

# Xiaopu Wang

## List of Publications by Year in descending order

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759233

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citing authors

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