Xinpeng Zhao

List of Publications by Year
in descending order

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36 papers	4,851 citations	304602 22 h-index	345118 36 g-index
37 all docs	37 docs citations	37 times ranked	4382 citing authors

#	Article	IF	Citations
1	Thermal Conductivity Analysis of High Porosity Structures with Open and Closed Pores. International Journal of Heat and Mass Transfer, 2022, 183, 122089.	2.5	51
2	Lignin: a sustainable photothermal block for smart elastomers. Green Chemistry, 2022, 24, 823-836.	4.6	64
3	Developing Flexible Quinacridoneâ€Derivativesâ€Based Photothermal Evaporaters for Solar Steam and Thermoelectric Power Generation. Chemistry - A European Journal, 2022, 28, .	1.7	17
4	Rapid Pressureless Sintering of Glasses. Small, 2022, 18, e2107951.	5.2	20
5	Sustainable high-strength macrofibres extracted from natural bamboo. Nature Sustainability, 2022, 5, 235-244.	11.5	113
6	Dynamic glazing with switchable solar reflectance for radiative cooling and solar heating. Cell Reports Physical Science, 2022, 3, 100853.	2.8	26
7	Influence of shell materials on the optical performance of VO2 coreâ€“shell nanoparticleâ€“based thermochromic films. Materials Today Nano, 2021, 13, 100102.	2.3	4
8	Melanin-Inspired Design: Preparing Sustainable Photothermal Materials from Lignin for Energy Generation. ACS Applied Materials & Interfaces, 2021, 13, 7600-7607.	4.0	87
9	Critical roles of pores and moisture in sustainable nanocellulose-based super-thermal insulators. Matter, 2021, 4, 769-772.	5.0	5
10	Dynamically adaptive window design with thermo-responsive hydrogel for energy efficiency. Applied Energy, 2021, 287, 116573.	5.1	34
11	Thermal conductance of nanostructured interfaces from Monte Carlo simulations with ab initio-based phonon properties. Journal of Applied Physics, 2021, 129, .	1.1	4
12	Quantitative FÃ¶rster Resonance Energy Transfer: Efficient Light Harvesting for Sequential Photoâ€Thermoâ€Electric Conversion. Small, 2021, 17, e2103172.	5.2	13
13	Tunable anisotropic thermal transport in super-aligned carbon nanotube films. Materials Today Physics, 2021, 20, 100447.	2.9	4
14	A Clear, Strong, and Thermally Insulated Transparent Wood for Energy Efficient Windows. Advanced Functional Materials, 2020, 30, 1907511.	7.8	124
15	An Energyâ€Efficient, Woodâ€Derived Structural Material Enabled by Pore Structure Engineering towards Building Efficiency. Small Methods, 2020, 4, 1900747.	4.6	53
16	Optically-switchable thermally-insulating VO2-aerogel hybrid film for window retrofits. Applied Energy, 2020, 278, 115663.	5.1	30
17	Utilization of size-tunable hollow silica nanospheres for building thermal insulation applications. Journal of Building Engineering, 2020, 31, 101336.	1.6	8
18	Durability-enhanced vanadium dioxide thermochromic film for smart windows. Materials Today Physics, 2020, 13, 100205.	2.9	38

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19	Reduced-scale hot box method for thermal characterization of window insulation materials. Applied Thermal Engineering, 2019, 160, 114026.	3.0	21
20	A radiative cooling structural material. Science, 2019, 364, 760-763.	6.0	856
21	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. Nature Materials, 2019, 18, 608-613.	13.3	343
22	Scalable and Highly Efficient Mesoporous Woodâ€Based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. Advanced Functional Materials, 2018, 28, 1707134.	7.8	366
23	Thermal conductivity model for nanofiber networks. Journal of Applied Physics, 2018, 123, .	1.1	45
24	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. Science Advances, 2018, 4, eaar3724.	4.7	336
25	Highly efficient solar vapour generation via hierarchically nanostructured gels. Nature Nanotechnology, 2018, 13, 489-495.	15.6	1,356
26	Flexible transparent aerogels as window retrofitting films and optical elements with tunable birefringence. Nano Energy, 2018, 48, 266-274.	8.2	63
27	Thermal conductivity model for nanoporous thin films. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 277-281.	1.3	17
28	Lightweight, Mesoporous, and Highly Absorptive All-Nanofiber Aerogel for Efficient Solar Steam Generation. ACS Applied Materials & Interfaces, 2018, 10, 1104-1112.	4.0	327
29	Highâ€Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. Advanced Energy Materials, 2018, 8, 1701616.	10.2	255
30	A theoretical and numerical study on the gas-contributed thermal conductivity in aerogel. International Journal of Heat and Mass Transfer, 2017, 108, 1982-1990.	2.5	44
31	Multi-scale numerical analysis of flow and heat transfer for a parabolic trough collector. International Journal of Heat and Mass Transfer, 2017, 106, 526-538.	2.5	17
32	Investigation of the effect of the gas permeation induced by pressure gradient on transient heat transfer in silica aerogel. International Journal of Heat and Mass Transfer, 2016, 95, 1026-1037.	2.5	29
33	The Calculation of Thermal Conductivities by Three Dimensional Direct Simulation Monte Carlo Method. Journal of Nanoscience and Nanotechnology, 2015, 15, 3299-3304.	0.9	5
34	A multi-level fractal model for the effective thermal conductivity of silica aerogel. Journal of Non-Crystalline Solids, 2015, 430, 43-51.	1.5	41
35	Study on Unit Cell Models and the Effective Thermal Conductivities of Silica Aerogel. Journal of Nanoscience and Nanotechnology, 2015, 15, 3218-3223.	0.9	15
36	The influences of microstructural parameters on the gaseous thermal conductivity in nanoporous material. , 2014, , .		0