Liang Li

List of Publications by Year
in descending order

188	17,336	13827 67	15218 126
papers	citations	h-index	g-index

189	189	189	18012
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ZnS nanostructures: From synthesis to applications. Progress in Materials Science, 2011, 56, 175-287.	16.0	1,134
2	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. Nature Energy, 2019, 4, 408-415.	19.8	831
3	A Eu ³⁺ -Eu ²⁺ ion redox shuttle imparts operational durability to Pb-I perovskite solar cells. Science, 2019, 363, 265-270.	6.0	793
4	Selfâ€Supported Nanotube Arrays of Sulfurâ€Doped TiO₂ Enabling Ultrastable and Robust Sodium Storage. Advanced Materials, 2016, 28, 2259-2265.	11.1	457
5	One-dimensional inorganic nanostructures: synthesis, field-emission and photodetection. Chemical Society Reviews, 2011, 40, 2986.	18.7	352
6	Singleâ€Crystalline CdS Nanobelts for Excellent Fieldâ€Emitters and Ultrahigh Quantumâ€Efficiency Photodetectors. Advanced Materials, 2010, 22, 3161-3165.	11.1	342
7	Hybrid Organicâ€“Inorganic Perovskite Photodetectors. Small, 2017, 13, 1702107.	5.2	334
8	Exploration of Crystallization Kinetics in Quasi Two-Dimensional Perovskite and High Performance Solar Cells. Journal of the American Chemical Society, 2018, 140, 459-465.	6.6	327
9	Chemical Reduction of Intrinsic Defects in Thicker Heterojunction Planar Perovskite Solar Cells. Advanced Materials, 2017, 29, 1606774.	11.1	318
10	One-dimensional CdS nanostructures: synthesis, properties, and applications. Nanoscale, 2010, 2, 168.	2.8	317
11	Recent Developments in Oneâ€Dimensional Inorganic Nanostructures for Photodetectors. Advanced Functional Materials, 2010, 20, 4233-4248.	7.8	314
12	2D ZnIn₂S₄ Nanosheet/1D TiO₂ Nanorod Heterostructure Arrays for Improved Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 17200-17207.	4.0	302
13	The Additive Coordination Effect on Hybrids Perovskite Crystallization and Highâ€Performance Solar Cell. Advanced Materials, 2016, 28, 9862-9868.	11.1	270
14	Ultrahighâ€Performance Solarâ€Blind Photodetectors Based on Individual Singleâ€crystalline In₂Ge₂O₇ Nanobelts. Advanced Materials, 2010, 22, 5145-5149.	11.1	249
15	Emerging inâ€plane anisotropic twoâ€dimensional materials. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 54-73.	8.5	247
16	Hydrogenation Driven Conductive Na₂Ti₃O₇ Nanoarrays as Robust Binder-Free Anodes for Sodium-Ion Batteries. Nano Letters, 2016, 16, 4544-4551.	4.5	235
17	Selfâ€Powered Nanoscale Photodetectors. Small, 2017, 13, 1701848.	5.2	227
18	Liquid medium annealing for fabricating durable perovskite solar cells with improved reproducibility. Science, 2021, 373, 561-567.	6.0	227

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19	Superior Sodium Storage in Na₂Ti₃O₇ Nanotube Arrays through Surface Engineering. Advanced Energy Materials, 2016, 6, 1502568.	10.2	219
20	Electronic and Optoelectronic Applications Based on 2D Novel Anisotropic Transition Metal Dichalcogenides. Advanced Science, 2017, 4, 1700231.	5.6	219
21	CdS Nanoscale Photodetectors. Advanced Materials, 2014, 26, 2619-2635.	11.1	210
22	A Selfâ€Powered and Stable Allâ€Perovskite Photodetectorâ€“Solar Cell Nanosystem. Advanced Functional Materials, 2016, 26, 1296-1302.	7.8	203
23	Boosting Sodium Storage in TiO₂ Nanotube Arrays through Surface Phosphorylation. Advanced Materials, 2018, 30, 1704337.	11.1	201
24	Ultrathin MoO2 nanosheets for superior lithium storage. Nano Energy, 2015, 11, 129-135.	8.2	199
25	Gradient Energy Band Driven Highâ€Performance Selfâ€Powered Perovskite/CdS Photodetector. Advanced Materials, 2019, 31, e1806725.	11.1	194
26	Recent progress of one-dimensional ZnO nanostructured solar cells. Nano Energy, 2012, 1, 91-106.	8.2	189
27	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. Nature Communications, 2019, 10, 1112.	5.8	185
28	Bismuth chalcogenide compounds Bi2Ã—3 (X=O, S, Se): Applications in electrochemical energy storage. Nano Energy, 2017, 34, 356-366.	8.2	179
29	Ultrahighâ€Performance Selfâ€Powered Flexible Doubleâ€Twisted Fibrous Broadband Perovskite Photodetector. Advanced Materials, 2018, 30, e1706986.	11.1	177
30	Direct Electrodeposition of ZnO Nanotube Arrays in Anodic Alumina Membranes. Journal of Physical Chemistry C, 2007, 111, 7288-7291.	1.5	165
31	Strongly Coupled Bi₂S₃@CNT Hybrids for Robust Lithium Storage. Advanced Energy Materials, 2014, 4, 1400798.	10.2	159
32	Coagulated SnO₂ Colloids for Highâ€Performance Planar Perovskite Solar Cells with Negligible Hysteresis and Improved Stability. Angewandte Chemie - International Edition, 2019, 58, 11497-11504.	7.2	159
33	Bio-inspired engineering of Bi2S3-PPy yolk-shell composite for highly durable lithium and sodium storage. Nano Energy, 2017, 33, 213-220.	8.2	155
34	Enhanced Photoelectrochemical Performance from Rationally Designed Anatase/Rutile TiO₂ Heterostructures. ACS Applied Materials & Interfaces, 2016, 8, 12239-12245.	4.0	147
35	Nanoscale ultraviolet photodetectors based on onedimensional metal oxide nanostructures. Nano Research, 2015, 8, 382-405.	5.8	143
36	Phosphorus: An Anode of Choice for Sodium-Ion Batteries. ACS Energy Letters, 2018, 3, 1137-1144.	8.8	141

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37	Three-Dimensional WO₃ Nanoplate/Bi₂S₃ Nanorod Heterojunction as a Highly Efficient Photoanode for Improved Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 40235-40243.	4.0	139
38	Interfacial Chemical Bondâ€Modulated Zâ€Scheme Charge Transfer for Efficient Photoelectrochemical Water Splitting. Advanced Energy Materials, 2021, 11, 2003500.	10.2	127
39	Dopingâ€Induced Amorphization, Vacancy, and Gradient Energy Band in SnS₂Nanosheet Arrays for Improved Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 6761-6765.	7.2	125
40	Highly Reversible and Durable Na Storage in Niobium Pentoxide through Optimizing Structure, Composition, and Nanoarchitecture. Advanced Materials, 2017, 29, 1605607.	11.1	122
41	Tungsten Trioxide Nanostructures for Photoelectrochemical Water Splitting: Material Engineering and Charge Carrier Dynamic Manipulation. Advanced Functional Materials, 2019, 29, 1809036.	7.8	122
42	Observing Defect Passivation of the Grain Boundary with 2â€Aminoterephthalic Acid for Efficient and Stable Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 4161-4167.	7.2	122
43	Highly Efficient Sodium Storage in Iron Oxide Nanotube Arrays Enabled by Builtâ€In Electric Field. Advanced Materials, 2019, 31, e1902603.	11.1	120
44	Sizeâ€Tailored ZnO Submicrometer Spheres: Bottomâ€Up Construction, Sizeâ€Related Optical Extinction, and Selective Aniline Trapping. Advanced Materials, 2011, 23, 1865-1870.	11.1	119
45	Self-Powered, Flexible, and Solution-Processable Perovskite Photodetector Based on Low-Cost Carbon Cloth. Small, 2017, 13, 1701042.	5.2	114
46	Simultaneous Manipulation of Oâ€Doping and Metal Vacancy in Atomically Thin Zn₁₀In₁₆S₃₄ Nanosheet Arrays toward Improved Photoelectrochemical Performance. Angewandte Chemie - International Edition, 2018, 57, 16882-16887.	7.2	109
47	Selfâ€Supported 3D Array Electrodes for Sodium Microbatteries. Advanced Functional Materials, 2018, 28, 1704880.	7.8	108
48	Phaseâ€Modulated Band Alignment in CdS Nanorod/SnS_x Nanosheet Hierarchical Heterojunctions toward Efficient Water Splitting. Advanced Functional Materials, 2018, 28, 1706785.	7.8	102
49	A Thermodynamically Favored Crystal Orientation in Mixed Formamidinium/Methylammonium Perovskite for Efficient Solar Cells. Advanced Materials, 2019, 31, e1900390.	11.1	101
50	Efficient, flexible and mechanically robust perovskite solar cells on inverted nanocone plastic substrates. Nanoscale, 2016, 8, 4276-4283.	2.8	99
51	A Novel Conductive Mesoporous Layer with a Dynamic Twoâ€Step Deposition Strategy Boosts Efficiency of Perovskite Solar Cells to 20%. Advanced Materials, 2018, 30, e1801935.	11.1	99
52	Modification Engineering in SnO₂ Electron Transport Layer toward Perovskite Solar Cells: Efficiency and Stability. Advanced Functional Materials, 2020, 30, 2004209.	7.8	98
53	Identifying the optimum thickness of electron transport layers for highly efficient perovskite planar solar cells. Journal of Materials Chemistry A, 2015, 3, 16445-16452.	5.2	91
54	Incorporation of Sulfate Anions and Sulfur Vacancies in ZnIn₂S₄ Photoanode for Enhanced Photoelectrochemical Water Splitting. Advanced Energy Materials, 2021, 11, 2101181.	10.2	87

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55	TiO₂ Electron Transport Bilayer for Highly Efficient Planar Perovskite Solar Cell. Small, 2017, 13, 1701535.	5.2	85
56	Ultrahighâ€Performance Flexible and Selfâ€Powered Photodetectors with Ferroelectric P(VDFâ€TrFE)/Perovskite Bulk Heterojunction. Advanced Functional Materials, 2019, 29, 1808415.	7.8	85
57	Three-Dimensional Microbatteries beyond Lithium Ion. Matter, 2020, 2, 1366-1376.	5.0	84
58	Lowâ€dimensional nanomaterial/Si heterostructureâ€based photodetectors. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 140-163.	8.5	81
59	Non-noble bimetallic NiMoO 4 nanosheets integrated Si photoanodes for highly efficient and stable solar water splitting. Nano Energy, 2017, 34, 8-14.	8.2	78
60	Semitransparent, Flexible, and Selfâ€Powered Photodetectors Based on Ferroelectricityâ€Assisted Perovskite Nanowire Arrays. Advanced Functional Materials, 2019, 29, 1901280.	7.8	78
61	Self-supported multicomponent CPO-27 MOF nanoarrays as high-performance anode for lithium storage. Nano Energy, 2019, 57, 711-717.	8.2	78
62	PVP Treatment Induced Gradient Oxygen Doping in In₂S₃ Nanosheet to Boost Solar Water Oxidation of WO₃ Nanoarray Photoanode. Advanced Energy Materials, 2020, 10, 1903951.	10.2	78
63	Nanoimprinted Gratingâ€Embedded Perovskite Solar Cells with Improved Light Management. Advanced Functional Materials, 2019, 29, 1900830.	7.8	77
64	Bandgapâ€Graded CdS_xSe_{1â€“x} Nanowires for Highâ€Performance Fieldâ€Effect Transistors and Solar Cells. Advanced Materials, 2013, 25, 1109-1113.	11.1	75
65	Spontaneously Splitting Copper Nanowires into Quantum Dots on Graphdiyne for Suppressing Lithium Dendrites. Advanced Materials, 2020, 32, e2004379.	11.1	74
66	Flexible and Selfâ€Powered Lateral Photodetector Based on Inorganic Perovskite CsPbI₃â€“CsPbBr₃ Heterojunction Nanowire Array. Advanced Functional Materials, 2020, 30, 1909771.	7.8	73
67	High-performance UVâ€“vis photodetectors based on electrospun ZnO nanofiber-solution processed perovskite hybrid structures. Nano Research, 2017, 10, 2244-2256.	5.8	72
68	Durian-Inspired Design of Bismuthâ€“Antimony Alloy Arrays for Robust Sodium Storage. ACS Nano, 2020, 14, 9117-9124.	7.3	71
69	High-performance Schottky solar cells using ZrS2 nanobelt networks. Energy and Environmental Science, 2011, 4, 2586.	15.6	68
70	Materials Based on Antimony and Bismuth for Sodium Storage. Chemistry - A European Journal, 2018, 24, 13719-13727.	1.7	68
71	TiO₂ Phase Junction Electron Transport Layer Boosts Efficiency of Planar Perovskite Solar Cells. Advanced Science, 2018, 5, 1700614.	5.6	67
72	Designing a Transparent CdIn₂S₄/In₂S₃ Bulkâ€Heterojunction Photoanode Integrated with a Perovskite Solar Cell for Unbiased Water Splitting. Advanced Materials, 2020, 32, e2002893.	11.1	67

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73	An Energetic CuSâ€“Cu Battery System Based on CuS Nanosheet Arrays. ACS Nano, 2021, 15, 5420-5427.	7.3	66
74	Molybdenumâ€based materials for sodiumâ€ion batteries. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 339-352.	8.5	65
75	Rooting binder-free tin nanoarrays into copper substrate via tin-copper alloying for robust energy storage. Nature Communications, 2020, 11, 1212.	5.8	64
76	Oxygen-deficient Ta2O5 nanoporous films as self-supported electrodes for lithium microbatteries. Nano Energy, 2018, 45, 407-412.	8.2	63
77	Selfâ€Powered UVâ€“Visâ€“NIR Photodetector Based on Conjugatedâ€Polymer/CsPbBr₃ Nanowire Array. Advanced Functional Materials, 2019, 29, 1906756.	7.8	63
78	Moistureâ€Triggered Selfâ€Healing Flexible Perovskite Photodetectors with Excellent Mechanical Stability. Advanced Materials, 2021, 33, e2100625.	11.1	63
79	Regulation of Breathing CuO Nanoarray Electrodes for Enhanced Electrochemical Sodium Storage. Advanced Functional Materials, 2018, 28, 1707179.	7.8	61
80	Recent Progress on Semiconductor Heterojunctionâ€Based Photoanodes for Photoelectrochemical Water Splitting. Small Science, 2022, 2, .	5.8	60
81	A Universal Strategy for Constructing Seamless Graphdiyne on Metal Oxides to Stabilize the Electrochemical Structure and Interface. Advanced Materials, 2019, 31, e1806272.	11.1	59
82	Templateâ€Free Construction of Selfâ€Supported Sb Prisms with Stable Sodium Storage. Advanced Energy Materials, 2019, 9, 1901096.	10.2	57
83	Nested Inverse Opal Perovskite toward Superior Flexible and Selfâ€Powered Photodetection Performance. Advanced Materials, 2020, 32, e1906974.	11.1	56
84	Stability enhancement of leadâ€free CsSnI₃ perovskite photodetector with reductive ascorbic acid additive. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 577-584.	8.5	56
85	Cathode Architectures for Rechargeable Ion Batteries: Progress and Perspectives. Advanced Materials, 2020, 32, e2000288.	11.1	55
86	In Situ Formed Gradient Bandgapâ€Tunable Perovskite for Ultrahighâ€Speed Color/Spectrumâ€Sensitive Photodetectors via Electronâ€Donor Control. Advanced Materials, 2020, 32, e1908108.	11.1	55
87	Ultrathin Amorphous Ni(OH)₂ Nanosheets on Ultrathin Î±â€Fe₂O₃ Films for Improved Photoelectrochemical Water Oxidation. Advanced Materials Interfaces, 2016, 3, 1600256.	1.9	53
88	Modulating oxygen vacancies in Sn-doped hematite film grown on silicon microwires for photoelectrochemical water oxidation. Journal of Materials Chemistry A, 2018, 6, 15593-15602.	5.2	53
89	Unraveling the Growth of Hierarchical Quasi-2D/3D Perovskite and Carrier Dynamics. Journal of Physical Chemistry Letters, 2018, 9, 1124-1132.	2.1	52
90	Coagulated SnO₂ Colloids for Highâ€Performance Planar Perovskite Solar Cells with Negligible Hysteresis and Improved Stability. Angewandte Chemie, 2019, 131, 11621-11628.	1.6	52

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91	Perovskite Transparent Conducting Oxide for the Design of a Transparent, Flexible, and Self-Powered Perovskite Photodetector. ACS Applied Materials & Interfaces, 2020, 12, 16462-16468.	4.0	52
92	Progress of Leadâ€Free Halide Perovskites: From Material Synthesis to Photodetector Application. Advanced Functional Materials, 2021, 31, 2008275.	7.8	52
93	A multijunction of ZnIn2S4 nanosheet/TiO2 film/Si nanowire for significant performance enhancement of water splitting. Nano Research, 2015, 8, 3524-3534.	5.8	51
94	Graded Bandgap Perovskite with Intrinsic nâ€“p Homojunction Expands Photon Harvesting Range and Enables All Transport Layerâ€Free Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1903347.	10.2	50
95	A Universal Strategy of Intermolecular Exchange to Stabilize Îâ€FAPbI₃ and Manage Crystal Orientation for Highâ€Performance Humidâ€Airâ€Processed Perovskite Solar Cells. Advanced Materials, 2022, 34, e2200041.	11.1	50
96	Adduct phases induced controlled crystallization for mixed-cation perovskite solar cells with efficiency over 21%. Nano Energy, 2019, 63, 103867.	8.2	48
97	2D Ruddlesdenâ€“Popper Perovskite with Ordered Phase Distribution for Highâ€Performance Selfâ€Powered Photodetectors. Advanced Materials, 2021, 33, e2101714.	11.1	48
98	Electrospinning for flexible sodium-ion batteries. Energy Storage Materials, 2022, 45, 704-719.	9.5	48
99	Interface reacted ZnFe₂O₄ on Îâ€-Fe₂O₃ nanoarrays for largely improved photoelectrochemical activity. RSC Advances, 2015, 5, 79440-79446.	1.7	47
100	Novel perovskite/TiO2/Si trilayer heterojunctions for high-performance self-powered ultraviolet-visible-near infrared (UV-Vis-NIR) photodetectors. Nano Research, 2018, 11, 1722-1730.	5.8	47
101	Ni/Fe Codoped In₂S₃ Nanosheet Arrays Boost Photoâ€Electrochemical Performance of Planar Si Photocathodes. Advanced Energy Materials, 2019, 9, 1902135.	10.2	47
102	Intermediateâ€Adductâ€Assisted Growth of Stable CsPbI₂Br Inorganic Perovskite Films for Highâ€Efficiency Semitransparent Solar Cells. Advanced Materials, 2021, 33, e2006745.	11.1	47
103	Electrospun Materials for Batteries Moving Beyond Lithium-Ion Technologies. Electrochemical Energy Reviews, 2022, 5, 211-241.	13.1	44
104	Hybrid Nanostructures for Photodetectors. Advanced Optical Materials, 2017, 5, 1600468.	3.6	43
105	A Plasmaâ€Triggered Oâ^'S Bond and Pâ^'N Junction Near the Surface of a SnS₂ Nanosheet Array to Enable Efficient Solar Water Oxidation. Angewandte Chemie - International Edition, 2019, 58, 16668-16675.	7.2	42
106	Partial Ion Exchange Derived 2D Cuâ€“Znâ€“Inâ€“S Nanosheets as Sensitizers of 1D TiO₂ Nanorods for Boosting Solar Water Splitting. ACS Applied Materials & Interfaces, 2016, 8, 26235-26243.	4.0	40
107	Dualâ€Doped Hematite Nanorod Arrays on Carbon Cloth as a Robust and Flexible Sodium Anode. Advanced Functional Materials, 2020, 30, 1910043.	7.8	39
108	Crowning Lithium Ions in Holeâ€Transport Layer toward Stable Perovskite Solar Cells. Advanced Materials, 2022, 34, e2200978.	11.1	39

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109	Flexible Three-Dimensional SnO₂ Nanowire Arrays: Atomic Layer Deposition-Assisted Synthesis, Excellent Photodetectors, and Field Emitters. ACS Applied Materials & Interfaces, 2013, 5, 7845-7851.	4.0	38
110	Atomic layer deposition triggered Fe-In-S cluster and gradient energy band in ZnInS photoanode for improved oxygen evolution reaction. Nature Communications, 2021, 12, 5247.	5.8	36
111	Enhancing photoelectrochemical activity with three-dimensional p-CuO/n-ZnO junction photocathodes. Science China Materials, 2016, 59, 825-832.	3.5	35
112	Boosting Efficiency and Stability of Perovskite Solar Cells with CdS Inserted at TiO₂/Perovskite Interface. Advanced Materials Interfaces, 2016, 3, 1600729.	1.9	35
113	Bifunctional Ytterbium (III) Chloride Driven Lowâ€Temperature Synthesis of Stable Î±â€CsPbI₃ for Highâ€Efficiency Inorganic Perovskite Solar Cells. Small Methods, 2020, 4, 1900652.	4.6	35
114	New Insights into the Electron-Collection Efficiency Improvement of CdS-Sensitized TiO₂ Nanorod Photoelectrodes by Interfacial Seed-Layer Mediation. ACS Applied Materials & Interfaces, 2019, 11, 8126-8137.	4.0	34
115	Theoretical Simulation and Modeling of Three-Dimensional Batteries. Cell Reports Physical Science, 2020, 1, 100078.	2.8	34
116	Atomic Sandwiched pâ€n Homojunctions. Angewandte Chemie - International Edition, 2021, 60, 3487-3492.	7.2	34
117	Stable Leadâ€Free Tin Halide Perovskite with Operational Stability >1200â€‰h by Suppressing Tin(II) Oxidation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	34
118	Regulating the Silicon/Hematite Microwire Photoanode by the Conformal Al₂O₃ Intermediate Layer for Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 5978-5988.	4.0	33
119	Highâ€Performance Flexible Selfâ€Powered Photodetector Based on Perovskite and Lowâ€Temperature Processed In₂S₃ Nanoflake Film. Advanced Materials Interfaces, 2019, 6, 1801526.	1.9	33
120	Optical Design in Perovskite Solar Cells. Small Methods, 2020, 4, 1900150.	4.6	32
121	A Submicrosecond-Response Ultravioletâ€“Visibleâ€“Near-Infrared Broadband Photodetector Based on 2D Tellurosilicate InSiTe₃. ACS Nano, 2022, 16, 7745-7754.	7.3	32
122	Polarized Ferroelectric Field-Enhanced Self-Powered Perovskite Photodetector. ACS Photonics, 2018, 5, 3731-3738.	3.2	31
123	Engineering Interfacial Band Bending over ZnIn₂S₄/SnS₂ by Interface Chemical Bond for Efficient Solarâ€Driven Photoelectrochemical Water Splitting. Advanced Energy Materials, 2022, 12, .	10.2	31
124	<scp>Selfâ€powered</scp> bifunctional perovskite photodetectors with both broadband and narrowband photoresponse. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	31
125	Structural Engineering of Si/TiO₂/P3HT Heterojunction Photodetectors for a Tunable Response Range. ACS Applied Materials & Interfaces, 2019, 11, 3241-3250.	4.0	30
126	NiCo₂O₄ Nanostructures as a Promising Alternative for NiO Photocathodes in pâ€Type Dyeâ€Sensitized Solar Cells with High Efficiency. Energy Technology, 2014, 2, 517-521.	1.8	29

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127	Ultrastable Sodium Storage in MoO₃ Nanotube Arrays Enabled by Surface Phosphorylation. ACS Applied Materials & Interfaces, 2019, 11, 37761-37767.	4.0	29
128	Observing Defect Passivation of the Grain Boundary with 2â€Aminoterephthalic Acid for Efficient and Stable Perovskite Solar Cells. Angewandte Chemie, 2020, 132, 4190-4196.	1.6	29
129	Realizing Stable Artificial Photon Energy Harvesting Based on Perovskite Solar Cells for Diverse Applications. Small, 2020, 16, e1906681.	5.2	29
130	Efficient perovskite solar cells based on novel three-dimensional TiO2 network architectures. Science Bulletin, 2016, 61, 778-786.	4.3	28
131	Ternary non-noble metal zinc-nickel-cobalt carbonate hydroxide cocatalysts toward highly efficient photoelectrochemical water splitting. Journal of Materials Science and Technology, 2018, 34, 899-904.	5.6	28
132	Efficient p-type dye-sensitized solar cells with all-nano-electrodes: NiCo2S4 mesoporous nanosheet counter electrodes directly converted from NiCo2O4 photocathodes. Nanoscale Research Letters, 2014, 9, 608.	3.1	27
133	Nanostructured solar cells harvesting multi-type energies. Energy and Environmental Science, 2012, 5, 6040.	15.6	26
134	Efficient planar perovskite solar cells based on low-cost spin-coated ultrathin Nb2O5 films. Solar Energy, 2018, 166, 187-194.	2.9	26
135	Freestanding nanosheets of 1T-2H hybrid MoS2 as electrodes for efficient sodium storage. Journal of Materials Science and Technology, 2021, 67, 237-242.	5.6	26
136	Twoâ€Dimentional Nanostructured Metal Oxide/Sulfideâ€“Based Photoanode for Photoelectrochemical Water Splitting. Solar Rrl, 2021, 5, 2000412.	3.1	24
137	Designing WO₃/CdIn₂S₄ type-II heterojunction with both efficient light absorption and charge separation for enhanced photoelectrochemical water splitting. Nanotechnology, 2019, 30, 495402.	1.3	23
138	Dopingâ€Induced Amorphization, Vacancy, and Gradient Energy Band in SnS₂Nanosheet Arrays for Improved Photoelectrochemical Water Splitting. Angewandte Chemie, 2019, 131, 6833-6837.	1.6	23
139	Ethylamine Iodide Additive Enables Solidâ€toâ€Solid Transformed Highly Oriented Perovskite for Excellent Photodetectors. Advanced Materials, 2022, 34, e2108569.	11.1	23
140	Stable one dimensional (1D)/three dimensional (3D) perovskite solar cell with an efficiency exceeding 23%. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	23
141	Interface Engineering through Atomic Layer Deposition towards Highly Improved Performance of Dye-Sensitized Solar Cells. Scientific Reports, 2015, 5, 12765.	1.6	22
142	Photon management for efficient hybrid perovskite solar cells via synergetic localized grating and enhanced fluorescence effect. Nano Energy, 2017, 40, 540-549.	8.2	22
143	Materials based on group IVA elements for alloying-type sodium storage. Science China Chemistry, 2018, 61, 1494-1502.	4.2	22
144	Laserâ€Manufactured Metastable Supranano SnO_x for Efficient Electron/Ion Bridging in SnO₂â€Graphene Heterostructure Boosting Lithium Storage. Advanced Functional Materials, 2021, 31, 2101059.	7.8	22

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145	A high-activity bimetallic OER cocatalyst for efficient photoelectrochemical water splitting of BiVO₄. Nanoscale, 2020, 12, 8875-8882.	2.8	21
146	Application of materials based on group VB elements in sodium-ion batteries: A review. Journal of Materials Science and Technology, 2018, 34, 1969-1976.	5.6	20
147	High-yield synthesis of single-crystalline zinc oxide nanobelts and their applications in novel Schottky solar cells. Chemical Communications, 2011, 47, 8247.	2.2	19
148	Simultaneous Manipulation of Oâ€Doping and Metal Vacancy in Atomically Thin Zn₁₀In₁₆S₃₄ Nanosheet Arrays toward Improved Photoelectrochemical Performance. Angewandte Chemie, 2018, 130, 17124-17129.	1.6	19
149	Generic Approach to Boost the Sensitivity of Metal Oxide Sensors by Decoupling the Surface Charge Exchange and Resistance Reading Process. ACS Applied Materials & Interfaces, 2020, 12, 37295-37304.	4.0	19
150	Graded energy band engineering for efficient perovskite solar cells. Nano Select, 2020, 1, 152-168.	1.9	19
151	2D Siliconâ€Based Semiconductor Si₂Te₃ toward Broadband Photodetection. Small, 2021, 17, e2006496.	5.2	19
152	Polypyrrole Serving as Multifunctional Surface Modifier for Photoanode Enables Efficient Photoelectrochemical Water Oxidation. Small, 2022, 18, e2105240.	5.2	19
153	Advances in the Application of Atomic Layer Deposition for Organometal Halide Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600505.	1.9	18
154	Hierarchical Porous Sb Films on 3D Cu Substrate Have Promise for Stable Sodium Storage. ACS Applied Energy Materials, 2018, 1, 3598-3602.	2.5	18
155	Synergistic bonding stabilized interface for perovskite solar cells with over 24% efficiency. Nano Energy, 2022, 100, 107518.	8.2	18
156	Nature-inspired Cu2O@CoO tree-like architecture for robust storage of sodium. Journal of Materials Science and Technology, 2020, 53, 126-131.	5.6	16
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