

List of publications:

Refereed publications (*h-index=34*):

1. Mohanakumar, S and S. Wiegand, *Towards understanding specific ion effects in aqueous media using thermodiffusion*, The Eur. Phys. J. E 45 (2022) 10.
2. Lee, N., Afanasenkau, D., Rinklin, P., Wolfrum, B., Wiegand, S. *Temperature profile characterization with fluorescence lifetime imaging microscopy in a thermophoretic chip*. The Eur. Phys. J. E 44 (2021) 130.
3. Mohanakumar, S., Luettmer-Strathmann, J., and S. Wiegand, *Thermodiffusion of aqueous solutions of various potassium salts*, J Chem Phys, 154 (2021) 84506.
4. Lee, N.; Wiegand, S. *Thermophoretic Micron-Scale Devices: Practical Approach and Review*. Entropy 2020, 22, 950.
5. Niether, D.; Sarter, M.; Koenig, B. W.; Fitter, J.; Stadler, A. M.; Wiegand, S. *Thermophoresis: The Case of Streptavidin and Biotin*. Polymers, 12 (2020) 376:1-15.
6. Sarter, M., Niether, D., Koenig, B.W., Lohstroh, W., Zamponi, M., Jalarvo, N.H., Wiegand, S., Fitter, J. and Stadler, A., *Strong Adverse Contribution of Conformational Dynamics to Streptavidin-Biotin Binding*, The Journal of Physical Chemistry B, vol 124 (2019) 324-335.
7. Niether, D. and S. Wiegand, *Thermophoresis of biological and biocompatible compounds in aqueous solution*, Journal of Physics – Condensed Matter, 31 (2019) 503003:1-25.
8. Niether, D. and S. Wiegand, *Thermodiffusion and hydrolysis of 1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide (EDC)*, The European Physical Journal E, 42 (2019) 68:1-7.
9. Junker, N.O., F. Vaghefikia, A. Albarghash, H. Höfig, D. Kempe, J. Walter, J. Otten, M. Pohl, A. Katranidis, S. Wiegand and J. Fitter, *The Impact of Molecular Crowding on Translational Mobility and Conformational Properties of Biological Macromolecules*, The Journal of Physical Chemistry B, 123 (2019) 4477–4486.
10. Bjelčić, M., D. Niether and S. Wiegand, Correlation between thermophoretic behavior and hydrophilicity for various alcohols, The European Physical Journal E, 42 (2019) 68:1-7.
11. Wang, Z., D. Niether, J. Buitenhuis, Y. Liu, Y., P.R. Lang, J.K.G. Dhont and S. Wiegand, Thermophoresis of a colloidal rod: Steric and Charge contributions, Langmuir, 35 (2019) 1000-1007.
12. Sehnem, A.L., A.M. Figueiredo Neto, D. Niether, and S. Wiegand, Diffusiophoresis as the Ruling Effect of the Thermodiffusion of Iron Oxide Nanoparticles Dispersed in Aqueous Solutions Containing Organic Salts, Physical Review E, 98 (2018) 989.
13. Niether, D., H. Kriegs, J.K.G. Dhont, and S. Wiegand, Peptide model systems: Correlation between thermophilicity and hydrophilicity. J. Chem. Phy., 149 (2018) 044506:1-8.
14. Dang, K.M., P. Rinklin, D. Afanasenkau, G. Westmeyer, T. Schürholz, S. Wiegand and B. Wolfrum, *Chip-based heat stimulation for modulating signal propagation in HL-1 cell networks*, Advanced Biosystems 39 (2018) 180013.

15. Sehnem, A.L., D. Niether, S. Wiegand, and A.M. Figueiredo Neto, Thermodiffusion of Monovalent Organic Salts in Water. *The Journal of Physical Chemistry B*, 122 (2018) 4093-4100.
16. Niether, D., M. Sarter, B. König, M. Zamponi, J. Fitter, A. Stadler and S. Wiegand, *Thermodiffusion as a Probe of Protein Hydration for Streptavidin and the Streptavidin-Biotin Complex*, AIP Conference Proceedings, 1929, (2018) 020001.
17. Niether, D., S. Di Lecce, F. Bresme, and S. Wiegand, *Unravelling the hydrophobicity of urea in water using thermodiffusion: implications for protein denaturation*, *Physical Chemistry Chemical Physics*, 20, (2018) 1012-1020.
18. Niether, D., T. Kawaguchi, J. Hovancova, K. Eguchi, J.K.G. Dhont, R. Kita, and S. Wiegand, Role of Hydrogen Bonding of Cyclodextrin-Drug Complexes Probed by Thermodiffusion. *Langmuir*, 33 (2017) 8483-8492.
19. Niether, D. and S. Wiegand, *Heuristic approach to understand the accumulation process in hydrothermal pores*, *Entropie*, 19 (2017) 33.
20. Syshchyk, O., D. Afanasenkau, Z. Wang, H. Kriegs, J. Buitenhuis, and S. Wiegand, *Influence of temperature and charge effects on thermophoresis of polystyrene beads*. *E. Phys. J. E.*, 39 (2016) 129.
21. Eguchi, K., D. Niether, S. Wiegand, and R. Kita, *Thermophoresis of cyclic oligosaccharides in polar solvents*. *The European Physical Journal E*, 39 (2016) 86.
22. Niether, D., D. Afanasenkau, J.K.G. Dhont, and S. Wiegand, *Accumulation of formamide in hydrothermal pores to form prebiotic nucleobases*. *Proceedings of the National Academy of Sciences*, 113 (2016) 4272-4277.
23. Maeda, K., N. Shinyashiki, S. Yagihara, S. Wiegand, and R. Kita, *Ludwig-Soret effect of aqueous solutions of ethylene glycol oligomers, crown ethers, and glycerol: Temperature, molecular weight, and hydrogen bond effect*. *The Journal of Chemical Physics*, 143 (2015) 124504.
24. *Inducing microscopic thermal lesions for the dissection of functional cell networks on a chip.*, Rinklin, P., D. Afanasenkau, S. Wiegand, A. Offenhäusser, and B. Wolfrum, *Lab on chip*, 15 (2015) p. 237-243.
25. *Thermodiffusion, Molecular Diffusion and Soret Coefficient for Some Binary and Ternary Mixtures*, D. Alonso de Mezquia, Z. Wang, E. Lapeira, M. Klein, S. Wiegand, M.M. Bou-Ali, *The European Physical Journal E*, 37 (2014) 106.
26. *Molar mass and temperature dependence of the thermodiffusion of polyethylene oxide in water/ethanol mixtures*, Z. Wang, D. Afanasenkau, M. Dong, D. Huang, S. Wiegand, *J. Chem. Phys.*, 141 (2014) p. 064904-1-064904-7.
27. *Isothermal Behavior of the Soret Effect in Nonionic Microemulsions: Size Variation by Using Different n-Alkanes*, Naumann, P., S. Datta, T. Sottmann, H. Frielinghaus, and S. Wiegand, *J. Chem. Phys. B*, 118 (2014) p. 3451-3460.
28. *Thermophoresis of charged colloidal rods*, Wang, Z., H. Kriegs, J. Buitenhuis, J.K.G. Dhont, and S. Wiegand, *Soft Matter*, 9 (2013), p. 8697-8704.
29. *Alkali Halide Solutions under Thermal Gradients: Soret Coefficients and Heat Transfer Mechanisms*, Römer, F., Z. Wang, S. Wiegand, and F. Bresme, *J. Phys. Chem. B*, 117 (2013) p. 8209-8222.

30. *Soret Coefficient in Nonionic Microemulsions: Concentration and Structure Dependence*, Naumann, P., N. Becker, S. Datta, T. Sottmann, and S. Wiegand, *J. Phys. Chem. B*, 117 (2013) p. 5614-5622.
31. *Development of a Thermogravitational micro-Column with an Interferometric Contactless Detection System*, P. Naumann, A. Martin, H. Kriegs, M. Larrañaga, M. Mounir, *J. Phys. Chem. B*, 116 (2012). p. 13889-13897.
32. *Thermal Diffusion of Nucleotides*, Wang, Z., H. Kriegs, and S. Wiegand, *J. Phys. Chem. B*, 116 (2012) p. 7463-7469.
33. *Temperature dependence of thermal diffusion for aqueous solutions of monosaccharides, oligosaccharides, and polysaccharides*, Kishikawa, Y., H. Shinohara, K. Maeda, Y. Nakamura, S. Wiegand, and R. Kita, *Phys. Chem. Chem. Phys.*, 14 (2012) p. 10147-10153.
34. *Thermal diffusion of a stiff rod-like mutant Y21M fd-virus*, P. Blanco, H. Kriegs, M. P. Lettinga, P. Holmqvist and S. Wiegand, *Biomacromolecules*, 12 (2011), p.1602-1609.
35. *The Soret effect of mono-, di- and tri-glycols in ethanol*, M. Klein and S. Wiegand, *Phys. Chem. Chem. Phys.*, 13 (2011) p.7090-7094.
36. *Thermal diffusion of oligosaccharide solutions: the role of chain length and structure*, P. Blanco, H. Kriegs, B. Arlt and S. Wiegand, *Journal of Physical chemistry B*, 114(2010) p. 10740-10747
37. *Study of the Soret effect in monosaccharide solutions*, Pablo Blanco and Simone Wiegand, *Journal of Physical chemistry B*, 114(2010) p. 2807-2813
38. *Temperature Dependence of Soret Coefficient in Aqueous and Non-aqueous Solutions of Pullulan*, Yuki Kishikawa, Simone Wiegand and Rio Kita, *Biomacromolecules*, 11(2010) p.740-747
39. *Soret effect of n-octyl β -D-glucopyranoside C₈G₁ in water around the critical micelle concentration*, Bastian Arlt, Sascha Datta, Thomas Sottmann and Simone Wiegand, *Journal of Physical chemistry B*, 114 (2010), p.2118-2123
40. *Study of the Soret effect in hydrocarbon chain/aromatic compound mixtures*, Pavel Polyakov, Eddie Rossinsky and Simone Wiegand, *Journal of Physical chemistry B*, 113 (2009), p. 13308-13312
41. *Investigation of the Soret effect in aqueous and non-aqueous mixtures by the thermal lens technique*, P. Polyakov and S. Wiegand, *Phys. Chem. Chem. Phys.*, 11 (2009), p. 864-871.
42. *Reverse nonequilibrium molecular dynamics calculation of the Soret coefficient in liquid heptane/benzene mixtures*, P. Polyakov, F. Müller-Plathe, and S. Wiegand, *J. Phys. Chem. B*, 112 (2008), p.14999-15004.
43. *Soret effect of nonionic surfactants in water studied by different transient grating setups*, H. Ning, S. Datta, T. Sottmann and Simone Wiegand, *Journal of Physical Chemistry B*, 112 (2008), p. 10927-10934

44. *Thermal diffusion and molecular diffusion values for some alkane mixtures: A comparison between thermogravitational column and thermal diffusion forced Rayleigh scattering*, P. Blanco, P. Polyakov, M.M. Bou-Ali and Simone Wiegand, Journal of Physical Chemistry B, 112 (2008), p. 8340-8345.
45. *Thermal-diffusive behavior of a dilute solution of charged colloids*, H. Ning, J.K.G. Dhont and S. Wiegand, Langmuir, 24 (2008), p. 2426-2432.
46. *Systematic study of the thermal diffusion in associated mixtures*, P. Polyakov and S. Wiegand, Journal of Chemical Physics, 128(2008), 034505.
47. *Thermal diffusion forced Rayleigh scattering setup optimized for aqueous mixtures*, S. Wiegand, H. Ning and H. Kriegs, Journal of Physical Chemistry B, 111 (2007), 14169-14174.
48. *Thermal diffusion measurements and simulations of binary mixtures of spherical molecules*, P. Polyakov, M. Zhang and F. Müller-Plathe and S. Wiegand, Journal of Chemical Physics, 127 (2007), 014502.
49. *Universal concentration dependence of the Soret coefficient in aqueous systems*, S. Wiegand, H. Ning and R. Kita, Journal of Non-equilibrium Thermodynamics, 32 (2007), p. 193-201.
50. *Ludwig-Soret effect of poly(N-isopropylacrylamide): temperature dependence study in monohydric alcohols*, R. Kita, P. Polyakov and S. Wiegand, Macromolecules, 40 (2007) p.1638-1642.
51. *Thermodiffusion of Charged Colloids: single-particle diffusion*, J.K.G. Dhont, S. Wiegand, S. Duhr and D. Braun, Langmuir, 23 (2007). p.1674-1683.
52. *Thermal diffusion behaviour of a hard sphere suspension*, H. Ning, J. Buitenhuis, J.K.G. Dhont and S. Wiegand, Journal of Chemical Physics, 125 (2006) 204911.
53. *Study of the thermal diffusion behavior of binary mixtures of benzene with alkanes by Thermal Diffusion Forced Rayleigh Scattering experiments and lattice model calculations*, P. Polyakov, J. Luettmer-Strathmann and S. Wiegand, Journal of Physical Chemistry B, 110 (2006), p.26215-26224.
54. *Experimental investigation of the Soret effect in acetone/water and dimethylsulfoxide/water mixtures*, H. Ning and S. Wiegand, Journal of Chemical Physics, 125 (2006) 221102.
55. *150 Jahre Ludwig-Soret Effekt*, S. Wiegand, Bunsenmagazin, 8 (2006), p.130-134
56. *Thermal Diffusion Behavior of Nonionic Surfactants in Water*, H. Ning, R. Kita, H. Kriegs, J. Luettmer-Strathmann and S. Wiegand, Journal of physical chemistry B, 110(2006), 10746-10756
57. *Soret effect in a nonionic surfactant system*, H. Ning, R. Kita and S. Wiegand, Progress in Colloid and Polymer Science, 133(2006), 111-115
58. *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, Z. Phys. Chem., 220(2006), 153-171

59. *Soret Coefficient of Poly(N-isopropylacrylamide)/Water in the Vicinity of Coil-Globule Transition Temperature*, R. Kita and S. Wiegand, Macromolecules 38 (2005), 4554-4556.
60. *Thermally induced sign change of Soret coefficient for dilute and semidilute solutions of poly(N-isopropylacrylamide) in ethanol*, R. Kita, G. Kircher and S. Wiegand, Journal of Chemical Physics 121 (2004), 9140-9146.
61. *Sign change of Soret coefficient of poly(ethylene oxide) in water/ethanol mixtures observed by Thermal Diffusion Forced Rayleigh Scattering*, R. Kita, S. Wiegand and J. Luettmer-Strathmann, Journal of Chemical Physics 121 (2004), 3874-3885.
62. *Thermal Diffusion in liquid mixtures and polymer solutions*, S. Wiegand, J. Phys.:Condens. Matt., 16 (2004), R357-R379.
63. *Unusual thermal diffusion in polymer solutions*, B.-J. de Gans, R. Kita, S. Wiegand and J. Luettmer-Strathmann, Physical Review Letters, 91 (2003) 245501
64. *Investigation of the Soret effect in binary liquid mixtures by TDFRS- contribution to the benchmark test*, C. Leppla, S. Wiegand, Philosophical Magazine, 83(2003), p.1989-1999.
65. *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, 83(2003), p.1965-1971.
66. *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.
67. *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.
68. *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.
69. *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
70. *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
71. *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

72. *Shape-Persistent Macrocycles: Building Blocks for Complex Organic and Polymeric Architectures*, S. Höger, K. Bonrad, S. Rosselli, A.-D. Ramminger, T. Wagner, B. Silier, S. Wiegand, W. Häußler, G. Lieser, V. Scheumann, Macromolecular Symposia, 177 (2002), p. 185-191
73. *Highly regular polyampholytic structures adsorbed directly from solution*, B. Mahltig, P. Müller-Buschbaum, M. Wolkenhauer, O. Wunnicke, S. Wiegand, J.-F. Gohy, R. Jerome, M. Stamm, J. Colloid Interf. Sci., 242, 36-43(2001)
74. *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
75. *Particle size analysis of ferrofluids*, J. Embs, H.W.Müller, C.E.Krill III, F.Meyer, H.Natter, B.Müller, S.Wiegand, M.Lücke, R.Hempelmann, K.Knorr, Magnetohydrodynamics, 37 (2001), p. 222-229.
76. *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
77. *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
78. *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
79. *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
80. *The liquid-liquid phase transition in ionic solutions: Coexistence curves of tetra-n-butylammonium pricrate in alkyl alcohols*, M. Kleemeier, S. Wiegand, W. Schröer and H. Weingärtner, J. Chem. Phys., 110 (1999), p. 3085-3099
81. *A comparison of 3D static light-scattering experiments with Monte Carlo simulations*, L.B. Aberle, M. Kleemeier, P. Hülstede, S. Wiegand, W. Schröer and W. Staude, J. Phys. D: Applied Physics, 32 (1999), p. 22-29
82. *Turbidity, light scattering and coexistence curve data for the ionic binary mixture triethyl n-hexyl borate in diphenyl ether*, S. Wiegand, M.E. Briggs, J.M.H. Levelt Sengers, M. Kleemeier, W. Schröer, J. Chem. Phys., 109 (1998), p.9038-9051
83. *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
84. *Critical viscosity of the ionic mixture triethyl n-hexyl ammonium triethyl n-hexyl borate in diphenyl ether*, S. Wiegand, R.F. Berg, J.M.H. Levelt Sengers, J. Chem. Phys., 109 (1998), p.4533-4545

85. *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
86. *Suppression of multiple scattered light by photon cross-correlation in a 3D experiment*, L.B. Aberle, S. Wiegand, W. Schröer, W. Staude, Progr. Colloid Polym Sci., 104 (1997), p.121-125
87. *Discrepancies in turbidity measurements in the ionic binary mixture triethyl n-hexyl ammonium triethyl n-hexyl boride in diphenyl ether*, S. Wiegand, J.M.H Levelt Sengers, K.J. Zhang, M.E. Briggs, and R.W. Gammon. J. Chem. Phys., 106 (1997), p.2777-2781
88. *Critical behavior of ionic solutions in non-polar solvents with liquid-liquid phase tranistion*, W. Schröer, M. Kleemeier, M. Plikat, V. Weiss and S. Wiegand, J. Phys.: Condensed Matter, 8 (1996), 9321-9327
89. *Light scattering investigations of liquid-liquid phase transition of the ionic system: tri-methyl-ethyl-ammonium bromide in chloroform*, S. Wiegand, M. Kleemeier, J.-M. Schröder, W. Schröer, H. Weingärtner, International Journal of Thermophysics, 15 (1994), p.1045-1056.
90. *Coulombic and non-coulombic contributions to the criticality of ionic fluids. An experimental approach*, H.Weingärtner, M. Kleemeier, S. Wiegand, W. Schröer, J. Stat. Phys., 78 (1994) p.169-196.
91. *Critical fluctuations in electrolytes with a liquid-liquid phase transition*, W. Schröer, S. Wiegand, M. Kleemeier, H. Weingärtner, J. Phys. Cond. Matter, 6 (1993), p.A157-A162.
92. *The Effect of Short-Range Hydrogen-Bonded Interactions on the Nature of the Critical Point of Ionic Fluids. Part II: Static and Dynamic Lightscattering on Solutions of Ethylammonium Nitrate in n-Octanol*, W. Schröer, S. Wiegand, H. Weingärtner, Ber. Bunsenges. Physik. Chemie, 97 (1993), p.975-982.
93. *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. Käshammer, W. Schröer, S. Wiegand, Ber. Bunsenges. Physik. Chemie, 97 (1993), p.970-975
94. *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
95. *Dynamical Lightscattering of Pretransitional Phenomena in Liquid Mixtures*, W. Schröer, S. Wiegand, W. Staude, Ber. Bunsenges. Physik. Chemie, 95 (1991), p.1126-1130

Refereed book chapters:

96. *Optical Methods*, A.P. Fröba, S. Will., Y. Nagasaka, J. Winkelmann, S. Wiegand, W. Köhler in Experimental Thermodynamics Volume IX, The Royal Society of Chemistry, Cambridge, (2014), p. 19-74

97. *Determination of molecular weights and their distributions*, S. Wiegand and W. Köhler, in Comprehensive analytical chemistry: Molecular Characterization and Analysis of Polymers, Volume 53, Ed. J.M. Chalmers and R. Meier, Elsevier, Amsterdam, (2008), p. 205-251
98. *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
99. *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

Books

100. W. Köhler, S. Wiegand, *Thermal Nonequilibrium Phenomena in Fluid Mixtures*, LNP 584, Springer, Berlin, (2002)
101. S. Wiegand, W.Köhler and J.K.G. Dhont, *Thermal Non-equilibrium*, Lecture Notes, Schriften des Forschungszentrums Jülich (2008)

Other publications:

102. *Introduction to thermal gradient related effects*, S. Wiegand, in Functional Soft Matter, Ed. J.K.G. Dhont, G. Gompper, G. Meier, D. Richter, G. Vliegenthart and R. Zorn, Forschungszentrum Jülich, (2015), p. F4.1-F4.24
103. *Introduction to Rheology*, S. Wiegand, in Macromolecular Systems in Soft and Living Matter, Ed. J.K.G. Dhont, G. Gompper, P.R. Lang, D. Richter, D. Willbold and R. Zorn, Forschungszentrum Jülich, (2011), p. A6.1-A6.19
104. *Study of the thermal diffusion behavior of simple and associated mixtures*, P. Polyakov and S. Wiegand, in Thermal Nonequilibrium, Ed. S. Wiegand, W. Köhler and J.K.G. Dhont, Forschungszentrum Jülich, (2008), p.57-62
105. *Ludwig-Soret Effect for Aqueous and Non-aqueous Solutions of Polysaccharide*, Y. Kishikawa, R. Kita, H. Kriegs and S. Wiegand, in Thermal Nonequilibrium, Ed. S. Wiegand, W. Köhler and J.K.G. Dhont, Forschungszentrum Jülich, (2008), p.97-102
106. *Soret effect of nonionic surfactants in water studied by different transient grating setups*, S. Datta, H. Ning, T. Sottmann and S. Wiegand, in Thermal Nonequilibrium, Ed. S. Wiegand, W. Köhler and J.K.G. Dhont, Forschungszentrum Jülich, (2008), p.147-152
107. *Thermal diffusion values for some alkane mixtures: A comparison between thermo-gravitational column and thermal diffusion forced Rayleigh scattering*, P. Blanco, P. Polyakov, M.M. Bou-Ali and S. Wiegand, in Thermal Nonequilibrium, Ed. S. Wiegand, W. Köhler and J.K.G. Dhont, Forschungszentrum Jülich, (2008), p.15-22
108. *Experimental study of the thermal diffusion behaviour of mixtures consisting of simple and chain like molecules using thermal diffusion forced Rayleigh Scattering*, P. Polyakov and S. Wiegand, in Thermodiffusion: Basics & Applications, Ed. M.M.

Bou-Ali and J.K. Platten, Mondragon University, Arrasate-Mondragon, (2006), p.399-407

109. *Thermal diffusion behaviour of interacting colloids*, H. Ning, J. Buitenhuis and S. Wiegand, in Thermodiffusion: Basics & Applications, Ed. M.M. Bou-Ali and J.K. Platten, Mondragon University, Arrasate-Mondragon, (2006), p.389-398
110. *Soret coefficient of PNIPAM in alcohols and in water*, R. Kita, P. Polyakov and S. Wiegand, in Thermodiffusion: Basics & Applications, Ed. M.M. Bou-Ali and J.K. Platten, Mondragon University, Arrasate-Mondragon, (2006), p.409-418
111. *To the warm or to the cold? Thermal diffusion in aqueous systems*, S. Wiegand, H. Ning and R. Kita, in Thermodiffusion: Basics & Applications, Ed. M.M. Bou-Ali and J.K. Platten, Mondragon University, Arrasate-Mondragon, (2006), p.23-32
112. *Mit Diodenlasern angeregte Festkörperlaser*, I. Schütz, S. Wiegand, R. Wallenstein, Laser und Optoelektronik, 20 (1988) S.39