Mahmoud Rahmati

List of Publications by Year
in descending order

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23	522	567281 15	642732 23
papers	citations	h-index	g-index

23	23	23	532
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular simulation study of polyurethane membranes. Polymer, 2012, 53, 1939-1950.	3.8	77
2	Molecular dynamics simulations of asphaltene aggregation under different conditions. Journal of Petroleum Science and Engineering, 2019, 177, 392-402.	4.2	59
3	Experimental and theoretical studies on the formation of pure Î²-phase polymorphs during fabrication of polyvinylidene fluoride membranes by cyclic carbonate solvents. Green Chemistry, 2021, 23, 2130-2147.	9.0	30
4	Selectivity of new siliceous zeolites for separation of methane and carbon dioxide by Monte Carlo simulation. Microporous and Mesoporous Materials, 2013, 176, 168-177.	4.4	29
5	Comparison of the thermodynamic, structural and dynamical properties of methane/water and methane/water/hydrate systems using molecular dynamic simulations. Journal of Natural Gas Science and Engineering, 2017, 44, 122-130.	4.4	29
6	Asphaltene solubility in common solvents: A molecular dynamics simulation study. Canadian Journal of Chemical Engineering, 2015, 93, 2222-2232.	1.7	28
7	Grand canonical Monte Carlo simulation of isotherm for hydrogen adsorption on nanoporous siliceous zeolites at room temperature. Applied Surface Science, 2009, 255, 4773-4778.	6.1	27
8	Molecular dynamics simulation of functionalized graphene surface for high efficient loading of doxorubicin. Journal of Molecular Structure, 2017, 1141, 441-450.	3.6	27
9	Non-ionic deep eutectic solvents for membrane formation. Journal of Membrane Science, 2022, 646, 120238.	8.2	26
10	Nitrogen adsorption on nanoporous zeolites studied by Grand Canonical Monte Carlo simulation. Computational and Theoretical Chemistry, 2009, 901, 110-116.	1.5	25
11	Investigation on absorption and release of mercaptopurine anticancer drug from modified polylactic acid as polymer carrier by molecular dynamic simulation. Materials Science and Engineering C, 2019, 105, 110010.	7.3	23
12	An investigation of proton conductivity of PVA, PBI and SPEEK polymer membranes using molecular dynamics simulation. Journal of Molecular Liquids, 2019, 296, 111781.	4.9	19
13	Molecular dynamics simulation of the effect of ions in water on the asphaltene aggregation. Journal of Molecular Liquids, 2019, 277, 40-48.	4.9	19
14	Enhancing cadmium removal by low-cost nanocomposite adsorbents from aqueous solutions; a continuous system. Composites Part B: Engineering, 2019, 173, 106963.	12.0	18
15	Application of ANFIS and MLR models for prediction of methane adsorption on X and Y faujasite zeolites: effect of cations substitution. Neural Computing and Applications, 2017, 28, 301-312.	5.6	16
16	Computational comparison of the efficiency of nanoporous zeolite frameworks for separation of phenol from water. Journal of the Taiwan Institute of Chemical Engineers, 2018, 88, 104-113.	5.3	13
17	Effects of heteroatom and aliphatic chains of asphaltene molecules on their aggregation properties in aromatics Solvents: A molecular dynamics simulation study. Chemical Physics Letters, 2021, 779, 138847.	2.6	13
18	Thermodynamic and structural properties of methane/water systems at the threshold of hydrate formation predicted by molecular dynamic simulations. Journal of Natural Gas Science and Engineering, 2016, 31, 555-561.	4.4	12

#	Article	IF	Citations
19	The effect of the molecular weight and polydispersity index on the thermal conductivity of Polyamide 6: A molecular dynamics study. International Journal of Heat and Mass Transfer, 2020, 154, 119487.	4.8	10
20	Molecular dynamics simulation of proton conductivity enhancement in polymer membranes by Y-doped BaCeO3 nanoparticles. Computational Materials Science, 2019, 169, 109139.	3.0	8
21	The effects of structural parameters of zeolite on the adsorption of hydrogen: a molecular simulation study. Molecular Simulation, 2012, 38, 1038-1047.	2.0	7
22	The kinetic modeling of methane hydrate growth by using molecular dynamic simulations. International Journal of Heat and Mass Transfer, 2019, 142, 118356.	4.8	6
23	Molecular dynamics simulation for investigating and assessing reaction conditions between carboxylated polyethersulfone and polyethyleneimine. Journal of Applied Polymer Science, 2021, 138, 51304.	2.6	1