

Zhichuan J Xu

List of Publications by Year in descending order

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371
papers

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docs citations

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times ranked

41966
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on fundamentals for designing oxygen evolution electrocatalysts. <i>Chemical Society Reviews</i> , 2020, 49, 2196-2214.	18.7	1,466
2	Synthesis, Functionalization, and Biomedical Applications of Multifunctional Magnetic Nanoparticles. <i>Advanced Materials</i> , 2010, 22, 2729-2742.	11.1	1,260
3	Platinum-Gold Nanoparticles: A Highly Active Bifunctional Electrocatalyst for Rechargeable Lithium-Air Batteries. <i>Journal of the American Chemical Society</i> , 2010, 132, 12170-12171.	6.6	1,171
4	Chemical and structural origin of lattice oxygen oxidation in Co-Zn oxyhydroxide oxygen evolution electrocatalysts. <i>Nature Energy</i> , 2019, 4, 329-338.	19.8	977
5	Magnetic Core/Shell Fe ₃ O ₄ /Au and Fe ₃ O ₄ /Au/Ag Nanoparticles with Tunable Plasmonic Properties. <i>Journal of the American Chemical Society</i> , 2007, 129, 8698-8699.	6.6	853
6	Recommended Practices and Benchmark Activity for Hydrogen and Oxygen Electrocatalysis in Water Splitting and Fuel Cells. <i>Advanced Materials</i> , 2019, 31, e1806296.	11.1	841
7	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. <i>Nature Energy</i> , 2019, 4, 408-415.	19.8	831
8	A Eu ³⁺ -Eu ²⁺ ion redox shuttle imparts operational durability to Pb-I perovskite solar cells. <i>Science</i> , 2019, 363, 265-270.	6.0	793
9	Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2014, 4, 1693-1705.	5.5	769
10	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	7.3	705
11	A Voltage-Boosting Strategy Enabling a Low-Frequency, Flexible Electromagnetic Wave Absorption Device. <i>Advanced Materials</i> , 2018, 30, e1706343.	11.1	691
12	Iron-facilitated dynamic active-site generation on spinel CoAl ₂ O ₄ with self-termination of surface reconstruction for water oxidation. <i>Nature Catalysis</i> , 2019, 2, 763-772.	16.1	678
13	Recent progress in layered transition metal carbides and/or nitrides (MXenes) and their composites: synthesis and applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3039-3068.	5.2	625
14	Black Phosphorus Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3653-3657.	7.2	594
15	Cations in Octahedral Sites: A Descriptor for Oxygen Electrocatalysis on Transition-Metal Spinels. <i>Advanced Materials</i> , 2017, 29, 1606800.	11.1	525
16	Oleylamine as Both Reducing Agent and Stabilizer in a Facile Synthesis of Magnetite Nanoparticles. <i>Chemistry of Materials</i> , 2009, 21, 1778-1780.	3.2	503
17	Enhancing the Stability of CH ₃ NH ₃ PbBr ₃ Quantum Dots by Embedding in Silica Spheres Derived from Tetramethyl Orthosilicate in Waterless-Toluene. <i>Journal of the American Chemical Society</i> , 2016, 138, 5749-5752.	6.6	501
18	A Review on Design Strategies for Carbon Based Metal Oxides and Sulfides Nanocomposites for High Performance Li and Na Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2017, 7, 1601424.	10.2	486

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19	Approaches for measuring the surface areas of metal oxide electrocatalysts for determining their intrinsic electrocatalytic activity. <i>Chemical Society Reviews</i> , 2019, 48, 2518-2534.	18.7	483
20	Defect Engineering in Two Common Types of Dielectric Materials for Electromagnetic Absorption Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1901236.	7.8	469
21	Biomass-Derived Porous Carbon-Based Nanostructures for Microwave Absorption. <i>Nano-Micro Letters</i> , 2019, 11, 24.	14.4	421
22	Recent developments in electrode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9353-9378.	5.2	413
23	Heterostructured Electrocatalysts for Hydrogen Evolution Reaction Under Alkaline Conditions. <i>Nano-Micro Letters</i> , 2018, 10, 75.	14.4	412
24	Formation of Uniform Fe ₃ O ₄ Hollow Spheres Organized by Ultrathin Nanosheets and Their Excellent Lithium Storage Properties. <i>Advanced Materials</i> , 2015, 27, 4097-4101.	11.1	396
25	Recent Development of Oxygen Evolution Electrocatalysts in Acidic Environment. <i>Advanced Materials</i> , 2021, 33, e2006328.	11.1	392
26	Conversion of invisible metal-organic frameworks to luminescent perovskite nanocrystals for confidential information encryption and decryption. <i>Nature Communications</i> , 2017, 8, 1138.	5.8	374
27	Encapsulating MWNTs into Hollow Porous Carbon Nanotubes: A Tube-in-Tube Carbon Nanostructure for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2014, 26, 5113-5118.	11.1	360
28	Highly Luminescent and Ultrastable CsPbBr ₃ Perovskite Quantum Dots Incorporated into a Silica/Alumina Monolith. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8134-8138.	7.2	355
29	Enlarged Co ²⁺ O Covalency in Octahedral Sites Leading to Highly Efficient Spinel Oxides for Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2018, 30, e1802912.	11.1	338
30	One-Pot Synthesis of Highly Anisotropic Five-Fold-Twinned PtCu Nanoframes Used as a Bifunctional Electrocatalyst for Oxygen Reduction and Methanol Oxidation. <i>Advanced Materials</i> , 2016, 28, 8712-8717.	11.1	336
31	Exploration of Crystallization Kinetics in Quasi Two-Dimensional Perovskite and High Performance Solar Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 459-465.	6.6	327
32	Chemical Reduction of Intrinsic Defects in Thicker Heterojunction Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1606774.	11.1	318
33	Morphology Evolution and Degradation of CsPbBr ₃ Nanocrystals under Blue Light-Emitting Diode Illumination. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7249-7258.	4.0	314
34	Strategies for design of electrocatalysts for hydrogen evolution under alkaline conditions. <i>Materials Today</i> , 2020, 36, 125-138.	8.3	308
35	A brief introduction to the fabrication and synthesis of graphene based composites for the realization of electromagnetic absorbing materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 491-512.	2.7	305
36	Well-dispersed single-walled carbon nanotube/polyaniline composite films. <i>Carbon</i> , 2003, 41, 2731-2736.	5.4	302

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37	Interface Polarization Strategy to Solve Electromagnetic Wave Interference Issue. ACS Applied Materials & Interfaces, 2017, 9, 5660-5668.	4.0	300
38	A Flexible Microwave Shield with Tunable Frequency Transmission and Electromagnetic Compatibility. Advanced Functional Materials, 2019, 29, 1900163.	7.8	299
39	Tunneling Diode Based on WSe_2/SnS_2 Heterostructure Incorporating High Detectivity and Responsivity. Advanced Materials, 2018, 30, 1703286.	11.1	293
40	Interface Strategy To Achieve Tunable High Frequency Attenuation. ACS Applied Materials & Interfaces, 2016, 8, 6529-6538.	4.0	285
41	Covalency competition dominates the water oxidation structure-activity relationship on spinel oxides. Nature Catalysis, 2020, 3, 554-563.	16.1	284
42	Controlled Synthesis and Chemical Conversions of FeO Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 6329-6332.	7.2	266
43	Surface Composition Tuning of Au-Pt Bimetallic Nanoparticles for Enhanced Carbon Monoxide and Methanol Electro-oxidation. Journal of the American Chemical Society, 2013, 135, 7985-7991.	6.6	266
44	Suppression of temperature quenching in perovskite nanocrystals for efficient and thermally stable light-emitting diodes. Nature Photonics, 2021, 15, 379-385.	15.6	260
45	Impact of Surface Area in Evaluation of Catalyst Activity. Joule, 2018, 2, 1024-1027.	11.7	258
46	Ultrathin Graphdiyne Nanosheets Grown In-Situ on Copper Nanowires and Their Performance as Lithium-Ion Battery Anodes. Angewandte Chemie - International Edition, 2018, 57, 774-778.	7.2	257
47	Vertically oriented MoS_2 and WS_2 nanosheets directly grown on carbon cloth as efficient and stable 3-dimensional hydrogen-evolving cathodes. Journal of Materials Chemistry A, 2015, 3, 131-135.	5.2	254
48	Tailoring the Co 3d-O 2p Covalency in $LaCoO_3$ by Fe Substitution To Promote Oxygen Evolution Reaction. Chemistry of Materials, 2017, 29, 10534-10541.	3.2	254
49	Exceptionally active iridium evolved from a pseudo-cubic perovskite for oxygen evolution in acid. Nature Communications, 2019, 10, 572.	5.8	254
50	Recent progress in metal-organic polymers as promising electrodes for lithium/sodium rechargeable batteries. Journal of Materials Chemistry A, 2019, 7, 4259-4290.	5.2	249
51	Emerging in-plane anisotropic two-dimensional materials. Informa-Materially, 2019, 1, 54-73.	8.5	247
52	Fe/N/C hollow nanospheres by Fe(III)-dopamine complexation-assisted one-pot doping as nonprecious-metal electrocatalysts for oxygen reduction. Nanoscale, 2015, 7, 1501-1509.	2.8	242
53	Spin-polarized oxygen evolution reaction under magnetic field. Nature Communications, 2021, 12, 2608.	5.8	242
54	Spin-Related Electron Transfer and Orbital Interactions in Oxygen Electrocatalysis. Advanced Materials, 2020, 32, e2003297.	11.1	240

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55	Hydrogenation Driven Conductive $\text{Na}_2\text{Ti}_3\text{O}_7$ Nanoarrays as Robust Binder-Free Anodes for Sodium-Ion Batteries. <i>Nano Letters</i> , 2016, 16, 4544-4551.	4.5	235
56	A Flexible and Lightweight Biomass-Reinforced Microwave Absorber. <i>Nano-Micro Letters</i> , 2020, 12, 125.	14.4	234
57	Surface Composition Dependent Ligand Effect in Tuning the Activity of Nickel-Copper Bimetallic Electrocatalysts toward Hydrogen Evolution in Alkaline. <i>Journal of the American Chemical Society</i> , 2020, 142, 7765-7775.	6.6	234
58	Core/Shell Nanoparticles as Electrocatalysts for Fuel Cell Reactions. <i>Advanced Materials</i> , 2008, 20, 4342-4347.	11.1	231
59	Electrical promotion of spatially photoinduced charge separation via interfacial-built-in quasi-alloying effect in hierarchical $\text{Zn}_2\text{In}_2\text{S}_5/\text{Ti}_3\text{C}_2(\text{O}, \text{OH})_x$ hybrids toward efficient photocatalytic hydrogen evolution and environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 290-301.	10.8	229
60	Shifting Oxygen Charge Towards Octahedral Metal: A Way to Promote Water Oxidation on Cobalt Spinel Oxides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6042-6047.	7.2	226
61	Highly Ordered Self-Assembly with Large Area of Fe_3O_4 Nanoparticles and the Magnetic Properties. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23233-23236.	1.2	225
62	Superior Sodium Storage in $\text{Na}_2\text{Ti}_3\text{O}_7$ Nanotube Arrays through Surface Engineering. <i>Advanced Energy Materials</i> , 2016, 6, 1502568.	10.2	219
63	2D GeP: An Unexploited Low-Symmetry Semiconductor with Strong In-Plane Anisotropy. <i>Advanced Materials</i> , 2018, 30, e1706771.	11.1	219
64	Mastering Surface Reconstruction of Metastable Spinel Oxides for Better Water Oxidation. <i>Advanced Materials</i> , 2019, 31, e1807898.	11.1	215
65	Surface Segregation in Bimetallic Nanoparticles: A Critical Issue in Electrocatalyst Engineering. <i>Small</i> , 2015, 11, 3221-3246.	5.2	208
66	High-Rate and Ultralong Cycle-Life Potassium Ion Batteries Enabled by In Situ Engineering of Yolk-Shell $\text{FeS}_2@\text{C}$ Structure on Graphene Matrix. <i>Advanced Energy Materials</i> , 2018, 8, 1802565.	10.2	207
67	Boosting Sodium Storage in TiO_2 Nanotube Arrays through Surface Phosphorylation. <i>Advanced Materials</i> , 2018, 30, 1704337.	11.1	201
68	Significance of Engineering the Octahedral Units to Promote the Oxygen Evolution Reaction of Spinel Oxides. <i>Advanced Materials</i> , 2019, 31, e1902509.	11.1	201
69	Boosting Electrochemical CO_2 Reduction on Metal-Organic Frameworks via Ligand Doping. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4041-4045.	7.2	199
70	Toward a High-Performance All-Plastic Full Battery with a Single Organic Polymer as Both Cathode and Anode. <i>Advanced Energy Materials</i> , 2018, 8, 1703509.	10.2	189
71	Manipulation of facet orientation in hybrid perovskite polycrystalline films by cation cascade. <i>Nature Communications</i> , 2018, 9, 2793.	5.8	189
72	Recent Progress on 2D Noble-Transition-Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019, 29, 1904932.	7.8	186

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73	Spin pinning effect to reconstructed oxyhydroxide layer on ferromagnetic oxides for enhanced water oxidation. <i>Nature Communications</i> , 2021, 12, 3634.	5.8	186
74	Linking Hydrophilic Macromolecules to Monodisperse Magnetite (Fe ₃ O ₄) Nanoparticles via Trichloro-s-triazine. <i>Chemistry of Materials</i> , 2006, 18, 5401-5403.	3.2	185
75	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. <i>Nature Communications</i> , 2019, 10, 1112.	5.8	185
76	Ceramic-like stable CsPbBr ₃ nanocrystals encapsulated in silica derived from molecular sieve templates. <i>Nature Communications</i> , 2020, 11, 31.	5.8	185
77	Graphitic C ₃ N ₄ modified by Ni ₂ P cocatalyst: An efficient, robust and low cost photocatalyst for visible-light-driven H ₂ evolution from water. <i>Chemical Engineering Journal</i> , 2017, 315, 296-303.	6.6	184
78	In Situ X-ray Absorption Spectroscopy Studies of Nanoscale Electrocatalysts. <i>Nano-Micro Letters</i> , 2019, 11, 47.	14.4	181
79	Magnetic Biochar Decorated with ZnS Nanocrystals for Pb (II) Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 125-132.	3.2	180
80	The Comprehensive Understanding of as an Evaluation Parameter for Electrochemical Water Splitting. <i>Small Methods</i> , 2018, 2, 1800168.	4.6	180
81	Few-layered PtS ₂ Phototransistor on h-BN with High Gain. <i>Advanced Functional Materials</i> , 2017, 27, 1701011.	7.8	176
82	Nanoengineered PtCo and PtNi Catalysts for Oxygen Reduction Reaction: An Assessment of the Structural and Electrocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1682-1694.	1.5	173
83	An Air-Stable Densely Packed Phosphorene-Graphene Composite Toward Advanced Lithium Storage Properties. <i>Advanced Energy Materials</i> , 2016, 6, 1600453.	10.2	167
84	Zinc ions surface-doped titanium dioxide nanotubes and its photocatalysis activity for degradation of methyl orange in water. <i>Journal of Molecular Catalysis A</i> , 2005, 226, 123-127.	4.8	160
85	Solution-processed nitrogen-rich graphene-like holey conjugated polymer for efficient lithium ion storage. <i>Nano Energy</i> , 2017, 41, 117-127.	8.2	159
86	Two-Dimensional (2D) Covalent Organic Framework as Efficient Cathode for Binder-free Lithium-ion Battery. <i>ChemSusChem</i> , 2020, 13, 2457-2463.	3.6	159
87	A Facile Synthesis of SmCo ₅ Magnets from Core/Shell Co/Sm ₂ O ₃ Nanoparticles. <i>Advanced Materials</i> , 2007, 19, 3349-3352.	11.1	157
88	Compositional dependence of the stability of AuCu alloy nanoparticles. <i>Chemical Communications</i> , 2012, 48, 5626.	2.2	153
89	Highly Luminescent and Ultrastable CsPbBr ₃ Perovskite Quantum Dots Incorporated into a Silica/Alumina Monolith. <i>Angewandte Chemie</i> , 2017, 129, 8246-8250.	1.6	153
90	The intrinsic properties of FA _{1-x} MA _x Pb ₃ perovskite single crystals. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8537-8544.	5.2	152

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91	Tuning of lattice oxygen reactivity and scaling relation to construct better oxygen evolution electrocatalyst. <i>Nature Communications</i> , 2021, 12, 3992.	5.8	151
92	Achieving tunable electromagnetic absorber via graphene/carbon sphere composites. <i>Carbon</i> , 2016, 110, 130-137.	5.4	149
93	Submillimeter 2D Bi ₂ Se ₃ Flakes toward High-Performance Infrared Photodetection at Optical Communication Wavelength. <i>Advanced Functional Materials</i> , 2018, 28, 1802707.	7.8	149
94	Engineering High-Spin State Cobalt Cations in Spinel Zinc Cobalt Oxide for Spin Channel Propagation and Active Site Enhancement in Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14536-14544.	7.2	149
95	Unconventional Mn Vacancies in Mn-Fe Prussian Blue Analogs: Suppressing Jahn-Teller Distortion for Ultrastable Sodium Storage. <i>CheM</i> , 2020, 6, 1804-1818.	5.8	148
96	Titanium dioxide doped polyaniline. <i>Materials Science and Engineering C</i> , 2005, 25, 444-447.	3.8	147
97	Magnetic iron oxide nanoparticles: Synthesis and surface coating techniques for biomedical applications. <i>Chinese Physics B</i> , 2014, 23, 037503.	0.7	145
98	Integrated multifunctional macrostructures for electromagnetic wave absorption and shielding. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24368-24387.	5.2	145
99	Fuel cell technology: nano-engineered multimetallic catalysts. <i>Energy and Environmental Science</i> , 2008, 1, 454.	15.6	144
100	A novel method for the sequential removal and separation of multiple heavy metals from wastewater. <i>Journal of Hazardous Materials</i> , 2018, 342, 617-624.	6.5	143
101	Superexchange Effects on Oxygen Reduction Activity of Edge-Sharing [Co _x Mn _{1-x} O ₆] Octahedra in Spinel Oxide. <i>Advanced Materials</i> , 2018, 30, 1705407.	11.1	142
102	One-pot synthesis of Fe ₃ O ₄ nanoprisms with controlled electrochemical properties. <i>Chemical Communications</i> , 2010, 46, 3920.	2.2	140
103	Highly In-Plane Anisotropic 2D GeAs ₂ for Polarization-Sensitive Photodetection. <i>Advanced Materials</i> , 2018, 30, e1804541.	11.1	140
104	The Progress of Interface Design in Perovskite-Based Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600460.	10.2	139
105	Redox Processes of Manganese Oxide in Catalyzing Oxygen Evolution and Reduction: An <i>in Situ</i> Soft X-ray Absorption Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17682-17692.	1.5	138
106	Novel Preparation of Na-Doped SnO ₂ Nanoparticles via Laser-Assisted Pyrolysis: Demonstration of Exceptional Lithium Storage Properties. <i>Advanced Materials</i> , 2017, 29, 1603286.	11.1	132
107	Bioinspired Multifunctional Vanadium Dioxide: Improved Thermochromism and Hydrophobicity. <i>Langmuir</i> , 2014, 30, 10766-10771.	1.6	131
108	Anodic Oxidation Enabled Cation Leaching for Promoting Surface Reconstruction in Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7418-7425.	7.2	130

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109	Electrochemical production of lactic acid from glycerol oxidation catalyzed by AuPt nanoparticles. <i>Journal of Catalysis</i> , 2017, 356, 14-21.	3.1	128
110	Stabilizing Interface pH by Na ⁺ -Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	124
111	Highly Reversible and Durable Na Storage in Niobium Pentoxide through Optimizing Structure, Composition, and Nanoarchitecture. <i>Advanced Materials</i> , 2017, 29, 1605607.	11.1	122
112	Constructing an Adaptive Heterojunction as a Highly Active Catalyst for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e2001292.	11.1	122
113	CsI Pre-Intercalation in the Inorganic Framework for Efficient and Stable FA _x Cs _x /PbI ₃ (CI) Perovskite Solar Cells. <i>Small</i> , 2017, 13, 1700484.	5.2	121
114	Effect of High Dipole Moment Cation on Layered 2D Organic-Inorganic Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803024.	10.2	117
115	Strong In-Plane Anisotropies of Optical and Electrical Response in Layered Dimetal Chalcogenide. <i>ACS Nano</i> , 2017, 11, 10264-10272.	7.3	116
116	Three-dimensional skeleton networks of graphene wrapped polyaniline nanofibers: an excellent structure for high-performance flexible solid-state supercapacitors. <i>Scientific Reports</i> , 2016, 6, 19777.	1.6	115
117	Ultrathin nickel oxide nanosheets for enhanced sodium and lithium storage. <i>Journal of Power Sources</i> , 2015, 274, 755-761.	4.0	114
118	Interlayer Coupling Induced Infrared Response in WS ₂ /MoS ₂ Heterostructures Enhanced by Surface Plasmon Resonance. <i>Advanced Functional Materials</i> , 2018, 28, 1800339.	7.8	114
119	2D Ternary Chalcogenides. <i>Advanced Optical Materials</i> , 2018, 6, 1800058.	3.6	114
120	Ultrathin MnO ₂ nanoflakes as efficient catalysts for oxygen reduction reaction. <i>Chemical Communications</i> , 2014, 50, 7885.	2.2	113
121	Ternary Ta ₂ NiSe ₅ Flakes for a High-Performance Infrared Photodetector. <i>Advanced Functional Materials</i> , 2016, 26, 8281-8289.	7.8	112
122	Hybrid catalysts for photoelectrochemical reduction of carbon dioxide: a prospective review on semiconductor/metal complex co-catalyst systems. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15228.	5.2	108
123	A Multisite Strategy for Enhancing the Hydrogen Evolution Reaction on a Nano-Pd Surface in Alkaline Media. <i>Advanced Energy Materials</i> , 2017, 7, 1701129.	10.2	108
124	Self-Supported 3D Array Electrodes for Sodium Microbatteries. <i>Advanced Functional Materials</i> , 2018, 28, 1704880.	7.8	108
125	Electrochemical Oxidation of Nitrogen towards Direct Nitrate Production on Spinel Oxides. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9418-9422.	7.2	108
126	Antiferromagnetic Inverse Spinel Oxide LiCoVO ₄ with Spin-Polarized Channels for Water Oxidation. <i>Advanced Materials</i> , 2020, 32, e1907976.	11.1	106

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127	Hybrid Organic-Inorganic Materials and Composites for Photoelectrochemical Water Splitting. ACS Energy Letters, 2020, 5, 1487-1497.	8.8	104
128	Raw biomass electroreforming coupled to green hydrogen generation. Nature Communications, 2021, 12, 2008.	5.8	104
129	Biochemistry-Enabled 3D Foams for Ultrafast Battery Cathodes. ACS Nano, 2015, 9, 4628-4635.	7.3	102
130	A Thermodynamically Favored Crystal Orientation in Mixed Formamidinium/Methylammonium Perovskite for Efficient Solar Cells. Advanced Materials, 2019, 31, e1900390.	11.1	101
131	Synthesis of multimodal porous ZnCo ₂ O ₄ and its electrochemical properties as an anode material for lithium ion batteries. Journal of Power Sources, 2015, 294, 112-119.	4.0	99
132	Persistent Conjugated Backbone and Disordered Lamellar Packing Impart Polymers with Efficient n-Doping and High Conductivities. Advanced Materials, 2021, 33, e2005946.	11.1	99
133	Valence Change Ability and Geometrical Occupation of Substitution Cations Determine the Pseudocapacitance of Spinel Ferrite XFe ₂ O ₄ (X = Mn, Co, Ni, Fe). Chemistry of Materials, 2016, 28, 4129-4133.	3.2	98
134	Postsynthesis Phase Transformation for CsPbBr ₃ /Rb ₄ PbBr ₆ Core/Shell Nanocrystals with Exceptional Photostability. ACS Applied Materials & Interfaces, 2018, 10, 23303-23310.	4.0	98
135	1000 h Operational Lifetime Perovskite Solar Cells by Ambient Melting Encapsulation. Advanced Energy Materials, 2020, 10, 1902472.	10.2	98
136	Synthesis, properties and applications of one- and two-dimensional gold nanostructures. Nano Research, 2015, 8, 40-55.	5.8	97
137	Postsynthesis Potassium-Modification Method to Improve Stability of CsPbBr ₃ Perovskite Nanocrystals. Advanced Optical Materials, 2018, 6, 1701106.	3.6	95
138	Chemical Vapor Deposition Growth of High Crystallinity Sb ₂ Se ₃ Nanowire with Strong Anisotropy for Near-Infrared Photodetectors. Small, 2019, 15, e1805307.	5.2	93
139	Organic phase synthesis of monodisperse iron oxide nanocrystals using iron chloride as precursor. Nanoscale, 2010, 2, 1027.	2.8	92
140	β-Cyclodextrin stabilized magnetic Fe ₃ S ₄ nanoparticles for efficient removal of Pb(II). Journal of Materials Chemistry A, 2015, 3, 15755-15763.	5.2	92
141	General Method for the Synthesis of Ultrastable Core/Shell Quantum Dots by Aluminum Doping. Journal of the American Chemical Society, 2015, 137, 12430-12433.	6.6	91
142	Two-dimensional inorganic molecular crystals. Nature Communications, 2019, 10, 4728.	5.8	91
143	Achieving High Electrocatalytic Efficiency on Copper: A Low-Cost Alternative to Platinum for Hydrogen Generation in Water. ACS Catalysis, 2015, 5, 4115-4120.	5.5	90
144	Liquid-Alloy-Assisted Growth of 2D Ternary Ga ₂ In ₄ S ₉ toward High-Performance UV Photodetection. Advanced Materials, 2019, 31, e1806306.	11.1	90

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145	An electron deficiency strategy for enhancing hydrogen evolution on CoP nano-electrocatalysts. <i>Nano Energy</i> , 2018, 50, 273-280.	8.2	89
146	The Spacer Cations Interplay for Efficient and Stable Layered 2D Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1901566.	10.2	89
147	Large Area Aminated Graphdiyne Thin Films for Direct Methanol Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15010-15015.	7.2	88
148	Boosting the performance of organic cathodes through structure tuning. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12985-12991.	5.2	87
149	Switch of the Rate-Determining Step of Water Oxidation by Spin-Selected Electron Transfer in Spinel Oxides. <i>Chemistry of Materials</i> , 2019, 31, 8106-8111.	3.2	87
150	Understanding Fundamentals and Reaction Mechanisms of Electrode Materials for Na-ion Batteries. <i>Small</i> , 2018, 14, e1703338.	5.2	86
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