Zhiheng Zheng

List of Publications by Year
in descending order

18	490	687363 13	839539 18
papers	citations	h-index	g-index

18	18	18	290
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Principles for designing CO2 adsorption catalyst: Serving thermal conductivity as the determinant for reactivity. Chinese Chemical Letters, 2022, 33, 990-994.	9.0	36
2	Rotation-induced significant modulation of near-field radiative heat transfer between hyperbolic nanoparticles. International Journal of Heat and Mass Transfer, 2022, 189, 122666.	4.8	28
3	Highly efficient energy harvest via external rotating magnetic field for oil based nanofluid direct absorption solar collector. Green Energy and Environment, 2021, 6, 298-307.	8.7	14
4	Experimental optimization of nanofluids based direct absorption solar collector by optical boundary conditions. Applied Thermal Engineering, 2021, 182, 116076.	6.0	29
5	Fabryâ€“Perot resonance assisted dual-layer coating with enhanced wavelength-selective refection and emission for daytime radiative cooling. Optics Communications, 2021, 483, 126673.	2.1	8
6	Electronically tunable near-field radiative heat transfer between doped silicon and graphene-covered silicon dioxide. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 261, 107485.	2.3	2
7	Highly-efficient nanofluid-based direct absorption solar collector enhanced by reverse-irradiation for medium temperature applications. Renewable Energy, 2020, 159, 652-662.	8.9	28
8	Effect of monolayer graphene on the performance of near-field radiative thermal rectifier between doped silicon and vanadium dioxide. International Journal of Heat and Mass Transfer, 2020, 155, 119707.	4.8	14
9	Re-estimation of thermal contact resistance considering near-field thermal radiation effect. Applied Thermal Engineering, 2019, 157, 113601.	6.0	16
10	Spectral tuning of near-field radiative heat transfer by graphene-covered metasurfaces. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 208, 86-95.	2.3	24
11	The influence of the two-dimensional sinusoidal gratings on the near-field radiative heat flux between two doped silicon films. International Journal of Heat and Mass Transfer, 2018, 125, 589-595.	4.8	3
12	Effective modulation of the near-field heat flux with radiative thermal switch based on electrochromic effects of tungsten trioxide. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 218, 171-177.	2.3	7
13	Graphene-assisted near-field radiative thermal rectifier based on phase transition of vanadium dioxide (VO2). International Journal of Heat and Mass Transfer, 2017, 109, 63-72.	4.8	69
14	Near-field radiative thermal control with graphene covered on different materials. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 180, 117-125.	2.3	19
15	Thermal rectification based on thermochromic materials. International Journal of Heat and Mass Transfer, 2013, 67, 575-580.	4.8	91
16	Theory of near-field radiative heat transfer for stratified magnetic media. International Journal of Heat and Mass Transfer, 2011, 54, 1101-1110.	4.8	53
17	Near-field radiative heat transfer between general materials and metamaterials. Science Bulletin, 2011, 56, 2312-2319.	1.7	19
18	Enhancement or Suppression of the Near-Field Radiative Heat Transfer Between Two Materials. Nanoscale and Microscale Thermophysical Engineering, 2011, 15, 237-251.	2.6	30