Liang Huang

List of Publications by Year
in descending order

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41	1,548	304368	329751
papers	citations	22 h-index	37 g-index

41	41	41	894
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of organic type and moisture on CO2/CH4 competitive adsorption in kerogen with implications for CO2 sequestration and enhanced CH4 recovery. Applied Energy, 2018, 210, 28-43.	5.1	253
2	Molecular simulation of adsorption behaviors of methane, carbon dioxide and their mixtures on kerogen: Effect of kerogen maturity and moisture content. Fuel, 2018, 211, 159-172.	3.4	196
3	Dynamic fluid states in organic-inorganic nanocomposite: Implications for shale gas recovery and CO2 sequestration. Chemical Engineering Journal, 2021, 411, 128423.	6.6	102
4	Molecular insight into competitive adsorption of methane and carbon dioxide in montmorillonite: Effect of clay structure and water content. Fuel, 2019, 239, 32-43.	3.4	81
5	A semi-analytical model for drainage and desorption area expansion during coal-bed methane production. Fuel, 2017, 204, 214-226.	3.4	80
6	Experimental Investigation of Countercurrent Spontaneous Imbibition in Tight Sandstone Using Nuclear Magnetic Resonance. Energy & Fuels, 2018, 32, 6507-6517.	2.5	63
7	Thermodynamic and Structural Characterization of Bulk Organic Matter in Chinese Silurian Shale: Experimental and Molecular Modeling Studies. Energy & Fuels, 2017, 31, 4851-4865.	2.5	53
8	The transport behaviors of oil in nanopores and nanoporous media of shale. Fuel, 2019, 242, 305-315.	3.4	52
9	The effect of pore structure on non-Darcy flow in porous media using the lattice Boltzmann method. Journal of Petroleum Science and Engineering, 2019, 172, 391-400.	2.1	47
10	A fully-coupled semi-analytical model for effective gas/water phase permeability during coal-bed methane production. Fuel, 2018, 223, 44-52.	3.4	46
11	Exploitation of heavy oil by supercritical CO₂: Effect analysis of supercritical CO₂ on H₂O at superheated state in integral joint tubing and annuli. , 2018, 8, 557-569.		43
12	Microstructure and adsorption properties of organic matter in Chinese Cambrian gas shale: Experimental characterization, molecular modeling and molecular simulation. International Journal of Coal Geology, 2018, 198, 14-28.	1.9	39
13	Molecular Insights into Kerogen Deformation Induced by CO₂/CH₄ Sorption: Effect of Maturity and Moisture. Energy & Fuels, 2019, 33, 4792-4805.	2.5	37
14	Measurements and modeling of high-pressure adsorption of CH4 and CO2 on shales. Fuel, 2019, 242, 728-743.	3.4	36
15	High-Pressure Sorption of Methane, Ethane, and Their Mixtures on Shales from Sichuan Basin, China. Energy & Fuels, 2021, 35, 3989-3999.	2.5	36
16	Sorption of Methane, Carbon Dioxide, and Their Mixtures on Shales from Sichuan Basin, China. Energy & Fuels, 2018, 32, 2926-2940.	2.5	34
17	Kerogen deformation upon CO2/CH4 competitive sorption: Implications for CO2 sequestration and enhanced CH4 recovery. Journal of Petroleum Science and Engineering, 2019, 183, 106460.	2.1	34
18	An analytical model for gas transport through elliptical nanopores. Chemical Engineering Science, 2019, 199, 199-209.	1.9	34

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19	Swelling of Kimmeridge kerogen by normal-alkanes, naphthenes and aromatics. Fuel, 2020, 267, 117155.	3.4	32
20	Relationship between the stress sensitivity and pore structure of shale. Journal of Natural Gas Science and Engineering, 2018, 59, 440-451.	2.1	29
21	Enhanced gas recovery by CO2 sequestration in marine shale: a molecular view based on realistic kerogen model. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	26
22	An analytical model for transport capacity of water confined in nanopores. International Journal of Heat and Mass Transfer, 2019, 138, 620-630.	2.5	26
23	A discrete model for apparent gas permeability in nanoporous shale coupling initial water distribution. Journal of Natural Gas Science and Engineering, 2018, 59, 80-96.	2.1	24
24	Experimental Investigation of the Role of DC Voltage in the Wettability Alteration in Tight Sandstones. Langmuir, 2020, 36, 11985-11995.	1.6	21
25	Experimental investigation of driving brine water for enhanced oil recovery in tight sandstones by DC voltage. Journal of Petroleum Science and Engineering, 2019, 180, 485-494.	2.1	18
26	Gas transport in self-affine rough microchannels of shale gas reservoir. Journal of Petroleum Science and Engineering, 2018, 167, 716-728.	2.1	15
27	Production forecasting of gas condensate well considering fluid phase behavior in the reservoir and wellbore. Journal of Natural Gas Science and Engineering, 2015, 24, 279-290.	2.1	14
28	Simplified local density model for gas adsorption in cylindrical carbon pores. Applied Surface Science, 2019, 491, 335-349.	3.1	14
29	Pore Characterization and Inner Adsorption Mechanism Investigation for Methane in Organic and Inorganic Matters of Shale. Energy & Fuels, 2020, 34, 4106-4115.	2.5	12
30	Experimental characterization and molecular modeling of kerogen in Silurian deep gas shale from southern Sichuan Basin, China. Energy Reports, 2022, 8, 1497-1507.	2.5	11
31	Molecular Simulation of CO2 Sequestration and Enhanced Gas Recovery in Gas Rich Shale: An Insight Based on Realistic Kerogen Model. , 2017, , .		7
32	Effect of Pore Shape on Nanoconfined Gas Flow Behavior: Implication for Characterizing Permeability of Realistic Shale Matrix. Industrial & Engineering Chemistry Research, 2019, , .	1.8	7
33	Sorption measurements of moisture-equilibrated shale with the consideration of water vapor pressure. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2018, 48, 524-536.	0.3	7
34	Adsorption behavior of n-hexane and its mixtures with CO2, CH4, H2O and SDBS in hydrophobic silica nanopores. Fuel, 2022, 312, 122872.	3.4	7
35	A productivity model for cyclic steam stimulation for heavy oil with non-Newtonian flow behaviour. International Journal of Oil, Gas and Coal Technology, 2018, 17, 257.	0.1	4
36	Modified SLD model for coalbed methane adsorption under reservoir conditions. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	2

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37	Experimental Study on the Elemental Sulfur Solubility in Sour Gas Mixtures. Frontiers in Earth Science, 2021, 9, .	0.8	2
38	Controlling factors towards co-production performance of coalbed methane and tight sandstone gas reservoirs. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	2
39	Effect of Adsorbent Properties on Adsorption-Induced Deformation. Langmuir, 2021, 37, 14813-14822.	1.6	2
40	Molecular Simulation of Adsorption and Thermodynamic Properties of Organic Matter in Silurian Shale of Sichuan Basin, China. Springer Series in Geomechanics and Geoengineering, 2019, , 1517-1533.	0.0	0
41	Application of Cubic EOS for Shale Gas Adsorption Study. Springer Series in Geomechanics and Geoengineering, 2021, , 3196-3206.	0.0	0