

# Zhiheng Zheng

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

490  
citations

687363

13  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

290  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal rectification based on thermochromic materials. International Journal of Heat and Mass Transfer, 2013, 67, 575-580.	4.8	91
2	Graphene-assisted near-field radiative thermal rectifier based on phase transition of vanadium dioxide (VO <sub>2</sub> ). International Journal of Heat and Mass Transfer, 2017, 109, 63-72.	4.8	69
3	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
4	Principles for designing CO <sub>2</sub> adsorption catalyst: Serving thermal conductivity as the determinant for reactivity. Chinese Chemical Letters, 2022, 33, 990-994.	9.0	36
5	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
6	Experimental optimization of nanofluids based direct absorption solar collector by optical boundary conditions. Applied Thermal Engineering, 2021, 182, 116076.	6.0	29
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	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
9	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
10	Near-field radiative heat transfer between general materials and metamaterials. Science Bulletin, 2011, 56, 2312-2319.	1.7	19
11	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
12	Re-estimation of thermal contact resistance considering near-field thermal radiation effect. Applied Thermal Engineering, 2019, 157, 113601.	6.0	16
13	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
14	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
15	Fabry-Pérot resonance assisted dual-layer coating with enhanced wavelength-selective reflection and emission for daytime radiative cooling. Optics Communications, 2021, 483, 126673.	2.1	8
16	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
17	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
18	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