

Xinpeng Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Highly efficient solar vapour generation via hierarchically nanostructured gels. <i>Nature Nanotechnology</i> , 2018, 13, 489-495. | 15.6 | 1,356 |
| 2 | A radiative cooling structural material. <i>Science</i> , 2019, 364, 760-763. | 6.0 | 856 |
| 3 | Scalable and Highly Efficient Mesoporous Wood-Based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. <i>Advanced Functional Materials</i> , 2018, 28, 1707134. | 7.8 | 366 |
| 4 | Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. <i>Nature Materials</i> , 2019, 18, 608-613. | 13.3 | 343 |
| 5 | Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. <i>Science Advances</i> , 2018, 4, eaar3724. | 4.7 | 336 |
| 6 | Lightweight, Mesoporous, and Highly Absorptive All-Nanofiber Aerogel for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1104-1112. | 4.0 | 327 |
| 7 | High-Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. <i>Advanced Energy Materials</i> , 2018, 8, 1701616. | 10.2 | 255 |
| 8 | A Clear, Strong, and Thermally Insulated Transparent Wood for Energy Efficient Windows. <i>Advanced Functional Materials</i> , 2020, 30, 1907511. | 7.8 | 124 |
| 9 | Sustainable high-strength macrofibres extracted from natural bamboo. <i>Nature Sustainability</i> , 2022, 5, 235-244. | 11.5 | 113 |
| 10 | Melanin-Inspired Design: Preparing Sustainable Photothermal Materials from Lignin for Energy Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7600-7607. | 4.0 | 87 |
| 11 | Lignin: a sustainable photothermal block for smart elastomers. <i>Green Chemistry</i> , 2022, 24, 823-836. | 4.6 | 64 |
| 12 | Flexible transparent aerogels as window retrofitting films and optical elements with tunable birefringence. <i>Nano Energy</i> , 2018, 48, 266-274. | 8.2 | 63 |
| 13 | An Energy-Efficient, Wood-Derived Structural Material Enabled by Pore Structure Engineering towards Building Efficiency. <i>Small Methods</i> , 2020, 4, 1900747. | 4.6 | 53 |
| 14 | Thermal Conductivity Analysis of High Porosity Structures with Open and Closed Pores. <i>International Journal of Heat and Mass Transfer</i> , 2022, 183, 122089. | 2.5 | 51 |
| 15 | Thermal conductivity model for nanofiber networks. <i>Journal of Applied Physics</i> , 2018, 123, . | 1.1 | 45 |
| 16 | A theoretical and numerical study on the gas-contributed thermal conductivity in aerogel. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 1982-1990. | 2.5 | 44 |
| 17 | A multi-level fractal model for the effective thermal conductivity of silica aerogel. <i>Journal of Non-Crystalline Solids</i> , 2015, 430, 43-51. | 1.5 | 41 |
| 18 | Durability-enhanced vanadium dioxide thermochromic film for smart windows. <i>Materials Today Physics</i> , 2020, 13, 100205. | 2.9 | 38 |

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|----|--|-----|-----------|
| 19 | Dynamically adaptive window design with thermo-responsive hydrogel for energy efficiency. <i>Applied Energy</i> , 2021, 287, 116573. | 5.1 | 34 |
| 20 | Optically-switchable thermally-insulating VO ₂ -aerogel hybrid film for window retrofits. <i>Applied Energy</i> , 2020, 278, 115663. | 5.1 | 30 |
| 21 | Investigation of the effect of the gas permeation induced by pressure gradient on transient heat transfer in silica aerogel. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 1026-1037. | 2.5 | 29 |
| 22 | Dynamic glazing with switchable solar reflectance for radiative cooling and solar heating. <i>Cell Reports Physical Science</i> , 2022, 3, 100853. | 2.8 | 26 |
| 23 | Reduced-scale hot box method for thermal characterization of window insulation materials. <i>Applied Thermal Engineering</i> , 2019, 160, 114026. | 3.0 | 21 |
| 24 | Rapid Pressureless Sintering of Glasses. <i>Small</i> , 2022, 18, e2107951. | 5.2 | 20 |
| 25 | Multi-scale numerical analysis of flow and heat transfer for a parabolic trough collector. <i>International Journal of Heat and Mass Transfer</i> , 2017, 106, 526-538. | 2.5 | 17 |
| 26 | Thermal conductivity model for nanoporous thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 97, 277-281. | 1.3 | 17 |
| 27 | Developing Flexible Quinacridoneâ€Derivativesâ€Based Photothermal Evaporaters for Solar Steam and Thermoelectric Power Generation. <i>Chemistry - A European Journal</i> , 2022, 28, . | 1.7 | 17 |
| 28 | Study on Unit Cell Models and the Effective Thermal Conductivities of Silica Aerogel. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3218-3223. | 0.9 | 15 |
| 29 | Quantitative Förster Resonance Energy Transfer: Efficient Light Harvesting for Sequential Photoâ€Thermoâ€Electric Conversion. <i>Small</i> , 2021, 17, e2103172. | 5.2 | 13 |
| 30 | Utilization of size-tunable hollow silica nanospheres for building thermal insulation applications. <i>Journal of Building Engineering</i> , 2020, 31, 101336. | 1.6 | 8 |
| 31 | The Calculation of Thermal Conductivities by Three Dimensional Direct Simulation Monte Carlo Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3299-3304. | 0.9 | 5 |
| 32 | Critical roles of pores and moisture in sustainable nanocellulose-based super-thermal insulators. <i>Matter</i> , 2021, 4, 769-772. | 5.0 | 5 |
| 33 | Influence of shell materials on the optical performance of VO ₂ coreâ€shell nanoparticleâ€based thermochromic films. <i>Materials Today Nano</i> , 2021, 13, 100102. | 2.3 | 4 |
| 34 | Thermal conductance of nanostructured interfaces from Monte Carlo simulations with <i>ab initio</i> -based phonon properties. <i>Journal of Applied Physics</i> , 2021, 129, . | 1.1 | 4 |
| 35 | Tunable anisotropic thermal transport in super-aligned carbon nanotube films. <i>Materials Today Physics</i> , 2021, 20, 100447. | 2.9 | 4 |
| 36 | The influences of microstructural parameters on the gaseous thermal conductivity in nanoporous material. , 2014, , . | | 0 |