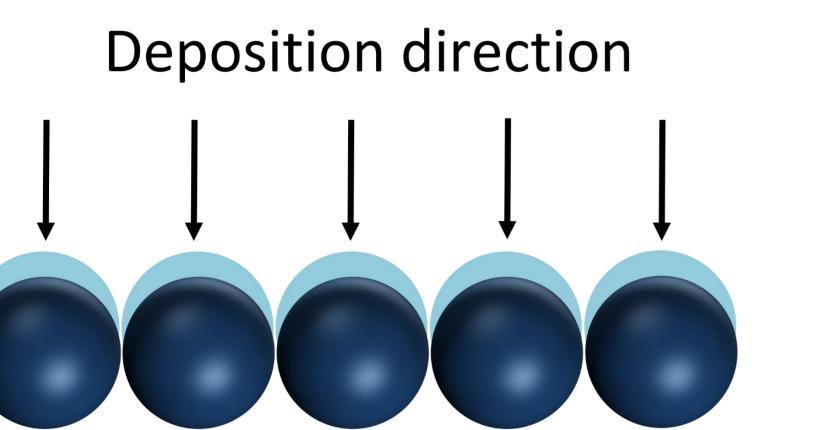
Tuning shape-imposed anisotropy via magnetic multilayers on self-organized nanospheres

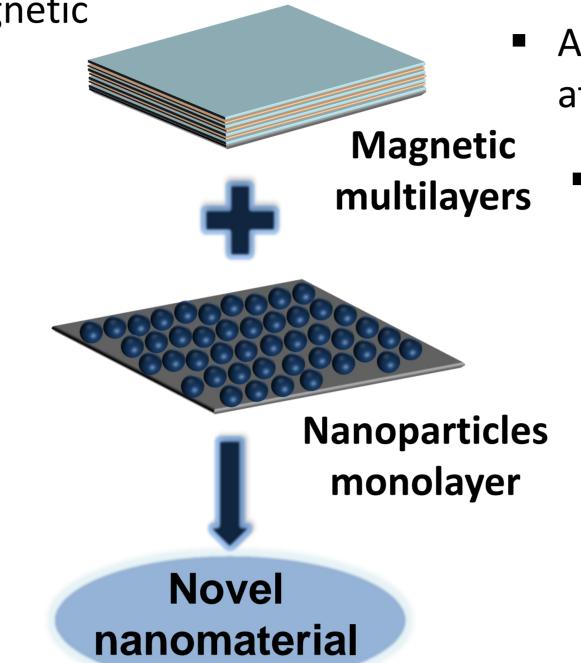


A.Qdemat, E. Kentzinger, J. Buitenhuis, S. Pütter, M. H. Hamed, C. B. Meinke, O. Petracic, and T. Brückel

Introduction & Motivation

- Investigate the influence of curved surfaces on the magnetic thin film properties
- Tuning shape-imposed anisotropy
- Study the NP size dependence in the magnetization reversal of the magnetic multilayers





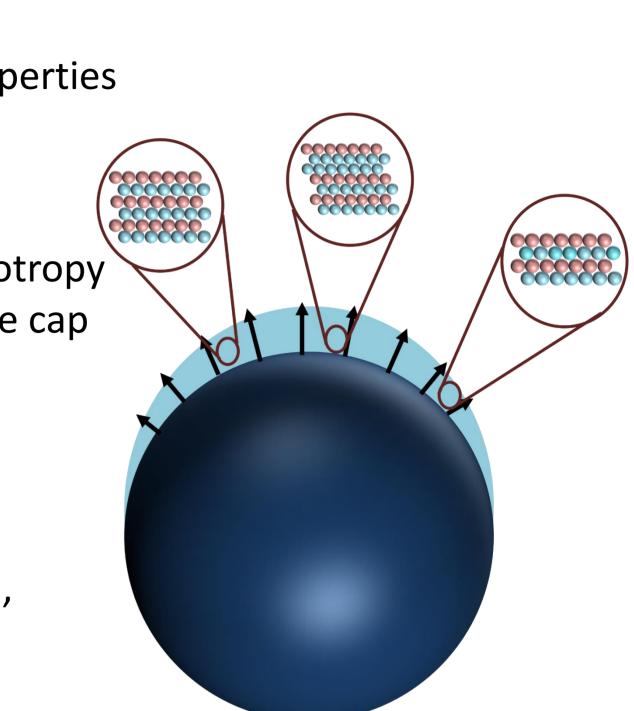
 Appealing properties arise from the combination of properties at different length scales

Different thickness levels radial symmetric anisotropy orientation across the cap

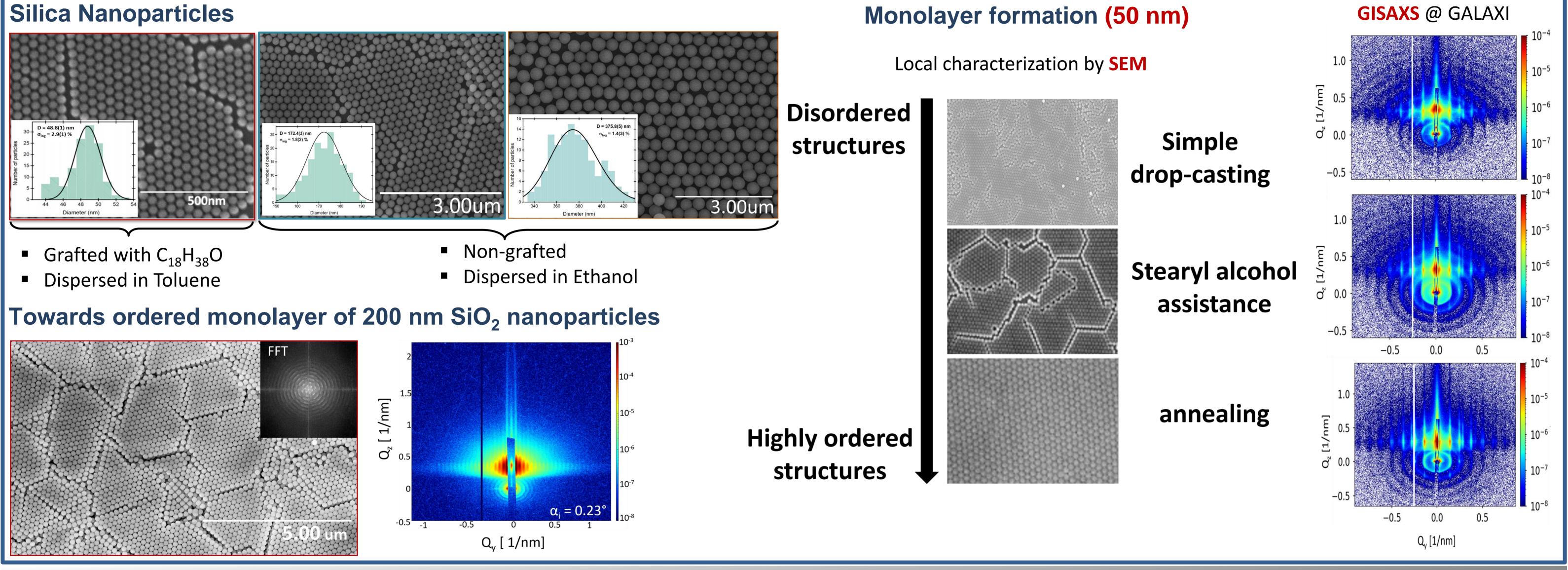
Control magnetism reversal

improve applications

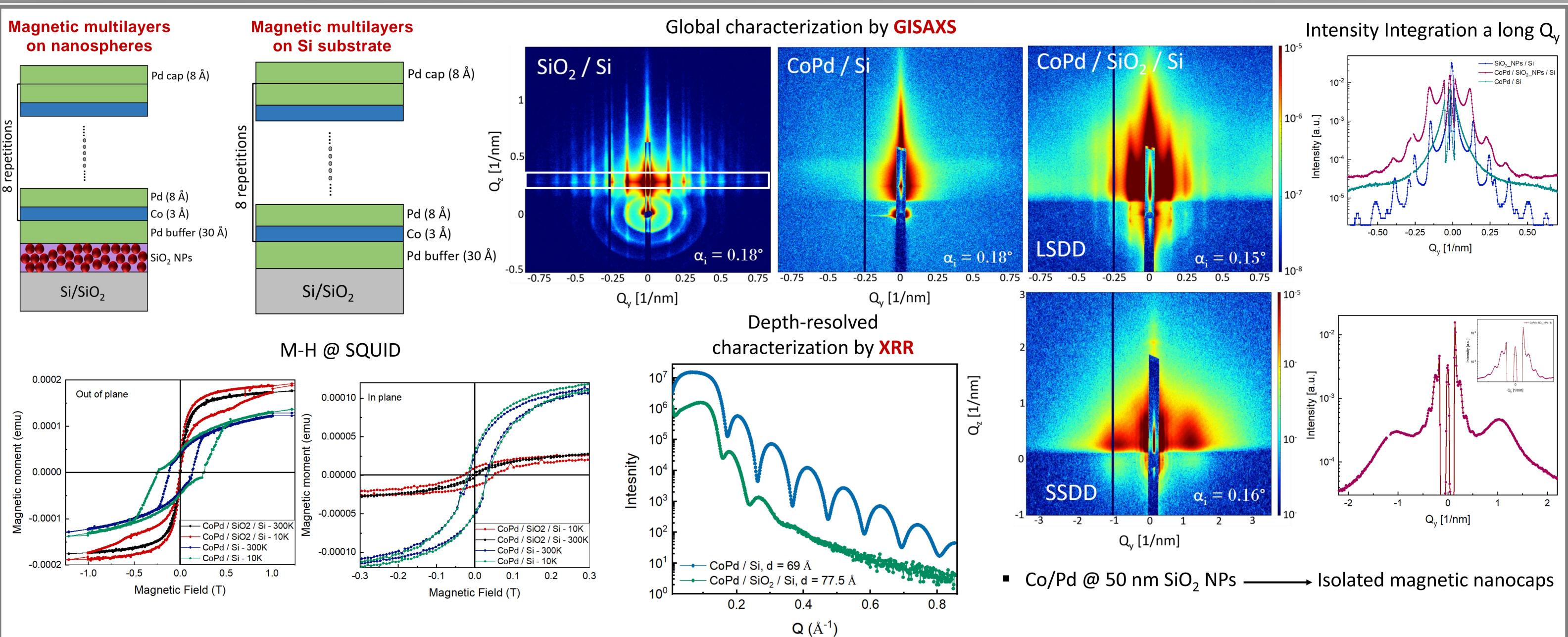
data storage, recording media, biomedical technology



ordered monolayer of nanoparticles



Co/Pd multilayers on SiO₂ nanospheres



Acknowledgment

Contact
a.qdemat@fz-juelich.de