Zhu Liu

List of Publications by Year
in descending order

27 papers	578 citations	567281 15 h-index	642732 23 g-index
27 all docs	27 docs citations	27 times ranked	760 citing authors

#	Article	IF	Citations
1	In situ laser synthesis of Pt nanoparticles embedded in graphene films for wearable strain sensors with ultra-high sensitivity and stability. Carbon, 2022, 190, 245-254.	10.3	43
2	Laser-Assisted Ultrafast Fabrication of Crystalline Ta-Doped TiO₂ for High-Humidity-Processed Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 15141-15153.	8.0	11
3	3D Binderâ€free Integrated Electrodes Prepared by Phase Separation and Laser Induction (PSLI) Method for Oxygen Electrocatalysis and Zincâ€“Air Battery. Advanced Energy Materials, 2022, 12, .	19.5	12
4	Impact of halide additives on green antisolvent and high-humidity processed perovskite solar cells. Applied Surface Science, 2021, 536, 147949.	6.1	11
5	Ultrafast and Scalable Laserâ€Induced Crystallization of Titanium Dioxide Films for Planar Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000562.	5.8	7
6	Laser solid-phase synthesis of single-atom catalysts. Light: Science and Applications, 2021, 10, 168.	16.6	27
7	Stable Wearable Strain Sensors on Textiles by Direct Laser Writing of Graphene. ACS Applied Nano Materials, 2020, 3, 283-293.	5.0	73
8	A bilayer TiO₂/Al₂O₃ as the mesoporous scaffold for enhanced air stability of ambient-processed perovskite solar cells. Materials Advances, 2020, 1, 2057-2067.	5.4	18
9	Laser Assisted Solution Synthesis of High Performance Graphene Supported Electrocatalysts. Advanced Functional Materials, 2020, 30, 2001756.	14.9	23
10	Laser induced molybdenum sulphide loading on doped graphene cathode for highly stable lithium sulphur battery. Communications Chemistry, 2019, 2, .	4.5	18
11	Threshold reduction and yield improvement of semiconductor nanowire lasers via processing-related end-facet optimization. Nanoscale Advances, 2019, 1, 4393-4397.	4.6	9
12	How did the structural ZnO nanowire as antibacterial coatings control the switchable wettability. Applied Surface Science, 2019, 469, 593-606.	6.1	27
13	Long term superhydrophobic and hybrid superhydrophobic/superhydrophilic surfaces produced by laser surface micro/nano surface structuring. Applied Surface Science, 2019, 466, 808-821.	6.1	38
14	A one-step laser process for rapid manufacture of mesoscopic perovskite solar cells prepared under high relative humidity. Sustainable Energy and Fuels, 2018, 2, 1216-1224.	4.9	13
15	Rapid fabrication of mesoporous TiO2 thin films by pulsed fibre laser for dye sensitized solar cells. Applied Surface Science, 2018, 428, 1089-1097.	6.1	12
16	Production of stable superhydrophilic surfaces on 316L steel by simultaneous laser texturing and SiO2 deposition. Applied Surface Science, 2018, 427, 1135-1145.	6.1	29
17	Laser Direct Writing of Heteroatom (N and S)â€Doped Graphene from a Polybenzimidazole Ink Donor on Polyethylene Terephthalate Polymer and Glass Substrates. Small, 2018, 14, e1803143.	10.0	26
18	Long-term wettability of titanium surfaces by combined femtosecond laser micro/nano structuring and chemical treatments. Applied Surface Science, 2018, 459, 257-262.	6.1	45

#	Article	IF	Citations
19	One-Step Fiber Laser Fabrication of Mesoporous and Compact TiO₂ Layers for Enhanced Performance of Dye-Sensitized Solar Cells. ACS Sustainable Chemistry and Engineering, 2018, 6, 12299-12308.	6.7	9
20	Characteristics of hierarchical micro/nano surface structure formation generated by picosecond laser processing in water and air. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	23
21	Investigation of plume dynamics during picosecond laser ablation of H13 steel using high-speed digital holography. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	6
22	Comparison of characteristics of selected metallic and metal oxide nanoparticles produced by picosecond laser ablation at 532 and 1064Ânm wavelengths. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	16
23	Sequential laser and ultrasonic wave generation of TiO2@Ag core-shell nanoparticles and their anti-bacterial properties. Lasers in Medical Science, 2016, 31, 263-273.	2.1	9
24	Picosecond laser generation of Agâ€“TiO2 nanoparticles with reduced energy gap by ablation in ice water and their antibacterial activities. Applied Physics A: Materials Science and Processing, 2015, 119, 1387-1396.	2.3	22
25	A comparison of the characteristics of nanosecond, picosecond and femtosecond lasers generated Ag, TiO2 and Au nanoparticles in deionised water. Applied Physics A: Materials Science and Processing, 2015, 120, 1247-1260.	2.3	34
26	Preparation and antibacterial properties of laser-generated silverâ€“anatase nanocomposite film againstEscherichia coliandStaphylococcus aureus. Nanotechnology, 2012, 23, 495708.	2.6	16
27	Environmentally Friendly Single-Step Laser Synthesis of Three-Dimensional Câ€“Siâ€“SiC Micro/Nanoporous Composite Lithium-ion Battery Electrodes and Electrochemical Performance. ACS Applied Energy Materials, 0, , .	5.1	1