

Seminar

Thermophysikalische Eigenschaften / Thermophysical Properties

– Winter Term 2018/2019 –

– Update Feb 11, 2019 –

- 16th Oct, 2018** **Daniel Diller** (Bachelor thesis)
Importance of mutual diffusivities in liquids with dissolved gases for the design of processes and apparatuses in energy engineering
- 6th Nov, 2018** **Manuel Kerscher** (Master thesis)
Thermal and mass diffusivities of linear alcohols containing dissolved gases by dynamic light scattering
- 13th Nov, 2018** **Dr. Vladimir N. Kuryakov** (Oil and Gas Research Institute of the Russian Academy of Sciences)
Light scattering detection of phase transitions in paraffin wax nanoemulsions
- 11th Dec, 2018** **Korbinian Batz** (Master thesis)
Thermal and mutual diffusivities of gaseous binary mixtures by dynamic light scattering (DLS)
- 8th Jan, 2019** **Tobias Klein** (Project summary)
Mass diffusivity, viscosity, and interfacial tension of binary mixtures of liquids with dissolved gases by using dynamic light scattering and molecular dynamics simulations
- 15th Jan, 2019** **Kuoruo Kang** (Master thesis)
Dropwise condensation of different working fluids at surfaces with low wettability
- 22nd Jan, 2019** **Participants in the Lab Course “Optical Metrology”**
Uncertainty, accuracy, and precision in optical metrology
- 29th Jan, 2019** **Participants in the Seminar “Thermophysical Properties of Working Materials in Energy Technology”**
Chen Chen:
Thermodynamic analysis of two-staged organic Rankine cycles coupled by a combined evaporation/condensation heat transfer apparatus
Cornelia Zeller:
Energy storage technologies for excess electricity
- 7th Feb, 2019** in the CBI-Kolloquium, 11.00 a.m. in the KS II, Cauerstr. 4
Prof. Dr. Joachim Groß (University of Stuttgart)
Predicting interfacial properties using approaches from molecular thermodynamics

- 12th Feb, 2019** in the AOT library
Ubaya Higgoda (Project summary)
Mass diffusivities and viscosities of binary fluid mixtures consisting of methane, propane, and carbon dioxide by using molecular dynamics simulations
- 14th Feb, 2019** 09.30 a.m. in the AOT library
Prof. Ioannis G. Economou (Texas A&M University at Qatar, Chemical Engineering Program)
Prediction of physical properties of complex chemical systems using molecular simulation
- 19th Feb, 2019** in the AOT library
Johannes Wicklein (Bachelor thesis)
Concept, realization and first operation of a setup for the determination of the solubility and density of liquids with dissolved gases
- 26th Feb, 2019** in the AOT library
Wenchang Wu (Project summary)
Determination of mass diffusivities in binary fluid mixtures by using dynamic light scattering, forced Rayleigh scattering, and shadowgraphy
- 12th Mar, 2019** in the AOT library
Zihou Huang (Master thesis)
Development of a prediction model for the Fick diffusivity of liquids with dissolved gases
- 19th Mar, 2019** in the AOT library
Manuel Höppner (Bachelor thesis)
Design of a guarded parallel-plate instrument for the measurement of the effective thermal conductivity of nanofluids
- 26th Mar, 2019** in the AOT library
Maren Lang (Bachelor thesis)
Determination of Fick diffusion coefficients of ionic liquids containing dissolved gases by dynamic light scattering (DLS)

Time: Tuesday at 4:00 p.m.

Place: AOT lecture room, Paul-Gordan-Straße 10, 91052 Erlangen (if not given differently in the program)

Erlangen, February 11, 2019

Dr.-Ing. Michael Rausch

Prof. Dr.-Ing. habil. Andreas Paul Fröba