

CPM-9

Tuesday, May 21, 2024

Tuesday: Session 4: Experimental Methods II (8:00 AM - 10:10 AM)

time	[id] title	presenter
8:00 AM	[134] Combining multiple functions to achieve process intensification in adsorptive separations	GHOLAMI, Mohsen SHARMA, Ravi SCHOUKENS, Matthias WITTEWRONGEL, Gille MAITY, Rahul DENAYER, Joeri
8:30 AM	[50] Measurement of multicomponent adsorption isotherms based on a temperature-step approach and mass spectrometry	CHANUT, Nicolas
8:50 AM	[56] Direct visualization of Al distribution inside zeolite crystals	ENDO, Akira
9:10 AM	[6] Predicting the pore-structure transport relationship in disordered alumina using hyperpolarized xenon MRI and NMR cryodiffusometry	COLLINS, Stefano Marc
9:30 AM	[60] Kinetic measurements on monoliths using the Adsorption Differential Volumetric Apparatus (ADVA)	MANGANO, Enzo
9:50 AM	[102] Towards "infinite" selectivities in CO ₂ /CH ₄ and CO ₂ /N ₂ separations with MgNa-GIS flexible zeolite	GUILLET, Remy

Tuesday: Session 5: Computational Design of Nanoporous Materials (10:40 AM - 12:30 PM)

time	[id] title	presenter
10:40 AM	[135] Material discovery with physics and AI	SARKISOV, Lev
11:10 AM	[12] Dissemination and updates to the universal standard archive file for adsorption data	KASKEL, Stefan
11:30 AM	[88] Applications of 3D Amorphous Carbon Molecular Models for Adsorption and Mechanical Property Predictions	CORRENTE, Nicholas
11:50 AM	[77] Computational-aided development of MOF-based Mixed Matrix Membranes for molecular separation	MAURIN, Guillaume
12:10 PM	[94] Molecular Simulation of Peptide Retention in Reversed-Phase Liquid Chromatography	MOTA, José Paulo

Tuesday: Session 6: Experimental Methods III (2:00 PM - 4:10 PM)

time	[id] title	presenter
2:00 PM	[73] Structural changes in ZIFs upon gas and liquid phase adsorption	SILVESTRE ALBERO, Joaquin
2:30 PM	[22] On the characterization of nanoporous carbons with small-angle scattering	PARIS, Oskar
2:50 PM	[122] Use of Ultrasonic Monitoring for In situ Diagnostics of Zeolite and MOF Crystallization	HARTMANN, Martin
3:10 PM	[57] Correlations of NMR Relaxometry Data and Polymer Surface Chemistry	ALLGEIER, Alan

3:30 PM	[126] Advanced Textural and Surface Chemistry Characterization by Combining Adsorption and Liquid Intrusion with NMR Relaxometry	SCHLUMBERGER, Carola
3:50 PM	[109] Brain Tissue Modeled as a Porous Medium with parameters derived from Micro-Iontophoresis Experiments	Prof. NICHOLSON, Charles

Tuesday: Session 7: Theoretical Methods (4:40 PM - 6:50 PM)

time	[id] title	presenter
4:40 PM	[137] 3-D Density Functional Theory to Describe Adsorption of Pure Substances and Their Mixtures on Crystalline and Amorphous Adsorbents	WANDERLEY TAVARES, Frederico
5:10 PM	[105] A non-local Density Functional Theory for water adsorbed in nanoporous materials.	MIQUEU, Christelle
5:30 PM	[119] Coupling between poroelasticity and the density functional theory for the estimation of adsorption-induced swelling in nanoporous materials	GREGOIRE, David
5:50 PM	[24] Framework-dependent kinetics of adsorption-induced structural transition in flexible metal-organic frameworks	HIRAIDE, Shotaro
6:10 PM	[82] Impact of a kerogen network on the behavior of confined hydrocarbon liquids	MULLER, Erich A.