

Articles:

1. *Investigation of the Soret effect in binary liquid mixtures by TDFRS-contribution to the benchmark test*, C. Leppla, S. Wiegand, Philosophical Magazine, accepted. ([pdf](#))
2. *Benchmark values for the Soret, thermal diffusion, and diffusion coefficients of three binary organic liquid mixtures*, J.K. Platten, M.M. Bou-Ali, P. Costesèque, J.F. Dutrieux, W. Köhler, C. Leppla, S. Wiegand, G. Wittko, Philosophical Magazine, accepted ([pdf](#)).
3. *Suppression of multiple scattering for the critical mixture polystyrene/cyclohexane: application of the one-beam cross-correlation technique*, J.-M. Schröder and S. Wiegand, Journal of Chemical Physics, 118 (2003), p.11307-11314. ([pdf](#))
4. *Negative thermodiffusion of polymers and colloids in solvent mixtures*, B.-J. de Gans, R. Kita, B. Müller and S. Wiegand, Journal of Chemical Physics 118(2003), p. 8073-8081. ([pdf](#))
5. *To the hot or to the cold? Unusual thermal diffusion in polymer solutions*, B.-J. de Gans, S. Wiegand and J. Luettmmer-Strathmann, Physical Review Letters, submitted.
6. *Suppression of multiple scattering in a depolarized light scattering experiment using the one-beam set-up*, J.-M. Schröder and S. Wiegand, Soft Materials, 1(2003), p.55-63. ([pdf](#))
7. *A light scattering study of the self-assembly of dendron rodcoil molecules*, B.J. de Gans, S. Wiegand, E.R. Zubarev, S.I. Stupp, Journal of Physical Chemistry B, 106 (2002), p.9730-9736. ([pdf](#))
8. *How does the chain extension of poly(acrylic acid) scale in aqueous solution? A combined study with light scattering and computer simulation*, D. Reith, B. Müller, F. Müller-Plathe and S. Wiegand, J. Chem. Phys., 116 (2002), p. 9100-9106. ([pdf](#))
9. *Soret and mass diffusion measurements and molecular dynamics simulations of n-pentane-n-decane mixtures*, A. Perronace, C. Leppla, F. Leroy, B. Rousseau, S. Wiegand, J. Chem. Phys, 116 (2002), p. 3718-3729. ([pdf](#))
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12. *Coil-ring block copolymers as building blocks of hollow supramolecular cylindrical brushes*, S. Rosselli, A.-D. Ramminger, T. Wagner, B. Silier, S. Wiegand, W.Häußler, G.Lieser, V.Scheumann and S. Höger, *Angew. Chemie Int. Ed.*, 40 (2001), p.3138-3141 ([pdf](#))
13. *Measurement of Transport Coefficients by an Optical Grating Technique*, S. Wiegand and W. Köhler, in *Thermal Nonequilibrium Phenomena in Fluid Mixtures*, Springer, Berlin, (2002), p.189-210 ([pdf](#))
14. *Characterization of the grain size in ferromagnetic colloids: Comparing torsional-pendulum measurements with standard complementary methods*, J. Embs, H.W. Müller, C.E. Krill III, F. Meyer, H. Natter, B. Müller, S. Wiegand, M. Lücke, K. Knorr, R. Hempelmann, *Appl. Phys. A*, submitted
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16. *Ionic fluids near critical points and at high temperatures*, J.M.H. Levelt Sengers, A.H. Harvey and S. Wiegand, Chapter for IUPAC Volume on *Equations of State for Fluids and Fluid Mixtures*, Eds. J.V. Sengers, R.F. Kayser, C.F. Peters and H.J. White, Jr., (2000), p.805-847 ([pdf](#))
17. *Experimental suppression of multiple scattering: Effect on dynamic and static scattering data*, J.-M. Schröder and S. Wiegand, *Phys. Chem. Chem. Phys.*, 2 (2000), 1493-1495 ([pdf](#))
18. *Crystal structure of 1-ethyl-2-(1-ethyl-1H-quinoline-2-ylidenemethylene)-quinolinium nitrate monohydrate*, (C₂₃H₂₅N₂)NO₃·H₂O, O. Koch, E. Lork, M. Kleemeier, S. Wiegand and W. Schröer, *Z. Kristallogr. NCS*, 214 (1999), p. 567-568
19. *Application of the TDFRS technique to investigate the asymptotic behavior of the Soret coefficient in a critical binary mixture*, S. Wiegand, *Entropie*, 218 (1999), p. 69
20. *Experimental determination of singly scattered light close to the critical point in a polystyrene-cyclohexane mixture*, J.-M. Schröder, S. Wiegand, L. B. Aberle, M. Kleemeier, W. Schröer, *Phys. Chem. Chem. Phys.*, 1 (1999), p. 3287-3292 ([pdf](#))
21. *The liquid-liquid phase transition in ionic solutions: Coexistence curves of tetra-n-butylammonium picrate in alkyl alcohols*, M. Kleemeier, S. Wiegand, W. Schröer and H. Weingärtner, *J. Chem. Phys.*, 110 (1999), p. 3085-3099 ([pdf](#))
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24. *Effective suppression of multiply scattered light in static and dynamic light scattering*, L.B. Aberle, P. Hülstede, S. Wiegand, W. Schröer, W. Staude, *Applied Optics*, 37 (1998), p.6511-6524 ([pdf](#))
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26. *The critical Interface of an ionic Ising mixture*, C.L. Caylor, B.M.Law, P.Senanayake, V.L. Kuzmin, V.P.Romanov and S. Wiegand, *Phys. Rev. E*, 56 (1997), p.4441-4450 ([pdf](#))
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33. *The Effect of Short-Range Hydrogen-Bonded Interactions on the Nature of the Critical Point of Ionic Fluids. Part II: Static and Dynamic Light-scattering on Solutions of Ethylammonium Nitrate in n-Octanol*, W. Schröer, S. Wiegand, H. Weingärtner, *Ber. Bunsenges. Physik. Chemie*, 97 (1993), p.975-982.
34. *The Effect of Short-Range Hydrogen-Bonded Interactions on the Nature of the Critical Point of Ionic Fluids. Part I General Properties of a New System Ethylammonium Nitrate+n-Octanol with an Upper Consolute Point Near Room Temperature*, H. Weingärtner, T. Merkel, S. Kāshammer, W. Schröer, S. Wiegand, *Ber. Bunsenges. Physik. Chemie*, 97 (1993), p.970-975
35. *Near-critical light scattering of an ionic fluid with liquid-liquid phase transition*; H. Weingärtner, S. Wiegand, W. Schröer, *J. Chem. Phys.*, 96 (1992), p.848 –851

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37. *Mit Diodenlasern angeregte Festkörperlaser*, I. Schütz, S. Wiegand, R. Wallenstein, Laser und Optoelektronik, 20 (1988) S.39

Books:

1. W. Köhler, S. Wiegand, *Thermal Nonequilibrium Phenomena in Fluid Mixtures*, LNP 584, Springer, Berlin, (2002)