

Zhaolong Wang

List of Publications by Year in descending order

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29
papers

936
citations

471509

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501196

28
g-index

29
all docs

29
docs citations

29
times ranked

697
citing authors

#	ARTICLE	IF	CITATIONS
1	Projection micro stereolithography based 3D printing and its applications. International Journal of Extreme Manufacturing, 2020, 2, 022004.	12.7	213
2	A perfect absorber design using a natural hyperbolic material for harvesting solar energy. Solar Energy, 2018, 159, 329-336.	6.1	71
3	3D-Printed Bioinspired Cassie-Baxter Wettability for Controllable Microdroplet Manipulation. ACS Applied Materials & Interfaces, 2021, 13, 1979-1987.	8.0	61
4	Optical absorption of carbon-gold core-shell nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 205, 291-298.	2.3	52
5	Color-Changeable Four-Dimensional Printing Enabled with Ultraviolet-Curable and Thermochromic Shape Memory Polymers. ACS Applied Materials & Interfaces, 2021, 13, 18120-18127.	8.0	39
6	Topology Optimization-Based Inverse Design of Plasmonic Nanodimer with Maximum Near-Field Enhancement. Advanced Functional Materials, 2020, 30, 2000642.	14.9	38
7	A numerical study on effects of surrounding medium, material, and geometry of nanoparticles on solar absorption efficiencies. International Journal of Heat and Mass Transfer, 2018, 116, 825-832.	4.8	37
8	3D printed super-anti-freezing self-adhesive human-machine interface. Materials Today Physics, 2021, 19, 100404.	6.0	37
9	Perfect spectrally selective solar absorber with dielectric filled fishnet tungsten grating for solar energy harvesting. Solar Energy Materials and Solar Cells, 2020, 215, 110664.	6.2	36
10	Double Fano resonances in hybrid disk/rod artificial plasmonic molecules based on dipole-quadrupole coupling. Nanoscale, 2020, 12, 9776-9785.	5.6	34
11	3D Printed Ulstretchable, Hyper-Antifreezing Conductive Hydrogel for Sensitive Motion and Electrophysiological Signal Monitoring. Research, 2020, 2020, 1426078.	5.7	34
12	3D printed ultra-fast photothermal responsive shape memory hydrogel for microrobots. International Journal of Extreme Manufacturing, 2022, 4, 015302.	12.7	34
13	Enhancements of absorption and photothermal conversion of solar energy enabled by surface plasmon resonances in nanoparticles and metamaterials. International Journal of Heat and Mass Transfer, 2019, 140, 453-482.	4.8	32
14	3D printed hydrogel for soft thermo-responsive smart window. International Journal of Extreme Manufacturing, 2022, 4, 025302.	12.7	30
15	Two-dimensional ultrathin networked CoP derived from Co(OH) ₂ as efficient electrocatalyst for hydrogen evolution. Advanced Composites and Hybrid Materials, 2022, 5, 2421-2428.	21.1	29
16	3D-Printed Bionic Solar Evaporator. Solar Rrl, 2022, 6, .	5.8	28
17	An experimental study of a nearly perfect absorber made from a natural hyperbolic material for harvesting solar energy. Journal of Applied Physics, 2020, 127, .	2.5	20
18	Underwater Unidirectional Cellular Fluidics. ACS Applied Materials & Interfaces, 2022, 14, 9891-9898.	8.0	14

#	ARTICLE	IF	CITATIONS
19	Nearly perfect absorption of solar energy by coherent of electric and magnetic polaritons. Solar Energy Materials and Solar Cells, 2022, 240, 111688.	6.2	14
20	Three-Dimensional Open Water Microchannel Transpiration Mimetics. ACS Applied Materials & Interfaces, 2022, 14, 30435-30442.	8.0	13
21	Natural anisotropic nanoparticles with a broad absorption spectrum for solar energy harvesting. International Communications in Heat and Mass Transfer, 2018, 96, 109-113.	5.6	12
22	Ultrahigh broadband absorption in metamaterials with electric and magnetic polaritons enabled by multiple materials. International Journal of Heat and Mass Transfer, 2022, 185, 122355.	4.8	11
23	Numerical studies on absorption characteristics of plasmonic metamaterials with an array of nanoshells. International Communications in Heat and Mass Transfer, 2015, 68, 172-177.	5.6	10
24	Plasma resonance effects on bubble nucleation in flow boiling of a nanofluid irradiated by a pulsed laser beam. International Communications in Heat and Mass Transfer, 2016, 72, 90-94.	5.6	10
25	Adhesion-Engineering-Enabled "Sketch and Peel" Lithography for Aluminum Plasmonic Nanogaps. Advanced Optical Materials, 2020, 8, 1901202.	7.3	7
26	Optimization of the perfect absorber for solar energy harvesting based on the cone-like nanostructures. AIMS Energy, 2021, 9, 714-726.	1.9	7
27	3D Printable Silicone Rubber for Long-Lasting and Weather-Resistant Wearable Devices. ACS Applied Polymer Materials, 2022, 4, 2384-2392.	4.4	7
28	3D-Printed Complex Microstructures with a Self-Sacrificial Structure Enabled by Grayscale Polymerization and Ultrasonic Treatment. ACS Omega, 2021, 6, 18281-18288.	3.5	5
29	Poly (HBA-co-AMPS) based Hydrogel by P1/4SL 3D Printing for Robotic Sensor. , 2021, , .		1