Universität Duisburg-Essen
Lehrstuhl für Technische Chemie II
Prof. Dr. Mathias Ulbricht

Technisch-Chemisches Kolloquium

Montag, **16.7.2018**

15 Uhr c.t.

Raum S05 T00 B71 (Campus Essen)

The effects of nanoparticles on structural and permeation properties of polymeric membranes

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Thin film nanocomposite (TFN) membranes are a new form of membranes; nanoparticles are incorporated into thin film composite (TFC) membranes to improve membrane properties and performance. In this presentation, the results of several experimental studies are summarized and presented. Preparation of different TFN membranes, including metal organic framework (MOF; UiO-66-NH_2) / polyamide (PA), MOF (MIL-101) / Pebax, zeolite (UZM-5) / PA, SiO_2-NH_2 / PA, nanoclay / polyvinyl alcohol and TiO_2 nanotube / Pebax are discussed.

Gäste sind herzlich willkommen!