

Xianhua Nie

List of Publications by Year in descending order

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27
papers

397
citations

759233

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27
times ranked

343
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics investigation on isobaric heat capacity of working fluid in supercritical CO2 Brayton cycle: Effect of trace gas. <i>Journal of CO2 Utilization</i> , 2022, 55, 101790.	6.8	10
2	Molecular dynamics investigation on shear viscosity of the mixed working fluid for supercritical CO2 Brayton cycle. <i>Journal of Supercritical Fluids</i> , 2022, 182, 105533.	3.2	6
3	Hydrate-based gas separation for working fluid mixtures: Application to composition-adjustable organic Rankine cycle. <i>Chemical Engineering Journal</i> , 2022, 434, 134626.	12.7	8
4	Tuning lattice thermal conductivity of bilayer and trilayer molybdenum disulfide thermoelectric materials through twist angles. <i>International Journal of Heat and Mass Transfer</i> , 2022, 194, 123005.	4.8	10
5	Molecular dynamics investigation on the composition separation of binary organic mixture in a double-walled T-shaped carbon nanotube separator. <i>Journal of Molecular Liquids</i> , 2021, 321, 114498.	4.9	1
6	Twist-angle-dependent thermal conduction in single-crystalline bilayer graphene. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	24
7	Ledinegg instability analysis on direct vapor generation inside solar collectors. <i>Solar Energy</i> , 2020, 196, 530-539.	6.1	5
8	How interlayer twist angles affect thermal conduction of double-walled nanotubes: A non-equilibrium molecular dynamics study. <i>International Journal of Heat and Mass Transfer</i> , 2020, 160, 120234.	4.8	5
9	Exploring a potential application of hydrate separation for composition adjustable combined cooling and power system. <i>Applied Energy</i> , 2020, 268, 115064.	10.1	13
10	Separation of binary organic mixture in T-shaped carbon nanotube separator: Insights from molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2020, 312, 113371.	4.9	7
11	Understanding transport and separation of organic mixed working fluids in T-junction from multi-scale insights: Literature review and case study. <i>International Journal of Heat and Mass Transfer</i> , 2020, 154, 119702.	4.8	12
12	Overview on artificial intelligence in design of Organic Rankine Cycle. <i>Energy and AI</i> , 2020, 1, 100011.	10.6	37
13	Comparative analysis of calculation method of adsorption isosteric heat: Case study of CO2 capture using MOFs. <i>Microporous and Mesoporous Materials</i> , 2020, 298, 110053.	4.4	26
14	Molecular dynamics study on viscosity coefficient of working fluid in supercritical CO2 Brayton cycle: Effect of trace gas. <i>Journal of CO2 Utilization</i> , 2020, 38, 177-186.	6.8	10
15	Two-phase flow pattern and heat transfer coefficients of R245fa/R134a under non-uniform heat flux. <i>Chinese Science Bulletin</i> , 2020, 65, 1741-1751.	0.7	1
16	Effect of Nanobubble Evolution on Hydrate Process: A Review. <i>Journal of Thermal Science</i> , 2019, 28, 948-961.	1.9	34
17	Experimental study on flow boiling characteristics of R-245fa in circular tube under non-uniform heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118570.	4.8	23
18	Molecular Simulation Studies on Vapor-Liquid Equilibria and Thermal Decomposition of Working Fluids – A Review. <i>Energy Procedia</i> , 2019, 158, 5263-5268.	1.8	1

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19	Molecular Dynamics Simulation on Carbon Dioxide Hydrate Formation. Energy Procedia, 2019, 158, 4648-4654.	1.8	4
20	Performance evaluation on solar box cooker with reflector tracking at optimal angle under Bahir Dar climate. Solar Energy, 2019, 180, 664-677.	6.1	39
21	Molecular dynamics study on transport properties of supercritical working fluids: Literature review and case study. Applied Energy, 2019, 250, 63-80.	10.1	29
22	How interlayer twist angles affect in-plane and cross-plane thermal conduction of multilayer graphene: A non-equilibrium molecular dynamics study. International Journal of Heat and Mass Transfer, 2019, 137, 161-173.	4.8	38
23	Error analysis of ORC performance calculation based on the Helmholtz equation with different binary interaction parameters of mixture. Energy, 2019, 166, 414-425.	8.8	6
24	Molecular Dynamics Study on Effect of Interface Between Silicon and Silicon Carbide Crystals on Phonon Heat Conduction on Nanoscale. , 2019, , .		0
25	Molecular dynamic study on crossover of equilibrium time of conduction for silicon/silicon and silicon/silicon carbide pairs on nanoscale. International Communications in Heat and Mass Transfer, 2018, 98, 85-95.	5.6	3
26	A review of molecular simulation applied in vapor-liquid equilibria (VLE) estimation of thermodynamic cycles. Journal of Molecular Liquids, 2018, 264, 652-674.	4.9	17
27	Experimental study on thermal performance of U-type evacuated glass tubular solar collector with low inlet temperature. Solar Energy, 2017, 150, 192-201.	6.1	28