

7 Literaturverzeichnis

Aitken, J. (1888). "On the number of dust particles in the atmosphere." Nature **37**: 428.

Angell, C. A. (1983). "Supercooled water." Ann. Rev. Phys. Chem. **34**: 593.

Ashkin, A., Dziedzik, J.M. (1981). "Observation of Optical Resonances of Dielectric Spheres by Light Scattering." Applied Optics **20**(10): 1803.

Barber, P. W., Chang, R.K. (1988). Optical effects associated with small particles, World Scientific 1988.

Barthel, J., Krienke, H., Kunz, W. (1998). Physical Chemistry of Electrolyte Solutions - Modern Aspects. Berlin, Springer.

Bertram, A. K., Koop, T., Molina, L.T., Molina, M.J. (2000). "Ice Formation in (NH₄)₂SO₄-H₂O Particles." J. Phys. Chem. A **104**: 584-588.

Bohren, C. F., Huffmann, D.R. (1984). Absorption and scattering of light by small particles, John Wiley & Sons.

Born, M. (1980). Principles of Optics, Pergamon Press.

Brdicka, R. (1985). Grundlagen der physikalischen Chemie. Weinheim.

Chen, G., Chang, R.K. (1996). "Laser Diagnostics for Droplet Characterisation: Application of MDRs." Prog. Energy Combust. Sci. **22**: 163.

Cohen, M. D., Flagan, R.C., Seinfeld, J.H. (1987a). "Studies of Concentrated Electrolyte Solutions Using the Electrodynamic Balance. 3. Solute Nucleation." J. Phys. Chem. **91**(-): 4583-4590.

Cohen, M. D., Flagan, R.C., Seinfeld, J.H. (1987b). "Studies of Concentrated Electrolyte Solutions Using the Electrodynamic Balance. 2. Water Activities for Mixed- Electrolyte Solutions." J. Phys. Chem. **91**(-): 4575-4582.

Cohen, M. D., Flagan, R.C., Seinfeld, J.H. (1987c). "Studies of Concentrated Electrolyte Solutions Using the Electrodynamic Balance. 1. Water Activities for Single-Electrolyte Solutions." J. Phys. Chem. **91**(-): 4563-4574.

Conway, B. E., Bockris, J., Yeager, E., Ed. (1983). Comprehensive treatise of electrochemistry. Thermodynamic and transport properties of aqueous and molten electrolytes. New York, Plenum Press.

Debenedetti, P. G. (1996). Metastable Liquids: Concepts and Principles, Princeton University Press.

Demott, P. J. (1990). "Freezing Nucleation Rates of Dilute Solution Droplets Measured Between -30 ° and -40 {°C} in Laboratory Simulations of Natural Clouds." Journal of the Atmospheric Sciences **47**: 1056-1064.

Duft, D. (1999). Coulomb-Instabilität levitierter Mikrotröpfchen. FB Physik. Berlin, FU.

Frank, H. S., Thomson, P.T. (1959). Journal of Physical Chemistry **31**: 1086.

Frohn, N. (2000). Dynamics of Droplets. Berlin, Springer-Verlag.

Gerlich, D. (1990). Inhomogeneous RF fields.

Gmelin "Handbuch der Anorganischen Chemie, 8. Auflage." **27**(Magnesium).

Ha, Z., Chan, C.K. (1999). "The Water Activities of MgCl₂, Mg(NO₃)₂, MgSO₄ and their Mixtures." Aerosol Science and Technology **31**: 156.

Hübner, O. (1997). Zur Coulombinstabilität levitierter Mikrotröpfchen. Fachbereich Physik. Berlin, Freie Universität.

Hung, H.-H., Martin, S. (2002). "Ice Nucleation Kinetics of Aerosols Containing Aqueous and Solid Ammonium Sulfate Particles." J.Phys.Chem.A **106**: 293.

Kneschke, A. (1962). Differentialgleichungen und Randwertprobleme, VEB Verlag Technik.

Koop, T., Luo, B., Biermann, U., Crutzen, P., Peter, T. (1997). "Freezing of HNO₃/H₂SO₄/H₂O - Solutions at Stratospheric Temperatures: Nucleation Statistics and Experiments." J. Phys. Chem. **101**: 1117-1133.

Koop, T., Molina, M. (2000). "Phase Transition of Seasalt/Water - Mixtures at Low Temperatures: Implications for Ozone Chemistry in the Polar Marine Boundary Layer." Journal of Geophysical Research **105**(D21): 26393.

Kortüm, G. (1957). Lehrbuch der Elektrochemie. Weinheim, Verlag Chemie.

Krämer, B. (1998). Laboruntersuchungen zum Gefrierprozess in polaren stratosphärischen Wolken. Fachbereich Physik. Berlin, FU.

Krämer, B., Schwell, M., Hübner, O., Vortisch, H., Rühl, E., Baumgärtel, H., Wöste, L. (1999). "Homogeneous nucleation rates of supercooled water measured in single levitated microdroplets." Journal of Chemical Physics **111**(14).

Leong, K. H. (1987). "Morphological Control of Particles Generated from the Evaporation of Solution Droplets: Theoretical Considerations." Journal of Aerosol Science **18**(5): 511.

Martin, S. T. (2000). "Phase Transitions of Aqueous Atmospheric Particles." Chem. Rev. **100**: 3403.

Morillion, V. (1999). "Water Pressure Above Saturated Salt Solutions at Low Temperatures." Fluid Phase Equilibria **155**: 297.

Myerson, A., Izmailov, A. (1996). "Thermodynamic Studies of Levitated Microdroplets of Highly Supersaturated Electrolyte Solutions." Journal of Crystal Growth **166**: 981.

Paul, W. (1990). "Elektromagnetische Käfige für geladene und neutrale Teilchen." Phys. B1 **46**(7): 227.

Pruppacher, H. R., Klett, J.D. (1997). Microphysics of clouds and precipitation, Kluwer Academic Publishers.

Ray, A. K., Bhanti, D. (1999). "In Situ Measurements of Photochemical Reactions in Microdroplets." J. Aerosol Sci. **30**(3): 279-288.

Richardson, C. B., Pigg, A.L. (1986). "Optical Measurements of the Evaporation of Sulphuric Acid Droplets." Applied Optics **25**(7): 1226.

Roedel, W. (1994). Physik Unserer Umwelt, Springer Verlag Heidelberg.

Scot, M. (2000). "Phase Transition." Chem. Rev. **100**: 3403.

Stöckel, P. (2001). Homogene Nukleation in levitierenden Tröpfchen aus stark unterkühltem H₂O und D₂O. Institut für Physikalische und Theoretische Chemie. Berlin, FU.

Tang, I. N., Munkelwitz, H.R. (1991). "Determination of Vapor Pressure from Droplet Evaporation Kinetics." J. Colloid and Interface Sci. **141**(1): 109.

Timmermanns Physico-Chemical Constants of binary systems.

Vedamuthu, M. V., Robinson, G.W. (1994). "Properties of liquid water. Origins of the density anomalies." J. Phys. Chem. **98**: 2222.

Weast, R. C. (1999). Handbook of Chemistry and Physics, CRC Press.

Wuerker, R. F., Langmuir, R.V. (1959). Applied Physics **30**: 342.