



# InterPore2024

## Wednesday, 15 May 2024

### MS11: 3.2 (12:00 - 13:00)

time	[id] title	presenter
12:00	[508] Probing into nanoparticles adsorption mechanisms through direct experimental characterization of nanoparticle-pore surface interaction forces	HAN, Mingliang
12:15	[569] Pore-scale morphologies of CO <sub>2</sub> hydrate formation in microfluidics with in-situ Raman spectroscopy for CO <sub>2</sub> sequestration	OUYANG, Qian
12:30	[356] Effectiveness of CO <sub>2</sub> microbubble method for enhanced oil recovery in fractured reservoirs	Mr TONG, Baocai

### MS11: 3.3 (14:00 - 15:30)

time	[id] title	presenter
14:00	[759] Validation of methodology for MMP measurements on microfluidic slim-tube analogue	SHILOV, Evgeny
14:15	[791] 3D microfluidic investigation of crystallization behavior in porous media for carbon storage application	KRASNOFF, Rosalie
14:30	[473] Assessing pH Impact on Miscible Phase Displacement and Mixing within Porous Structures	GAN, Tongzhou
14:45	[919] Microscopic Percolation Patterns in Multiphase Flow of CO <sub>2</sub> Enhanced Oil Recovery and Mineralization	WANG, Qingxuan
15:00	[71] PoroFluidics: Deterministic fluid control in porous microfluidics	WANG, Zhongzheng

# Thursday, 16 May 2024

## MS11: 4.1 (09:05 - 10:20)

time	[id] title	presenter
09:05	[241] Robust determination of viscosity of surfactant-polymer solution for enhanced oil recovery using microfluidics approach	Dr GAO, Wenbin
09:20	[456] Study on Oil Displacement Mechanism of Polymer Microspheres Based on Microfluidic Technology	MA, Mengqi
09:35	[433] Study on the percolation mechanism and oil displacement mechanism of a mixed solution of polymer and silica nanoparticles	XUE, Yu
09:50	[658] Influence of fluids properties and pore-throat structure on snap-off: microfluidic experiments and theoretical analysis	WEI, Bei
10:05	[180] Conditions Allowing Steady Multiphase Flow in Microfluidic Devices	ROSSEN, William

## MS11: 4.2 (11:50 - 12:50)

time	[id] title	presenter
11:50	[249] Investigation of transport and deposition of micro-nano-bubbles in porous media using column test and microfluidics	CAO, Yazhou
12:05	[412] Microfluidic platform studying transport dynamics in weathering crust soil	LIU, Enhao
12:20	[770] Approach for void space reconstruction on a microchip based on the lithological and mineralogical data	LATYPOVA, Margarita
12:35	[442] Novel Microfluidic Experiments Of Investigating Permeability Impairment due to Clogging in Rough Fractures	CHEN, Xusheng

## MS11: 4.3 (13:50 - 15:05)

time	[id] title	presenter
13:50	[217] A Novel Microfluidic Approach to Quantify Pore-Scale Mineral Dissolution in Porous Media	LI, Yaofa
14:05	[233] Self-organized colloidal streamers in porous media: Emergence, development and clogging consequence	LU, Xukang
14:20	[415] Pore-scale investigation into the effects of fluid perturbation during hydrate formation	XU, Rui
14:35	[370] Microfluidic Visualization and Modeling of Polymer Induced End-Point Relative Permeability Damage	YIN, Xiaolong
14:50	[441] Experimental Study of Dissolution Regimes in a Multiphase Flow Environment with Real-Rock Microfluidics	ZHOU, Chen-Xing