

Hongru Ding

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7937359/publications.pdf>

Version: 2024-02-01

17
papers

492
citations

840776

11
h-index

1058476

14
g-index

18
all docs

18
docs citations

18
times ranked

565
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-cross-junction effect on phonon transport in silicon nanowire cages. <i>Physical Review B</i> , 2016, 94, .	3.2	112
2	Low-cost high-efficiency solar steam generator by combining thin film evaporation and heat localization: Both experimental and theoretical study. <i>Applied Thermal Engineering</i> , 2018, 143, 1079-1084.	6.0	82
3	The roles of metal-organic frameworks in modulating water permeability of graphene oxide-based carbon membranes. <i>Carbon</i> , 2019, 148, 277-289.	10.3	50
4	Ultra-fast vapor generation by a graphene nano-ratchet: a theoretical and simulation study. <i>Nanoscale</i> , 2017, 9, 19066-19072.	5.6	47
5	Optical nanomanipulation on solid substrates via optothermally-gated photon nudging. <i>Nature Communications</i> , 2019, 10, 5672.	12.8	39
6	The unexpected thermal conductivity from graphene disk, carbon nanocone to carbon nanotube. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 940-944.	4.8	36
7	Enhancing Surface Capture and Sensing of Proteins with Low-Power Optothermal Bubbles in a Biphasic Liquid. <i>Nano Letters</i> , 2020, 20, 7020-7027.	9.1	30
8	Atomistic modeling and rational design of optothermal tweezers for targeted applications. <i>Nano Research</i> , 2021, 14, 295-303.	10.4	23
9	Universal optothermal micro/nanoscale rotors. <i>Science Advances</i> , 2022, 8, .	10.3	23
10	Liquid Optothermoelectrics: Fundamentals and Applications. <i>Langmuir</i> , 2021, 37, 1315-1336.	3.5	14
11	Programmable Multimodal Optothermal Manipulation of Synthetic Particles and Biological Cells. <i>ACS Nano</i> , 2022, 16, 10878-10889.	14.6	14
12	Enhancing Single-Molecule Fluorescence Spectroscopy with Simple and Robust Hybrid Nanoapertures. <i>ACS Photonics</i> , 2021, 8, 1673-1682.	6.6	9
13	Investigating water/oil interfaces with opto-thermophoresis. <i>Nature Communications</i> , 2022, 13, .	12.8	8
14	Self-Limiting Opto-Electrochemical Thinning of Transition-Metal Dichalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58966-58973.	8.0	5
15	Symmetric and isotropic micro/nanorotors driven by a plane-polarized gaussian laser beam. , 2021, , .		0
16	ULTRA-FAST VAPOR GENERATION BY A GRAPHENE NANO-RATCHET: A THEORETICAL AND SIMULATION STUDY. , 2018, , .		0
17	Perfluoropentane-in-Water Biphasic System for Low-Power Photothermal Bubble Generation and Sensitive Immunoassay. , 2020, , .		0