

Zuleima Karpyn

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3553631/publications.pdf>

Version: 2024-02-01

48
papers

1,829
citations

257450

24
h-index

265206

42
g-index

48
all docs

48
docs citations

48
times ranked

1796
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical study of gas diffusion and sorption kinetics in ultratight rocks. <i>Fuel</i> , 2021, 286, 119300.	6.4	13
2	Dual Compressibility Characteristics of Lignite, Subbituminous, and High-Volatile Bituminous Coals: A New Insight into Permeability. <i>Transport in Porous Media</i> , 2021, 136, 295-317.	2.6	4
3	Mechanical degradation of polyacrylamide at ultra high deformation rates during hydraulic fracturing. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 166-172.	2.4	6
4	Evaluation of image segmentation techniques for image-based rock property estimation. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107890.	4.2	32
5	Experimental evidence of gas densification and enhanced storage in nanoporous shales. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103120.	4.4	10
6	Laboratory investigation of chemical mechanisms driving oil recovery from oil-wet carbonate rocks. <i>Fuel</i> , 2019, 235, 406-415.	6.4	34
7	Investigation of Accessible Pore Structure Evolution under Pressurization and Adsorption for Coal and Shale Using Small-Angle Neutron Scattering. <i>Energy & Fuels</i> , 2019, 33, 837-847.	5.1	37
8	Gas permeability measurements from pressure pulse decay laboratory data using pseudo-pressure and pseudo-time transformations. <i>Journal of Petroleum Exploration and Production</i> , 2018, 8, 839-847.	2.4	12
9	Effect of coalification jumps on petrophysical properties of various metamorphic coals from different coalfields in China. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 60, 63-76.	4.4	28
10	Comparative analysis of nanopore structure and its effect on methane adsorption capacity of Southern Junggar coalfield coals by gas adsorption and FIB-SEM tomography. <i>Microporous and Mesoporous Materials</i> , 2018, 272, 117-128.	4.4	47
11	Petrographic Controls on Pore and Fissure Characteristics of Coals from the Southern Junggar Coalfield, Northwest China. <i>Energies</i> , 2018, 11, 1556.	3.1	7
12	Permeability evolution of shale during spontaneous imbibition. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 38, 590-596.	4.4	56
13	Factors and Mechanisms Governing Wettability Alteration by Chemically Tuned Waterflooding: A Review. <i>Energy & Fuels</i> , 2017, 31, 7734-7745.	5.1	75
14	Fracture opening or self-sealing: Critical residence time as a unifying parameter for cement- CO_2 -brine interactions. <i>International Journal of Greenhouse Gas Control</i> , 2016, 47, 25-37.	4.6	73
15	The role of host rock properties in determining potential CO_2 migration pathways. <i>International Journal of Greenhouse Gas Control</i> , 2016, 45, 18-26.	4.6	12
16	Automated contact angle estimation for three-dimensional X-ray microtomography data. <i>Advances in Water Resources</i> , 2016, 95, 152-160.	3.8	77
17	Pore-scale investigation on stress-dependent characteristics of granular packs and the impact of pore deformation on fluid distribution. <i>Geofluids</i> , 2016, 16, 198-207.	0.7	3
18	Self-healing of cement fractures under dynamic flow of CO_2 -rich brine. <i>Water Resources Research</i> , 2015, 51, 4684-4701.	4.2	59

#	ARTICLE	IF	CITATIONS
19	Experimental investigation of carbon dioxide trapping due to capillary retention in saline aquifers. <i>Geofluids</i> , 2015, 15, 563-576.	0.7	29
20	A production type-curve solution for coalbed methane reservoirs. <i>Journal of Unconventional Oil and Gas Resources</i> , 2015, 9, 136-152.	3.5	11
21	Development of a material balance equation for coalbed methane reservoirs accounting for the presence of water in the coal matrix and coal shrinkage and swelling. <i>Journal of Unconventional Oil and Gas Resources</i> , 2015, 9, 153-162.	3.5	15
22	Fracture permeability and relative permeability of coal and their dependence on stress conditions. <i>Journal of Unconventional Oil and Gas Resources</i> , 2015, 10, 1-10.	3.5	30
23	Experimental investigation of shale gas production impairment due to fracturing fluid migration during shut-in time. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 24, 99-105.	4.4	90
24	Swelling of clay minerals in unconsolidated porous media and its impact on permeability. <i>GeoResJ</i> , 2015, 7, 1-13.	1.4	120
25	Experimental Investigation of Fracturing-Fluid Migration Caused by Spontaneous Imbibition in Fractured Low-Permeability Sands. <i>SPE Reservoir Evaluation and Engineering</i> , 2014, 17, 74-81.	1.8	89
26	Investigation of Generalized Relative Permeability Coefficients for Electrically Assisted Oil Recovery in Oil Formations. <i>Transport in Porous Media</i> , 2014, 105, 235-253.	2.6	16
27	Experimental investigation of residual saturation in mixed-wet porous media using a pore-scale approach. <i>Journal of Petroleum Exploration and Production</i> , 2014, 4, 175-187.	2.4	2
28	Relative permeability of homogenous-wet and mixed-wet porous media as determined by pore-scale lattice Boltzmann modeling. <i>Water Resources Research</i> , 2014, 50, 3672-3689.	4.2	75
29	Investigation of gas flow hindrance due to fracturing fluid leakoff in low permeability sandstones. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 17, 1-12.	4.4	61
30	Pore-Scale Lattice Boltzmann Modeling and 4D X-ray Computed Microtomography Imaging of Fracture-Matrix Fluid Transfer. <i>Transport in Porous Media</i> , 2014, 103, 449-468.	2.6	26
31	Pore-scale multiphase flow experiments in bead packs of variable wettability. <i>Geofluids</i> , 2014, 14, 95-105.	0.7	23
32	Dynamic Evolution of Cement Composition and Transport Properties under Conditions Relevant to Geological Carbon Sequestration. <i>Energy & Fuels</i> , 2013, 27, 4208-4220.	5.1	79
33	Dynamic alterations in wellbore cement integrity due to geochemical reactions in CO ₂ -rich environments. <i>Water Resources Research</i> , 2013, 49, 4465-4475.	4.2	54
34	Single-phase lattice Boltzmann simulations of pore-scale flow in fractured permeable media. <i>International Journal of Oil, Gas and Coal Technology</i> , 2012, 5, 182.	0.2	12
35	Numerical studies on the effects of water presence in the coal matrix and coal shrinkage and swelling phenomena on CO ₂ -enhanced coalbed methane recovery process. <i>International Journal of Oil, Gas and Coal Technology</i> , 2012, 5, 47.	0.2	4
36	Development of a multi-mechanistic, dual-porosity, dual-permeability, numerical flow model for coalbed methane reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2012, 8, 121-131.	4.4	118

#	ARTICLE	IF	CITATIONS
37	Numerical Analysis of Imbibition Front Evolution in Fractured Sandstone under Capillary-Dominated Conditions. <i>Transport in Porous Media</i> , 2012, 94, 359-383.	2.6	12
38	Pore-scale analysis of trapped immiscible fluid structures and fluid interfacial areas in oil-wet and water-wet bead packs. <i>Geofluids</i> , 2011, 11, 209-227.	0.7	66
39	Investigating Matrix/Fracture Transfer via a Level Set Method for Drainage and Imbibition. <i>SPE Journal</i> , 2010, 15, 125-136.	3.1	38
40	An experimental study of spontaneous imbibition in fractured sandstone with contrasting sedimentary layers. <i>Journal of Petroleum Science and Engineering</i> , 2009, 67, 48-56.	4.2	46
41	X-ray CT and hydraulic evidence for a relationship between fracture conductivity and adjacent matrix porosity. <i>Engineering Geology</i> , 2009, 103, 139-145.	6.3	84
42	Development of a coal shrinkage swelling model accounting for water content in the micropores. <i>International Journal of Mining and Mineral Engineering</i> , 2009, 1, 346.	0.3	11
43	Integration of seismic attributes and production data for infill drilling strategies – A virtual intelligence approach. <i>Journal of Petroleum Science and Engineering</i> , 2008, 63, 43-52.	4.2	12
44	A study of absolute permeability dependence on pore-scale characteristics of carbonate reservoirs using artificial intelligence. <i>International Journal of Oil, Gas and Coal Technology</i> , 2008, 1, 382.	0.2	4
45	Visualization of fluid occupancy in a rough fracture using micro-tomography. <i>Journal of Colloid and Interface Science</i> , 2007, 307, 181-187.	9.4	93
46	Modeling the Formation of Fluid Banks During Counter-Current Flow in Porous Media. <i>Transport in Porous Media</i> , 2006, 62, 125-138.	2.6	2
47	Experimental Conditions Favoring the Formation of Fluid Banks during Counter-Current Flow in Porous Media. <i>Transport in Porous Media</i> , 2006, 62, 109-124.	2.6	10
48	Numerical Simulation of a CT-Scanned Counter-Current Flow Experiment. <i>Transport in Porous Media</i> , 2005, 60, 225-240.	2.6	12