InterPore2024

Monday, 13 May 2024

Poster: Poster Session I (09:55 - 11:25)

time	[id] title	presenter
09:55	[166] Brinkman double-layer model for flow at a free-porous interface	KANG, Jinliang
09:55	[129] Molecular Simulation of the Effect of Imidazolium-Based Ionic Liquids on the Water/Toluene Interface	ABU-AL-SAUD, Moataz
09:55	[185] Reversing capillary trapping of nonaqueous fluid from dead-end structures by nanoparticle suspension and their self-adaptive control in complex porous media	Dr LEI, Wenhai
09:55	[310] The occurrence states of shale oil and its controlling factors in Yanchang Formation, Ordos Basin, China	ZHAO, Chen
09:55	[382] A Robust Vapor-liquid-liquid Equilibrium Calculation Algorithm Considering Capillary Pressure and Critical Shift in Nanopores	XIAO, Binyao
09:55	[195] A molecular simulation study on adsorption and diffusion behaviors of hydrogen, methane and carbon dioxide	SHANG, Zhenxiao
09:55	[232] Theoretical Foundation for Klinkenberg-corrected Permeability of Microporous Media in Pulse Decay Method	ZHIGUO, Tian
09:55	[493] Flow simulation of pore-scale deep shale gas under nano-confinement conditions	ZHAO, Chaoyang
09:55	[160] A Study on Stochastic Modeling of Channelized Reservoirs Based on Reinforcement Learning	Ms ZHANG, Xiufan
09:55	[147] Bypass flow of trapped droplet under seismic stimulations through pore double model analysis	DENG, Wen
09:55	[196] Volatile Transport in Porous Lunar Regolith: Diffusion at Infinite Knudsen Number	ZHOU, sunpeng
09:55	[451] Understand Advection-Dispersion and their Relationship with the Scales of Heterogeneity through Lattice Boltzmann simulations	DONG, Yanhui
09:55	[581] Investigation of fault damage zones from direct shear tests and implications for hydraulic fracturing process	Ms ZHU, Zifang
09:55	[639] A novel CO2-responsive microgel for in-depth conformance control in CO2 enhance oil recovery (EOR)	WU, Qihui
09:55	[277] Direct Pore-Scale Simulation of the Effect of Wettability Alteration by Low-Salinity on Oil Mobilization in 3D Natural Sandstone	LI, Haoyun
09:55	[118] Experimental Validation of Pore-Scale Models for Gas Diffusion Layers in PEMFCs	Prof. XIAO, Liusheng
09:55	[311] Mechanism simulation on low salinity water flooding in high temperature sandstone reservoirs based on molecular simulation method	Prof. SUN, Renyuan
09:55	[457] Numerical modelling of polymer support fluids permeating in sands	SUO, Si
09:55	[470] Influence of non-stationarity within porous media sample on its flow properties	Dr KARSANINA, Marina

09:55	[503] Density-Dependent Dynamics of Fines Retention and Pore Clogging in Rock Formations: A CFD-DEM Approach	LIU, Shitao
09:55	[52] Ensemble Variational Bayesian Uncertainty Quantification for High Dimensional Nonlinear Parameter Inversion of Darcy Flows in Porous Media	ZHANG, zhao
09:55	[315] Attenuation Patterns of Low-Frequency Hydraulic Pulse Waves in Porous Media with Different Permeability	Mr WANG, Kai
09:55	[346] Dynamic Effects on Solute Transport in an Unsaturated Soil	ZHUANG, Luwen
09:55	[898] Molecular dynamics simulation of ionic diffusion and mixing phenomena in polymer-enhanced low-salinity waterflooding	Prof. MAHANI, Hassan
09:55	[735] Exploring the Relation Between Soil Salinity on Soil Organic Carbon Dynamics in Global Terrestrial Ecosystems	Prof. SHOKRI, Nima
09:55	[376] Experimental and theoretical evidence for energy signal indicating flow regimes for two phase flow in porous media	ZOU, Shuangmei
09:55	[763] Unveiling Microbial Activity in Rock Pores: Tailored Sample Preparation and SEM-EDS Insights	Mr JIANG, Mingze
09:55	[1000] Pore-scale Modeling of Dynamic CO2 Dissolution in Natural Porous Media with different Wettability	WANG, Jinlei
09:55	[1002] Archaea community in gas hydrate-bearing sediments in the South China Sea	□, □□
09:55	[463] Stability, deformation and rupture of Janus oligomer enabled self-emulsifying water-in-oil microemulsion droplets	FU, Yuequn

Poster: Poster Session II (14:55 - 16:25)

time	[id] title	presenter
14:55	[849] Numerical simulation of yttrium oxide grain sintering	PROKHOROV, Dmitry
14:55	[860] Covalent Organic Frameworks Supported Highly Active Fe-N-C Catalyst Boosting Oxygen Reduction in Direct Formate Fuel Cell	Mr LAN, Linghan
14:55	[578] Effect of catalyst particle size distribution in the catalytic layer on the performance of water electrolysis in proton exchange membrane pore scale simulation	HE, Jiaxin
14:55	[893] Water Impact on Adsorbed Oil Detachment from Mineral Surfaces by Supercritical CO2	Ms GAO, Rui
14:55	[594] Efficient solution strategies for a generalized coupled fluid-porous problem	RUAN, Linheng
14:55	[910] Simulation study of hydrogen storage in a depleted gas reservoir: Microbiological influences in porous media	XIONG, Zanfu
14:55	[212] A study on the CO2 displacement behavior at nanoscale considering rough surface	DING, Keli
14:55	[375] The Mechanism and Quantification of Threshold Pressure for Oil Flow in Silica Nanochannel by Molecular Simulation	LIU, BingBing
14:55	[439] Determination of the type of free gas transport in shale gas formations based on Knudsen number from molecular perspectives	Mr ZHAO, Xinyi
14:55	[43] Nanomechanical properties of Janus nanoparticle-stabilized Pickering emulsion in confined nanochannels	Dr CHANG, yuanhao
14:55	[137] Optimizing Battery State Estimation: Overcoming Computational Challenges with Hybrid Models	Dr KAMRAVA, Serveh

14:55	[198] Relative permeability curve prediction directly from 3D digital rocks based on AI approaches	ZHU, Jingwei
14:55	[130] Remote hydraulic fracturing at weak interfaces	YOU, Tao
14:55	[323] Changes in the acoustic signature of tight sandstone during spontaneous imbibition process	Mr ZHAO, Fangzhou
14:55	[498] Assessing the Representativeness and Precision of Three-Dimensional Digital Rock Modeling: A Case Study on Tight Sandstone	Mr XIAN, Fei
14:55	[539] Wave Velocity Dispersion and Attenuation in Partially Saturated Porous Media	Dr LI, Jimmy Xuekai
14:55	[238] Upscaled model for steady slip flow fluid structure coupling in shale system	FAN, Dongyan
14:55	[242] Do capillary and film water have equal matric suction or not in simple geometries ?	Dr LI, Zi
14:55	[286] Investigating Hydrogen Storage in Pore Media of Saline Aquifers: A Numerical Study on Wettability and Pore Structure Impact	LI, Jiawei
14:55	[332] Extensive pore modelling (XPM) – a coherent framework for multiscale pore network modelling	MAES, Julien
14:55	[416] Simulation of the Microscopic Three-Phase Flow Process in CO2 Miscible Flooding at the Pore Scale	Mr LI, Jing
14:55	[14] Rock-Fluid Interaction Mechanisms between Binary Surfactants Systems for Enhanced Oil Recovery in a Carbonate Formation	BELLO, Ayomikun
14:55	[126] Consideration of the effect of interlayer spatial distribution on the mechanical behaviour of porous media	LIU, Mingxin
14:55	[250] Is it safe to continue relying on traditional porosity-permeability relationships?	MASOUDI, Mohammad
14:55	[980] InPore: Image-based and GPU-Accelerated Volumetric Lattice Boltzmann Method for Pore-Scale Porous-media Flows with Applications	Prof. YU, Huidan
14:55	[990] A pore-scale lattice Boltzmann model for solute transport coupled with heterogeneous surface reactions and mineral dissolution	LONG, Ju
14:55	[1001] A fully implicit single-phase multi-component phase transition pore network model based on automatic differentiation and GPU acceleration	RONG, JIanqi
14:55	[1015] Anti-hydrate Surface Design for Utilization in CO2 Sequestration Processes	MA, Rui
14:55	[1020] Machine-Learning-Based Robust Optimization of Brine Extraction Well Placement in CCS Projects Using Fast Marching Method	YOON, Hyunjee
14:55	[1028] RepoTREND: Software Tools for Robust Safety Analysis of Radioactive Waste Repositories	REICHE, Tatiana
14:55	[553] The Crushing Characters of Quartz Sand Based on a New Experimental Image Processing Methods	WU, liansong
14:55	[1047] Numerical Simulation of the Microbial Induced Calcite Precipitation (MICP) Process in Darcy-scale and Pore-scale	CHU, yajie
14:55	[1038] Two-Phase Flow Displacement Morphologies in Cohesive Granular Media	Mr KE, Feihu
14:55	[1029] Droplet motion in flexible channels: Effects of opening angle and wettability	ZHONG, Haiyi
14:55	[1049] Adsorption Swelling and Anisotropic Characteristics of CO2 in Shale	LIN, Shuangshuang

Tuesday, 14 May 2024

Poster: Poster Session III (09:25 - 10:55)

time	[id] title	presenter
09:25	[154] Unraveling Heat Transfer Routes in Unsaturated Soils	FEI, Wenbin
09:25	[63] Pore-scale and Reservoir-scale Investigations on H2 Trapping: Impact of Temperature and Salinity	Mr ZHANG, Haiyang
09:25	[179] Advancing Underground Hydrogen Storage: Insights from Molecular Simulations of Wettability and Interfacial Tension	ABU-AL-SAUD, Moataz
09:25	[738] Direct numerical simulation of CH4 - CO2 mixture flow in nanoporous media	Mr XIE, Chenyue
09:25	[537] Oscillation Method for Measuring Gas Storage in MCM-41	YIN, Xiaolong
09:25	[580] Multi-scale Pore Structure Characteristics of Deep Marine Shale and Its Controlling on Gas Transport Mode: Silurian Longmaxi Formation in Southern Sichuan, China	HE, Shijie
09:25	[834] Coupled studies of oil compositions and storage spaces in the Kongdian Shale Formation, Bohai Bay Basin, Eastern China	YAN, Weixing
09:25	[349] Pore-scale Modeling and Numerical Simulation for Viscoelastic Emulsion Flow	CHENG, Haoran
09:25	[385] Inferring electrochemical performance and parameters of Li-ion batteries based on deep operator networks	ZHENG, Qiang
09:25	[718] Promoting Ultra-High-Density Nanoparticles Exsolution in Layered Perovskite Ferrites via a Facile Cobalt Doping Method: A High-Performance, Stable Anode for Direct Ethane Solid Oxide Fuel Cells	Mr ZHAO, Rubao
09:25	[930] Reshaping the Imaging Landscape: AI-Supercharged Swin Transformer for Unprecedented Detail	Mr MENG, Yang
09:25	[698] Evaluating the performance of asphalt mixture with additives to withstand salt erosion and freeze-thaw cycles	JI, Weidong
09:25	[267] A multiscale simulation method for aerosol transport in a mouth-to-lobar bronchi model	XIAO, Han
09:25	[600] Dynamic X-ray computed microtomography imaging of multiphase flow in porous media using deep learning	ARMSTRONG, Ryan
09:25	[269] Microscopic damage rules of water flooding in ultra-low permeability reservoir: an experimental study based on the combination of microfluidic and low-field NMR technology	Dr WEN, Yiping
09:25	[18] Experimental evaluation of dynamic seepage in tight/shale reservoirs under the coupling of matrix fractures based on NMR	Dr DU, Meng
09:25	[83] Investigation of single particle crushing characteristics considering non-spherical shape based on DEM	Dr WANG, Xiangyu
09:25	[175] IMPACT OF DUAL POROSITY SYSTEMS ON FLOW IN HEAP LEACHING USING MICRO COMPUTED TOMOGRAPHY IMAGING	ZHENG, Quan
09:25	[21] Acoustic Properties of Hydrate-Bearing Porous Media Based on Electrical-Mechanical-Acoustic Multi-physics-Field Coupling Model	XING, Lanchang
09:25	[165] Integration of Digital Core and Molecular Simulation for Research on Reservoir Mechanical Properties	Mr YIN, Yifan

09:25	[499] Constructing Three-Dimensional Digital Rock of Continental Shale with Multi-Mineral Components Using Machine Learning Segmentation Algorithms	Ms LI, Min
09:25	[633] Study on the Distribution Patterns and Resistivity Characteristics of THF Hydrates in Sandstone Sediments	Mr LI, Zizeng
09:25	[556] Applications of pore network modelling in predicting the permeability in hydrate-bearing sediment	Dr ZHANG, Yongchao
09:25	[926] Multiphase Flow Through Rough Porous Layers in Proton-Exchange Membrane Fuel Cells (PEMFCs)	GAN, Yixiang
09:25	[932] Comparisons between a dual-pore-network model and a hybrid pore-network-continuum model for predicting permeability and formation factor of multiscale carbonate digital rocks	Mr ZHAO, Xingyuan
09:25	[557] Microscopic mechanism investigation of counter-current imbibition in tight reservoirs using the Lattice Boltzmann method	Prof. LIU, Shuyang
09:25	[781] Neural Operator Predictions of Electrical Properties in Porous Media	CHANG, Bernard
09:25	[426] Effect of pore size of electrospun membrane on quality and ion separation of nanofiltration membrane	RIAZI, Masoud
09:25	[996] A Novel Approach for Advancing Lithology Classification Through Machine Learning and Deep Learning Models	Dr HOSSEINI-NASAB, Seyed Mojtaba
09:25	[728] Reactivity of porous media under continuous injection	PETTERSSON, Kaj
09:25	[496] Experimental and theoretical study of unsaturated flow in fractured media	YANG, Zhibing
09:25	[1021] Novel Learning-based Pattern-Data-Driven Forecast Approach for Predicting Future Well Responses	KIM, Yeongju
09:25	[1022] Assessment of CO2 Storage Capacities in Saline Aquifers Using Material Balance Equations	PARK, Sangkeon
09:25	[1040] Development of multiphase flow simulation method in DEM under a movable-grain condition	Mr DAI, Quanwei
09:25	[1054] Research on the occurrence states of microscopic remaining oil in ultra-low permeability reservoirs	Dr CHI, Peng
09:25	[1060] Effect of elevated-temperature on mechanics and microstructure of basalt fibre-modified cementitious composites	HAN, HAO

Poster: Poster Session IV (16:05 - 17:35)

time	[id] title	presenter
16:05	[44] Investigation of pore-scale evaporative drying, salt precipitation and crystallization migration in CO2 injection process by a lab-on-a-chip system	WANG, BO
16:05	[122] Visualization study on the growth and occurrence patterns of CO2-SO2 mixed hydrates in porous media	ZHANG, Lifu
16:05	[155] Effect of co-injection of acidic impurity gas and seawater on geological sequestration of CO2 in basalt	Dr WANG, Zhe
16:05	[206] Analysis of CO2 huff and puff displacement effect of shale oil in Block A	DENG, sen
16:05	[577] The Competitive Adsorption Behavior of CH4/CO2/H2S Mixtures in Kerogen Nanopores from the Perspective of Molecular Simulation	BAO, Junyao
16:05	[682] Characterization of Fluid Mobility and Determination of Movable Pore Throat Lower Limit in Deep Tight Sandstone Reservoirs Based on Nuclear Magnetic Resonance	Mr WANG, Yuchao

16:05	[857] Unlocking the secrets of unconventional shale: A multi-scale approach to understanding fluid transport and resource recovery	JI, Yeping
16:05	[248] Controllable generation of porous media hybrid multiple-point statistics and sliced Wasserstein metric	Dr MA, Zhenchuan
16:05	[386] Criss-Cross Physics-Informed Convolutional NeuraNetworks for Prediction of Fluid Flow in Porous Media with Spatial Heterogeneity	CHEN, Haiyang
16:05	[653] Preparation of municipal solid waste incineration (MSWI) fly ash-based self-foaming materials and feasibility study on goaf filling	□, □□
16:05	[758] Multi-scale flow, permeability, and heat transport in building materials	MENKE, Hannah
16:05	[436] Effect of flow rate and fluid chemistry on Precipitation Patterns in acidified shales	JIANG, qiurong
16:05	[591] Application of pore throat characteristics research of deep-water globigerina limestones in acid fracturing effectiveness analysis: a case study of the Pearl River Formation in Baiyun Sag, Pearl River Mouth Basin	DU, Hao
16:05	[742] Simulation of multiphase porous media flow in acid stimulation formations with an adaptive mesh refinement strategy	Dr LI, Longlong
16:05	[169] Finite-size scaling for the connectivity, permeability, and dispersion of discrete fracture networks	YIN, Tingchang
16:05	[527] Application of 2D and 3D imaging technology in the observation of porous media containing natural gas hydrates	LI, Chengfeng
16:05	[282] Analyzing Impacts of Gas Evolution within a Batch-Mode Electrodialysis of Lithium Sulfate using Two-Phase Flow CFD Simulation	Ms ASADI, Anahita
16:05	[171] Pore-scale Study of the Influence of Pore Heterogeneity on Non-miscible CO2 Displacing Oil	Mr LI, Minfeng
16:05	[235] Stages of change in the permeability of the chalk core during the injection of produced water and seawater	Mr KURBASOV, Maksim
16:05	[344] A Semi-Analytical Method for Predicting Three-Phase Flow Production in Condensate Gas Reservoirs	WANG, Yaxian
16:05	[10] Fractal characteristics of natural fractures in continental shale reservoir and their effects on permeability	WANG, Xiaoming
16:05	[113] Mechanical analysis of gas diffusion layers for PEMFCs based on orthogonal design method	SUN, yushuai
16:05	[135] Study the mechanism of supercritical CO2 huff-n-puff on enhancing shale oil recovery	GE, Wenxiang
16:05	[213] Experimental study on microscopic pore-scales crude oil production characteristics and influencing factors during dynamic imbibition of shale reservoir with online NMR	Dr DU, Meng
16:05	[220] Prediction model of permeability in porous media with different arrangements	Dr ZHANG, Yang
16:05	[641] Transport and Detachment Characterization of Nanoparticle-Laden Oil Droplet in Pore-Throat Channel	LI, Yue
16:05	[991] Diffusion Hysteresis in Unsaturated Water Flow: A Microfluic study	Ms □, □□
16:05	[1016] Pore-Scale Insights into Freshwater Displacement Dynamics in Brine-Saturated Berea Sandstone Using 4D Microtomography	KADYROV, Rail
16:05	[725] Comparative verification of hydro-mechanical fracture behavior: Task G of international research project DECOVALEX–2023	Prof. KOLDITZ, Olaf

16:05	[447] A novel evolutionary optimization approach via surrogate model and autoencoder for reservoir development scheme design	Mr DAI, Qinyang
16:05	[1045] Thermo-hydro-mechanical coupled zero-thickness interface finite elements: benchmarking and application	LUO, wen
16:05	[1056] Improving chemo-mechanical properties of wellbore cement for deep wellbore conditions in the presence of CO2	WALIEZI, Chigbo
16:05	[1055] 3D multi-scale reconstructed structure and transfer properties of porous material based by multiple approaches	Dr MA, Xiaoyan
16:05	[1061] Non-invasive imaging of solute redistribution below evaporating surfaces using 23Na-MRI	CHAUDHRY, Mohammad Ali

Wednesday, 15 May 2024

Poster: Poster Session V (09:25 - 10:55)

time	[id] title	presenter
09:25	[480] Computational and Topological Methods for In-situ Characterisation of Hetrogeneous Surface Wettability in Porous Media	Dr WANG, Ying Da
09:25	[276] Pore scale characteristics of CO2 trapping and oil recovery in heterogeneous layered sandstone	LI, Yingwen
09:25	[438] Microscopic Simulation Methods for the Movement and Effects of Nanoparticles at the Oil-Water Interface	KE, Can
09:25	[611] DuMux -- an open-source simulator for solving flow and transport problems in porous media with a focus on model coupling	KOCH, Timo
09:25	[907] Production prediction of fractured horizontal wells in shale gas reservoirs based on multi-scale flow	ZHANG, Ruihan
09:25	[731] The emulsification phenomenon of heavy oil in porous media studied by nuclear magnetic resonance method.	CHANG, Jiajing
09:25	[766] Pore-Type-Dependent microstructures of Shales and Implications on Permeability	Dr ZHANG, Qian
09:25	[846] Petrophysical Properties Estimation Based on Digital Rock Modeling for Sandstone	Dr KHAKIMOVA, Lyudmila
09:25	[92] Mechanism Research on Rapid Expansion of Steam Chamber Based on Nitrogen Inducing	XIE, Haojun
09:25	[115] Numerical simulation and completion design optimization of sand production in depressurization exploitation of natural gas hydrate in South China Sea	QIN, Yu
09:25	[161] Optimization of Water Control and Oil Stabilization Scheme for Edge and Bottom Water Heavy Oil Reservoir	XU, lilong
09:25	[342] Two-phase seepage behaviour of hydrate-bearing sediments at pore-scale studied using a CFD approach	Prof. YIN, Zhenyuan
09:25	[421] Relationship between Pore Structure and Reaction Characteristics in Supercritical Water Gasification of Chunk Coa	ZHANG, Xuanhao
09:25	[320] Investigation on pore structure and imbibition characteristic of tight sandstone by nuclear magnetic resonance	XIA, Xuanzhe
09:25	[396] Direct numerical simulation of the two-phase flow in a pore network and comparative analysis with drainage/imbibition tests on glass micromodels	Dr TSAKIROGLOU, Christos
09:25	[650] Research and evaluation of damage mechanism of pore scale water phase trap in tight sandstone gas reservoir based on numerical simulation	TANG, Xingyu
09:25	[338] Integrated Workflow of Fracturing-Flowback-Production in Tight Oil Reservoirs with a Focus on Fracturing Fluid Leak-off.	Mr WU, Wensheng
09:25	[392] Application of gel particles in the regulation of oil-water permeability curve	Dr QIN, Quanling
09:25	[423] Study on enhanced WAG expanding swept volume technology based on carbon dioxide thickener	Dr FANG, Pengwei
09:25	[501] Large PV carbon dioxide flooding mechanism of ultra-low permeability tight reservoir in Songliao Basin	XU, Rui

09:25	[612] Time-dependent deformation of porous sandstones during pore pressure fluctuations and its effect on porous sandstone properties: Implications for subsurface hydrogen storage.	Mr WEN, Ming
09:25	[997] Pore-scale experimental investigation of low-salinity waterflooding for enhanced oil recovery	TONG, Chunyu
09:25	[274] Simulation and Prediction of Natural Restoration for Arsenic-Contaminated Site	SHENGZHANG, ZOU
09:25	[1059] A Theoretical Model for Thermal Conductivity of Fibrous Porous Media	YANG, Ran

Poster: Poster Session VI (16:05 - 17:40)

time	[id] title	presenter
16:10	[236] Remobilization mechanism of microscopic residual oil in heterogeneous sandstones during water flooding process	ZHANG, Qi
16:10	[454] Impact of wettability on supercritical CO2 transport and local capillary trapping in deep saline aquifers	Dr WANG, Yanyong
16:10	[379] Pore network modelling to study dynamic permeability evolution of hydrate-bearing sediments considering media deformation	Dr CHEN, Mingqiang
16:10	[411] Numerical study on the enhanced oil recovery by CO2 injection and CO2 storage in shale oil formations	ZHANG, Rupeng
16:10	[505] Evolution characteristics and quantitative model of shale porosity for Wufeng-Longmaxi Formation in southern Sichuan Basin, China	XIAO, Guangshun
16:10	[683] Establishment and analysis of characterization model of oil-water flow energy consumption in porous media	BAI, Yajie
16:10	[387] Physical characteristics analysis of Carboniferous-Jurassic reservoir in the piedmont southwest Tarim Basin	WANG, Boyu
16:10	[525] Modelling liquid-gas interface movement under imbibition conditions considering solubility effects	LI, Xingfu
16:10	[784] Model formulation of fluid flow in phase domain for fracturing-shut in-flowback-production process in tight oil reservoirs	Dr ZHENG, Zhixue
16:10	[762] Integrated Microstructural Analysis of Rock Samples: Quantifying Porosity and Mineralogy with SEM and Machine Learning	Mr JIANG, Mingze
16:10	[449] Modeling of CO2-Foam Rheology for Improved Injectivity Prediction in CCUS Processes	Dr TANG, Jinyu
16:10	[482] Study on the Emulsification Characteristics of Heavy Oil during Chemical Flooding	LIU, Jianbin
16:10	[523] Study on Reservoir Time-Varying Patterns and Remaining Oil Distribution in Sandstone Reservoirs during Long-Term Water Flooding Process	Mr LIU, Tonghui
16:10	[630] Pore-Scale Exploration of Wettability Impact on Fluid Flow: Micro-CT Imaging and Relative Permeability Analysis in a Sandstone Core	WANG, Tingting
16:10	[661] Sub-core scale investigation of heterogeneity effect on CO2 transport in natural conglomerate cores	ZHOU, Xueqing
16:10	[136] Numerical simulation CO2 sequestration in deep saline aquifers coupled with enhanced reservoir water and geothermal energy system recovery	XIE, Zehao
16:10	[306] Pore-scale analysis of fluid transport in different grades of brain tumours considering the effect of extracellular matrix	Mr YANG, Yi

16:10	[616] Visualized investigation of transport behaviors during CO2-EOR in multiscale porous medium	SHI, Jiawei
16:10	[652] Determination of gas content in shale by adsorption and desorption experiment	Dr GUAN, Jian
16:10	[143] Wettability-alteration and Its Impact on Immiscible Two-phase Relative Permeability Induced by Nanoparticles Non-uniform Adsorption in Heterogeneous Porous Media	KE, Can
16:10	[244] Microfluidic study on the gas-water flow behaviors at pore-scale in tight sandstone rocks	TIAN, Jian
16:10	[331] Pore Scale Study on Transport Plugging and Displacement Performance Evaluation of a Novel Microencapsulated Polymer Delivery System	LIU, Yongsheng
16:10	[372] Plugging rules, macro-micro matching relationship and EOR mechanism of elastic particle: A microfluidic study	Dr CHEN, Xin
16:10	[979] Connectivity of multiscale porous structures of shale rocks based on multiscale imaging analysis	WANG, Zhiwei
16:10	[181] Testing a Thermal-Dispersion Upscaling Method for Geothermal Reservoir Simulation in Heterogeneous Reservoirs	ROSSEN, William
16:10	[418] Microscopic visualization experimental study of salt precipitation during supercritical CO2 injection into saline aquifers	WANG, Yongchao
16:10	[302] How does surface salt crystallization influence saline water evaporation from porous media in the presence of a water table?	JANNESARAHMADI, Sahar
16:10	[330] Study on Injection-Production Characteristics of CO2 Flooding in Fractured Extra/Ultra-low Permeability Reservoirs	Dr CHEN, Xinliang
16:10	[339] Research on the microscopic movability characteristics of tight oil with different injection media huff and puff based on NMR technology: A case study of Qinghai Oilfield	DOU, Zhuoying
16:10	[440] Buoyancy-driven dissolution instability in a horizontal Hele-Shaw cell	LI, Kai
16:10	[994] The role of biopolymer on the stability of Colloidal Gas Aphrons	OMIRBEKOV, Sagyn
16:10	[999] Experimental and simulation study on enhanced oil recovery of sandstone reservoir in high water cut stage	Mr WANG, Tao
16:10	[1030] Improving CO2 Sweep Efficiency in Carbonate Rock by Injecting Water-Saturated CO2	YIN, Hang LE-HUSSAIN, Furqan
16:10	[1034] Estimating sub-core permeability using multiple coreflooding experiments	WEI, Yanjing
16:10	[399] Numerical simulation for the reactive multiphase flow in porous media during the Carbon Capture and Storage process	ZHANG, Lei
16:10	[484] An efficient numerical simulation of coupled thermo-hydro-mechanical processes in deep tight gas reservoirs	Prof. HUANG, Zhaoqin
16:10	[69] Stress Sensitivity of Fracture Permeability in Shale Oil Reservoirs under Fluid-Solid Coupling	Dr HUANG, Saipeng
16:10	[1043] Monitoring nano-scale fluid films in porous rock with AFM	RUECKER, Maja

Thursday, 16 May 2024

Poster: Poster Session VII (10:20 - 11:50)

time	[id] title	presenter
10:20	[708] Optical Properties versus Compositional & Structural Features of Dried Ink Thin Films	Dr TOMOZEIU, Nicolae
10:20	[511] Feature alignment Generative Adversarial Network for Multi-scale fusion reconstruction of Core Images	YAN, Pengcheng
10:20	[757] Coupling Deep Learning with Progressive Growing Generative Adversarial Networks and Data Assimilation for Inverse Modeling in Complex Aquifers	LI, Liangping
10:20	[824] Study on mechanism of removal of residual DNAPL by co-injection of ethanol and CO2 into 2D porous micromodel	Dr YUAN, Min
10:20	[917] Evaluation of the void space structure and flow channels in low-permeability reservoir rocks	MUKHAMETDINOVA, Aliya
10:20	[837] Numerical simulation on the four-dimensional in-situ stress evolution in shale gas reservoirs under water injection	Dr RUAN, Qi
10:20	[745] Mass transfer across fracture-matrix interface in a flowing fracture	Mr FARHADZADEH, Mohsen
10:20	[121] Elastic anisotropy and influencing factors of shale in the Wufeng-Longmaxi Formation	YUTIAN, Feng
10:20	[219] Mechanism and Control Factors of Particle Migration in Loose Sandstone Reservoirs	TANG, haoxuan
10:20	[931] The implications of subsurface CO2 geological storage for mineralogy and geomechanical behavior: Triassic Sherwood Sandstone, East Irish Sea, UK	Mr SILVA, Krishna
10:20	[730] The effect of fractures and heterogeneity on the effective growth kinetics of microorganisms in large scale modelling of porous media	Dr M. NICK, Hamid
10:20	[1011] The Future of Core Analysis: Estimating of Effective Porosity via µCT & Transfer Learning	KADYROV, Rail
10:20	[1003] A variational hydraulic fracturing model for simulating the hydraulic fracture propagation in fracture-caved porous media	JIN, Jie
10:20	[987] The wettability of surfactant solutions on particles in simulated reservoirs	Dr ZHENG, Wang
10:20	[679] TH2M modelling: Extended analysis of gas phase appearance in low-permeable porous media	KOLDITZ, Olaf
10:20	[649] Digital-rock simulation of stress-dependent porosity and permeability for carbonate rocks	Dr TIAN, Ye
10:20	[1048] Multi-scale characterization for pore systems of hydrate-bearing reservoir——Kerishna-Godavari Basin, India	Ms □, □
10:20	[1058] Coupling reaction transport model and multiphase hydrate simulator for studying anaerobic oxidation of methane	LIU, Haotian
10:20	[1066] Breaking the classical approach: achieving homologous topology modulation of Hydrogen-Bonded Organic Frameworks	□, □□
10:20	[1063] Pore-scale insights into CO2-water two-phase flow and implications for benefits of geological carbon storage	□, □□

Poster: Poster Session VIII (15:05 - 16:35)

time	[id] title	presenter
15:05	[1068] Study on the parameter in Unconventional Energy Reservoir Based on CT Scanning	ZHAO, Tian
15:05	[1044] Gas-water two-phase hydro-mechanical coupling simulation in deep shale considering nanomicroscale effects	WANG, Dongying
15:05	[1031] Experimental and Model Studies of Fluids in Micro-Nano Scales	Mr SONG, Fuquan
15:05	[1019] The investigation of shale dynamical spontaneous imbibition with hydration damage and its influence on mechanical property	□, □
15:05	[942] An Autonomous Adaptive Meta Model (AAMM) for Real-Time Oil Rate Prediction and Optimization in Dynamic Environments	Ms SAID ADINANI, Fatna
15:05	[940] Machine-learning-based forecasting model for nanoparticles controlling oil-water interface performance	LI, Dongming
15:05	[800] The displacement of immiscible two-phase fluids in a pore doublet system	Dr SHAN, Fang
15:05	[777] Microfluidic visualization of asphaltene deposition under high temperature	PEREPONOV, Dmitrii
15:05	[512] Organic matter–oil adhesion force and ultimate flow distance of adsorbed oil in shale reservoirs	Dr SHEN, Rui
15:05	[795] Retention Mechanism of Residual Oil in Different Pore-Throat Structures Under High-Flux Water Displacement Using Pore-Scale Two-Phase Flow Simulation Considering Dynamic Contact Angle	YAN, Gaofei
15:05	[224] Study on the pore-scale multiphase seepage characteristics of clayey-silt sediments	XIA, Yuxuan
15:05	[132] Study on the Influencing Factors of N2-Water Alternating Huff and Puff Oil Recovery in Tight Oil Reservoir	Dr FAN, Qiao
15:05	[831] Gas mass transfer in deep coal cleats: coupling multiple flow mechanisms and poromechanics with creep	Dr ZHANG, Tao
15:05	[815] Numerical study of the gas-liquid separation of cryogenic fluids with porous structures	Mr YI, Tianhao
15:05	[562] The influence of matrix lower limit on structure and flow characteristics in tight oil reservoir	WANG, Chenchen
15:05	[891] Quantitative characterization method for residual oil distribution in heavy oil after multi-cycle steam huff and puff based on CT scanning	ZHENG, Haoyu
15:05	[466] Integrating LUCAS data with AI-driven models for predicting soil Salinization across the EU	SHOKRI, Nima
15:05	[620] The Wettability Evolution Process and Mechanism of Deep Tight Sandstones Controlled by Diagenesis: A Case Study from the Dongying Sag, Bohai Bay Basin	WANG, Xin
15:05	[912] Pore-scale investigation of the influence of gas mixing on He/brine and CO2/brine wettability using Microfluidics: Implications for CO2 and H2 geo-storage	ALANAZI, Amer
15:05	[867] AI assisted prediction of Sweep Efficiency of Hydrogen – Water Displacements in Porous Media	SAJJADI, Mozhdeh