

Vasileios K Michalis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8650812/publications.pdf>

Version: 2024-02-01

17
papers

540
citations

759233

12
h-index

888059

17
g-index

18
all docs

18
docs citations

18
times ranked

513
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of the phase equilibria of methane hydrates using the direct phase coexistence methodology. <i>Journal of Chemical Physics</i> , 2015, 142, 044501.	3.0	111
2	Rarefaction effects on gas viscosity in the Knudsen transition regime. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 847-853.	2.2	92
3	The role of intermolecular interactions in the prediction of the phase equilibria of carbon dioxide hydrates. <i>Journal of Chemical Physics</i> , 2015, 143, 094506.	3.0	58
4	Direct phase coexistence molecular dynamics study of the phase equilibria of the ternary methane-carbon dioxide-water hydrate system. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23538-23548.	2.8	39
5	Molecular dynamics simulations of the diffusion coefficients of light n-alkanes in water over a wide range of temperature and pressure. <i>Fluid Phase Equilibria</i> , 2016, 407, 236-242.	2.5	39
6	Molecular Dynamics Simulation of Water-Based Fracturing Fluids in Kaolinite Slit Pores. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17170-17183.	3.1	33
7	Enthalpy of dissociation of methane hydrates at a wide pressure and temperature range. <i>Fluid Phase Equilibria</i> , 2019, 489, 30-40.	2.5	30
8	Mesoscopic Simulation of Rarefied Flow in Narrow Channels and Porous Media. <i>Transport in Porous Media</i> , 2012, 94, 385-398.	2.6	28
9	Molecular dynamics simulations of pure methane and carbon dioxide hydrates: lattice constants and derivative properties. <i>Molecular Physics</i> , 2016, 114, 2672-2687.	1.7	24
10	Lattice constants of pure methane and carbon dioxide hydrates at low temperatures. Implementing quantum corrections to classical molecular dynamics studies. <i>Journal of Chemical Physics</i> , 2016, 144, 124512.	3.0	20
11	Using clathrate hydrates for gas storage and gas-mixture separations: experimental and computational studies at multiple length scales. <i>Molecular Physics</i> , 2018, 116, 2041-2060.	1.7	18
12	Solubility of Methane and Carbon Dioxide in the Aqueous Phase of the Ternary (Methane + Carbon Dioxide + Water) System. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 1027-1035.	1.9	15
13	Mesoscopic modeling of flow and dispersion phenomena in fractured solids. <i>Computers and Mathematics With Applications</i> , 2008, 55, 1525-1540.	2.7	11
14	Development of a novel experimental apparatus for hydrate equilibrium measurements. <i>Fluid Phase Equilibria</i> , 2016, 424, 152-161.	2.5	10
15	Ranking the Efficiency of Gas Hydrate Anti-agglomerants through Molecular Dynamic Simulations. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1487-1502.	2.6	8
16	13 The Role of Molecular Thermodynamics in Developing Industrial Processes and Novel Products That Meet the Needs for a Sustainable Future. <i>Green Chemistry and Chemical Engineering</i> , 2017, , 633-660.	0.0	2
17	Novel methodology for the calculation of the enthalpy of enclathration of methane hydrates using molecular dynamics simulations. <i>Molecular Physics</i> , 2020, 118, e1711976.	1.7	1