Shihe Yang

List of Publications by Year
in descending order

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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	CuO nanostructures: Synthesis, characterization, growth mechanisms, fundamental properties, and applications. Progress in Materials Science, 2014, 60, 208-337.	32.8	1,086
2	Design Hierarchical Electrodes with Highly Conductive NiCo₂S₄ Nanotube Arrays Grown on Carbon Fiber Paper for High-Performance Pseudocapacitors. Nano Letters, 2014, 14, 831-838.	9.1	1,045
3	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
4	A Strongly Coupled Graphene and FeNi Double Hydroxide Hybrid as an Excellent Electrocatalyst for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2014, 53, 7584-7588.	13.8	694
5	Efficiency Enhancement of Perovskite Solar Cells through Fast Electron Extraction: The Role of Graphene Quantum Dots. Journal of the American Chemical Society, 2014, 136, 3760-3763.	13.7	688
6	High-Rate, Ultralong Cycle-Life Lithium/Sulfur Batteries Enabled by Nitrogen-Doped Graphene. Nano Letters, 2014, 14, 4821-4827.	9.1	683
7	Engineering triangular carbon quantum dots with unprecedented narrow bandwidth emission for multicolored LEDs. Nature Communications, 2018, 9, 2249.	12.8	676
8	Facile synthesis of water-soluble, highly fluorescent graphene quantum dots as a robust biological label for stem cells. Journal of Materials Chemistry, 2012, 22, 7461.	6.7	667
9	Bright Multicolor Bandgap Fluorescent Carbon Quantum Dots for Electroluminescent LightâEmitting Diodes. Advanced Materials, 2017, 29, 1604436.	21.0	643
10	Space-Confined Growth of MoS₂ Nanosheets within Graphite: The Layered Hybrid of MoS₂ and Graphene as an Active Catalyst for Hydrogen Evolution Reaction. Chemistry of Materials, 2014, 26, 2344-2353.	6.7	634
11	Metallic Ironâ"Nickel Sulfide Ultrathin Nanosheets As a Highly Active Electrocatalyst for Hydrogen Evolution Reaction in Acidic Media. Journal of the American Chemical Society, 2015, 137, 11900-11903.	13.7	609
12	Hybrid Halide Perovskite Solar Cell Precursors: Colloidal Chemistry and Coordination Engineering behind Device Processing for High Efficiency. Journal of the American Chemical Society, 2015, 137, 4460-4468.	13.7	586
13	MoSe₂nanosheets and their graphene hybrids: synthesis, characterization and hydrogen evolution reaction studies. Journal of Materials Chemistry A, 2014, 2, 360-364.	10.3	564
14	Shining carbon dots: Synthesis and biomedical and optoelectronic applications. Nano Today, 2016, 11, 565-586.	11.9	563
15	53% Efficient Red Emissive Carbon Quantum Dots for High Color Rendering and Stable Warm Whiteâ€LightâEmitting Diodes. Advanced Materials, 2017, 29, 1702910.	21.0	563
16	The giant electrorheological effect in suspensions of nanoparticles. Nature Materials, 2003, 2, 727-730.	27.5	530
17	Strain engineering in perovskite solar cells and its impacts on carrier dynamics. Nature Communications, 2019, 10, 815.	12.8	528
18	Controlled Growth of Large-Area, Uniform, Vertically Aligned Arrays of Î±-Fe2O3Nanobelts and Nanowires. Journal of Physical Chemistry B, 2005, 109, 215-220.	2.6	506

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19	Facile Ultrasonic Synthesis of CoO Quantum Dot/Graphene Nanosheet Composites with High Lithium Storage Capacity. ACS Nano, 2012, 6, 1074-1081.	14.6	475
20	Transition metal based layered double hydroxides tailored for energy conversion and storage. Materials Today, 2016, 19, 213-226.	14.2	464
21	Highly monodisperse polymer-capped ZnO nanoparticles: Preparation and optical properties. Applied Physics Letters, 2000, 76, 2901-2903.	3.3	455
22	Non-precious-metal catalysts for alkaline water electrolysis: operando characterizations, theoretical calculations, and recent advances. Chemical Society Reviews, 2020, 49, 9154-9196.	38.1	448
23	Enhanced Efficiency and Stability of Inverted Perovskite Solar Cells Using Highly Crystalline SnO₂ Nanocrystals as the Robust Electronâ€Transporting Layer. Advanced Materials, 2016, 28, 6478-6484.	21.0	447
24	Nitrogenâ€Doped Co₃O₄ Mesoporous Nanowire Arrays as an Additiveâ€Free Airâ€Cathode for Flexible Solidâ€State Zincâ€“Air Batteries. Advanced Materials, 2017, 29, 1602868.	21.0	428
25	All-solid-state hybrid solar cells based on a new organometal halide perovskite sensitizer and one-dimensional TiO2 nanowire arrays. Nanoscale, 2013, 5, 3245.	5.6	401
26	Nanohybridization of MoS2 with Layered Double Hydroxides Efficiently Synergizes the Hydrogen Evolution in Alkaline Media. Joule, 2017, 1, 383-393.	24.0	386
27	Inkjet Printing and Instant Chemical Transformation of a CH₃NH₃PbI₃/Nanocarbon Electrode and Interface for Planar Perovskite Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 13239-13243.	13.8	370
28	Highâ€Performance Holeâ€Extraction Layer of Solâ€“Gelâ€Processed NiO Nanocrystals for Inverted Planar Perovskite Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 12571-12575.	13.8	355
29	Interface Engineering for Highly Efficient and Stable Planar pâ€inâ€n Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1701883.	19.5	338
30	Dimensional Engineering of a Graded 3Dâ€“2D Halide Perovskite Interface Enables Ultrahigh V_{oc} Enhanced Stability in the pâ€inâ€n Photovoltaics. Advanced Energy Materials, 2017, 7, 1701038.	19.5	319
31	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
32	Ultrathin amorphous cobaltâ€“vanadium hydr(oxy)oxide catalysts for the oxygen evolution reaction. Energy and Environmental Science, 2018, 11, 1736-1741.	30.8	310
33	Efficient Photoelectrochemical Water Splitting with Ultrathin films of Hematite on Three-Dimensional Nanophotonic Structures. Nano Letters, 2014, 14, 2123-2129.	9.1	307
34	Solvent Engineering Boosts the Efficiency of Paintable Carbonâ€Based Perovskite Solar Cells to Beyond 14%. Advanced Energy Materials, 2016, 6, 1502087.	19.5	306
35	Effects of a Molecular Monolayer Modification of NiO Nanocrystal Layer Surfaces on Perovskite Crystallization and Interface Contact toward Faster Hole Extraction and Higher Photovoltaic Performance. Advanced Functional Materials, 2016, 26, 2950-2958.	14.9	305
36	Enhancing photoelectrochemical water splitting by combining work function tuning and heterojunction engineering. Nature Communications, 2019, 10, 3687.	12.8	300

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37	Electrochemical synthesis of small-sized red fluorescent graphene quantum dots as a bioimaging platform. Chemical Communications, 2015, 51, 2544-2546.	4.1	297
38	Sequential crystallization of sea urchin-like bimetallic (Ni, Co) carbonate hydroxide and its morphology conserved conversion to porous NiCo2O4 spinel for pseudocapacitors. RSC Advances, 2011, 1, 588.	3.6	289
39	Room temperature growth of CuO nanorod arrays on copper and their application as a cathode in dye-sensitized solar cells. Materials Chemistry and Physics, 2005, 93, 35-40.	4.0	288
40	Coupling surface plasmon resonance of gold nanoparticles with slow-photon-effect of TiO2 photonic crystals for synergistically enhanced photoelectrochemical water splitting. Energy and Environmental Science, 2014, 7, 1409.	30.8	288
41	Engineering stepped edge surface structures of MoS₂sheet stacks to accelerate the hydrogen evolution reaction. Energy and Environmental Science, 2017, 10, 593-603.	30.8	284
42	Efficient Defect Passivation for Perovskite Solar Cells by Controlling the Electron Density Distribution of Donorâ€Ïâ€Acceptor Molecules. Advanced Energy Materials, 2019, 9, 1803766.	19.5	280
43	High performance supercapacitors based on highly conductive nitrogen-doped graphene sheets. Physical Chemistry Chemical Physics, 2011, 13, 12554.	2.8	273
44	Cost-efficient clamping solar cells using candle soot for hole extraction from ambipolar perovskites. Energy and Environmental Science, 2014, 7, 3326-3333.	30.8	272
45	High performance flexible solid-state asymmetric supercapacitors from MnO₂/ZnO coreâ€“shell nanorods//specially reduced graphene oxide. Journal of Materials Chemistry C, 2014, 2, 1331-1336.	5.5	266
46	Highly Stable and Efficient FASnI₃â€Based Perovskite Solar Cells by Introducing Hydrogen Bonding. Advanced Materials, 2019, 31, e1903721.	21.0	266
47	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. Nature Catalysis, 2021, 4, 212-222.	34.4	266
48	Synthesis and Characterization of Poly(vinylpyrrolidone)-Modified Zinc Oxide Nanoparticles. Chemistry of Materials, 2000, 12, 2268-2274.	6.7	262
49	Synthesis of Size-Tunable Anatase TiO₂ Nanospindles and Their Assembly into Anatase@Titanium Oxynitride/Titanium Nitrideâ^'Graphene Nanocomposites for Rechargeable Lithium Ion Batteries with High Cycling Performance. ACS Nano, 2010, 4, 6515-6526.	14.6	262
50	Carbonâ€Based Perovskite Solar Cells without Hole Transport Materials: The Front Runner to the Market?. Advanced Materials, 2017, 29, 1603994.	21.0	261
51	Synthesis of Cu(OH)2and CuO Nanoribbon Arrays on a Copper Surface. Langmuir, 2003, 19, 5898-5903.	3.5	233
52	Highâ€Performance Grapheneâ€Based Hole Conductorâ€Free Perovskite Solar Cells: Schottky Junction Enhanced Hole Extraction and Electron Blocking. Small, 2015, 11, 2269-2274.	10.0	233
53	Surrounding media sensitive photoluminescence of boron-doped graphene quantum dots for highly fluorescent dyed crystals, chemical sensing and bioimaging. Carbon, 2014, 70, 149-156.	10.3	232
54	Dualâ€Doped Molybdenum Trioxide Nanowires: A Bifunctional Anode for Fiberâ€Shaped Asymmetric Supercapacitors and Microbial Fuel Cells. Angewandte Chemie - International Edition, 2016, 55, 6762-6766.	13.8	230

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55	Fullyâ€Inorganic Trihalide Perovskite Nanocrystals: A New Research Frontier of Optoelectronic Materials. Advanced Materials, 2017, 29, 1700775.	21.0	230
56	Carbon quantum dots: an emerging material for optoelectronic applications. Journal of Materials Chemistry C, 2019, 7, 6820-6835.	5.5	225
57	Hysteresis-free multi-walled carbon nanotube-based perovskite solar cells with a high fill factor. Journal of Materials Chemistry A, 2015, 3, 24226-24231.	10.3	217
58	Dual Interfacial Modifications Enable High Performance Semitransparent Perovskite Solar Cells with Large Open Circuit Voltage and Fill Factor. Advanced Energy Materials, 2017, 7, 1602333.	19.5	209
59	Efficient and Stable CsPbI₃ Solar Cells via Regulating Lattice Distortion with Surface Organic Terminal Groups. Advanced Materials, 2019, 31, e1900605.	21.0	209
60	Surface-Controlled Oriented Growth of FASnI3 Crystals for Efficient Lead-free Perovskite Solar Cells. Joule, 2020, 4, 902-912.	24.0	208
61	A scalable electrodeposition route to the low-cost, versatile and controllable fabrication of perovskite solar cells. Nano Energy, 2015, 15, 216-226.	16.0	207
62	Atomically targeting NiFe LDH to create multivacancies for OER catalysis with a small organic anchor. Nano Energy, 2021, 81, 105606.	16.0	204
63	Controlled Reactions on a Copper Surface:â€‰ Synthesis and Characterization of Nanostructured Copper Compound Films. Inorganic Chemistry, 2003, 42, 5005-5014.	4.0	202
64	Co intake mediated formation of ultrathin nanosheets of transition metal LDHâ€”an advanced electrocatalyst for oxygen evolution reaction. Chemical Communications, 2015, 51, 1120-1123.	4.1	195
65	Bio-inspired synthesis of NaCl-type CoxNi1â^'xO (0 â‰ x < 1) nanorods on reduced graphene oxide sheets and screening for asymmetric electrochemical capacitors. Journal of Materials Chemistry, 2012, 22, 12253.	6.7	194
66	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
67	Inorganic Perovskite Solar Cells: A Rapidly Growing Field. Solar Rrl, 2018, 2, 1700188.	5.8	193
68	Solution Phase Synthesis of Cu(OH)2Nanoribbons by Coordination Self-Assembly Using Cu2S Nanowires as Precursors. Nano Letters, 2002, 2, 1397-1401.	9.1	192
69	High performance inverted structure perovskite solar cells based on a PCBM:polystyrene blend electron transport layer. Journal of Materials Chemistry A, 2015, 3, 9098-9102.	10.3	192
70	Field emission from crystalline copper sulphide nanowire arrays. Applied Physics Letters, 2002, 80, 3620-3622.	3.3	191
71	Multicolor fluorescent graphene quantum dots colorimetrically responsive to all-pH and a wide temperature range. Nanoscale, 2015, 7, 11727-11733.	5.6	187
72	A novel nanostructured spinel ZnCo2O4 electrode material: morphology conserved transformation from a hexagonal shaped nanodisk precursor and application in lithium ion batteries. Journal of Materials Chemistry, 2010, 20, 4439.	6.7	185

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73	Boron Doping of Multiwalled Carbon Nanotubes Significantly Enhances Hole Extraction in Carbon-Based Perovskite Solar Cells. Nano Letters, 2017, 17, 2496-2505.	9.1	184
74	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
75	Polyfluorene Derivatives are Highâ€Performance Organic Holeâ€Transporting Materials for Inorganicâ^'Organic Hybrid Perovskite Solar Cells. Advanced Functional Materials, 2014, 24, 7357-7365.	14.9	172
76	Iron-doping-enhanced photoelectrochemical water splitting performance of nanostructured WO₃: a combined experimental and theoretical study. Nanoscale, 2015, 7, 2933-2940.	5.6	171
77	Nanowires of Î±- and Î²-Bi₂O₃: phase-selective synthesis and application in photocatalysis. CrystEngComm, 2011, 13, 1843-1850.	2.6	169
78	Understanding the relationship between ion migration and the anomalous hysteresis in high-efficiency perovskite solar cells: A fresh perspective from halide substitution. Nano Energy, 2016, 26, 620-630.	16.0	167
79	Exceptionally High Payload of the IR780 Iodide on Folic Acid-Functionalized Graphene Quantum Dots for Targeted Photothermal Therapy. ACS Applied Materials & Interfaces, 2017, 9, 22332-22341.	8.0	167
80	Graded 2D/3D Perovskite Heterostructure for Efficient and Operationally Stable MAâ€Free Perovskite Solar Cells. Advanced Materials, 2020, 32, e2000571.	21.0	166
81	Temperature dependence of field emission from cupric oxide nanobelt films. Applied Physics Letters, 2003, 83, 746-748.	3.3	165
82	Templated growth of FASnI₃ crystals for efficient tin perovskite solar cells. Energy and Environmental Science, 2020, 13, 2896-2902.	30.8	165
83	Efficient and stable tin-based perovskite solar cells by introducing Ï€-conjugated Lewis base. Science China Chemistry, 2020, 63, 107-115.	8.2	160
84	Profiling the organic cation-dependent degradation of organolead halide perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 1103-1111.	10.3	155
85	Recent progress in the development of anodes for asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 4634-4658.	10.3	154
86	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
87	A pure and stable intermediate phase is key to growing aligned and vertically monolithic perovskite crystals for efficient PIN planar perovskite solar cells with high processibility and stability. Nano Energy, 2017, 34, 58-68.	16.0	151
88	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
89	A double layered photoanode made of highly crystalline TiO2 nanooctahedra and agglutinated mesoporous TiO2 microspheres for high efficiency dye sensitized solar cells. Energy and Environmental Science, 2011, 4, 2168.	30.8	146
90	Efficient and stable tin perovskite solar cells enabled by amorphous-polycrystalline structure. Nature Communications, 2020, 11, 2678.	12.8	143

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91	Hydrogen evolution electrocatalysis with binary-nonmetal transition metal compounds. Journal of Materials Chemistry A, 2017, 5, 5995-6012.	10.3	142
92	Facile hydrothermal preparation of hierarchically assembled, porous single-crystalline ZnO nanoplates and their application in dye-sensitized solar cells. Journal of Materials Chemistry, 2010, 20, 1001-1006.	6.7	137
93	Lowâ€Temperature Solutionâ€Processed CuCrO₂ Holeâ€Transporting Layer for Efficient and Photostable Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1702762.	19.5	137
94	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
95	Ion Migration: A â€œDoubleâ€Edged Swordâ€•for Halideâ€Perovskiteâ€Based Electronic Devices. Small Methods, 2020, 4, 1900552.	8.6	127
96	Poly(N-vinylcarbazole) (PVK) Photoconductivity Enhancement Induced by Doping with CdS Nanocrystals through Chemical Hybridization. Journal of Physical Chemistry B, 2000, 104, 11853-11858.	2.6	123
97	Dihydronaphthyl-based [60]fullerene bisadducts for efficient and stable polymer solar cells. Chemical Communications, 2012, 48, 425-427.	4.1	122
98	The Flexibility of an Amorphous Cobalt Hydroxide Nanomaterial Promotes the Electrocatalysis of Oxygen Evolution Reaction. Small, 2018, 14, e1703514.	10.0	121
99	ZnO Nanobelt Arrays Grown Directly from and on Zinc Substrates:Â Synthesis, Characterization, and Applications. Journal of Physical Chemistry B, 2005, 109, 15303-15308.	2.6	117
100	A composite material of uniformly dispersed sulfur on reduced graphene oxide: Aqueous one-pot synthesis, characterization and excellent performance as the cathode in rechargeable lithium-sulfur batteries. Nano Research, 2012, 5, 726-738.	10.4	116
101	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
102	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
103	CdSe Nano-tetrapods:â€‰ Controllable Synthesis, Structure Analysis, and Electronic and Optical Properties. Chemistry of Materials, 2005, 17, 5263-5267.	6.7	114
104	Controlled p- and n-type doping of Fe2O3 nanobelt field effect transistors. Applied Physics Letters, 2005, 87, 013113.	3.3	114
105	Defect-Rich NiCeO_x Electrocatalyst with Ultrahigh Stability and Low Overpotential for Water Oxidation. ACS Catalysis, 2019, 9, 1605-1611.	11.2	113
106	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
107	Synthesis and Characterization of Uniform Arrays of Copper Sulfide Nanorods Coated with Nanolayers of Polypyrrole. Langmuir, 2003, 19, 4420-4426.	3.5	110
108	Formation of FeOOH Nanosheets Induces Substitutional Doping of CeO_{2â^’}_x with Highâ€Valence Ni for Efficient Water Oxidation. Advanced Energy Materials, 2021, 11, 2002731.	19.5	110

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109	Selfâ€Driven Perovskite Narrowband Photodetectors with Tunable Spectral Responses. Advanced Materials, 2021, 33, e2005557.	21.0	109
110	Unveiling a Key Intermediate in Solvent Vapor Postannealing to Enlarge Crystalline Domains of Organometal Halide Perovskite Films. Advanced Functional Materials, 2017, 27, 1604944.	14.9	107
111	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
112	A Quasi-Quantum Well Sensitized Solar Cell with Accelerated Charge Separation and Collection. Journal of the American Chemical Society, 2013, 135, 9531-9539.	13.7	105
113	Highly Efficient and Thermally Stable Polymer Solar Cells with Dihydronaphthylâ€Based [70]Fullerene Bisadduct Derivative as the Acceptor. Advanced Functional Materials, 2012, 22, 2187-2193.	14.9	104
114	Effects of Fullerene Bisadduct Regioisomers on Photovoltaic Performance. Advanced Functional Materials, 2014, 24, 158-163.	14.9	104
115	A three-dimensional hexagonal fluorine-doped tin oxide nanocone array: a superior light harvesting electrode for high performance photoelectrochemical water splitting. Energy and Environmental Science, 2014, 7, 3651-3658.	30.8	103
116	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
117	Interfacial effects in hierarchically porous Î±-MnO2/Mn3O4 heterostructures promote photocatalytic oxidation activity. Applied Catalysis B: Environmental, 2020, 268, 118418.	20.2	100
118	A prenucleation strategy for ambient fabrication of perovskite solar cells with high device performance uniformity. Nature Communications, 2020, 11, 1006.	12.8	98
119	Recent advances in white light-emitting diodes of carbon quantum dots. Nanoscale, 2020, 12, 4826-4832.	5.6	98
120	In Situ Fabrication of Inorganic Nanowire Arrays Grown from and Aligned on Metal Substrates. Accounts of Chemical Research, 2009, 42, 1617-1627.	15.6	95
121	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
122	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
123	Antipulverization Electrode Based on Lowâ€Carbon Tripleâ€Shelled Superstructures for Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1701494.	21.0	92
124	Electrochemical route to the preparation of highly dispersed composites of ZnO/carbon nanotubes with significantly enhanced electrochemiluminescence from ZnO. Journal of Materials Chemistry, 2008, 18, 4964.	6.7	90
125	A General and Mild Approach to Controllable Preparation of Manganeseâ€Based Microâ€and Nanostructured Bars for High Performance Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 3667-3671.	13.8	89
126	Designing nanobowl arrays of mesoporous TiO₂as an alternative electron transporting layer for carbon cathode-based perovskite solar cells. Nanoscale, 2016, 8, 6393-6402.	5.6	89

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127	Reactions of Alkaline Earth Metal Ions with Methanol Clusters. Journal of Physical Chemistry A, 1998, 102, 825-840.	2.5	87
128	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
129	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
130	Thermal oxidation of Cu2S nanowires: A template method for the fabrication of mesoscopic CuxO (xâ€‰=â€‰1,2) wires. Physical Chemistry Chemical Physics, 2002, 4, 3425-3429.	2.8	84
131	Additive-Mediated Splitting of Lanthanide Orthovanadate Nanocrystals in Water: Morphological Evolution from Rods to Sheaves and to Spherulites. Crystal Growth and Design, 2008, 8, 4432-4439.	3.0	84
132	Halide perovskites: A dark horse for direct Xâ€ray imaging. EcoMat, 2020, 2, e12064.	11.9	84
133	Mesoporous SnO₂ single crystals as an effective electron collector for perovskite solar cells. Physical Chemistry Chemical Physics, 2015, 17, 18265-18268.	2.8	82
134	Ultrasound-spray deposition of multi-walled carbon nanotubes on NiO nanoparticles-embedded perovskite layers for high-performance carbon-based perovskite solar cells. Nano Energy, 2017, 42, 322-333.	16.0	82
135	Natrium Doping Pushes the Efficiency of Carbon-Based CsPbI3 Perovskite Solar Cells to 10.7%. IScience, 2019, 15, 156-164.	4.1	81
136	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
137	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
138	Growth of novel nanostructured copper oxide (CuO) films on copper foil. Journal of Crystal Growth, 2006, 291, 479-484.	1.5	79
139	Morphologyâ€Conserved Transformations of Metalâ€Based Precursors to Hierarchically Porous Microâ€/Nanostructures for Electrochemical Energy Conversion and Storage. Advanced Materials, 2017, 29, 1607015.	21.0	79
140	Synthesis of Angstrom-Scale Anatase Titania Atomic Wires. ACS Nano, 2009, 3, 1025-1031.	14.6	78
141	A multifunctional C + epoxy/Ag-paint cathode enables efficient and stable operation of perovskite solar cells in watery environments. Journal of Materials Chemistry A, 2015, 3, 16430-16434.	10.3	77
142	Co(II)_{1â€“x}Co(0)_{x/3}Mn(III)_{2x/3}S Nanoparticles Supported on B/N-Codoped Mesoporous Nanocarbon as a Bifunctional Electrocatalyst of Oxygen Reduction/Evolution for High-Performance Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13348-13359.	8.0	77
143	An amorphous precursor route to the conformable oriented crystallization of CH₃NH₃PbBr₃in mesoporous scaffolds: toward efficient and thermally stable carbon-based perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 12897-12912.	10.3	77
144	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

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145	Optically Stimulated Luminescence Phosphors: Principles, Applications, and Prospects. Laser and Photonics Reviews, 2020, 14, 2000123.	8.7	73
146	Designing new fullerene derivatives as electron transporting materials for efficient perovskite solar cells with improved moisture resistance. Nano Energy, 2016, 30, 341-346.	16.0	72
147	From cylindrical-channel mesoporous silica to vesicle-like silica with well-defined multilamella shells and large inter-shell mesopores. Journal of Materials Chemistry, 2007, 17, 2839.	6.7	71
148	Origin of the Different Photoelectrochemical Performance of Mesoporous BiVO₄ Photoanodes between the BiVO₄ and the FTO Side Illumination. Journal of Physical Chemistry C, 2015, 119, 23350-23357.	3.1	70
149	Dualâ€Doped Molybdenum Trioxide Nanowires: A Bifunctional Anode for Fiberâ€Shaped Asymmetric Supercapacitors and Microbial Fuel Cells. Angewandte Chemie, 2016, 128, 6874-6878.	2.0	70
150	Excess Cesium Iodide Induces Spinodal Decomposition of CsPbI₂Br Perovskite Films. Journal of Physical Chemistry Letters, 2019, 10, 194-199.	4.6	69
151	Magnetic Properties of Heavy Rare-Earth Metallofullerenes M@C82 (M = Gd, Tb, Dy, Ho, and Er). Journal of Physical Chemistry B, 2000, 104, 1473-1482.	2.6	68
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