
Central African Rep.	-1.73165	2014	162
Solomon Isds	-1.73862	2014	163
Mauritania	-1.74869	2014	164
Comoros	-1.75988	2014	165
Maldives	-1.77075	2014	166
Iraq	-1.77745	2014	167
Cabo Verde	-1.78382	2014	168
Turkey	1.33218	2015	1
USA	1.317298	2015	2
United Kingdom	1.316732	2015	3
Poland	1.314652	2015	4
Germany	1.30925	2015	5
China	1.30336	2015	6
India	1.291749	2015	7
Czechia	1.285669	2015	8
Netherlands	1.27592	2015	9
Romania	1.267995	2015	10
Portugal	1.26716	2015	11
Other Asia, nes	1.26698	2015	12
Russian Federation	1.264932	2015	13

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Country	BCI	Year	Rank
Italy	1.263564	2015	14
Switzerland	1.243244	2015	15
Spain	1.234404	2015	16
France	1.22956	2015	17
Belgium	1.226244	2015	18
Lithuania	1.224444	2015	19
Sweden	1.222954	2015	20
Hungary	1.222925	2015	21
Greece	1.220223	2015	22
Denmark	1.216985	2015	23
Austria	1.203367	2015	24
Japan	1.201781	2015	25
Slovenia	1.199385	2015	26
China, Hong Kong SAR	1.198385	2015	27
Rep. of Korea	1.197348	2015	28
South Africa	1.19472	2015	29
Malaysia	1.181174	2015	30
Indonesia	1.171782	2015	31
Bulgaria	1.150993	2015	32
Australia	1.150561	2015	33
Brazil	1.144004	2015	34
Croatia	1.139876	2015	35
Singapore	1.087851	2015	36
Thailand	1.08558	2015	37
Finland	1.074461	2015	38
Serbia	1.057785	2015	39
Belarus	1.054053	2015	40
Estonia	1.012846	2015	41
Colombia	1.008789	2015	42
Slovakia	0.995645	2015	43
Peru	0.960995	2015	44
Sri Lanka	0.942961	2015	45
Pakistan	0.941361	2015	46
Latvia	0.940487	2015	47
Ukraine	0.937218	2015	48
Norway	0.892232	2015	49
Kenya	0.864559	2015	50
North Macedonia	0.858627	2015	51
Guatemala	0.856426	2015	52
Tunisia	0.855405	2015	53
Morocco	0.836891	2015	54
Bosnia Herzegovina	0.809725	2015	55
Argentina	0.773017	2015	56
Ireland	0.732518	2015	57
Viet Nam	0.709817	2015	58
Mauritius	0.680133	2015	59
United Arab Emirates	0.677939	2015	60
El Salvador	0.652567	2015	61
Lebanon	0.627815	2015	62
Luxembourg	0.612055	2015	63
Bangladesh	0.564882	2015	64
Panama	0.528087	2015	65
Rep. of Moldova	0.49958	2015	66
Kuwait	0.395708	2015	67
Namibia	0.374272	2015	68
Egypt	0.352097	2015	69
Canada	0.351918	2015	70
Ecuador	0.351685	2015	71
Madagascar	0.350603	2015	72
Fiji	0.337958	2015	73
Kazakhstan	0.337785	2015	74
Israel	0.333604	2015	75
Costa Rica	0.316036	2015	76
Dominican Rep.	0.300393	2015	77
Uganda	0.272621	2015	78
Iran	0.230033	2015	79
Ivory Coast	0.166864	2015	80
Trinidad and Tobago	0.162704	2015	81
Nicaragua	0.15766	2015	82
Chile	0.148008	2015	83
Georgia	0.145413	2015	84
Bahrain	0.114223	2015	85
United Rep. of Tanzania	0.081792	2015	86
Mexico	0.075198	2015	87
Brunei Darussalam	0.040266	2015	88
Angola	0.017765	2015	89

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Country	BCI	Year	Rank
Cyprus	0.004915	2015	90
Uruguay	-0.01489	2015	91
Oman	-0.01802	2015	92
Honduras	-0.07959	2015	93
Botswana	-0.08445	2015	94
Jordan	-0.08704	2015	95
Armenia	-0.13436	2015	96
Philippines	-0.14134	2015	97
Saudi Arabia	-0.15722	2015	98
Eswatini	-0.18034	2015	99
Malta	-0.20688	2015	100
Zimbabwe	-0.21891	2015	101
Montenegro	-0.28305	2015	102
Cambodia	-0.28539	2015	103
Senegal	-0.32317	2015	104
Paraguay	-0.32833	2015	105
Ghana	-0.32936	2015	106
Kyrgyzstan	-0.35401	2015	107
Ethiopia	-0.35632	2015	108
Lesotho	-0.38248	2015	109
Saint Lucia	-0.42261	2015	110
Bolivia (Plurinational State of)	-0.44835	2015	111
Nepal	-0.47832	2015	112
New Zealand	-0.49476	2015	113
Iceland	-0.52232	2015	114
Jamaica	-0.52292	2015	115
Barbados	-0.54581	2015	116
New Caledonia	-0.5495	2015	117
Zambia	-0.56398	2015	118
Albania	-0.63776	2015	119
Mongolia	-0.65011	2015	120
Andorra	-0.66384	2015	121
Rwanda	-0.70118	2015	122
Gabon	-0.71239	2015	123
Cameroon	-0.72576	2015	124
Guyana	-0.72675	2015	125
Antigua and Barbuda	-0.78049	2015	126
Mozambique	-0.79506	2015	127
Malawi	-0.80718	2015	128
French Polynesia	-0.81804	2015	129
Bahamas	-0.83384	2015	130
Togo	-0.84344	2015	131
Aruba	-0.84424	2015	132
Algeria	-0.8445	2015	133
Azerbaijan	-0.90521	2015	134
Lao People's Dem. Rep.	-0.91371	2015	135
China, Macao SAR	-0.91673	2015	136
State of Palestine	-0.98908	2015	137
Myanmar	-0.99586	2015	138
Benin	-1.04468	2015	139
Belize	-1.05304	2015	140
Nigeria	-1.06351	2015	141
Niger	-1.08283	2015	142
Samoa	-1.09404	2015	143
Dem. Rep. of the Congo	-1.18154	2015	144
Burkina Faso	-1.182	2015	145
Yemen	-1.23691	2015	146
Bermuda	-1.28845	2015	147
Congo	-1.28968	2015	148
Burundi	-1.30557	2015	149
Saint Vincent and the Grenadines	-1.31557	2015	150
Grenada	-1.33727	2015	151
Sudan	-1.39016	2015	152
Palau	-1.43421	2015	153
Guinea	-1.46209	2015	154
Saint Kitts and Nevis	-1.49951	2015	155
Seychelles	-1.54082	2015	156
Montserrat	-1.54203	2015	157
Greenland	-1.54824	2015	158
Gambia	-1.59975	2015	159
Kiribati	-1.61028	2015	160
Solomon Isds	-1.61193	2015	161
Sierra Leone	-1.73056	2015	162
Qatar	-1.73178	2015	163
Suriname	-1.73656	2015	164
Guinea-Bissau	-1.7606	2015	165

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Country	BCI	Year	Rank
Maldives	-1.76688	2015	166
Comoros	-1.77138	2015	167
Iraq	-1.78122	2015	168
Sao Tome and Principe	-1.78753	2015	169
Mauritania	-1.79461	2015	170
Cabo Verde	-1.80408	2015	171
Afghanistan	-1.80543	2015	172
United Kingdom	1.308375	2016	1
Turkey	1.304028	2016	2
Germany	1.30156	2016	3
Poland	1.299003	2016	4
India	1.292635	2016	5
China	1.289926	2016	6
Czechia	1.280098	2016	7
Italy	1.275406	2016	8
Portugal	1.272944	2016	9
Netherlands	1.268882	2016	10
Other Asia, nes	1.267777	2016	11
Romania	1.262138	2016	12
France	1.24943	2016	13
Rep. of Korea	1.248618	2016	14
Russian Federation	1.24802	2016	15
Greece	1.221777	2016	16
Austria	1.216361	2016	17
USA	1.214925	2016	18
Sweden	1.208046	2016	19
Brazil	1.207706	2016	20
Lithuania	1.20439	2016	21
Japan	1.204341	2016	22
Belgium	1.196309	2016	23
Slovenia	1.189724	2016	24
Denmark	1.187255	2016	25
Malaysia	1.183068	2016	26
Switzerland	1.182304	2016	27
Spain	1.177535	2016	28
Bulgaria	1.176749	2016	29
Indonesia	1.169956	2016	30
China, Hong Kong SAR	1.134215	2016	31
Croatia	1.113988	2016	32
South Africa	1.11052	2016	33
Belarus	1.109153	2016	34
Australia	1.10347	2016	35
Viet Nam	1.08863	2016	36
Finland	1.079601	2016	37
Serbia	1.076338	2016	38
Singapore	1.054351	2016	39
Colombia	1.036399	2016	40
Thailand	1.031876	2016	41
New Zealand	1.020592	2016	42
Slovakia	1.007965	2016	43
Latvia	0.995422	2016	44
Pakistan	0.978486	2016	45
Estonia	0.942073	2016	46
Ukraine	0.918631	2016	47
Guatemala	0.897427	2016	48
Morocco	0.896519	2016	49
Peru	0.895188	2016	50
Norway	0.883874	2016	51
Kenya	0.860251	2016	52
Tunisia	0.81402	2016	53
Bosnia Herzegovina	0.803244	2016	54
Sri Lanka	0.793338	2016	55
Argentina	0.768886	2016	56
North Macedonia	0.733682	2016	57
Hungary	0.701718	2016	58
Mauritius	0.67049	2016	59
Ireland	0.668892	2016	60
El Salvador	0.650327	2016	61
United Arab Emirates	0.621193	2016	62
Luxembourg	0.601103	2016	63
Lebanon	0.515736	2016	64
Rep. of Moldova	0.485176	2016	65
Kazakhstan	0.471473	2016	66
Namibia	0.4557	2016	67
Bahrain	0.443844	2016	68
Egypt	0.403469	2016	69

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Country	BCI	Year	Rank
Ecuador	0.378776	2016	70
Panama	0.369947	2016	71
Dominican Rep.	0.365277	2016	72
Costa Rica	0.363164	2016	73
Uganda	0.339342	2016	74
Madagascar	0.338739	2016	75
Canada	0.336406	2016	76
Kuwait	0.328603	2016	77
Israel	0.317754	2016	78
Iran	0.283655	2016	79
Ivory Coast	0.277387	2016	80
Trinidad and Tobago	0.195111	2016	81
Nicaragua	0.169745	2016	82
Botswana	0.159617	2016	83
Georgia	0.156942	2016	84
United Rep. of Tanzania	0.145293	2016	85
Fiji	0.136889	2016	86
Angola	0.11256	2016	87
Lesotho	0.081418	2016	88
Chile	0.071546	2016	89
Oman	0.060022	2016	90
Armenia	0.051901	2016	91
Mexico	0.027761	2016	92
Cyprus	-0.04762	2016	93
Malta	-0.05901	2016	94
Senegal	-0.06899	2016	95
Brunei Darussalam	-0.08226	2016	96
Honduras	-0.08325	2016	97
Jordan	-0.08597	2016	98
Philippines	-0.11053	2016	99
Ghana	-0.12917	2016	100
Nepal	-0.14604	2016	101
Cambodia	-0.19224	2016	102
Saint Lucia	-0.19573	2016	103
Uruguay	-0.19795	2016	104
Paraguay	-0.20285	2016	105
Eswatini	-0.22058	2016	106
Montenegro	-0.22391	2016	107
Kyrgyzstan	-0.25241	2016	108
Ethiopia	-0.25433	2016	109
Zimbabwe	-0.28945	2016	110
Albania	-0.2973	2016	111
Bolivia (Plurinational State of)	-0.31555	2016	112
Saudi Arabia	-0.32598	2016	113
Azerbaijan	-0.32694	2016	114
Jamaica	-0.39524	2016	115
Iceland	-0.42164	2016	116
Barbados	-0.46417	2016	117
Myanmar	-0.50949	2016	118
Andorra	-0.56083	2016	119
Mongolia	-0.6437	2016	120
Aruba	-0.66442	2016	121
Zambia	-0.6846	2016	122
Bahamas	-0.68599	2016	123
Cameroon	-0.69929	2016	124
Cuba	-0.6993	2016	125
Rwanda	-0.72018	2016	126
Mozambique	-0.72058	2016	127
Guyana	-0.7224	2016	128
Gabon	-0.76912	2016	129
French Polynesia	-0.77122	2016	130
Mali	-0.86151	2016	131
Dem. Rep. of the Congo	-0.88084	2016	132
Niger	-0.88565	2016	133
State of Palestine	-0.90887	2016	134
Algeria	-0.93229	2016	135
Lao People's Dem. Rep.	-0.94399	2016	136
Tajikistan	-0.94621	2016	137
Malawi	-0.95233	2016	138
Benin	-0.98458	2016	139
Antigua and Barbuda	-0.99635	2016	140
Togo	-1.01767	2016	141
Belize	-1.03052	2016	142
Congo	-1.07707	2016	143
Samoa	-1.11002	2016	144
Burkina Faso	-1.2472	2016	145

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Country	BCI	Year	Rank
Grenada	-1.28751	2016	146
Dominica	-1.32496	2016	147
Sudan	-1.34412	2016	148
Saint Vincent and the Grenadines	-1.3536	2016	149
Saint Kitts and Nevis	-1.36793	2016	150
Bermuda	-1.39362	2016	151
Burundi	-1.39626	2016	152
Guinea	-1.4772	2016	153
Greenland	-1.49407	2016	154
China, Macao SAR	-1.50112	2016	155
Nigeria	-1.50393	2016	156
Sierra Leone	-1.53158	2016	157
Palau	-1.57944	2016	158
Libya	-1.58986	2016	159
Seychelles	-1.59755	2016	160
Solomon Isds	-1.60267	2016	161
Sao Tome and Principe	-1.65159	2016	162
Mauritania	-1.66844	2016	163
Montserrat	-1.67124	2016	164
Kiribati	-1.69064	2016	165
Suriname	-1.73191	2016	166
Qatar	-1.73402	2016	167
Gambia	-1.76117	2016	168
Cabo Verde	-1.7646	2016	169
Central African Rep.	-1.77272	2016	170
Maldives	-1.77416	2016	171
Comoros	-1.80344	2016	172
Afghanistan	-1.80977	2016	173
Iraq	-1.81993	2016	174
India	1.358377	2017	1
Poland	1.331146	2017	2
Russian Federation	1.327247	2017	3
Czechia	1.314661	2017	4
USA	1.311457	2017	5
Netherlands	1.309291	2017	6
China	1.303342	2017	7
Germany	1.297917	2017	8
Turkey	1.280277	2017	9
China, Hong Kong SAR	1.269622	2017	10
Austria	1.245529	2017	11
Italy	1.243338	2017	12
Lithuania	1.241645	2017	13
Portugal	1.23516	2017	14
Other Asia, nes	1.233972	2017	15
Sweden	1.225787	2017	16
South Africa	1.222019	2017	17
Switzerland	1.218611	2017	18
Slovenia	1.217128	2017	19
Greece	1.212697	2017	20
Malaysia	1.202037	2017	21
Belarus	1.193032	2017	22
Bulgaria	1.192324	2017	23
Romania	1.187187	2017	24
Thailand	1.171401	2017	25
Brazil	1.165683	2017	26
Denmark	1.165633	2017	27
United Arab Emirates	1.165611	2017	28
United Kingdom	1.157913	2017	29
Croatia	1.145479	2017	30
Indonesia	1.125384	2017	31
Finland	1.117643	2017	32
Belgium	1.116993	2017	33
Japan	1.110858	2017	34
Canada	1.108993	2017	35
Viet Nam	1.085958	2017	36
Serbia	1.069462	2017	37
Slovakia	1.046074	2017	38
New Zealand	1.019193	2017	39
Latvia	1.009838	2017	40
Rep. of Korea	1.002993	2017	41
Estonia	0.994841	2017	42
Sri Lanka	0.979009	2017	43
Peru	0.978697	2017	44
Ukraine	0.950412	2017	45
Norway	0.94925	2017	46
Colombia	0.93217	2017	47

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Country	BCI	Year	Rank
Spain	0.898464	2017	48
Pakistan	0.884274	2017	49
Australia	0.87185	2017	50
Guatemala	0.866074	2017	51
France	0.846751	2017	52
Singapore	0.84374	2017	53
Morocco	0.836465	2017	54
Kenya	0.826782	2017	55
Tunisia	0.790138	2017	56
North Macedonia	0.77709	2017	57
Mauritius	0.776586	2017	58
Argentina	0.772763	2017	59
Bosnia Herzegovina	0.756637	2017	60
Ireland	0.735352	2017	61
Hungary	0.688194	2017	62
El Salvador	0.626751	2017	63
Israel	0.585853	2017	64
Philippines	0.558188	2017	65
Luxembourg	0.553591	2017	66
Kuwait	0.471308	2017	67
Oman	0.469772	2017	68
Rep. of Moldova	0.414262	2017	69
Dominican Rep.	0.414255	2017	70
Bahrain	0.40938	2017	71
Lebanon	0.394031	2017	72
Costa Rica	0.357758	2017	73
Panama	0.35773	2017	74
Iran	0.33878	2017	75
Egypt	0.336677	2017	76
Kazakhstan	0.330386	2017	77
Trinidad and Tobago	0.323399	2017	78
Fiji	0.283768	2017	79
Uganda	0.278099	2017	80
Ecuador	0.270202	2017	81
Armenia	0.260306	2017	82
Madagascar	0.186801	2017	83
Ivory Coast	0.184588	2017	84
United Rep. of Tanzania	0.163232	2017	85
Georgia	0.150588	2017	86
Botswana	0.134266	2017	87
Chile	0.121812	2017	88
Nicaragua	0.103993	2017	89
Uzbekistan	0.076186	2017	90
Brunei Darussalam	0.055668	2017	91
Honduras	0.054364	2017	92
Saudi Arabia	0.044517	2017	93
Malta	-0.01044	2017	94
Mexico	-0.01371	2017	95
Angola	-0.01899	2017	96
Namibia	-0.05925	2017	97
Ghana	-0.0665	2017	98
Lesotho	-0.07793	2017	99
Kyrgyzstan	-0.08936	2017	100
Cyprus	-0.09496	2017	101
Jordan	-0.09932	2017	102
Uruguay	-0.10791	2017	103
Senegal	-0.17408	2017	104
Myanmar	-0.20976	2017	105
Azerbaijan	-0.22009	2017	106
Cambodia	-0.25135	2017	107
Jamaica	-0.25826	2017	108
Paraguay	-0.26093	2017	109
Nepal	-0.2796	2017	110
Eswatini	-0.31136	2017	111
Saint Lucia	-0.34899	2017	112
Zimbabwe	-0.39516	2017	113
Montenegro	-0.41278	2017	114
Ethiopia	-0.41544	2017	115
Guyana	-0.43113	2017	116
Mongolia	-0.49044	2017	117
Bolivia (Plurinational State of)	-0.56842	2017	118
Rwanda	-0.59305	2017	119
Bahamas	-0.60307	2017	120
French Polynesia	-0.61231	2017	121
Iceland	-0.61916	2017	122
Andorra	-0.63752	2017	123

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Country	BCI	Year	Rank
Zambia	-0.6839	2017	124
Tajikistan	-0.70728	2017	125
Cameroon	-0.71792	2017	126
Algeria	-0.75251	2017	127
Dem. Rep. of the Congo	-0.76114	2017	128
Curacao	-0.77391	2017	129
Gabon	-0.78425	2017	130
Antigua and Barbuda	-0.79313	2017	131
Lao People's Dem. Rep.	-0.80527	2017	132
Malawi	-0.81449	2017	133
Mozambique	-0.82885	2017	134
State of Palestine	-0.83969	2017	135
Aruba	-0.89085	2017	136
Mali	-0.89223	2017	137
Belize	-0.94295	2017	138
Samoa	-0.99132	2017	139
Benin	-1.04721	2017	140
Togo	-1.05636	2017	141
Niger	-1.0644	2017	142
Congo	-1.08725	2017	143
Burundi	-1.08856	2017	144
Barbados	-1.16549	2017	145
Burkina Faso	-1.18167	2017	146
China, Macao SAR	-1.20423	2017	147
Bermuda	-1.24291	2017	148
Albania	-1.25257	2017	149
Saint Vincent and the Grenadines	-1.32236	2017	150
Dominica	-1.33573	2017	151
Suriname	-1.36352	2017	152
Grenada	-1.37085	2017	153
Nigeria	-1.37595	2017	154
Cuba	-1.38591	2017	155
Greenland	-1.40265	2017	156
Kiribati	-1.45568	2017	157
Saint Kitts and Nevis	-1.51765	2017	158
Sierra Leone	-1.56413	2017	159
Seychelles	-1.57634	2017	160
Sudan	-1.58736	2017	161
Timor-Leste	-1.58992	2017	162
Libya	-1.6366	2017	163
Sao Tome and Principe	-1.64533	2017	164
Central African Rep.	-1.66598	2017	165
Gambia	-1.71274	2017	166
Liberia	-1.72199	2017	167
Solomon Isds	-1.7274	2017	168
Mauritania	-1.73868	2017	169
Palau	-1.74458	2017	170
Qatar	-1.75124	2017	171
Cabo Verde	-1.76235	2017	172
Comoros	-1.76949	2017	173
Maldives	-1.78444	2017	174
Montserrat	-1.78589	2017	175
Afghanistan	-1.82857	2017	176
India	1.355087	2018	1
Poland	1.324892	2018	2
Germany	1.319219	2018	3
Czechia	1.313886	2018	4
Russian Federation	1.313814	2018	5
Netherlands	1.304394	2018	6
China, Hong Kong SAR	1.274631	2018	7
Turkey	1.265841	2018	8
Spain	1.257074	2018	9
Greece	1.256335	2018	10
Lithuania	1.253254	2018	11
Portugal	1.25078	2018	12
Other Asia, nes	1.241803	2018	13
Romania	1.239503	2018	14
United Kingdom	1.238939	2018	15
Sweden	1.237041	2018	16
Belarus	1.22366	2018	17
USA	1.21254	2018	18
Slovenia	1.212536	2018	19
Bulgaria	1.209589	2018	20
Austria	1.201344	2018	21
Switzerland	1.195975	2018	22
United Arab Emirates	1.179182	2018	23

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Country	BCI	Year	Rank
Italy	1.169331	2018	24
Malaysia	1.162019	2018	25
Finland	1.135802	2018	26
Croatia	1.135114	2018	27
Canada	1.13109	2018	28
Viet Nam	1.12979	2018	29
Belgium	1.105197	2018	30
Serbia	1.101671	2018	31
New Zealand	1.100922	2018	32
Brazil	1.076833	2018	33
Indonesia	1.067683	2018	34
Japan	1.064748	2018	35
Thailand	1.057117	2018	36
Singapore	1.048726	2018	37
Denmark	1.046168	2018	38
South Africa	1.036997	2018	39
Slovakia	1.021674	2018	40
Colombia	1.007112	2018	41
Rep. of Korea	0.991273	2018	42
Latvia	0.981229	2018	43
Estonia	0.976594	2018	44
Peru	0.945804	2018	45
Ukraine	0.933507	2018	46
Guatemala	0.921774	2018	47
Norway	0.894711	2018	48
France	0.888146	2018	49
China	0.884523	2018	50
Kenya	0.862633	2018	51
Pakistan	0.843959	2018	52
Ireland	0.81948	2018	53
Bosnia Herzegovina	0.80991	2018	54
Morocco	0.809014	2018	55
Australia	0.789302	2018	56
North Macedonia	0.776208	2018	57
Tunisia	0.719335	2018	58
Hungary	0.672098	2018	59
Oman	0.658874	2018	60
Mauritius	0.65346	2018	61
Philippines	0.616847	2018	62
El Salvador	0.595839	2018	63
Lebanon	0.576953	2018	64
Luxembourg	0.556981	2018	65
Iran	0.534781	2018	66
Israel	0.519451	2018	67
Kuwait	0.500792	2018	68
Dominican Rep.	0.481845	2018	69
Kazakhstan	0.465258	2018	70
Costa Rica	0.418034	2018	71
Bahrain	0.405955	2018	72
Rep. of Moldova	0.384579	2018	73
Egypt	0.366446	2018	74
Panama	0.363923	2018	75
Saudi Arabia	0.357135	2018	76
Armenia	0.354418	2018	77
Trinidad and Tobago	0.311032	2018	78
Madagascar	0.267265	2018	79
Botswana	0.263205	2018	80
United Rep. of Tanzania	0.252726	2018	81
Georgia	0.200695	2018	82
Nicaragua	0.199883	2018	83
Chile	0.187269	2018	84
Ivory Coast	0.160077	2018	85
Ecuador	0.157691	2018	86
Honduras	0.149509	2018	87
Uganda	0.14238	2018	88
Fiji	0.140904	2018	89
Uzbekistan	0.134459	2018	90
Lesotho	0.07462	2018	91
Mexico	0.021296	2018	92
Cyprus	-0.03325	2018	93
Brunei Darussalam	-0.04087	2018	94
Uruguay	-0.04095	2018	95
Angola	-0.05571	2018	96
Argentina	-0.08168	2018	97
Malta	-0.10269	2018	98
Kyrgyzstan	-0.1093	2018	99

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Country	BCI	Year	Rank
Cambodia	-0.12224	2018	100
Paraguay	-0.1257	2018	101
Myanmar	-0.16085	2018	102
Ghana	-0.20582	2018	103
Jordan	-0.2179	2018	104
Montenegro	-0.22226	2018	105
Zimbabwe	-0.24926	2018	106
Azerbaijan	-0.2575	2018	107
Senegal	-0.29266	2018	108
Rwanda	-0.31232	2018	109
Ethiopia	-0.32418	2018	110
Saint Lucia	-0.33535	2018	111
Jamaica	-0.33918	2018	112
Nepal	-0.34523	2018	113
Eswatini	-0.35739	2018	114
Guyana	-0.44801	2018	115
Bahamas	-0.52995	2018	116
Bolivia (Plurinational State of)	-0.55048	2018	117
Mongolia	-0.56294	2018	118
Andorra	-0.59396	2018	119
Iceland	-0.61652	2018	120
Zambia	-0.64433	2018	121
Mozambique	-0.64873	2018	122
Malawi	-0.66078	2018	123
French Polynesia	-0.69271	2018	124
Curacao	-0.72389	2018	125
Mali	-0.72454	2018	126
Gabon	-0.74871	2018	127
State of Palestine	-0.75405	2018	128
Dem. Rep. of the Congo	-0.75584	2018	129
Lao People's Dem. Rep.	-0.78707	2018	130
Cameroon	-0.78893	2018	131
Samoa	-0.79954	2018	132
Antigua and Barbuda	-0.83515	2018	133
Aruba	-0.86751	2018	134
Burundi	-0.91497	2018	135
Albania	-0.94515	2018	136
Togo	-0.95838	2018	137
Belize	-0.98774	2018	138
Tajikistan	-1.01499	2018	139
Bermuda	-1.0458	2018	140
Burkina Faso	-1.04938	2018	141
China, Macao SAR	-1.06919	2018	142
Niger	-1.0705	2018	143
Benin	-1.11415	2018	144
Dominica	-1.16688	2018	145
Congo	-1.16861	2018	146
Barbados	-1.22358	2018	147
Grenada	-1.28002	2018	148
Saint Vincent and the Grenadines	-1.30642	2018	149
Nigeria	-1.31327	2018	150
Cuba	-1.32012	2018	151
Namibia	-1.50524	2018	152
Sierra Leone	-1.50846	2018	153
Solomon Isds	-1.51601	2018	154
Sudan	-1.54802	2018	155
Sao Tome and Principe	-1.55723	2018	156
Liberia	-1.57615	2018	157
Gambia	-1.61559	2018	158
Seychelles	-1.62574	2018	159
Libya	-1.63611	2018	160
Montserrat	-1.6597	2018	161
Greenland	-1.68011	2018	162
Palau	-1.68489	2018	163
Central African Rep.	-1.69815	2018	164
Kiribati	-1.73466	2018	165
Cabo Verde	-1.73532	2018	166
Maldives	-1.74419	2018	167
Comoros	-1.74642	2018	168
Mauritania	-1.75414	2018	169
Suriname	-1.76411	2018	170
Qatar	-1.76862	2018	171
Afghanistan	-1.78805	2018	172
Yemen	-1.79072	2018	173
Timor-Leste	-1.82064	2018	174
Turkey	1.391378	2019	1

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Country	BCI	Year	Rank
India	1.376669	2019	2
USA	1.363764	2019	3
China	1.360964	2019	4
Netherlands	1.348752	2019	5
Germany	1.331094	2019	6
Poland	1.321078	2019	7
China, Hong Kong SAR	1.29162	2019	8
Belarus	1.290926	2019	9
Belgium	1.290636	2019	10
Slovenia	1.286264	2019	11
Romania	1.270812	2019	12
Lithuania	1.261485	2019	13
Switzerland	1.2529	2019	14
Greece	1.251351	2019	15
Bulgaria	1.250125	2019	16
Sweden	1.246582	2019	17
Portugal	1.245325	2019	18
Czechia	1.237872	2019	19
Serbia	1.196877	2019	20
Italy	1.189946	2019	21
Malaysia	1.182891	2019	22
Brazil	1.165551	2019	23
Denmark	1.156166	2019	24
Croatia	1.145712	2019	25
Canada	1.140332	2019	26
Japan	1.1269	2019	27
United Arab Emirates	1.111567	2019	28
Singapore	1.103836	2019	29
Rep. of Korea	1.088868	2019	30
Austria	1.073142	2019	31
South Africa	1.065055	2019	32
New Zealand	1.048605	2019	33
Indonesia	1.033232	2019	34
Viet Nam	1.033067	2019	35
Spain	1.025893	2019	36
Sri Lanka	1.023569	2019	37
Russian Federation	0.980466	2019	38
Peru	0.978116	2019	39
Latvia	0.965407	2019	40
Pakistan	0.944879	2019	41
Thailand	0.933222	2019	42
Slovakia	0.927428	2019	43
Estonia	0.923685	2019	44
Colombia	0.90586	2019	45
Ukraine	0.904776	2019	46
Norway	0.884999	2019	47
Morocco	0.861495	2019	48
Australia	0.850811	2019	49
France	0.831556	2019	50
North Macedonia	0.821061	2019	51
Guatemala	0.808648	2019	52
Other Asia, nes	0.800564	2019	53
Finland	0.789733	2019	54
Bosnia Herzegovina	0.752032	2019	55
Kenya	0.748812	2019	56
Ireland	0.720717	2019	57
Hungary	0.607772	2019	58
Bahrain	0.582077	2019	59
El Salvador	0.569295	2019	60
Philippines	0.569031	2019	61
Luxembourg	0.530426	2019	62
Tunisia	0.526364	2019	63
Dominican Rep.	0.492067	2019	64
Namibia	0.490614	2019	65
Oman	0.468887	2019	66
United Kingdom	0.415545	2019	67
Rep. of Moldova	0.375527	2019	68
Lebanon	0.348747	2019	69
Kuwait	0.321828	2019	70
Kazakhstan	0.289927	2019	71
Trinidad and Tobago	0.277274	2019	72
Georgia	0.275667	2019	73
Israel	0.273213	2019	74
Iran	0.262132	2019	75
Egypt	0.243433	2019	76
Rwanda	0.239493	2019	77

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Country	BCI	Year	Rank
Costa Rica	0.225144	2019	78
United Rep. of Tanzania	0.22453	2019	79
Uzbekistan	0.216388	2019	80
Saudi Arabia	0.15202	2019	81
Panama	0.145279	2019	82
Madagascar	0.137236	2019	83
Ecuador	0.107072	2019	84
Uganda	0.082267	2019	85
Chile	0.080418	2019	86
Fiji	0.053497	2019	87
Brunei Darussalam	0.041279	2019	88
Nicaragua	0.031902	2019	89
Mauritius	0.013532	2019	90
Myanmar	0.006918	2019	91
Botswana	-0.07371	2019	92
Armenia	-0.07441	2019	93
Ivory Coast	-0.07494	2019	94
Malta	-0.08087	2019	95
Uruguay	-0.08881	2019	96
Eswatini	-0.09666	2019	97
Lesotho	-0.12209	2019	98
Argentina	-0.18896	2019	99
Angola	-0.18996	2019	100
Mexico	-0.19112	2019	101
Cambodia	-0.24742	2019	102
Paraguay	-0.2753	2019	103
Honduras	-0.27562	2019	104
Jamaica	-0.28233	2019	105
Barbados	-0.2887	2019	106
Azerbaijan	-0.30161	2019	107
Zimbabwe	-0.30188	2019	108
Cyprus	-0.30492	2019	109
Jordan	-0.31192	2019	110
Kyrgyzstan	-0.31366	2019	111
Ethiopia	-0.34311	2019	112
Guyana	-0.38322	2019	113
Montenegro	-0.38462	2019	114
Ghana	-0.42453	2019	115
Saint Lucia	-0.51526	2019	116
Senegal	-0.55918	2019	117
Mongolia	-0.57337	2019	118
Bolivia (Plurinational State of)	-0.64211	2019	119
Zambia	-0.70039	2019	120
Nepal	-0.74538	2019	121
Iceland	-0.75159	2019	122
Cabo Verde	-0.79285	2019	123
Mozambique	-0.79705	2019	124
French Polynesia	-0.81526	2019	125
Cameroon	-0.85891	2019	126
Gabon	-0.86407	2019	127
Bahamas	-0.86877	2019	128
Andorra	-0.8938	2019	129
Curacao	-0.90264	2019	130
State of Palestine	-0.90285	2019	131
Papua New Guinea	-0.93627	2019	132
Mali	-0.99562	2019	133
Lao People's Dem. Rep.	-1.04711	2019	134
Samoa	-1.05734	2019	135
Belize	-1.06802	2019	136
Aruba	-1.08352	2019	137
Togo	-1.08896	2019	138
Malawi	-1.09878	2019	139
Albania	-1.1159	2019	140
Burundi	-1.11967	2019	141
Dem. Rep. of the Congo	-1.17165	2019	142
Antigua and Barbuda	-1.18185	2019	143
Burkina Faso	-1.21394	2019	144
Tajikistan	-1.22582	2019	145
Congo	-1.27216	2019	146
Benin	-1.28414	2019	147
Bermuda	-1.33806	2019	148
Cuba	-1.34551	2019	149
Saint Vincent and the Grenadines	-1.3764	2019	150
Grenada	-1.40229	2019	151
Seychelles	-1.42257	2019	152
Nigeria	-1.43061	2019	153

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Country	BCI	Year	Rank
Niger	-1.44111	2019	154
Dominica	-1.55897	2019	155
Libya	-1.67156	2019	156
Afghanistan	-1.8073	2019	157
Comoros	-1.81207	2019	158
Suriname	-1.826	2019	159
Gambia	-1.83122	2019	160
Mauritania	-1.87222	2019	161
Yemen	-1.88562	2019	162
Qatar	-1.93469	2019	163
Montserrat	-1.93781	2019	164
Sao Tome and Principe	-1.95728	2019	165
Liberia	-1.96898	2019	166
Timor-Leste	-1.99531	2019	167
Maldives	-2.01172	2019	168
India	1.354512	2020	1
China	1.332575	2020	2
Germany	1.31021	2020	3
Netherlands	1.308233	2020	4
Turkey	1.284363	2020	5
USA	1.27814	2020	6
Czechia	1.269098	2020	7
Portugal	1.266637	2020	8
Italy	1.264433	2020	9
Poland	1.240298	2020	10
Switzerland	1.226947	2020	11
Romania	1.225112	2020	12
Slovenia	1.211709	2020	13
Belarus	1.19761	2020	14
China, Hong Kong SAR	1.191083	2020	15
Russian Federation	1.18882	2020	16
Austria	1.18303	2020	17
Other Asia, nes	1.181758	2020	18
France	1.176437	2020	19
Bulgaria	1.172282	2020	20
Greece	1.160705	2020	21
Brazil	1.160499	2020	22
Lithuania	1.15033	2020	23
South Africa	1.14073	2020	24
Serbia	1.136848	2020	25
Japan	1.135573	2020	26
Viet Nam	1.133316	2020	27
Malaysia	1.126176	2020	28
Rep. of Korea	1.112972	2020	29
Denmark	1.101596	2020	30
Indonesia	1.098028	2020	31
Singapore	1.073038	2020	32
Finland	1.055572	2020	33
Canada	1.038991	2020	34
Belgium	1.032126	2020	35
Spain	1.031673	2020	36
United Arab Emirates	1.021192	2020	37
Sweden	1.018991	2020	38
Croatia	1.007597	2020	39
Estonia	0.986757	2020	40
Slovakia	0.985799	2020	41
Colombia	0.970113	2020	42
Thailand	0.960232	2020	43
Latvia	0.936481	2020	44
Pakistan	0.904568	2020	45
Guatemala	0.900403	2020	46
Peru	0.893784	2020	47
Sri Lanka	0.875185	2020	48
Morocco	0.861049	2020	49
Norway	0.845817	2020	50
Ukraine	0.842962	2020	51
North Macedonia	0.771868	2020	52
Ireland	0.761703	2020	53
Bosnia Herzegovina	0.694703	2020	54
Australia	0.639403	2020	55
Hungary	0.637094	2020	56
Oman	0.617917	2020	57
Mauritius	0.612147	2020	58
Kenya	0.60342	2020	59
Tunisia	0.600034	2020	60
El Salvador	0.558475	2020	61

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Country	BCI	Year	Rank
Luxembourg	0.558122	2020	62
Uzbekistan	0.516762	2020	63
United Kingdom	0.515676	2020	64
New Zealand	0.503391	2020	65
Saudi Arabia	0.497814	2020	66
Dominican Rep.	0.486549	2020	67
Israel	0.413479	2020	68
Rep. of Moldova	0.409416	2020	69
Bahrain	0.393893	2020	70
Costa Rica	0.389633	2020	71
Georgia	0.388857	2020	72
Philippines	0.304663	2020	73
Kazakhstan	0.298064	2020	74
Namibia	0.290949	2020	75
Iran	0.290434	2020	76
Madagascar	0.261042	2020	77
Eswatini	0.230401	2020	78
Chile	0.223489	2020	79
Trinidad and Tobago	0.2035	2020	80
Ivory Coast	0.152734	2020	81
Rwanda	0.148336	2020	82
Egypt	0.126197	2020	83
Lebanon	0.105489	2020	84
Nicaragua	0.104269	2020	85
Fiji	0.083527	2020	86
Armenia	0.064274	2020	87
Ecuador	0.047002	2020	88
Angola	0.037577	2020	89
United Rep. of Tanzania	-0.00618	2020	90
Panama	-0.01132	2020	91
Uganda	-0.01209	2020	92
Azerbaijan	-0.01214	2020	93
Cyprus	-0.02789	2020	94
Botswana	-0.05301	2020	95
Kuwait	-0.05587	2020	96
Lesotho	-0.09215	2020	97
Cambodia	-0.09624	2020	98
Jamaica	-0.10373	2020	99
Honduras	-0.13205	2020	100
Ethiopia	-0.1488	2020	101
Malta	-0.18157	2020	102
Mexico	-0.22257	2020	103
Paraguay	-0.27019	2020	104
Montenegro	-0.27486	2020	105
Argentina	-0.27922	2020	106
Myanmar	-0.297	2020	107
Uruguay	-0.29905	2020	108
Guyana	-0.33829	2020	109
Brunei Darussalam	-0.35118	2020	110
Kyrgyzstan	-0.39281	2020	111
Senegal	-0.45358	2020	112
Saint Lucia	-0.46627	2020	113
Zimbabwe	-0.47649	2020	114
Bolivia (Plurinational State of)	-0.47817	2020	115
Iceland	-0.57224	2020	116
Mongolia	-0.58801	2020	117
Mozambique	-0.6639	2020	118
Zambia	-0.70345	2020	119
Andorra	-0.71523	2020	120
Gabon	-0.77523	2020	121
Cameroon	-0.79748	2020	122
Lao People's Dem. Rep.	-0.81878	2020	123
State of Palestine	-0.85184	2020	124
French Polynesia	-0.87445	2020	125
Malawi	-0.95499	2020	126
Nepal	-0.96503	2020	127
Dem. Rep. of the Congo	-0.98908	2020	128
Papua New Guinea	-1.00328	2020	129
Barbados	-1.00489	2020	130
Curacao	-1.02446	2020	131
Aruba	-1.04176	2020	132
Antigua and Barbuda	-1.05596	2020	133
Albania	-1.05627	2020	134
Congo	-1.10224	2020	135
Togo	-1.10283	2020	136
Burundi	-1.14502	2020	137

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Country	BCI	Year	Rank
Burkina Faso	-1.14538	2020	138
Bahamas	-1.17174	2020	139
Benin	-1.18941	2020	140
Saint Vincent and the Grenadines	-1.29417	2020	141
Grenada	-1.29955	2020	142
Niger	-1.31922	2020	143
Cuba	-1.38887	2020	144
Belize	-1.39613	2020	145
Tajikistan	-1.44058	2020	146
Dominica	-1.46546	2020	147
Bermuda	-1.47834	2020	148
Jordan	-1.55709	2020	149
Nigeria	-1.56969	2020	150
Mauritania	-1.57021	2020	151
Seychelles	-1.59716	2020	152
China, Macao SAR	-1.62186	2020	153
Kiribati	-1.65857	2020	154
Cayman Isds	-1.7173	2020	155
Liberia	-1.72747	2020	156
Montserrat	-1.75512	2020	157
Sao Tome and Principe	-1.76941	2020	158
Comoros	-1.77967	2020	159
Suriname	-1.78079	2020	160
Gambia	-1.80124	2020	161
Cabo Verde	-1.81842	2020	162
Timor-Leste	-1.83318	2020	163
Maldives	-1.84118	2020	164
Qatar	-1.88	2020	165
Central African Rep.	-1.89835	2020	166
China	1.385911	2021	1
USA	1.349943	2021	2
Turkey	1.349634	2021	3
Germany	1.32898	2021	4
India	1.324857	2021	5
Netherlands	1.296894	2021	6
Czechia	1.291147	2021	7
Poland	1.284618	2021	8
Bulgaria	1.243996	2021	9
Slovenia	1.237766	2021	10
Lithuania	1.211498	2021	11
Switzerland	1.201501	2021	12
Sweden	1.198714	2021	13
Brazil	1.190762	2021	14
China, Hong Kong SAR	1.186029	2021	15
Romania	1.183085	2021	16
Italy	1.178125	2021	17
Russian Federation	1.177828	2021	18
Greece	1.169601	2021	19
South Africa	1.16772	2021	20
Denmark	1.154537	2021	21
France	1.150652	2021	22
Other Asia, nes	1.145541	2021	23
United Arab Emirates	1.126968	2021	24
Canada	1.121976	2021	25
Austria	1.120706	2021	26
Malaysia	1.115885	2021	27
Serbia	1.101053	2021	28
Belarus	1.096591	2021	29
Rep. of Korea	1.074727	2021	30
Finland	1.051686	2021	31
Japan	1.043971	2021	32
Slovakia	1.02588	2021	33
Croatia	1.014585	2021	34
Indonesia	1.009528	2021	35
Ireland	0.995262	2021	36
Estonia	0.949885	2021	37
Portugal	0.942527	2021	38
Spain	0.942173	2021	39
Belgium	0.934684	2021	40
Australia	0.921687	2021	41
Latvia	0.919566	2021	42
Colombia	0.919339	2021	43
Singapore	0.910536	2021	44
Thailand	0.907115	2021	45
Ukraine	0.885543	2021	46
Pakistan	0.873825	2021	47

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Country	BCI	Year	Rank
Sri Lanka	0.868693	2021	48
Guatemala	0.864381	2021	49
Peru	0.847143	2021	50
Viet Nam	0.828498	2021	51
Morocco	0.820159	2021	52
Norway	0.81256	2021	53
New Zealand	0.796112	2021	54
North Macedonia	0.775898	2021	55
Bosnia Herzegovina	0.755484	2021	56
Kenya	0.749179	2021	57
Tunisia	0.695156	2021	58
Hungary	0.66287	2021	59
Mauritius	0.577848	2021	60
Oman	0.562547	2021	61
Luxembourg	0.549336	2021	62
El Salvador	0.547621	2021	63
United Kingdom	0.50303	2021	64
Saudi Arabia	0.468659	2021	65
Egypt	0.458466	2021	66
Dominican Rep.	0.450259	2021	67
Philippines	0.427825	2021	68
Uzbekistan	0.403695	2021	69
Bahrain	0.402659	2021	70
Rep. of Moldova	0.393364	2021	71
Georgia	0.388163	2021	72
Ecuador	0.348773	2021	73
Lebanon	0.343521	2021	74
Namibia	0.330252	2021	75
Madagascar	0.314619	2021	76
United Rep. of Tanzania	0.290248	2021	77
Ghana	0.259197	2021	78
Eswatini	0.259197	2021	79
Costa Rica	0.252463	2021	80
Iran	0.250458	2021	81
Trinidad and Tobago	0.207617	2021	82
Kazakhstan	0.207016	2021	83
Chile	0.205941	2021	84
Uganda	0.181144	2021	85
Rwanda	0.171849	2021	86
Kuwait	0.138889	2021	87
Botswana	0.092447	2021	88
Israel	0.085561	2021	89
Nicaragua	0.080601	2021	90
Fiji	0.048865	2021	91
Lesotho	-0.02783	2021	92
Ivory Coast	-0.03443	2021	93
Armenia	-0.03459	2021	94
Cambodia	-0.04243	2021	95
Cyprus	-0.04339	2021	96
Brunei Darussalam	-0.05442	2021	97
Azerbaijan	-0.09805	2021	98
Angola	-0.10382	2021	99
Mexico	-0.11834	2021	100
Myanmar	-0.14354	2021	101
Honduras	-0.17016	2021	102
Barbados	-0.18595	2021	103
Jamaica	-0.19219	2021	104
Kyrgyzstan	-0.22806	2021	105
Uruguay	-0.23712	2021	106
Paraguay	-0.34398	2021	107
Montenegro	-0.34537	2021	108
Malta	-0.36363	2021	109
Ethiopia	-0.38989	2021	110
Bolivia (Plurinational State of)	-0.4301	2021	111
Iceland	-0.4584	2021	112
Guyana	-0.54894	2021	113
Jordan	-0.56444	2021	114
Senegal	-0.58956	2021	115
Zambia	-0.60203	2021	116
Argentina	-0.63252	2021	117
Mozambique	-0.65636	2021	118
Zimbabwe	-0.6745	2021	119
Cameroon	-0.78381	2021	120
Lao People's Dem. Rep.	-0.78546	2021	121
Gabon	-0.78786	2021	122
Nepal	-0.808	2021	123

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Country	BCI	Year	Rank
Bahamas	-0.84807	2021	124
Andorra	-0.90083	2021	125
Malawi	-0.91286	2021	126
Congo	-0.94388	2021	127
Cabo Verde	-0.94609	2021	128
Djibouti	-0.94996	2021	129
Mongolia	-0.98425	2021	130
Dem. Rep. of the Congo	-1.02321	2021	131
Burundi	-1.03333	2021	132
State of Palestine	-1.04383	2021	133
French Polynesia	-1.04616	2021	134
Samoa	-1.09853	2021	135
Papua New Guinea	-1.11257	2021	136
Antigua and Barbuda	-1.13547	2021	137
Togo	-1.1689	2021	138
Albania	-1.17962	2021	139
Aruba	-1.18142	2021	140
Panama	-1.20405	2021	141
China, Macao SAR	-1.20476	2021	142
Saint Vincent and the Grenadines	-1.21877	2021	143
Grenada	-1.312	2021	144
Benin	-1.3343	2021	145
Tajikistan	-1.34656	2021	146
Dominica	-1.38058	2021	147
Burkina Faso	-1.39842	2021	148
Maldives	-1.45836	2021	149
Bermuda	-1.48769	2021	150
Seychelles	-1.50285	2021	151
Belize	-1.51311	2021	152
Nigeria	-1.52297	2021	153
Niger	-1.54227	2021	154
Cuba	-1.56023	2021	155
Suriname	-1.60082	2021	156
Cayman Isds	-1.69582	2021	157
Kiribati	-1.71316	2021	158
Comoros	-1.75937	2021	159
Sao Tome and Principe	-1.78226	2021	160
Mauritania	-1.78898	2021	161
Montserrat	-1.82756	2021	162
Timor-Leste	-1.90616	2021	163
Liberia	-1.97965	2021	164
Central African Rep.	-2.01457	2021	165
Gambia	-2.02401	2021	166
Qatar	-2.02585	2021	167
China	1.367975	2022	1
Poland	1.348539	2022	2
Turkey	1.316865	2022	3
Portugal	1.306798	2022	4
Germany	1.30005	2022	5
USA	1.287463	2022	6
Netherlands	1.278738	2022	7
France	1.270158	2022	8
Lithuania	1.26222	2022	9
Brazil	1.236494	2022	10
Bulgaria	1.232137	2022	11
Czechia	1.222293	2022	12
Slovenia	1.221143	2022	13
Switzerland	1.220614	2022	14
India	1.219338	2022	15
Romania	1.198546	2022	16
Greece	1.188717	2022	17
South Africa	1.170643	2022	18
Sweden	1.167049	2022	19
Italy	1.164309	2022	20
Serbia	1.155956	2022	21
Croatia	1.152936	2022	22
Austria	1.125831	2022	23
Canada	1.124787	2022	24
China, Hong Kong SAR	1.124154	2022	25
Malaysia	1.109391	2022	26
Rep. of Korea	1.092388	2022	27
Denmark	1.086762	2022	28
Indonesia	1.080502	2022	29
Japan	1.056105	2022	30
Belgium	1.041338	2022	31
Finland	1.02076	2022	32

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Country	BCI	Year	Rank
United Arab Emirates	1.017962	2022	33
Ireland	1.005541	2022	34
Spain	0.993621	2022	35
Other Asia, nes	0.989533	2022	36
Ukraine	0.969637	2022	37
Pakistan	0.960264	2022	38
Estonia	0.954158	2022	39
Thailand	0.950909	2022	40
Slovakia	0.90809	2022	41
Australia	0.862424	2022	42
Latvia	0.850174	2022	43
Norway	0.839589	2022	44
North Macedonia	0.830445	2022	45
Peru	0.823075	2022	46
New Zealand	0.819527	2022	47
Singapore	0.795329	2022	48
Guatemala	0.770528	2022	49
Colombia	0.765147	2022	50
Viet Nam	0.752846	2022	51
Sri Lanka	0.745621	2022	52
Bosnia Herzegovina	0.740863	2022	53
Morocco	0.707447	2022	54
Kenya	0.695876	2022	55
Tunisia	0.648767	2022	56
Uzbekistan	0.60914	2022	57
Luxembourg	0.588842	2022	58
Hungary	0.585676	2022	59
Mauritius	0.551288	2022	60
El Salvador	0.550489	2022	61
Chile	0.536396	2022	62
Saudi Arabia	0.522663	2022	63
Georgia	0.442562	2022	64
Rep. of Moldova	0.427057	2022	65
Philippines	0.419159	2022	66
United Kingdom	0.414569	2022	67
Egypt	0.380612	2022	68
Kazakhstan	0.36798	2022	69
Bahrain	0.362723	2022	70
Armenia	0.335729	2022	71
Namibia	0.301367	2022	72
Madagascar	0.301298	2022	73
Lebanon	0.250774	2022	74
Oman	0.248901	2022	75
Costa Rica	0.1951	2022	76
Israel	0.190661	2022	77
Ecuador	0.178699	2022	78
Rwanda	0.140697	2022	79
Iran	0.123046	2022	80
Dominican Rep.	0.11122	2022	81
Botswana	0.111184	2022	82
Ghana	0.074685	2022	83
Eswatini	0.058773	2022	84
Brunei Darussalam	0.048832	2022	85
Uganda	0.036352	2022	86
Nicaragua	0.015686	2022	87
Cyprus	-0.0492	2022	88
Kuwait	-0.08407	2022	89
Ivory Coast	-0.10163	2022	90
Cambodia	-0.10686	2022	91
Mexico	-0.1101	2022	92
United Rep. of Tanzania	-0.11786	2022	93
Angola	-0.12125	2022	94
Kyrgyzstan	-0.13252	2022	95
Azerbaijan	-0.15084	2022	96
Lesotho	-0.15086	2022	97
Fiji	-0.16059	2022	98
Paraguay	-0.20538	2022	99
Uruguay	-0.29499	2022	100
Trinidad and Tobago	-0.34999	2022	101
Argentina	-0.36168	2022	102
Ethiopia	-0.36261	2022	103
Barbados	-0.39837	2022	104
Montenegro	-0.40463	2022	105
Myanmar	-0.4054	2022	106
Jordan	-0.41333	2022	107
Malta	-0.43979	2022	108

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Country	BCI	Year	Rank
Iceland	-0.46454	2022	109
Senegal	-0.47638	2022	110
Guyana	-0.53387	2022	111
Bolivia (Plurinational State of)	-0.56612	2022	112
Jamaica	-0.58516	2022	113
Zimbabwe	-0.60892	2022	114
Mozambique	-0.65916	2022	115
Zambia	-0.67322	2022	116
Djibouti	-0.68861	2022	117
Mongolia	-0.70665	2022	118
Bahamas	-0.78402	2022	119
Andorra	-0.78744	2022	120
Malawi	-0.81656	2022	121
Gabon	-0.83076	2022	122
Nepal	-0.9107	2022	123
Congo	-0.95175	2022	124
Cabo Verde	-0.95985	2022	125
Samoa	-1.00951	2022	126
French Polynesia	-1.05529	2022	127
State of Palestine	-1.06491	2022	128
Togo	-1.0901	2022	129
Benin	-1.15076	2022	130
Aruba	-1.16529	2022	131
Tajikistan	-1.19557	2022	132
Dem. Rep. of the Congo	-1.20786	2022	133
Burkina Faso	-1.24569	2022	134
Panama	-1.25565	2022	135
China, Macao SAR	-1.28248	2022	136
Antigua and Barbuda	-1.29642	2022	137
Burundi	-1.2982	2022	138
Timor-Leste	-1.37404	2022	139
Belize	-1.37605	2022	140
Seychelles	-1.39893	2022	141
Dominica	-1.48537	2022	142
Saint Vincent and the Grenadines	-1.49734	2022	143
Nigeria	-1.50555	2022	144
Suriname	-1.55626	2022	145
Niger	-1.56872	2022	146
Bermuda	-1.58059	2022	147
Grenada	-1.58927	2022	148
Cuba	-1.59225	2022	149
Maldives	-1.71019	2022	150
Mauritania	-1.78737	2022	151
Montserrat	-1.86755	2022	152
Sao Tome and Principe	-1.89086	2022	153
Cayman Isds	-1.95147	2022	154
Liberia	-1.96127	2022	155
Albania	-1.98574	2022	156
Gambia	-1.99782	2022	157
Qatar	-2.04598	2022	158
Central African Rep.	-2.06452	2022	159
Turkey	1.373858	2023	1
Poland	1.370027	2023	2
China	1.353966	2023	3
India	1.346225	2023	4
Netherlands	1.330592	2023	5
Czechia	1.311581	2023	6
USA	1.301397	2023	7
Portugal	1.301153	2023	8
Germany	1.295214	2023	9
Japan	1.266634	2023	10
Lithuania	1.266036	2023	11
Slovenia	1.248907	2023	12
Switzerland	1.241559	2023	13
Brazil	1.234071	2023	14
Bulgaria	1.213247	2023	15
France	1.205178	2023	16
South Africa	1.195424	2023	17
Canada	1.190041	2023	18
Greece	1.184051	2023	19
Austria	1.176647	2023	20
Other Asia, nes	1.161787	2023	21
Serbia	1.155389	2023	22
Sweden	1.141321	2023	23
Croatia	1.125743	2023	24
China, Hong Kong SAR	1.090002	2023	25

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Country	BCI	Year	Rank
Italy	1.07772	2023	26
Rep. of Korea	1.0686	2023	27
Slovakia	1.061137	2023	28
Finland	1.06032	2023	29
Denmark	1.047456	2023	30
Ireland	1.022503	2023	31
Malaysia	0.998565	2023	32
Belgium	0.987428	2023	33
Spain	0.970923	2023	34
Australia	0.958316	2023	35
Indonesia	0.926716	2023	36
Thailand	0.922214	2023	37
Norway	0.908465	2023	38
Pakistan	0.903837	2023	39
Romania	0.884131	2023	40
United Arab Emirates	0.854916	2023	41
Estonia	0.825481	2023	42
Sri Lanka	0.816808	2023	43
Colombia	0.812012	2023	44
New Zealand	0.804067	2023	45
Guatemala	0.802694	2023	46
Latvia	0.790608	2023	47
Singapore	0.745561	2023	48
Kenya	0.733994	2023	49
Morocco	0.719101	2023	50
Peru	0.71554	2023	51
Ukraine	0.700473	2023	52
North Macedonia	0.700271	2023	53
Kazakhstan	0.636693	2023	54
Bosnia Herzegovina	0.613672	2023	55
Uzbekistan	0.583235	2023	56
Tunisia	0.576571	2023	57
United Kingdom	0.568087	2023	58
Luxembourg	0.512678	2023	59
El Salvador	0.468931	2023	60
Egypt	0.449638	2023	61
Mauritius	0.443644	2023	62
Rep. of Moldova	0.405668	2023	63
Namibia	0.403508	2023	64
Philippines	0.363356	2023	65
Georgia	0.358306	2023	66
Trinidad and Tobago	0.348928	2023	67
United Rep. of Tanzania	0.307254	2023	68
Uganda	0.292887	2023	69
Dominican Rep.	0.283535	2023	70
Costa Rica	0.257521	2023	71
Hungary	0.220823	2023	72
Saudi Arabia	0.183681	2023	73
Armenia	0.173258	2023	74
Ivory Coast	0.16344	2023	75
Oman	0.091674	2023	76
Madagascar	0.087795	2023	77
Israel	0.081542	2023	78
Bahrain	0.074184	2023	79
Botswana	0.069027	2023	80
Eswatini	0.067814	2023	81
Lebanon	0.05059	2023	82
Fiji	0.030561	2023	83
Honduras	-0.02323	2023	84
Nicaragua	-0.0248	2023	85
Azerbaijan	-0.04301	2023	86
Ghana	-0.04716	2023	87
Angola	-0.13728	2023	88
Jordan	-0.13825	2023	89
Kyrgyzstan	-0.16978	2023	90
Lesotho	-0.17621	2023	91
Kuwait	-0.20367	2023	92
Senegal	-0.24587	2023	93
Uruguay	-0.26049	2023	94
Cambodia	-0.28471	2023	95
Paraguay	-0.3032	2023	96
Zambia	-0.35464	2023	97
Guyana	-0.36376	2023	98
Mexico	-0.36914	2023	99
Djibouti	-0.37682	2023	100
Brunei Darussalam	-0.41313	2023	101

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Country	BCI	Year	Rank
Argentina	-0.44657	2023	102
Iceland	-0.48005	2023	103
Montenegro	-0.49356	2023	104
Ethiopia	-0.51704	2023	105
Jamaica	-0.5461	2023	106
Cyprus	-0.61401	2023	107
Barbados	-0.63732	2023	108
State of Palestine	-0.65214	2023	109
Malta	-0.6937	2023	110
Zimbabwe	-0.69742	2023	111
Gabon	-0.71782	2023	112
Cabo Verde	-0.76291	2023	113
Aruba	-0.79108	2023	114
Bolivia (Plurinational State of)	-0.81544	2023	115
Burkina Faso	-0.82307	2023	116
Bahamas	-0.89456	2023	117
Andorra	-0.90925	2023	118
Malawi	-0.91245	2023	119
Togo	-0.95161	2023	120
Benin	-0.97216	2023	121
Samoa	-1.04662	2023	122
Nigeria	-1.06906	2023	123
Mozambique	-1.07394	2023	124
Myanmar	-1.1104	2023	125
Tajikistan	-1.11817	2023	126
Saint Vincent and the Grenadines	-1.14964	2023	127
Albania	-1.1673	2023	128
Timor-Leste	-1.17314	2023	129
Dem. Rep. of the Congo	-1.18592	2023	130
Antigua and Barbuda	-1.20441	2023	131
Belize	-1.27168	2023	132
Panama	-1.29884	2023	133
Bermuda	-1.35047	2023	134
Dominica	-1.42879	2023	135
China, Macao SAR	-1.45242	2023	136
Grenada	-1.48841	2023	137
Seychelles	-1.5299	2023	138
Mauritania	-1.57655	2023	139
Ecuador	-1.65247	2023	140
Niger	-1.69117	2023	141
Cayman Isds	-1.76285	2023	142
Chile	-1.80502	2023	143
French Polynesia	-1.80837	2023	144
Montserrat	-1.85766	2023	145
Gambia	-1.87542	2023	146
Suriname	-1.8773	2023	147
Sao Tome and Principe	-1.90717	2023	148
Liberia	-1.93879	2023	149
Central African Rep.	-1.9616	2023	150
Qatar	-1.96772	2023	151
Maldives	-2.00381	2023	152

Appendix C. Appendix Section: 3

Product categories of Top 10 BCI ranked countries for 2019–2023

Year	Country	Number of Commodities	Categories
2023	China	351	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2023	Czechia	332	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2023	Germany	338	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2023	India	346	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2023	Japan	330	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2023	Netherlands	335	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2023	Poland	349	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders

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Year	Country	Number of Commodities	Categories
2019	Germany	472	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2019	India	487	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2019	Netherlands	459	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2019	Poland	468	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2019	Turkey	480	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2019	USA	482	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders

Product categories of bottom 10 BCI ranked countries for 2019–2023

Year	Country	Number of Commodities	Categories
2023	Central African Rep.	4	Bioplastics, Bio-based Textiles, Bio-based Lubricants
2023	Chile	32	Bioplastics, Bio-based Lubricants, Biofuels, Biochemicals, Bio-based Textiles, Bio-based Adhesives & Binders
2023	French Polynesia	8	Bio-based Surfactants, Bioplastics, Bio-based Lubricants, Bio-based Adhesives & Binders
2023	Gambia	8	Biofuels, Bio-based Textiles, Bio-based Surfactants, Bio-based Lubricants
2023	Liberia	8	Bio-based Lubricants, Biofuels, Bio-based Surfactants, Bio-based Textiles, Bio-based Adhesives & Binders
2023	Maldives	2	Bioplastics
2023	Montserrat	7	Bio-based Surfactants, Bioplastics, Bio-based Lubricants, Bio-based Adhesives & Binders
2023	Qatar	5	Bioplastics, Bio-based Lubricants, Biofuels
2023	Sao Tome and Principe	8	Bio-based Textiles, Bio-based Adhesives & Binders, Bio-based Surfactants
2023	Suriname	9	Bioplastics, Bio-based Lubricants, Biochemicals, Bio-based Adhesives & Binders
2022	Albania	6	Bio-based Textiles, Bio-based Adhesives & Binders, Biofuels
2022	Cayman Isds	10	Biofuels, Bioplastics, Bio-based Textiles, Bio-based Adhesives & Binders
2022	Central African Rep.	2	Bio-based Adhesives & Binders
2022	Gambia	5	Bio-based Surfactants, Bio-based Textiles, Biofuels
2022	Liberia	16	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Bio-based Surfactants, Bio-based Textiles, Bio-based Adhesives & Binders
2022	Maldives	24	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Bio-based Textiles, Bio-based Adhesives & Binders
2022	Mauritania	21	Bioplastics, Bio-based Lubricants, Biofuels, Bio-based Surfactants, Bio-based Textiles, Bio-based Adhesives & Binders
2022	Montserrat	14	Bioplastics, Bio-based Lubricants, Biofuels, Bio-based Textiles, Bio-based Adhesives & Binders
2022	Qatar	3	Bio-based Solvents, Biofuels
2022	Sao Tome and Principe	18	Bioplastics, Bio-based Lubricants, Bio-based Surfactants, Bio-based Textiles, Bio-based Adhesives & Binders
2021	Central African Rep.	6	Bioplastics, Bio-based Textiles
2021	Comoros	23	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Bio-based Textiles, Bio-based Adhesives & Binders
2021	Gambia	4	Bio-based Textiles, Biofuels
2021	Kiribati	22	Bioplastics, Bio-based Lubricants, Biofuels, Bio-based Textiles, Bio-based Adhesives & Binders
2021	Liberia	7	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Bio-based Textiles
2021	Mauritania	21	Bioplastics, Bio-based Lubricants, Biofuels, Bio-based Surfactants, Bio-based Textiles, Bio-based Adhesives & Binders
2021	Montserrat	18	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Bio-based Textiles
2021	Qatar	4	Bio-based Solvents, Biofuels
2021	Sao Tome and Principe	22	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Bio-based Surfactants, Bio-based Textiles, Bio-based Adhesives & Binders
2021	Timor-Leste	9	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Surfactants, Bio-based Adhesives & Binders
2020	Cabo Verde	8	Biochemicals, Bioplastics, Bio-based Textiles
2020	Comoros	10	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Biofuels, Bio-based Textiles, Bio-based Adhesives & Binders
2020	Gambia	11	Bioplastics, Bio-based Lubricants, Bio-based Surfactants, Bio-based Textiles, Bio-based Adhesives & Binders
2020	Maldives	5	Bio-based Textiles, Biofuels
2020	Montserrat	12	Bioplastics, Bio-based Lubricants, Bio-based Solvents, Bio-based Surfactants, Bio-based Textiles
2020	Qatar	4	Bio-based Adhesives & Binders, Bio-based Solvents, Biofuels
2020	Sao Tome and Principe	12	Bio-based Textiles, Bio-based Surfactants
2020	Suriname	10	Bio-based Textiles, Bioplastics, Bio-based Adhesives & Binders
2020	Timor-Leste	6	Bio-based Lubricants, Biofuels, Bio-based Surfactants, Bio-based Textiles
2019	Gambia	13	Bioplastics, Bio-based Lubricants, Biofuels, Bio-based Surfactants, Bio-based Textiles
2019	Liberia	5	Bio-based Lubricants, Bio-based Solvents, Bio-based Adhesives & Binders
2019	Maldives	1	Bio-based Textiles
2019	Mauritania	7	Bioplastics, Bio-based Lubricants, Bio-based Surfactants, Bio-based Textiles, Bio-based Adhesives & Binders
2019	Montserrat	5	Bio-based Textiles, Bioplastics, Bio-based Lubricants
2019	Qatar	5	Bioplastics, Bio-based Solvents, Biofuels
2019	Sao Tome and Principe	5	Bio-based Textiles, Bio-based Lubricants
2019	Suriname	11	Bioplastics, Bio-based Lubricants, Bio-based Textiles, Bio-based Adhesives & Binders
2019	Timor-Leste	3	Bio-based Adhesives & Binders
2019	Yemen	6	Bio-based Textiles, Bio-based Surfactants, Bio-based Lubricants, Biofuels

Appendix D. Appendix Section: 4

Comparison of BCI and macroeconomic indicators for 2019–2023 of top and bottom 10 BCI ranked countries

Year	Country	BCI	BCI rank	GDP per capita	ECI	ECI rank	EDI
2023	Turkey	1.373858	1	42326	0.457596	42	0.374
2023	Poland	1.370027	2	46570	0.71279	33	0.413
2023	China	1.353966	3	24569	1.470626	16	0.365
2023	India	1.346225	4	10166	0.450923	44	0.425
2023	Netherlands	1.330592	5	78305	1.292931	22	0.324
2023	Czechia	1.311581	6	53217	1.660379	11	0.433
2023	USA	1.301397	7	82305	1.50559	15	0.224
2023	Portugal	1.301153	8	47331	0.574752	37	0.396
2023	Germany	1.295214	9	69206	2.012499	6	0.309
2023	Japan	1.266634	10	49794	2.42997	3	0.406
2022	China	1.367975	1	22510	1.458051	17	0.395
2022	Poland	1.348539	2	46077	0.777349	31	0.41
2022	Turkey	1.316865	3	39101	0.345396	46	0.398
2022	Portugal	1.306798	4	44557	0.403472	44	0.403
2022	Germany	1.30005	5	67590	2.056241	6	0.325
2022	USA	1.287463	6	77861	1.558914	15	0.219
2022	Netherlands	1.278738	7	77152	1.284538	21	0.339
2022	France	1.270158	8	56181	1.30205	20	0.332
2022	Lithuania	1.26222	9	50498	0.714346	33	0.427
2022	Brazil	1.236494	10	19877	-0.2777	71	0.605
2021	China	1.385911	1	20407	1.324199	20	0.383
2021	USA	1.349943	2	71307	1.579359	13	0.228
2021	Turkey	1.349634	3	31338	0.225266	54	0.421
2021	Germany	1.32898	4	62531	2.138392	6	0.303
2021	India	1.324857	5	8050	0.407238	46	0.451
2021	Netherlands	1.296894	6	68574	1.134451	28	0.313
2021	Czechia	1.291147	7	47796	1.633472	11	0.418
2021	Poland	1.284618	8	41060	0.778186	32	0.421
2021	Bulgaria	1.243996	9	29305	0.416135	45	0.443
2021	Slovenia	1.237766	10	45914	1.527324	15	0.437
2020	India	1.354512	1	6966	0.474713	45	0.448
2020	China	1.332575	2	17891	1.319358	20	0.385
2020	Germany	1.31021	3	58686	2.188232	6	0.293
2020	Netherlands	1.308233	4	62597	1.193626	25	0.315
2020	Turkey	1.284363	5	28680	0.216478	54	0.424
2020	USA	1.27814	6	64402	1.557605	15	0.232
2020	Czechia	1.269098	7	44839	1.646148	11	0.417
2020	Portugal	1.266637	8	35967	0.472668	46	0.412
2020	Italy	1.264433	9	44436	1.370561	18	0.345
2020	Poland	1.240298	10	36714	0.777458	32	0.407
2019	Turkey	1.391378	1	28461	0.236039	52	0.409
2019	India	1.376669	2	7151	0.448681	46	0.439
2019	USA	1.363764	3	65228	1.530949	15	0.23
2019	China	1.360964	4	17262	1.338647	18	0.404
2019	Netherlands	1.348752	5	62345	1.168302	25	0.315
2019	Germany	1.331094	6	59271	2.112906	5	0.304
2019	Poland	1.321078	7	35882	0.850415	32	0.407
2019	China, Hong Kong SAR	1.29162	8	61221	1.218815	22	0.572
2019	Belarus	1.290926	9	22302	0.491308	43	0.544
2019	Belgium	1.290636	10	56712	1.160021	26	0.411
2023	Chile	-1.80502	143	32802.87	-0.43514	88	0.803
2023	French Polynesia	-1.80837	144	22759.00	0	0	0.733
2023	Montserrat	-1.85766	145	18197.00	0	0	0.597
2023	Gambia	-1.87542	146	3254.37	0	0	0.757
2023	Suriname	-1.8773	147	21135.55	0	0	0.808
2023	Sao Tome and Principe	-1.90717	148	6149.98	0	0	0.735
2023	Liberia	-1.93879	149	1794.53	-0.99052	121	0.814
2023	Central African Rep.	-1.9616	150	1257.09	0	0	0.799
2023	Qatar	-1.96772	151	128918.55	-0.34698	83	0.793
2023	Maldives	-2.00381	152	24735.08	0	0	0.823
2022	Maldives	-1.71019	150	22880.51	0	0	0.792
2022	Mauritania	-1.78737	151	6484.83	-1.186	134	0.89
2022	Montserrat	-1.86755	152	16228.00	0	0	0.536
2022	Sao Tome and Principe	-1.89086	153	6033.68	0	0	0.698
2022	Cayman Isds	-1.95147	154	81803.10	0	0	0.873
2022	Liberia	-1.96127	155	1691.57	-0.81435	107	0.773
2022	Albania	-1.98574	156	19446.24	-0.49562	89	0.69
2022	Gambia	-1.99782	157	3067.31	0	0	0.751
2022	Qatar	-2.04598	158	122920.50	-0.10255	62	0.756
2022	Central African Rep.	-2.06452	159	1217.85	0	0	0.795
2021	Kiribati	-1.71316	158	3049.47	0	0	0.78

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Year	Country	BCI	BCI rank	GDP per capita	ECI	ECI rank	EDI
2021	Comoros	-1.75937	159	3441.21	0	0	0.782
2021	Sao Tome and Principe	-1.78226	160	5732.69	0	0	0.739
2021	Mauritania	-1.78898	161	5836.57	-1.53223	143	0.9
2021	Montserrat	-1.82756	162	15750.00	0	0	0.636
2021	Timor-Leste	-1.90616	163	6824.79	0	0	0.822
2021	Liberia	-1.97965	164	1539.21	-1.40202	140	0.849
2021	Central African Rep.	-2.01457	165	1128.55	0	0	0.746
2021	Gambia	-2.02401	166	2777.80	0	0	0.744
2021	Qatar	-2.02585	167	116832.57	-0.26335	66	0.809
2020	Montserrat	-1.75512	157	14829.00	0	0	0.59
2020	Sao Tome and Principe	-1.76941	158	5144.54	0	0	0.725
2020	Comoros	-1.77967	159	3261.59	0	0	0.787
2020	Suriname	-1.78079	160	16946.89	0	0	0.866
2020	Gambia	-1.80124	161	2530.80	0	0	0.779
2020	Cabo Verde	-1.81842	162	6852.58	0	0	0.728
2020	Timor-Leste	-1.83318	163	6132.08	0	0	0.824
2020	Maldives	-1.84118	164	13425.37	0	0	0.831
2020	Qatar	-1.88	165	82149.36	0.260914	53	0.81
2020	Central African Rep.	-1.89835	166	1066.29	0	0	0.794
2019	Suriname	-1.826	159	19771.55	0	0	0.881
2019	Gambia	-1.83122	160	2421.72	0	0	0.73
2019	Mauritania	-1.87222	161	5610.13	-1.29267	137	0.867
2019	Yemen	-1.88562	162	623.38	-1.296	138	0.738
2019	Qatar	-1.93469	163	107502.47	-0.10224	64	0.799
2019	Montserrat	-1.93781	164	14821.00	0	0	0.575
2019	Sao Tome and Principe	-1.95728	165	4655.48	0	0	0.668
2019	Liberia	-1.96898	166	1899.52	-0.9159	114	0.842
2019	Timor-Leste	-1.99531	167	4556.61	0	0	0.789
2019	Maldives	-2.01172	168	23077.21	0	0	0.847

Appendix E. Supplementary data

Supplementary data to this article can be found online at <https://doi.org/10.1016/j.eneco.2026.109211>.

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