Shihe Yang

List of Publications by Year
in descending order

379 papers	41,686 citations	1371 108 h-index	2629 194 g-index
386 all docs	386 docs citations	386 times ranked	37549 citing authors

#	Article	IF	Citations
1	D-Ï€-D molecular layer electronically bridges the NiO hole transport layer and the perovskite layer towards high performance photovoltaics. Journal of Energy Chemistry, 2022, 67, 797-804.	12.9	9
2	Ultrasound-seeded vapor-phase-transport growth of boundary-rich layered double hydroxide nanosheet arrays for highly efficient water splitting. Chemical Engineering Journal, 2022, 433, 134552.	12.7	6
3	Harvesting of Infrared Part of Sunlight to Enhance Polaron Transport and Solar Water Splitting. Advanced Functional Materials, 2022, 32, .	14.9	24
4	New Findings for the Muchâ€Promised Hematite Photoanodes with Gradient Doping and Overlayer Elaboration. Solar Rrl, 2022, 6, .	5.8	15
5	Composition-Tuned Surface Binding on CuZn-Ni Catalysts Boosts CO₂RR Selectivity toward CO Generation. , 2022, 4, 497-504.		26
6	Targeted Molecular Design of Functionalized Fullerenes for Highâ€Performance and Stable Perovskite Solar Cells. Small Structures, 2022, 3, .	12.0	17
7	Robotic Hair with Rich Sensation and Piloerection Functionalities Biomimicked by Stimuliâ€Responsive Materials. Advanced Materials Technologies, 2022, 7, .	5.8	2
8	Building Bulk Heterojunction to Enhance Hole Extraction for Highâ€Performance Printable Carbonâ€Based Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	6
9	A visible to near-infrared nanocrystalline organic photodetector with ultrafast photoresponse. Journal of Materials Chemistry C, 2022, 10, 9391-9400.	5.5	8
10	A dual plasmonic coreâ€"shell Pt/[TiN@TiO2] catalyst for enhanced photothermal synergistic catalytic activity of VOCs abatement. Nano Research, 2022, 15, 7071-7080.	10.4	17
11	Bipolar dual-broadband photodetectors based on perovskite heterojunctions. Nano Futures, 2022, 6, 025006.	2.2	2
12	A Heatâ€Liquefiable Solid Precursor for Ambient Growth of Perovskites with High Tunability, Performance and Stability. Small Methods, 2022, 6, .	8.6	4
13	Targeted Molecular Design of Functionalized Fullerenes for Highâ€Performance and Stable Perovskite Solar Cells. Small Structures, 2022, 3, .	12.0	3
14	Cu Vacancy Induced Product Switching from Formate to CO for CO₂ Reduction on Copper Sulfide. ACS Catalysis, 2022, 12, 9074-9082.	11.2	35
15	Crystallization Kinetics Modulation of FASnI₃ Films with Preâ€nucleation Clusters for Efficient Leadâ€Free Perovskite Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 3693-3698.	13.8	80
16	Tuning SAPO-34 with a tailor-designed zwitterionic amino acid for improved MTO performance. Microporous and Mesoporous Materials, 2021, 310, 110590.	4.4	10
17	Crystallization Kinetics Modulation of FASnI₃ Films with Preâ€nucleation Clusters for Efficient Leadâ€Free Perovskite Solar Cells. Angewandte Chemie, 2021, 133, 3737-3742.	2.0	20
18	Selfâ€Driven Perovskite Narrowband Photodetectors with Tunable Spectral Responses. Advanced Materials, 2021, 33, e2005557.	21.0	109

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19	Atomically targeting NiFe LDH to create multivacancies for OER catalysis with a small organic anchor. Nano Energy, 2021, 81, 105606.	16.0	204
20	Formation of FeOOH Nanosheets Induces Substitutional Doping of CeO_{2âˆ'}<i>_x</i> with Highâ€Valence Ni for Efficient Water Oxidation. Advanced Energy Materials, 2021, 11, 2002731.	19.5	110
21	Recent advances in surface/interface engineering of noble-metal free catalysts for energy conversion reactions. Materials Chemistry Frontiers, 2021, 5, 3576-3592.	5.9	9
22	Surface passivation of organometal halide perovskites by atomic layer deposition: an investigation of the mechanism of efficient inverted planar solar cells. Nanoscale Advances, 2021, 3, 2305-2315.	4.6	25
23	Highly efficient and stable broadband near-infrared-emitting lead-free metal halide double perovskites. Journal of Materials Chemistry C, 2021, 9, 13474-13483.	5.5	13
24	Discovery of a New Intermediate Enables Oneâ€Step Deposition of Highâ€Quality Perovskite Films via Solvent Engineering. Solar Rrl, 2021, 5, 2000712.	5.8	24
25	TM LDH Meets Birnessite: A 2Dâ€2D Hybrid Catalyst with Longâ€Term Stability for Water Oxidation at Industrial Operating Conditions. Angewandte Chemie - International Edition, 2021, 60, 9699-9705.	13.8	57
26	An aerosol-liquid-solid process for the general synthesis of halide perovskite thick films for direct-conversion X-ray detectors. Matter, 2021, 4, 942-954.	10.0	80
27	TM LDH Meets Birnessite: A 2Dâ€2D Hybrid Catalyst with Longâ€Term Stability for Water Oxidation at Industrial Operating Conditions. Angewandte Chemie, 2021, 133, 9785-9791.	2.0	3
28	Ambient Inkjetâ€Printed Highâ€Efficiency Perovskite Solar Cells: Manipulating the Spreading and Crystallization Behaviors of Picoliter Perovskite Droplets. Solar Rrl, 2021, 5, 2100106.	5.8	24
29	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. Nature Catalysis, 2021, 4, 212-222.	34.4	266
30	Dualâ€"Functionalâ€Polymer Dopantâ€"Passivant Boosted Electron Transport Layer for Highâ€Performance Inverted Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100236.	5.8	5
31	Selfâ€Driven Perovskite Dualâ€Band Photodetectors Enabled by a Charge Separation Reversion Mechanism. Advanced Optical Materials, 2021, 9, 2100517.	7.3	21
32	Organic metal-free halide perovskites tuned up for X-ray detection. Matter, 2021, 4, 2111-2114.	10.0	7
33	Conductive Polymer Intercalation Tunes Charge Transfer and Sorptionâ€"Desorption Properties of LDH Enabling Efficient Alkaline Water Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 37063-37070.	8.0	19
34	Mini Review on Active Sites in Ce-Based Electrocatalysts for Alkaline Water Splitting. Energy & Fuels, 2021, 35, 19000-19011.	5.1	34
35	Activating Metal Oxides Nanocatalysts for Electrocatalytic Water Oxidation by Quenching-Induced Near-Surface Metal Atom Functionality. Journal of the American Chemical Society, 2021, 143, 14169-14177.	13.7	101
36	Plasmonic Hot Hole Extraction from CuS Nanodisks Enables Significant Acceleration of Oxygen Evolution Reactions. Journal of Physical Chemistry Letters, 2021, 12, 7988-7996.	4.6	14

#	ARTICLE	IF	CITATIONS
37	Sequential Growth of 2D/3D Doubleâ€Layer Perovskite Films with Superior Xâ€Ray Detection Performance. Advanced Science, 2021, 8, e2102730.	11.2	55
38	Multifunctional Molecular Design of a New Fulleropyrrolidine Electron Transport Material Family Engenders High Performance of Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2107695.	14.9	17
39	Controlling the Crystallization Kinetics of Leadâ€Free Tin Halide Perovskites for High Performance Green Photovoltaics. Advanced Energy Materials, 2021, 11, 2102131.	19.5	47
40	Boosting performance and stability of inverted perovskite solar cells by modulating the cathode interface with phenyl phosphine-inlaid semiconducting polymer. Nano Energy, 2021, 89, 106374.	16.0	10
41	Boosting the electrochemical performance of hematite nanorods <i>via</i> quenching-induced metal single atom functionalization. Journal of Materials Chemistry A, 2021, 9, 3492-3499.	10.3	20
42	Trap-Assisted Charge Storage in Titania Nanocrystals toward Optoelectronic Nonvolatile Memory. Nano Letters, 2021, 21, 723-730.	9.1	20
43	High throughput screening of novel tribromide perovskite materials for high-photovoltage solar cells. Journal of Materials Chemistry A, 2021, 9, 25502-25512.	10.3	8
44	Activating Carbon Nitride by BP@Ni for the Enhanced Photocatalytic Hydrogen Evolution and Selective Benzyl Alcohol Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 50988-50995.	8.0	14
45	Nucleophilic Etching Growth of Zeolite Materials with High Tunability. Advanced Materials Interfaces, 2021, 8, .	3.7	2
46	Unexpected high selectivity for acetate formation from CO₂ reduction with copper based 2D hybrid catalysts at ultralow potentials. Chemical Science, 2021, 12, 15382-15388.	7.4	19
47	Controlling Apparent Coordinated Solvent Number in the Perovskite Intermediate Phase Film for Developing Largeâ€Area Perovskite Solar Modules. Energy Technology, 2020, 8, 1900972.	3.8	9
48	Interfacial Postâ€Treatment for Enhancing the Performance of Printable Carbonâ€Based Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900278.	5.8	23
49	Material and Interface Engineering for Highâ€Performance Perovskite Solar Cells: A Personal Journey and Perspective. Chemical Record, 2020, 20, 209-229.	5.8	9
50	Interfacial effects in hierarchically porous Î±-MnO2/Mn3O4 heterostructures promote photocatalytic oxidation activity. Applied Catalysis B: Environmental, 2020, 268, 118418.	20.2	100
51	Recent advances in transition metal based compound catalysts for water splitting from the perspective of crystal engineering. CrystEngComm, 2020, 22, 1531-1540.	2.6	32
52	NiMn compound nanosheets for electrocatalytic water oxidation: effects of atomic structures and oxidation states. Nanoscale, 2020, 12, 2472-2478.	5.6	17
53	Highly efficient tin perovskite solar cells achieved in a wide oxygen concentration range. Journal of Materials Chemistry A, 2020, 8, 2760-2768.	10.3	85
54	Efficient and stable tin-based perovskite solar cells by introducing Ï€-conjugated Lewis base. Science China Chemistry, 2020, 63, 107-115.	8.2	160

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55	Kineticâ€Oriented Construction of MoS₂ Synergistic Interface to Boost pHâ€Universal Hydrogen Evolution. Advanced Functional Materials, 2020, 30, 1908520.	14.9	59
56	Ion Migration: A â€œDoubleâ€Edged Swordâ€• for Halideâ€Perovskiteâ€Based Electronic Devices. Small Methods, 2020, 4, 1900552.	8.6	127
57	Optically Stimulated Luminescence Phosphors: Principles, Applications, and Prospects. Laser and Photonics Reviews, 2020, 14, 2000123.	8.7	73
58	A dramatic conformational effect of multifunctional zwitterions on zeolite crystallization. Chemical Communications, 2020, 56, 14693-14696.	4.1	1
59	Identifying the Active Sites of a Single Atom Catalyst with pH-Universal Oxygen Reduction Reaction Activity. Cell Reports Physical Science, 2020, 1, 100115.	5.6	26
60	Surface Sulfuration of NiO Boosts the Performance of Inverted Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000270.	5.8	31
61	The Role of Ceria in a Hybrid Catalyst toward Alkaline Water Oxidation. ChemSusChem, 2020, 13, 5273-5279.	6.8	36
62	Halide perovskites: A dark horse for direct Xâ€ray imaging. EcoMat, 2020, 2, e12064.	11.9	84
63	Templated growth of FASnI₃ crystals for efficient tin perovskite solar cells. Energy and Environmental Science, 2020, 13, 2896-2902.	30.8	165
64	Aliovalent Doping and Surface Grafting Enable Efficient and Stable Leadâ€Free Blueâ€Emitting Perovskite Derivative. Advanced Optical Materials, 2020, 8, 2000779.	7.3	68
65	Non-precious-metal catalysts for alkaline water electrolysis: <i>operando</i> characterizations, theoretical calculations, and recent advances. Chemical Society Reviews, 2020, 49, 9154-9196.	38.1	448
66	NaBH₄ induces a high ratio of Ni³⁺/Ni²⁺ boosting OER activity of the NiFe LDH electrocatalyst. RSC Advances, 2020, 10, 33475-33482.	3.6	62
67	Anomalous Photoinduced Reconstructing and Dark Self-Healing Processes on Bi₂O₂S Nanoplates. Journal of Physical Chemistry Letters, 2020, 11, 7832-7838.	4.6	7
68	A zeolite-based ship-in-a-bottle route to ultrasmall carbon dots for live cell labeling and bioimaging. Nanoscale Advances, 2020, 2, 5803-5809.	4.6	7
69	Effect of Absorbed Sulfate Poisoning on the Performance of Catalytic Oxidation of VOCs over MnO₂. ACS Applied Materials & Interfaces, 2020, 12, 50566-50572.	8.0	36
70	Potassiumâ€Induced Phase Stability Enables Stable and Efficient Wideâ€Bandgap Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000098.	5.8	37
71	Efficient and stable tin perovskite solar cells enabled by amorphous-polycrystalline structure. Nature Communications, 2020, 11, 2678.	12.8	143
72	Surface-Controlled Oriented Growth of FASnI3 Crystals for Efficient Lead-free Perovskite Solar Cells. Joule, 2020, 4, 902-912.	24.0	208

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73	Good or evil: what is the role of water in crystallization of organometal halide perovskites?. Nanoscale Horizons, 2020, 5, 1147-1154.	8.0	11
74	<i>In situ</i> growth of Fe2WO6 on WO3 nanosheets to fabricate heterojunction arrays for boosting solar water splitting. Journal of Chemical Physics, 2020, 152, 214704.	3.0	19
75	Efficient and Stable Tin Perovskite Solar Cells Enabled by Graded Heterostructure of Lightâ€Absorbing Layer. Solar Rrl, 2020, 4, 2000240.	5.8	53
76	Highly Reproducible and Efficient FASnI₃ Perovskite Solar Cells Fabricated with Volatilizable Reducing Solvent. Journal of Physical Chemistry Letters, 2020, 11, 2965-2971.	4.6	115
77	<i>In situ</i> templating synthesis of mesoporous Niâ€"Fe electrocatalyst for oxygen evolution reaction. RSC Advances, 2020, 10, 23321-23330.	3.6	11
78	Gaining Insight into the Effect of Organic Interface Layer on Suppressing Ion Migration Induced Interfacial Degradation in Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2000837.	14.9	29
79	An amorphous trimetallic (Niâ€"Coâ€"Fe) hydroxide-sheathed 3D bifunctional electrode for superior oxygen evolution and high-performance cable-type flexible zincâ€"air batteries. Journal of Materials Chemistry A, 2020, 8, 5601-5611.	10.3	57
80	A prenucleation strategy for ambient fabrication of perovskite solar cells with high device performance uniformity. Nature Communications, 2020, 11, 1006.	12.8	98
81	Harnessing hierarchical architectures to trap light for efficient photoelectrochemical cells. Energy and Environmental Science, 2020, 13, 660-684.	30.8	43
82	Cation Diffusion Guides Hybrid Halide Perovskite Crystallization during the Gel Stage. Angewandte Chemie, 2020, 132, 6035-6043.	2.0	22
83	Cation Diffusion Guides Hybrid Halide Perovskite Crystallization during the Gel Stage. Angewandte Chemie - International Edition, 2020, 59, 5979-5987.	13.8	29
84	Recent advances in white light-emitting diodes of carbon quantum dots. Nanoscale, 2020, 12, 4826-4832.	5.6	98
85	Graded 2D/3D Perovskite Heterostructure for Efficient and Operationally Stable MAâ€Free Perovskite Solar Cells. Advanced Materials, 2020, 32, e2000571.	21.0	166
86	(Invited) Nanostructured Photoelectrochemical Electrodes and Electrocatalysts for Efficient Solar Energy Conversion. ECS Meeting Abstracts, 2020, MA2020-02, 3092-3092.	0.0	0
87	An Ultraâ€Low Concentration of Gold Nanoparticles Embedded in the NiO Hole Transport Layer Boosts the Performance of pâ€iâ€n Perovskite Solar Cells. Solar Rrl, 2019, 3, 1800278.	5.8	38
88	Enhancing photoelectrochemical water splitting by combining work function tuning and heterojunction engineering. Nature Communications, 2019, 10, 3687.	12.8	300
89	Dispersing transition metal vacancies in layered double hydroxides by ionic reductive complexation extraction for efficient water oxidation. Chemical Science, 2019, 10, 8354-8359.	7.4	54
90	Highly Stable and Efficient FASnI₃â€Based Perovskite Solar Cells by Introducing Hydrogen Bonding. Advanced Materials, 2019, 31, e1903721.	21.0	266

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91	Freeing the Polarons to Facilitate Charge Transport in BiVO₄ from Oxygen Vacancies with an Oxidative 2D Precursor. Angewandte Chemie - International Edition, 2019, 58, 19087-19095.	13.8	64
92	Hydrogen Evolution Reaction: Oneâ€Step Controllable Synthesis of Catalytic Ni₄Mo/MoO<i>_x</i>/Cu Nanointerfaces for Highly Efficient Water Reduction (Adv. Energy Mater. 41/2019). Advanced Energy Materials, 2019, 9, 1970162.	19.5	0
93	Accelerating the Screening of Perovskite Compositions for Photovoltaic Applications through Highâ€Throughput Inkjet Printing. Advanced Functional Materials, 2019, 29, 1905487.	14.9	37
94	Oneâ€Step Controllable Synthesis of Catalytic Ni₄Mo/MoO<i>_x</i>/Cu Nanointerfaces for Highly Efficient Water Reduction. Advanced Energy Materials, 2019, 9, 1901454.	19.5	39
95	Freeing the Polarons to Facilitate Charge Transport in BiVO₄ from Oxygen Vacancies with an Oxidative 2D Precursor. Angewandte Chemie, 2019, 131, 19263-19271.	2.0	21
96	Fluorescenceâ€“phosphorescence dual emissive carbon nitride quantum dots show 25% white emission efficiency enabling single-component WLEDs. Chemical Science, 2019, 10, 9801-9806.	7.4	115
97	Tailoring Multidimensional Traps for Rewritable Multilevel Optical Data Storage. ACS Applied Materials & Interfaces, 2019, 11, 35023-35029.	8.0	56
98	One-pot synthesis of manganese oxides and cobalt phosphides nanohybrids with abundant heterointerfaces in an amorphous matrix for efficient hydrogen evolution in alkaline solution. Journal of Materials Chemistry A, 2019, 7, 22530-22538.	10.3	32
99	Polyethyleneimine-functionalized carbon nanotubes as an interlayer to bridge perovskite/carbon for all inorganic carbon-based perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 22005-22011.	10.3	47
100	Skillfully deflecting the question: a small amount of piperazine-1,4-diium iodide radically enhances the thermal stability of CsPbI₃ perovskite. Journal of Materials Chemistry C, 2019, 7, 11757-11763.	5.5	32
101	Defect-Rich NiCeO_{<i>x</i>} Electrocatalyst with Ultrahigh Stability and Low Overpotential for Water Oxidation. ACS Catalysis, 2019, 9, 1605-1611.	11.2	113
102	Surface Thermolytic Behavior of Nickel Amidinate and Its Implication on the Atomic Layer Deposition of Nickel Compounds. Chemistry of Materials, 2019, 31, 5172-5180.	6.7	17
103	Methods and strategies for achieving high-performance carbon-based perovskite solar cells without hole transport materials. Journal of Materials Chemistry A, 2019, 7, 15476-15490.	10.3	85
104	Toward Efficient Charge Collection and Light Absorption: A Perspective of Light Trapping for Advanced Photoelectrodes. Journal of Physical Chemistry C, 2019, 123, 18753-18770.	3.1	12
105	Highly efficient and stable white LEDs based on pure red narrow bandwidth emission triangular carbon quantum dots for wide-color gamut backlight displays. Nano Research, 2019, 12, 1669-1674.	10.4	107
106	Organic Mesopore Generating Agents (OMeGAs) for Hierarchical Zeolites: Combining Functions on Multiple Scales. ChemNanoMat, 2019, 5, 869-877.	2.8	8
107	Carbon quantum dots: an emerging material for optoelectronic applications. Journal of Materials Chemistry C, 2019, 7, 6820-6835.	5.5	225
108	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. Nature Energy, 2019, 4, 408-415.	39.5	831

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109	Designing a Perylene Diimide/Fullerene Hybrid as Effective Electron Transporting Material in Inverted Perovskite Solar Cells with Enhanced Efficiency and Stability. Angewandte Chemie, 2019, 131, 8608.	2.0	14
110	Designing a Perylene Diimide/Fullerene Hybrid as Effective Electron Transporting Material in Inverted Perovskite Solar Cells with Enhanced Efficiency and Stability. Angewandte Chemie - International Edition, 2019, 58, 8520-8525.	13.8	73
111	Efficient and Stable CsPbI₃ Solar Cells via Regulating Lattice Distortion with Surface Organic Terminal Groups. Advanced Materials, 2019, 31, e1900605.	21.0	209
112	Ultrabroad-band, red sufficient, solid white emission from carbon quantum dot aggregation for single component warm white light emitting diodes with a 91 high color rendering index. Chemical Communications, 2019, 55, 6531-6534.	4.1	62
113	Natrium Doping Pushes the Efficiency of Carbon-Based CsPbI3 Perovskite Solar Cells to 10.7%. IScience, 2019, 15, 156-164.	4.1	81
114	Electroluminescent Warm White Lightâ€Emitting Diodes Based on Passivation Enabled Bright Red Bandgap Emission Carbon Quantum Dots. Advanced Science, 2019, 6, 1900397.	11.2	174
115	Materials and structures for the electron transport layer of efficient and stable perovskite solar cells. Science China Chemistry, 2019, 62, 800-809.	8.2	59
116	Understanding the Diverse Coordination Modes of Thiocyanate Anion on Solid Surfaces. Journal of Physical Chemistry C, 2019, 123, 9282-9291.	3.1	10
117	Efficient Defect Passivation for Perovskite Solar Cells by Controlling the Electron Density Distribution of Donorâ€Ï€â€Acceptor Molecules. Advanced Energy Materials, 2019, 9, 1803766.	19.5	280
118	Solution-processed electron transport layer of n-doped fullerene for efficient and stable all carbon based perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 7710-7716.	10.3	29
119	3D Hierarchical Nanorod@Nanobowl Array Photoanode with a Tunable Lightâ€Trapping Cutoff and Bottomâ€Selective Field Enhancement for Efficient Solar Water Splitting. Small, 2019, 15, e1804976.	10.0	14
120	Zwitterion Coordination Induced Highly Orientational Order of CH₃NH₃PbI₃ Perovskite Film Delivers a High Open Circuit Voltage Exceeding 1.2 V. Advanced Functional Materials, 2019, 29, 1901026.	14.9	134
121	Water Splitting: 3D Hierarchical Nanorod@Nanobowl Array Photoanode with a Tunable Lightâ€Trapping Cutoff and Bottomâ€Selective Field Enhancement for Efficient Solar Water Splitting (Small 14/2019). Small, 2019, 15, 1970074.	10.0	0
122	Lowâ€Temperature In Situ Amino Functionalization of TiO₂ Nanoparticles Sharpens Electron Management Achieving over 21% Efficient Planar Perovskite Solar Cells. Advanced Materials, 2019, 31, e1806095.	21.0	194
123	Strain engineering in perovskite solar cells and its impacts on carrier dynamics. Nature Communications, 2019, 10, 815.	12.8	528
124	Spacer layer design for efficient fully printable mesoscopic perovskite solar cells. RSC Advances, 2019, 9, 29840-29846.	3.6	14
125	Suppressing the carrier concentration of zinc tin nitride thin films by excess zinc content and low temperature growth. Applied Physics Letters, 2019, 115, .	3.3	14
126	From One to Two: In Situ Construction of an Ultrathin 2D-2D Closely Bonded Heterojunction from a Single-Phase Monolayer Nanosheet. Journal of the American Chemical Society, 2019, 141, 19715-19727.	13.7	148

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127	HxMoO3âˆ’ynanobelts: an excellent alternative to carbon electrodes for high performance mesoscopic perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 1499-1508.	10.3	8
128	Excess Cesium Iodide Induces Spinodal Decomposition of CsPbI₂Br Perovskite Films. Journal of Physical Chemistry Letters, 2019, 10, 194-199.	4.6	69
129	An Ultrathin Ferroelectric Perovskite Oxide Layer for Highâ€Performance Hole Transport Material Free Carbon Based Halide Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1806506.	14.9	93
130	Ultrastable and Lowâ€Threshold Random Lasing from Narrowâ€Bandwidthâ€Emission Triangular Carbon Quantum Dots. Advanced Optical Materials, 2019, 7, 1801202.	7.3	67
131	Three-Dimensional Decoupling Co-Catalyst from a Photoabsorbing Semiconductor as a New Strategy To Boost Photoelectrochemical Water Splitting. Nano Letters, 2019, 19, 455-460.	9.1	52
132	Solution Grown Single-Unit-Cell Quantum Wires Affording Self-Powered Solar-Blind UV Photodetectors with Ultrahigh Selectivity and Sensitivity. Journal of the American Chemical Society, 2019, 141, 3480-3488.	13.7	44
133	Epitaxial Growth of Iron Tungstate Nanosheets on One-Dimensional Photoanodes for Efficient Solar Water Oxidation. ECS Meeting Abstracts, 2019, , .	0.0	0
134	Ultrasonic Spray Pyrolysis Deposition of NiO Thin Film for Efficient Perovskite Solar Cell. ECS Meeting Abstracts, 2019, , .	0.0	0
135	Versatility of Carbon Enables All Carbon Based Perovskite Solar Cells to Achieve High Efficiency and High Stability. Advanced Materials, 2018, 30, e1706975.	21.0	95
136	Ultrathin amorphous cobaltâ€“vanadium hydr(oxy)oxide catalysts for the oxygen evolution reaction. Energy and Environmental Science, 2018, 11, 1736-1741.	30.8	310
137	Inorganic Perovskite Solar Cells: A Rapidly Growing Field. Solar Rrl, 2018, 2, 1700188.	5.8	193
138	Lowâ€Temperature Solutionâ€Processed CuCrO₂ Holeâ€Transporting Layer for Efficient and Photostable Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702762.	19.5	137
139	Hydrogen evolution reactions boosted by bridge bonds between electrocatalysts and electrodes. Nanoscale, 2018, 10, 4068-4076.	5.6	10
140	Enhancing Full Water-Splitting Performance of Transition Metal Bifunctional Electrocatalysts in Alkaline Solutions by Tailoring CeO₂â€“Transition Metal Oxidesâ€“Ni Nanointerfaces. ACS Energy Letters, 2018, 3, 290-296.	17.4	152
141	The Flexibility of an Amorphous Cobalt Hydroxide Nanomaterial Promotes the Electrocatalysis of Oxygen Evolution Reaction. Small, 2018, 14, e1703514.	10.0	121
142	Nanotextured Spikes of Î±-Fe₂O₃/NiFe₂O₄Composite for Efficient Photoelectrochemical Oxidation of Water. Langmuir, 2018, 34, 3555-3564.	3.5	31
143	Exploratory Study of Zn_{<i>x</i>}PbO_{<i>y</i>} Photoelectrodes for Unassisted Overall Solar Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 10918-10926.	8.0	7
144	Interface Engineering for Highly Efficient and Stable Planar pâ€iâ€n Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1701883.	19.5	338

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145	(Keynote) One-Pot Synthesis of Manganese Oxides and Cobalt Phosphides Nanohybrids with Abundant Hetero-Interfaces in Amorphous Matrix for Efficient Hydrogen Evolution in Alkaline Solution. ECS Transactions, 2018, 88, 381-397.	0.5	0
146	Wurtzite CoO: a direct band gap oxide suitable for a photovoltaic absorber. Chemical Communications, 2018, 54, 13949-13952.	4.1	21
147	Effects of Metal Combinations on the Electrocatalytic Properties of Transition-Metal-Based Layered Double Hydroxides for Water Oxidation: A Perspective with Insights. ACS Omega, 2018, 3, 16529-16541.	3.5	42
148	Boosting the Photoelectrochemical Water Oxidation at Hematite Photoanode by Innovating a Hierarchical Ball-on-Wire-Array Structure. ACS Applied Energy Materials, 2018, 1, 5836-5841.	5.1	9
149	Sequential precipitation induced interdiffusion: a general strategy to synthesize microtubular materials for high performance lithium ion battery electrodes. Journal of Materials Chemistry A, 2018, 6, 18430-18437.	10.3	12
150	Efficient, Scalable, and Highâ€Temperature Selective Solar Absorbers Based on Hybridâ€Strategy Plasmonic Metamaterials. Solar Rrl, 2018, 2, 1800057.	5.8	48
151	Molecular design enabled reduction of interface trap density affords highly efficient and stable perovskite solar cells with over 83% fill factor. Nano Energy, 2018, 52, 300-306.	16.0	112
152	Efficient, Scalable, and Highâ€Temperature Selective Solar Absorbers Based on Hybridâ€Strategy Plasmonic Metamaterials (Solar RRL 8â^•2018). Solar Rrl, 2018, 2, 1870196.	5.8	7
153	Engineering triangular carbon quantum dots with unprecedented narrow bandwidth emission for multicolored LEDs. Nature Communications, 2018, 9, 2249.	12.8	676
154	Engineering Stepped Edge Surface Structures of MoS2 Sheet Stacks to Accelerate the Hydrogen Evolution Reaction. ECS Meeting Abstracts, 2018, , .	0.0	0
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156	Carbon quantum dots as a visible light sensitizer to significantly increase the solar water splitting performance of bismuth vanadate photoanodes. Energy and Environmental Science, 2017, 10, 772-779.	30.8	315
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