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15/04/2016

EINLADUNG

zu einem Vortrag im Rahmen des

Kolloquiums Thermo- und Fluidodynamik

Datum: Mittwoch, 18. Mai 2016

Zeit: >> 11:45 Uhr <<

Ort: Maschinenlaboratorium ETH Zürich
Hörsaal ML H 44

Referent: Prof. Yousung Jung
Korea Advanced Institute for Science and Technology (KAIST)

Titel: Molecular Dynamics Analysis of Water Confined in or Flowing through Nanopores of Graphitic Materials

Nanofluidics and nanofiltration have emerged quite recently as an intriguing interdisciplinary science, with applications to sensing, desalination and efficient energy storage and conversion technologies. Water confined in carbon nanotubes (CNTs) exhibits unexpected properties such as fast conduction rates and a variety of structural and phase transitions. Recently, pores in graphene also received significant attention as an ultimate membrane for various gas and fluid filtering applications. In this talk, I will present a thermodynamic, structural, and nonequilibrium analysis of water confined/flowing through the CNTs and graphene pores using molecular dynamics simulations.

Host: Prof. H.G. Park

Gäste sind willkommen!

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