



## Seminar Thermophysikalische Eigenschaften / Thermophysical Properties

- Winter Term 2024/2025 -

- 15<sup>th</sup> October 2024 **Nicolas Kulig** (Bachelor thesis) Volume Swelling and Densities of Polymer Melts with Dissolved Blowing Agents by Optical Techniques
- 22<sup>nd</sup> October 2024 **Zhongwen Zhang** (Master thesis) Condensation Heat Transfer Coefficients of Propane and n-Butane Mixtures on Horizontal Single Tubes and in Tube Bundles
- 29<sup>th</sup> October 2024 **Fabricia Müller** (Bachelor thesis) Measurement of the Effective Thermal Conductivity of Water-based Nanofluids with Multimodal Silica Nanoparticles
- 5<sup>th</sup> November 2024 **JianJie Chen** (Master thesis) Characterization of Particle Diffusion by Differential Dynamic Microscopy
- 12<sup>th</sup> November 2024 **Yongzhen Sun** (Master thesis) Viscosity, Interfacial Tension, Density, and Liquid Phase Composition in Binary Mixtures of Hydrocarbons with Dissolved Hydrogen by Light Scattering and Conventional Techniques
- 19<sup>th</sup> November 2024 **Saad Idrees** *Physically Based Modeling of Heat Transfer During Hot Stamping*
- 26<sup>th</sup> November 2024 **Sophie Bernhardt** (Bachelor thesis) Importance of Thermophysical Properties of Liquid Organic Hydrogen Carriers in Hydrogenation and Dehydrogenation Processes
- 3<sup>rd</sup> December 2024 **Chathura Hewa Kankanamge** Characterization of Diffusive Mass Transport in Electrolyte Systems by Light Scattering Techniques and Molecular Dynamic Simulations





10 <sup>th</sup> December 2024	<b>Ziwen Zhai</b> Influence of Molecular Catalysts on the Dynamics of Surface Fluctuations for Ionic Liquids
12 <sup>th</sup> December 2024	within the CBI Colloquium, 4.15 p.m., KS I in Cauerstraße 4 <b>Prof. Dr. Ioannis G. Economou</b> <i>From Atoms and Molecules to Materials: Design of Novel</i> <i>Membranes for Gas Separation</i>
17 <sup>th</sup> December 2024	<b>Andrea Diaz Zosel</b> (Bachelor thesis) Development of a Prediction Model for the Fick Diffusion Coefficient in Electrolyte Systems
14 <sup>th</sup> January 2025	<b>Fabian Lorig</b> Liquid Viscosity and Interfacial Tension of Oil-Refrigerant Mixtures by Surface Light Scattering
21 <sup>st</sup> January 2025	<b>Paul Damp</b> Thermophysical Properties of n-Hexane under the Influence of Dissolved Hydrogen by Experiments and MD Simulation
28 <sup>th</sup> January 2025	Presentations within the Seminar "Thermophysical Properties of Working Materials in Energy Technology"
4 <sup>th</sup> February 2025	<b>Julius Kühl</b> Hydrocarbon Mixture Condensation on Single Tubes and in Tube Bundles

Time:Tuesdays at 4:00 p.m.Place:AOT lecture room, Paul-Gordan-Straße 8, 91052 Erlangen

Erlangen, October 7, 2024 Dr.-Ing. Michael Rausch Prof. Dr.-Ing. habil. Andreas Paul Fröba