

Xiaopu Wang

List of Publications by Year in descending order

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17
papers

419
citations

759233

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1058476

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all docs

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483
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on Competitive Adsorption and Displacing Properties of CO ₂ Enhanced Shale Gas Recovery: Advances and Challenges. <i>Geofluids</i> , 2020, 2020, 1-15.	0.7	61
2	Effect of total organic carbon (TOC) content on shale wettability at high pressure and high temperature conditions. <i>Journal of Petroleum Science and Engineering</i> , 2020, 193, 107374.	4.2	58
3	Role of fluid density on quartz wettability. <i>Journal of Petroleum Science and Engineering</i> , 2019, 172, 511-516.	4.2	46
4	The interfacial properties of clay-coated quartz at reservoir conditions. <i>Fuel</i> , 2020, 262, 116461.	6.4	39
5	Quantitative analysis of chemotaxis towards toluene by <i>Pseudomonas putida</i> in a convection-free microfluidic device. <i>Biotechnology and Bioengineering</i> , 2015, 112, 896-904.	3.3	35
6	Self-Partitioned Droplet Array on Laser-Patterned Superhydrophilic Glass Surface for Wall-less Cell Arrays. <i>Analytical Chemistry</i> , 2016, 88, 2652-2658.	6.5	30
7	Bacterial chemotaxis toward a NAPL source within a pore-scale microfluidic chamber. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1622-1628.	3.3	29
8	Enhanced Retention of Chemotactic Bacteria in a Pore Network with Residual NAPL Contamination. <i>Environmental Science & Technology</i> , 2016, 50, 165-172.	10.0	29
9	The molecular mechanism of the inhibition effects of PVCaps on the growth of sl hydrate: an unstable adsorption mechanism. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8326-8332.	2.8	29
10	Molecular dynamics study on the dissociation of methane hydrate via inorganic salts. <i>Molecular Physics</i> , 2016, 114, 34-43.	1.7	26
11	A molecular dynamic study on the dissociation mechanism of SI methane hydrate in inorganic salt aqueous solutions. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 75, 403-412.	2.4	16
12	Simulation and Observation of Hydrate Phase Transition in Porous Medium via Microfluidic Application. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5071-5079.	3.7	13
13	Simulation on Effects of Injection Parameters on CO ₂ Enhanced Gas Recovery in a Heterogeneous Natural Gas Reservoir. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100127.	2.8	6
14	Molecular dynamics simulation of the effects of different salts on methane hydrate formation: an analysis of NaCl, KCl and CaCl ₂ . <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 675, 012180.	0.3	2
15	Preliminary Study on Dimensionless Expression of Bacterial Chemotaxis in Simulated Contaminated System. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 178, 012009.	0.3	0
16	A Novel Machine Learning Assisted Upscaling Workflow for Simulating the Waterflooding Process. , 2021, , .		0
17	Numerical Simulation of the Enrichment of Chemotactic Bacteria in Oil-Water Two-Phase Transfer Fields of Heterogeneous Porous Media. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5215.	2.5	0