Jia Liang

List of Publications by Year
in descending order

49 papers	4,602 citations	159585 30 h-index	189892 50 g-index
51 all docs	51 docs citations	51 times ranked	7431 citing authors

#	Article	IF	Citations
1	All-Inorganic Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 15829-15832.	13.7	899
2	CsPb_{0.9}Sn_{0.1}IBr₂ Based All-Inorganic Perovskite Solar Cells with Exceptional Efficiency and Stability. Journal of the American Chemical Society, 2017, 139, 14009-14012.	13.7	447
3	Metallic and polar Co 9 S 8 inlaid carbon hollow nanopolyhedra as efficient polysulfide mediator for lithiumâˆ'sulfur batteries. Nano Energy, 2017, 38, 239-248.	16.0	314
4	Self-assembled ultrathin NiCo2S4 nanoflakes grown on Ni foam as high-performance flexible electrodes for hydrogen evolution reaction in alkaline solution. Nano Energy, 2016, 24, 139-147.	16.0	282
5	Enhancing Optical, Electronic, Crystalline, and Morphological Properties of Cesium Lead Halide by Mn Substitution forÂHighâ€Stability Allâ€Inorganic Perovskite Solar Cells withÂCarbon Electrodes. Advanced Energy Materials, 2018, 8, 1800504.	19.5	272
6	Highly Efficient Retention of Polysulfides in â€œSea Urchinâ€•Like Carbon Nanotube/Nanopolyhedra Superstructures as Cathode Material for Ultralong-Life Lithiumâ€"Sulfur Batteries. Nano Letters, 2017, 17, 437-444.	9.1	223
7	Allâ€Inorganic Halide Perovskites for Optoelectronics: Progress and Prospects. Solar Rrl, 2017, 1, 1700086.	5.8	167
8	In Situ Thermal Synthesis of Inlaid Ultrathin MoS₂/Graphene Nanosheets as Electrocatalysts for the Hydrogen Evolution Reaction. Chemistry of Materials, 2016, 28, 5733-5742.	6.7	166
9	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. Nanoscale, 2017, 9, 1237-1243.	5.6	154
10	Defectâ€Engineeringâ€Enabled Highâ€Efficiency Allâ€Inorganic Perovskite Solar Cells. Advanced Materials, 2019, 31, e1903448.	21.0	143
11	MoS₂â€Based Allâ€Purpose Fibrous Electrode and Selfâ€Powering Energy Fiber for Efficient Energy Harvesting and Storage. Advanced Energy Materials, 2017, 7, 1601208.	19.5	139
12	Versatile Electronic Skins for Motion Detection of Joints Enabled by Aligned Fewâ€Walled Carbon Nanotubes in Flexible Polymer Composites. Advanced Functional Materials, 2017, 27, 1606604.	14.9	119
13	Metal diselenide nanoparticles as highly active and stable electrocatalysts for the hydrogen evolution reaction. Nanoscale, 2015, 7, 14813-14816.	5.6	103
14	An all-inorganic perovskite solar capacitor for efficient and stable spontaneous photocharging. Nano Energy, 2018, 52, 239-245.	16.0	100
15	Integrated perovskite solar capacitors with high energy conversion efficiency and fast photo-charging rate. Journal of Materials Chemistry A, 2018, 6, 2047-2052.	10.3	85
16	Solution synthesis and phase control of inorganic perovskites for high-performance optoelectronic devices. Nanoscale, 2017, 9, 11841-11845.	5.6	75
17	Hierarchical porous nitrogen-rich carbon nanospheres with high and durable capabilities for lithium and sodium storage. Nanoscale, 2016, 8, 17911-17918.	5.6	57
18	Leadâ€Free Double Perovskite Cs₂SnX₆: Facile Solution Synthesis and Excellent Stability. Small, 2019, 15, e1901650.	10.0	56

#	Article	IF	Citations
19	Recycling PM2.5 carbon nanoparticles generated by diesel vehicles for supercapacitors and oxygen reduction reaction. Nano Energy, 2017, 33, 229-237.	16.0	55
20	High efficiency flexible fiber-type dye-sensitized solar cells with multi-working electrodes. Nano Energy, 2015, 12, 501-509.	16.0	54
21	Hierarchical Ternary Carbide Nanoparticle/Carbon Nanotube-Inserted N-Doped Carbon Concave-Polyhedrons for Efficient Lithium and Sodium Storage. ACS Applied Materials & Interfaces, 2016, 8, 26834-26841.	8.0	52
22	One-step fabrication of large-area ultrathin MoS₂nanofilms with high catalytic activity for photovoltaic devices. Nanoscale, 2016, 8, 16017-16025.	5.6	51
23	Controlled growth and photoconductive properties of hexagonal SnS2 nanoflakes with mesa-shaped atomic steps. Nano Research, 2017, 10, 1434-1447.	10.4	51
24	Highly efficient overall water splitting driven by all-inorganic perovskite solar cells and promoted by bifunctional bimetallic phosphide nanowire arrays. Journal of Materials Chemistry A, 2018, 6, 20076-20082.	10.3	51
25	High-Performance Liâ€"Se Batteries Enabled by Selenium Storage in Bottom-Up Synthesized Nitrogen-Doped Carbon Scaffolds. ACS Applied Materials & Interfaces, 2017, 9, 25232-25238.	8.0	50
26	Interface Engineering of Anchored Ultrathin TiO₂/MoS₂ Heterolayers for Highly-Efficient Electrochemical Hydrogen Production. ACS Applied Materials & Interfaces, 2018, 10, 6084-6089.	8.0	47
27	TiO₂ Nanotip Arrays: Anodic Fabrication and Field-Emission Properties. ACS Applied Materials & Interfaces, 2012, 4, 6053-6061.	8.0	44
28	A Low-Cost and High-Efficiency Integrated Device toward Solar-Driven Water Splitting. ACS Nano, 2020, 14, 5426-5434.	14.6	36
29	Pitaya-like microspheres derived from Prussian blue analogues as ultralong-life anodes for lithium storage. Journal of Materials Chemistry A, 2016, 4, 15041-15048.	10.3	35
30	Highly ordered hierarchical TiO₂nanotube arrays for flexible fiber-type dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 19841-19847.	10.3	31
31	Flexible fiber-type dye-sensitized solar cells based on highly ordered TiO2 nanotube arrays. Electrochemistry Communications, 2013, 37, 80-83.	4.7	28
32	Strong and flaw-insensitive two-dimensional covalent organic frameworks. Matter, 2021, 4, 1017-1028.	10.0	23
33	TiO2 hierarchical nanostructures: Hydrothermal fabrication and application in dye-sensitized solar cells. AIP Advances, 2015, 5, .	1.3	22
34	Perovskiteâ€Đerivative Valleytronics. Advanced Materials, 2020, 32, e2004111.	21.0	19
35	Hydrothermally formed functional niobium oxide doped tungsten nanorods. Nanotechnology, 2013, 24, 495501.	2.6	15
36	Transparent, 3-dimensional light-collected, and flexible fiber-type dye-sensitized solar cells based on highly ordered hierarchical anatase TiO2 nanorod arrays. Journal of Power Sources, 2014, 272, 719-729.	7.8	14

#	Article	IF	Citations
37	Post-treatment on dye-sensitized solar cells with TiCl4 and Nb2O5. RSC Advances, 2014, 4, 6746.	3.6	13
38	Recent progress on all-inorganic metal halide perovskite solar cells. Materials Today Nano, 2021, 16, 100143.	4.6	13
39	Towards methyl orange degradation by direct sunlight using coupled TiO2 nanoparticles and carbonized cotton T-shirt. Applied Materials Today, 2016, 3, 57-62.	4.3	12
40	Room-temperature fabrication of dual-functional hierarchical TiO2 spheres for dye-sensitized solar cells. RSC Advances, 2014, 4, 12649.	3.6	11
41	Fabrication of ZnO nanostructures sensitized with CdS quantum dots for photovoltaic application using a convenient solution method. Materials Research Bulletin, 2015, 61, 492-498.	5.2	11
42	Allâ€•Inorganic Halide Perovskites for Optoelectronics: Progress and Prospects (Solar RRL 10â^•2017). Solar Rrl, 2017, 1, 1770138.	5.8	11
43	Multiworking Electrode Flexible Fiber-Type Quantum Dot-Sensitized Solar Cells. IEEE Journal of Photovoltaics, 2016, 6, 952-959.	2.5	8
44	Heterostructures of MoS2 nanofilms on TiO2 nanorods used as field emitters. Vacuum, 2016, 123, 17-22.	3.5	8
45	A Molecularâ€•Level Interface Design Enabled Highâ€•Strength and Highâ€•Toughness Carbon Nanotube Buckypaper. Macromolecular Materials and Engineering, 2021, 306, 2100244.	3.6	5
46	Hydrothermal Fabrication and Ferroelectric Behavior of Lithium-Doped Zinc Oxide Nanoflakes. Science of Advanced Materials, 2013, 5, 1139-1149.	0.7	5
47	Leadâ€•Free Perovskites: Leadâ€•Free Double Perovskite Cs₂SnX₆: Facile Solution Synthesis and Excellent Stability (Small 39/2019). Small, 2019, 15, 1970211.	10.0	2
48	Completely Different Performances of the Dye-Sensitized Solar Cells Based on Potassium-Tungsten-Oxide and -Bronze Nanobranches. Science of Advanced Materials, 2014, 6, 141-150.	0.7	1
49	Ultrathin ZnO membranes a few atomic layers in thickness. Science China Technological Sciences, 2014, 57, 315-321.	4.0	0