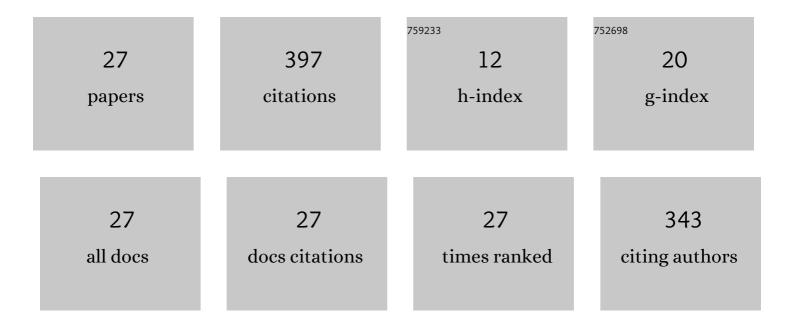
## Xianhua Nie

List of Publications by Year in descending order

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Χιλνητιλ Νιέ

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

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#	Article	IF	CITATIONS
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