

Yangsu Xie

List of Publications by Year in descending order

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Version: 2024-02-01

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	Interface-mediated extremely low thermal conductivity of graphene aerogel. <i>Carbon</i> , 2016, 98, 381-390.	5.4	120
2	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
3	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
4	The defect level and ideal thermal conductivity of graphene uncovered by residual thermal reffusivity at the 0 K limit. <i>Nanoscale</i> , 2015, 7, 10101-10110.	2.8	50
5	Thermal conductivity and annealing effect on structure of lignin-based microscale carbon fibers. <i>Carbon</i> , 2017, 121, 35-47.	5.4	50
6	Switch on the high thermal conductivity of graphene paper. <i>Nanoscale</i> , 2016, 8, 17581-17597.	2.8	49
7	Thermal Diffusivity of a Single Carbon Nanocoil: Uncovering the Correlation with Temperature and Domain Size. <i>ACS Nano</i> , 2016, 10, 9710-9719.	7.3	47
8	Nonmonotonic thickness-dependence of in-plane thermal conductivity of few-layered MoS ₂ : 2.4 to 37.8 nm. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25752-25761.	1.3	45
9	Graphene Aerogel Based Bolometer for Ultrasensitive Sensing from Ultraviolet to Far-Infrared. <i>ACS Nano</i> , 2019, 13, 5385-5396.	7.3	42
10	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
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	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
13	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
14	19-Fold thermal conductivity increase of carbon nanotube bundles toward high-end thermal design applications. <i>Carbon</i> , 2018, 139, 445-458.	5.4	30
15	Energy coupling across low-dimensional contact interfaces at the atomic scale. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 827-844.	2.5	28
16	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
17	Thermal reffusivity: uncovering phonon behavior, structural defects, and domain size. <i>Frontiers in Energy</i> , 2018, 12, 143-157.	1.2	20
18	Sub-1/4m c-axis structural domain size of graphene paper uncovered by low-momentum phonon scattering. <i>Carbon</i> , 2018, 126, 532-543.	5.4	16

#	ARTICLE	IF	CITATIONS
19	In situ investigation of annealing effect on thermophysical properties of single carbon nanocoil. International Journal of Heat and Mass Transfer, 2020, 151, 119416.	2.5	15
20	Graphene Aerogels: Structure Control, Thermal Characterization and Thermal Transport. International Journal of Thermophysics, 2020, 41, 1.	1.0	14
21	De novo design of polymers embedded with platinum acetylides towards n-type organic thermoelectrics. Chemical Engineering Journal, 2021, 405, 126692.	6.6	14
22	Identifying the Crystalline Orientation of Black Phosphorus by Using Optothermal Raman Spectroscopy. ChemPhysChem, 2017, 18, 2828-2834.	1.0	12
23	Significantly reduced <i>c</i> -axis thermal diffusivity of graphene-based papers. Nanotechnology, 2018, 29, 265702.	1.3	12
24	Preparation and Bolometric Responses of MoS ₂ Nanoflowers and Multi-Walled Carbon Nanotube Composite Network. Nanomaterials, 2022, 12, 495.	1.9	10
25	Dual-pulse transient heat conduction in vertically aligned carbon nanotube arrays induced by structure separation. Nano Energy, 2021, 90, 106516.	8.2	5
26	Molecular alignment induced high thermal conductivity in amorphous/ low crystalline polyimide fibers. International Journal of Heat and Mass Transfer, 2022, 193, 122959.	2.5	5
27	Uncovering the Structural Defect Effect on Thermal Transport in Carbon Fiber Mat by Thermal Reffusivity Dependence on Temperature. International Journal of Thermophysics, 2021, 42, 1.	1.0	0
28	Characterization of thermal conductivity, diffusivity, specific heat, and interface thermal resistance of carbon nanostructures. , 2020, , 57-89.		0