Li Ji

List of Publications by Year in descending order

52 papers	1,961 citations	304743 22 h-index	254184 43 g-index
53 all docs	53 docs citations	53 times ranked	2984 citing authors

#	Article	IF	Citations
1	A silicon-based photocathode for water reduction with an epitaxial SrTiO3 protection layer and a nanostructured catalyst. Nature Nanotechnology, 2015, 10, 84-90.	31.5	353
2	A review on morphology engineering for highly efficient and stable hybrid perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 12842-12875.	10.3	168
3	High-Performance Photodetectors Based on Solution-Processed Epitaxial Grown Hybrid Halide Perovskites. Nano Letters, 2018, 18, 994-1000.	9.1	105
4	Integrated In-Sensor Computing Optoelectronic Device for Environment-Adaptable Artificial Retina Perception Application. Nano Letters, 2022, 22, 81-89.	9.1	104
5	Integrated One Diodeâ€“One Resistor Architecture in Nanopillar SiO_x Resistive Switching Memory by Nanosphere Lithography. Nano Letters, 2014, 14, 813-818.	9.1	97
6	Molten salt synthesis of porous carbon and its application in supercapacitors: A review. Journal of Energy Chemistry, 2021, 61, 622-640.	12.9	94
7	Electrodeposition of crystalline silicon films from silicon dioxide for low-cost photovoltaic applications. Nature Communications, 2019, 10, 5772.	12.8	70
8	Toward Costâ€Effective Manufacturing of Silicon Solar Cells: Electrodeposition of Highâ€Quality Si Films in a CaCl₂â€based Molten Salt. Angewandte Chemie - International Edition, 2017, 56, 15078-15082.	13.8	66
9	Localized dielectric breakdown and antireflection coating in metalâ€“oxideâ€“semiconductor photoelectrodes. Nature Materials, 2017, 16, 127-131.	27.5	60
10	In Situ Formation of Bismuthâ€Based Perovskite Heterostructures for Highâ€Performance Cocatalystâ€Free Photocatalytic Hydrogen Evolution. Advanced Functional Materials, 2020, 30, 2006919.	14.9	58
11	Recent progress in surface modification and interfacial engineering for high-performance perovskite light-emitting diodes. Nano Energy, 2020, 73, 104752.	16.0	58
12	Electrochemical Formation of a pâ€“n Junction on Thin Film Silicon Deposited in Molten Salt. Journal of the American Chemical Society, 2017, 139, 16060-16063.	13.7	56
13	A Liquid Junction Photoelectrochemical Solar Cell Based on p-Type MeNH₃PbI₃ Perovskite with 1.05 V Open-Circuit Photovoltage. Journal of the American Chemical Society, 2015, 137, 14758-14764.	13.7	52
14	Optimization of PbI₂/MAPbI₃ Perovskite Composites by Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2016, 120, 19890-19895.	3.1	50
15	Designed synthesis of SiC nanowire-derived carbon with dual-scale nanostructures for supercapacitor applications. Journal of Materials Chemistry A, 2018, 6, 12724-12732.	10.3	49
16	Optimization of Lead-free Organicâ€“inorganic Tin(II) Halide Perovskite Semiconductors by Scanning Electrochemical Microscopy. Electrochimica Acta, 2016, 220, 205-210.	5.2	47
17	Chemical-sensitive graphene modulator with a memory effect for internet-of-things applications. Microsystems and Nanoengineering, 2016, 2, 16018.	7.0	36
18	Facile electrosynthesis of silicon carbide nanowires from silica/carbon precursors in molten salt. Scientific Reports, 2017, 7, 9978.	3.3	32

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19	Ultralow Power Wearable Organic Ferroelectric Device for Optoelectronic Neuromorphic Computing. Nano Letters, 2022, 22, 6435-6443.	9.1	32
20	Oxygen-induced bi-modal failure phenomenon in SiOx-based resistive switching memory. Applied Physics Letters, 2013, 103, 033521.	3.3	30
21	Investigation of edge- and bulk-related resistive switching behaviors and backward-scan effects in SiO_x-based resistive switching memory. Applied Physics Letters, 2013, 103, 193508.	3.3	26
22	Electrochemical Monitoring of TiO₂ Atomic Layer Deposition by Chronoamperometry and Scanning Electrochemical Microscopy. Chemistry of Materials, 2013, 25, 4165-4172.	6.7	24
23	Electrochemical Production of Si without Generation of CO₂ Based on the Use of a Dimensionally Stable Anode in Molten CaCl₂. Angewandte Chemie - International Edition, 2019, 58, 16223-16228.	13.8	23
24	Continuous electrodeposition of silicon and germanium microâ,nanowires from their oxides precursors in molten salt. Journal of Energy Chemistry, 2020, 44, 147-153.	12.9	23
25	Scalable, highly stable Si-based metal-insulator-semiconductor photoanodes for water oxidation fabricated using thin-film reactions and electrodeposition. Nature Communications, 2021, 12, 3982.	12.8	23
26	Ultra-stable 2D layered methylammonium cadmium trihalide perovskite photoelectrodes. Journal of Materials Chemistry C, 2018, 6, 11552-11560.	5.5	20
27	An integrated strategy towards the facile synthesis of core-shell SiC-derived carbon@N-doped carbon for high-performance supercapacitors. Journal of Energy Chemistry, 2021, 56, 512-521.	12.9	20
28	Quantum state engineering with ultra-short-period (AlN)m/(GaN)nsuperlattices for narrowband deep-ultraviolet detection. Nanoscale, 2014, 6, 14733-14739.	5.6	16
29	Subwavelength nanostructures integrated with polymerâ€packaged iiiâ€“v solar cells for omnidirectional, broadâ€spectrum improvement of photovoltaic performance. Progress in Photovoltaics: Research and Applications, 2015, 23, 1398-1405.	8.1	16
30	Recent progress on post-synthetic treatments of photoelectrodes for photoelectrochemical water splitting. Journal of Materials Chemistry A, 2021, 9, 26628-26649.	10.3	14
31	Organic Optoelectronic Synaptic Devices for Energy-Efficient Neuromorphic Computing. IEEE Electron Device Letters, 2022, 43, 1089-1092.	3.9	14
32	Influence of the Substrate to the LSP Coupling Wavelength and Strength. Nanoscale Research Letters, 2018, 13, 280.	5.7	13
33	Toward Costâ€Effective Manufacturing of Silicon Solar Cells: Electrodeposition of Highâ€Quality Si Films in a CaCl 2 â€based Molten Salt. Angewandte Chemie, 2017, 129, 15274-15278.	2.0	12
34	Growth Mechanisms and Morphology Engineering of Atomic Layer-Deposited WS₂. ACS Applied Materials & Interfaces, 2021, 13, 43115-43122.	8.0	12
35	Molten Salt Electrosynthesis of Cr₂AlC-Derived Porous Carbon for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 12938-12947.	6.7	11
36	Large-area self-ordered aluminium sub-micrometre dot arrays prepared by electropolishing on polycrystalline aluminium at constant current. Corrosion Science, 2011, 53, 2914-2917.	6.6	10

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37	Wafer-Scale Synthesis of WS ₂ Films with In Situ Controllable p-Type Doping by Atomic Layer Deposition. Research, 2021, 2021, 9862483.	5.7	10
38	Crystalline SrZrO3 deposition on Ge (001) by atomic layer deposition for high-k dielectric applications. Journal of Applied Physics, 2018, 124, .	2.5	9
39	Porous Alumina Films with Width-Controllable Alumina Stripes. Nanoscale Research Letters, 2010, 5, 1977-1981.	5.7	8
40	Integration of subwavelength optical nanostructures for improved antireflection performance of mechanically flexible GaAs solar cells fabricated by epitaxial lift-off. Solar Energy Materials and Solar Cells, 2015, 143, 567-572.	6.2	7
41	Peak splitting and locking behavior arising from Fano interference between localized surface plasmons and cavity modes. Physical Review B, 2019, 99, .	3.2	6
42	Electrosynthesis of Ti3AlC2-Derived Porous Carbon in Molten Salt. Jom, 2020, 72, 3887-3894.	1.9	5
43	Large-Scale Multilayer MoS₂ Nanosheets Grown by Atomic Layer Deposition for Sensitive Photodetectors. ACS Applied Nano Materials, 2022, 5, 10431-10440.	5.0	5
44	Minimized open-circuit voltage reduction in GaAs/InGaAs quantum well solar cells with bandgap-engineered graded quantum well depths. Applied Physics Letters, 2014, 105, 123906.	3.3	4
45	Asymmetric light reflectance by Fano resonance between Fresnel reflection and localized surface plasmons. Applied Physics Express, 2018, 11, 092001.	2.4	4
46	Resistive switching of SiOX with one diode-one resistor nanopillar architecture fabricated via nanosphere lithography. , 2014, , .		3
47	The voltage-triggered SET mechanism and self-compliance characteristics in intrinsic unipolar SiO<inf>x</inf>-based resistive switching memory. , 2014, , .		3
48	Electrochemical Production of Si without Generation of CO₂ Based on the Use of a Dimensionally Stable Anode in Molten CaCl₂. Angewandte Chemie, 2019, 131, 16369-16374.	2.0	3
49	Integrated optical nanostructures for wide-angle antireflection and light trapping in III/V solar cells. , 2014, , .		0
50	Photoelectrochemical characterization of p-type CH<inf>3</inf>NH<inf>3</inf>PM<inf>3</inf> perovskite. , 2016, , .		0
51	Production of low-cost silicon films via molten salt electrodeposition. , 2018, , .		0
52	Two-dimensional materials as photoelectrodes in water reduction devices for energy applications. , 2020, , 165-179.		0