

Yangsu Xie

List of Publications by Year in descending order

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28
papers

875
citations

471371

17
h-index

552653

26
g-index

30
all docs

30
docs citations

30
times ranked

992
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and Bolometric Responses of MoS ₂ Nanoflowers and Multi-Walled Carbon Nanotube Composite Network. <i>Nanomaterials</i> , 2022, 12, 495.	1.9	10
2	Molecular alignment induced high thermal conductivity in amorphous/ low crystalline polyimide fibers. <i>International Journal of Heat and Mass Transfer</i> , 2022, 193, 122959.	2.5	5
3	De novo design of polymers embedded with platinum acetylides towards n-type organic thermoelectrics. <i>Chemical Engineering Journal</i> , 2021, 405, 126692.	6.6	14
4	Uncovering the Structural Defect Effect on Thermal Transport in Carbon Fiber Mat by Thermal Reffusivity Dependence on Temperature. <i>International Journal of Thermophysics</i> , 2021, 42, 1.	1.0	0
5	Combined effect of N-methyl pyrrolidone and ferrocene derivatives on thermoelectric performance of n-type single-wall carbon nanotube-based composites. <i>Chemical Engineering Journal</i> , 2021, 421, 129718.	6.6	22
6	Dual-pace transient heat conduction in vertically aligned carbon nanotube arrays induced by structure separation. <i>Nano Energy</i> , 2021, 90, 106516.	8.2	5
7	Graphene Aerogels: Structure Control, Thermal Characterization and Thermal Transport. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	1.0	14
8	Covalently linked polydopamine-modified boron nitride nanosheets/polyimide composite fibers with enhanced heat diffusion and mechanical behaviors. <i>Composites Part B: Engineering</i> , 2020, 199, 108281.	5.9	37
9	Nitrogen-Doped Unusually Superwetting, Thermally Insulating, and Elastic Graphene Aerogel for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26200-26212.	4.0	55
10	Distinguishing Optical and Acoustic Phonon Temperatures and Their Energy Coupling Factor under Photon Excitation in nm 2D Materials. <i>Advanced Science</i> , 2020, 7, 2000097.	5.6	34
11	Effect of temperature on Raman intensity of nm-thick WS ₂ : combined effects of resonance Raman, optical properties, and interface optical interference. <i>Nanoscale</i> , 2020, 12, 6064-6078.	2.8	41
12	In situ investigation of annealing effect on thermophysical properties of single carbon nanocoil. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119416.	2.5	15
13	Characterization of thermal conductivity, diffusivity, specific heat, and interface thermal resistance of carbon nanostructures. , 2020, , 57-89.		0
14	High-Performance N-Type Carbon Nanotube Composites: Improved Power Factor by Optimizing the Acridine Scaffold and Tailoring the Side Chains. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29320-29329.	4.0	41
15	Green Production of Regenerated Cellulose/Boron Nitride Nanosheet Textiles for Static and Dynamic Personal Cooling. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40685-40693.	4.0	61
16	Graphene Aerogel Based Bolometer for Ultrasensitive Sensing from Ultraviolet to Far-Infrared. <i>ACS Nano</i> , 2019, 13, 5385-5396.	7.3	42
17	Thermal reffusivity: uncovering phonon behavior, structural defects, and domain size. <i>Frontiers in Energy</i> , 2018, 12, 143-157.	1.2	20
18	Significantly reduced <i>c</i> -axis thermal diffusivity of graphene-based papers. <i>Nanotechnology</i> , 2018, 29, 265702.	1.3	12

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19	Sub-1/4m c-axis structural domain size of graphene paper uncovered by low-momentum phonon scattering. Carbon, 2018, 126, 532-543.	5.4	16
20	Nonmonotonic thickness-dependence of in-plane thermal conductivity of few-layered MoS ₂ : 2.4 to 37.8 nm. Physical Chemistry Chemical Physics, 2018, 20, 25752-25761.	1.3	45
21	19-Fold thermal conductivity increase of carbon nanotube bundles toward high-end thermal design applications. Carbon, 2018, 139, 445-458.	5.4	30
22	Thermal conductivity and annealing effect on structure of lignin-based microscale carbon fibers. Carbon, 2017, 121, 35-47.	5.4	50
23	Energy coupling across low-dimensional contact interfaces at the atomic scale. International Journal of Heat and Mass Transfer, 2017, 110, 827-844.	2.5	28
24	Identifying the Crystalline Orientation of Black Phosphorus by Using Optothermal Raman Spectroscopy. ChemPhysChem, 2017, 18, 2828-2834.	1.0	12
25	Thermal Diffusivity of a Single Carbon Nanocoil: Uncovering the Correlation with Temperature and Domain Size. ACS Nano, 2016, 10, 9710-9719.	7.3	47
26	Switch on the high thermal conductivity of graphene paper. Nanoscale, 2016, 8, 17581-17597.	2.8	49
27	Interface-mediated extremely low thermal conductivity of graphene aerogel. Carbon, 2016, 98, 381-390.	5.4	120
28	The defect level and ideal thermal conductivity of graphene uncovered by residual thermal reffusivity at the 0 K limit. Nanoscale, 2015, 7, 10101-10110.	2.8	50