

Xuezhe Zhou

List of Publications by Year in descending order

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28
papers

605
citations

687363

13
h-index

610901

24
g-index

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37
docs citations

37
times ranked

1188
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#	ARTICLE	IF	CITATIONS
1	Three dimensional architecture of carbon wrapped multilayer Na ₃ V ₂ O ₂ (PO ₄) ₂ F nanocubes embedded in graphene for improved sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17563-17568.	10.3	91
2	Laser refrigeration of hydrothermal nanocrystals in physiological media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15024-15029.	7.1	82
3	Laser Refrigeration of Ytterbium-Doped Sodium-Yttrium-Fluoride Nanowires. <i>Advanced Materials</i> , 2016, 28, 8658-8662.	21.0	48
4	Rapid synthesis of transition metal dichalcogenide-carbon aerogel composites for supercapacitor electrodes. <i>Microsystems and Nanoengineering</i> , 2017, 3, 17032.	7.0	48
5	High-pressure, high-temperature molecular doping of nanodiamond. <i>Science Advances</i> , 2019, 5, eaau6073.	10.3	40
6	Nanoscale materials for hyperthermal theranostics. <i>Nanoscale</i> , 2015, 7, 7115-7126.	5.6	39
7	Thermodynamics and growth kinetical consideration of metal-nitride formation by nitrogen implantation. <i>Physica Status Solidi A</i> , 1989, 113, 11-22.	1.7	29
8	A Mechanistic Understanding of Nonclassical Crystal Growth in Hydrothermally Synthesized Sodium Yttrium Fluoride Nanowires. <i>Chemistry of Materials</i> , 2020, 32, 2753-2763.	6.7	27
9	Chitosan-Gated Magnetic-Responsive Nanocarrier for Dual-Modal Optical Imaging, Switchable Drug Release, and Synergistic Therapy. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601080.	7.6	26
10	Spectroscopic signatures of many-body interactions and delocalized states in self-assembled lateral quantum dot molecules. <i>Physical Review B</i> , 2011, 84, .	3.2	18
11	Interface-Dependent Radiative Lifetimes of Yb ³⁺ , Er ³⁺ Co-doped Single NaYF ₄ Upconversion Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22817-22823.	8.0	18
12	Optomechanical Thermometry of Nanoribbon Cantilevers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7525-7532.	3.1	17
13	Patterning of graphene oxide with optoelectronic tweezers. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	15
14	Copper- and chloride-mediated synthesis and optoelectronic trapping of ultra-high aspect ratio palladium nanowires. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5644-5651.	10.3	13
15	Photothermal Heating and Cooling of Nanostructures. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2575-2586.	3.3	13
16	Photothermal effects during nanodiamond synthesis from a carbon aerogel in a laser-heated diamond anvil cell. <i>Diamond and Related Materials</i> , 2018, 87, 134-142.	3.9	12
17	Hydrothermal Synthesis and Solid-State Laser Refrigeration of Ytterbium-Doped Potassium-Lutetium-Fluoride (KLF) Microcrystals. <i>Chemistry of Materials</i> , 2021, 33, 4417-4424.	6.7	10
18	Direct Imaging of The Lattice In Poly(Phthalocyaninato-Germoxane) Single Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 118, 357-360.	0.8	8

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19	Formation of nanoporous copper through dealloying of dual-phase Cu–Mn–Al alloy: The evolution of microstructure and composition. <i>Journal of Materials Research</i> , 2012, 27, 2771-2778.	2.6	8
20	Recovery of hexagonal Si-IV nanowires from extreme GPa pressure. <i>Journal of Applied Physics</i> , 2016, 119, 185902.	2.5	7
21	Photothermal Superheating of Water with Ion-Implanted Silicon Nanowires. <i>Advanced Optical Materials</i> , 2015, 3, 1362-1367.	7.3	6
22	Hot Brownian thermometry and cavity-enhanced harmonic generation with nonlinear optical nanowires. <i>Chemical Physics Letters</i> , 2015, 639, 310-314.	2.6	6
23	Crystalline loading of lipophilic Coenzyme Q10 pharmaceuticals within conjugated carbon aerogel derivatives. <i>Carbon</i> , 2020, 164, 451-458.	10.3	6
24	Corrosion Behaviour of Al–4Mg–1Cu (wt%) Microalloyed with Si and Ag. <i>Advanced Engineering Materials</i> , 2015, 17, 1670-1674.	3.5	4
25	Amorphous NbO films prepared by reactive evaporation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 3349-3351.	2.1	3
26	Reply to Comment on “A Mechanistic Understanding of Nonclassical Crystal Growth in Hydrothermally Synthesized Sodium Yttrium Fluoride Nanowires”. <i>Chemistry of Materials</i> , 2021, 33, 3862-3864.	6.7	1
27	Observation of Void Formation in Cubic NaYF ₄ Nanocrystals Using In Situ Heating Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1496-1497.	0.4	0
28	Optomechanical thermometry of cadmium sulfide nanoribbon cantilevers (Conference Presentation). , 2018, , .		0