

OS12: Supercritical Fluid

October 29, 2020
ROOM6 (Zoom Webinar)

- OS12-1 **Thermodynamics Near the Critical Point of A Fluid: Critical Distance and Convection** (*Invited*)
11:40-12:05 Lin Chen (Chinese Academy of Sciences / University of Chinese Academy of Sciences, China)
- OS12-2 **Molecular Dynamics Simulation of CO₂ Fluid Crossing the Pseudo-Critical Point**
12:10-12:35 Minqian Sun (Chinese Academy of Sciences, China), Lin Chen (Chinese Academy of Sciences / University of Chinese Academy of Sciences, China)
- OS12-3 **Onset of Thermal Convection of Supercritical CO₂ Fluid in A Closed Cavity**
13:30-13:55 Dong Yang (Chinese Academy of Sciences, China), Lin Chen (Chinese Academy of Sciences / University of Chinese Academy of Sciences, China)
- OS12-4 **Numerical Study of Passive Thermal Control for Uniform Temperature Field of Supercritical Fluid**
14:00-14:25 Haruki Ito, Yuki Kanda, Atsuki Komiya (Tohoku University, Japan)
- OS12-5 **Lattice Boltzmann Simulation of Convection and Heat transfer in a Square Side-Heated Cavity Filled with Supercritical CO₂**
14:30-14:55 Yongchang Feng (Chinese Academy of Sciences, China), Lin Chen (Chinese Academy of Sciences / University of Chinese Academy of Sciences, China), Yuki Kanda, Atsuki Komiya (Tohoku University, Japan)
- OS12-6 **Effects of Critical Anomalies on the Two-component Rayleigh-Bénard Instability: Oscillation and Backward Bifurcation**
15:20-15:55 Zhan-chao Hu (Sun Yat-sen University, China), Xin-Rong Zhang (Peking University, China)
- OS12-7 **High Spatio-Temporal Visualization of Heat and Mass Transfer Phenomena During Gas Hydrate Decomposition**
16:00-16:25 Yuki Kanda, Atsuki Komiya (Tohoku University, Japan)