Junbo Xu

List of Publications by Year in descending order

33 papers	475 citations	840776 11 h-index	713466 21 g-index
33 all docs	33 docs citations	33 times ranked	585 citing authors

#	Article	IF	Citations
1	Effect of Naphthenic Acid and Metal Ions on Emulsification of Heavy Oil. Energy & Fuels, 2022, 36, 2561-2571.	5.1	2
2	Higher ablative resistance performance of CF-ZrO2/ZrC composites by an in-situ sol-gel method. Composites Science and Technology, 2022, 227, 109625.	7.8	8
3	Molecular Simulations on Tuning the Interlayer Spacing of Graphene Nanoslits for C4H6/C4H10 Separation. ACS Applied Nano Materials, 2021, 4, 1994-2001.	5.0	5
4	Molecular Dynamics Simulation Reveals Unique Rheological and Viscosityâ€“Temperature Properties of Karamay Heavy Crude Oil. Energy & Fuels, 2021, 35, 7956-7966.	5.1	13
5	Multiscale Model of the RTM Process: From Mesoscale Anisotropic Permeability of Woven Structures to Macroscale Resin Impregnation. Industrial & Engineering Chemistry Research, 2021, 60, 8269-8279.	3.7	4
6	Molecular dynamics simulation of the interface properties of continuous carbon fiber/ polyimide composites. Applied Surface Science, 2021, 563, 150370.	6.1	33
7	Particle-resolved simulation of randomly packed pebble beds with a novel fluid-solid coupling method. Fusion Engineering and Design, 2020, 161, 111953.	1.9	12
8	Interfacial Diffusion of Hydrated Ion on Graphene Surface: A Molecular Simulation Study. Langmuir, 2020, 36, 13613-13620.	3.5	11
9	Separation of 1-Butene and 2-Butene Isomers via Nanoporous Graphene: A Molecular Simulation Study. Industrial & Engineering Chemistry Research, 2020, 59, 9215-9222.	3.7	2
10	Molecule design of effective C2H4/C2H6 separation membranes: From 2D nanoporous graphene to 3D AHT zeolite. Journal of Membrane Science, 2020, 604, 118033.	8.2	6
11	Maximizing sinusoidal channels of HZSM-5 for high shape-selectivity to p-xylene. Nature Communications, 2019, 10, 4348.	12.8	102
12	Concurrent coupling of atomistic simulation and mesoscopic hydrodynamics for flows over soft multi-functional surfaces. Soft Matter, 2019, 15, 1747-1757.	2.7	17
13	Particle-resolved simulation of packed beds by non-body conforming locally refined orthogonal hexahedral mesh. Chinese Journal of Chemical Engineering, 2019, 27, 2635-2642.	3.5	10
14	Structure and Transport Properties of Water and Hydrated Ions in Nanoâ€Confined Channels. Advanced Theory and Simulations, 2019, 2, 1900016.	2.8	47
15	Separation of diverse alkenes from C2-C4 alkanes through nanoporous graphene membranes via local size sieving. Journal of Membrane Science, 2019, 584, 227-235.	8.2	9
16	Computational screening of zeolites for C3H7Cl/C3H5Cl separation and a conformation based separation mechanism. Chemical Engineering Science, 2019, 203, 212-219.	3.8	4
17	Conformation-induced separation of 3-chloropropene from 1-chloropropane through nanoporous monolayer graphenes. Physical Chemistry Chemical Physics, 2019, 21, 5170-5177.	2.8	2
18	Effect of surfactants on the deformation of single droplet in shear flow studied by dissipative particle dynamics. Molecular Physics, 2018, 116, 1851-1861.	1.7	11

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19	Mechanism and Regulation of Spontaneous Water Transport in Grapheneâ€Based Nanoslits. Advanced Theory and Simulations, 2018, 1, 1800054.	2.8	2
20	Quantitative relationship between fluid inhomogeneities and flow enhancement in nanotubes. Nanoscale, 2017, 9, 6777-6782.	5.6	12
21	Thiourea grafted PVDF affinity membrane with narrow pore size distribution for Au (III) adsorption: Preparation, characterization, performance investigation and modeling. Chemical Engineering Journal, 2017, 314, 700-713.	12.7	24
22	Effect of surface property on mass flux in a variable-section microchannel. Chinese Journal of Chemical Engineering, 2017, 25, 401-407.	3.5	1
23	Fluid inhomogeneity within nanoslits and deviation from Hagenâ€“Poiseuille flow. AICHE Journal, 2017, 63, 834-842.	3.6	8
24	Apparent hydrodynamic slip induced by density inhomogeneities at fluidâ€“solid interfaces. Soft Matter, 2015, 11, 6916-6920.	2.7	20
25	Dissipative particle dynamics simulation on the rheological properties of heavy crude oil. Molecular Physics, 2015, 113, 3325-3335.	1.7	5
26	Dissipative particle dynamics simulation of molecule self-diffusion under cylindrical confinement. Scientia Sinica Chimica, 2015, 45, 42-48.	0.4	0
27	The aggregation and diffusion of asphaltenes studied by GPU-accelerated dissipative particle dynamics. Computer Physics Communications, 2014, 185, 3069-3078.	7.5	31
28	Surface Diffusion of Pt Clusters in/on SiO₂ Matrix at Elevated Temperatures and Their Improved Catalytic Activities in Benzene Oxidation. Journal of Physical Chemistry C, 2014, 118, 22719-22729.	3.1	23
29	Accelerating dissipative particle dynamics with multiple GPUs. Computer Physics Communications, 2013, 184, 2454-2461.	7.5	9
30	Effect of different O2/N2 flow rate on the size and yield of ZnO nanostructures. CrystEngComm, 2013, 15, 2544.	2.6	4
31	Effect of the cooling condition on the morphology and photoluminescence properties of ZnO nanostructures. CrystEngComm, 2013, 15, 5345.	2.6	4
32	Morphological evolution of ZnO nanostructures: experimental and preliminary simulation studies. CrystEngComm, 2012, 14, 5539.	2.6	4
33	Mesoscopic simulation of self-assembly in surfactant oligomers by dissipative particle dynamics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 290, 239-246.	4.7	30