

Zhichuan J Xu

List of Publications by Year in descending order

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371
papers

46,891
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1046

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385
all docs

385
docs citations

385
times ranked

41966
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospun Materials for Batteries Moving Beyond Lithium-Ion Technologies. <i>Electrochemical Energy Reviews</i> , 2022, 5, 211-241.	25.5	44
2	The possible implications of magnetic field effect on understanding the reactant of water splitting. <i>Chinese Journal of Catalysis</i> , 2022, 43, 148-157.	14.0	31
3	Revealing the Fast and Durable Na ⁺ Insertion Reactions in a Layered Na ₃ Fe ₃ (PO ₄) ₄ Anode for Aqueous Na-Ion Batteries. <i>ACS Materials Au</i> , 2022, 2, 63-71.	6.0	7
4	Surface Reconstruction of Perovskites for Water Oxidation: The Role of Initial Oxides™ Bulk Chemistry. <i>Small Science</i> , 2022, 2, 2100048.	9.9	21
5	Stabilizing Interface pH by Na-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-Ion Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	24
6	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, .	13.8	124
7	Electrospinning for flexible sodium-ion batteries. <i>Energy Storage Materials</i> , 2022, 45, 704-719.	18.0	48
8	Magnetic Adsorbents for Wastewater Treatment: Advancements in Their Synthesis Methods. <i>Materials</i> , 2022, 15, 1053.	2.9	17
9	Methanol electro-oxidation to formate on iron-substituted lanthanum cobaltite perovskite oxides. <i>EScience</i> , 2022, 2, 87-94.	41.6	40
10	Suppressing thermal quenching of lead halide perovskite nanocrystals by constructing a wide-bandgap surface layer for achieving thermally stable white light-emitting diodes. <i>Chemical Science</i> , 2022, 13, 3719-3727.	7.4	25
11	A Discrete 3d-4f Metallacage as an Efficient Catalytic Nanoreactor for a Three-Component Aza-Darzens Reaction. <i>Inorganic Chemistry</i> , 2022, 61, 4009-4017.	4.0	10
12	Rooting Zn into metallic Na bulk for energetic metal anode. <i>Science China Materials</i> , 2022, 65, 1789-1796.	6.3	9
13	Electro-Oxidation of Glycerol to High-Value-Added C1-C3 Products by Iron-Substituted Spinel Zinc Cobalt Oxides. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14293-14301.	8.0	23
14	Simultaneous reduction and sequestration of hexavalent chromium by magnetic β-Cyclodextrin stabilized Fe ₃ S ₄ . <i>Journal of Hazardous Materials</i> , 2022, 431, 128592.	12.4	28
15	Unexpected Intrinsic Catalytic Function of Porous Boron Nitride Nanorods for Highly Efficient Peroxymonosulfate Activation in Water Treatment. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18409-18419.	8.0	14
16	High-Efficiency Semitransparent Light-Emitting Diodes with Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19697-19703.	8.0	8
17	Controlled Growth of 3D Interpenetrated Networks by NiCo ₂ O ₄ and Graphdiyne for High-Performance Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18283-18292.	8.0	17
18	Electrochemistry in Magnetic Fields. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	64

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19	Electrochemistry in Magnetic Fields. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	6
20	Understanding the Role of Topotactic Anion Exchange in the Robust Cu Ion Storage of CuS _{1-x} Se _x . <i>ACS Energy Letters</i> , 2022, 7, 1835-1841.	17.4	13
21	Stable Lead-Free Tin Halide Perovskite with Operational Stability >1200%h by Suppressing Tin(II) Oxidation. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
22	The 2022 solar fuels roadmap. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 323003.	2.8	58
23	Nitrogen-Rich Carbonaceous Materials for Advanced Oxygen Electrocatalysis: Synthesis, Characterization, and Activity of Nitrogen Sites. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	59
24	Size Effects of Electrocatalysts: More Than a Variation of Surface Area. <i>ACS Nano</i> , 2022, 16, 8531-8539.	14.6	42
25	Metal Halide Perovskite Nanocrystals in Metal-Organic Framework Host: Not Merely Enhanced Stability. <i>Angewandte Chemie</i> , 2021, 133, 7564-7577.	2.0	16
26	Metal Halide Perovskite Nanocrystals in Metal-Organic Framework Host: Not Merely Enhanced Stability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7488-7501.	13.8	80
27	A Perspective on the Behavior of Lithium Anodes under a Magnetic Field. <i>Small Structures</i> , 2021, 2, 2000043.	12.0	34
28	Persistent Conjugated Backbone and Disordered Lamellar Packing Impart Polymers with Efficient n-Doping and High Conductivities. <i>Advanced Materials</i> , 2021, 33, e2005946.	21.0	99
29	1,3-Dichloropropene and chloropicrin emission reduction using a flexible CuInS ₂ /ZnS:Al-TiO ₂ photocatalytic film. <i>Environmental Science and Pollution Research</i> , 2021, 28, 6980-6989.	5.3	0
30	Synthesis of C-Plane Oriented Hexagonal Tungsten Oxide Membranes on Tubular Substrates and Their Acetic Acid/Water Separation Performances. <i>Membranes</i> , 2021, 11, 38.	3.0	1
31	One-Step Block Copolymer Templated Synthesis of Bismuth Oxybromide for Bisphenol A Degradation: An Extended Study from Photocatalysis to Chemical Oxidation. <i>ACS ES&T Water</i> , 2021, 1, 837-846.	4.6	16
32	Molybdenum-based materials for sodium-ion batteries. <i>Informa-Materials</i> , 2021, 3, 339-352.	17.3	65
33	Anodic Oxidation Enabled Cation Leaching for Promoting Surface Reconstruction in Water Oxidation. <i>Angewandte Chemie</i> , 2021, 133, 7494-7501.	2.0	8
34	Anodic Oxidation Enabled Cation Leaching for Promoting Surface Reconstruction in Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7418-7425.	13.8	130
35	Confined Synthesis of Stable and Uniform CsPbBr ₃ Nanocrystals with High Quantum Yield up to 90% by High Temperature Solid-State Reaction. <i>Advanced Optical Materials</i> , 2021, 9, 2002130.	7.3	40
36	Recent Development of Oxygen Evolution Electrocatalysts in Acidic Environment. <i>Advanced Materials</i> , 2021, 33, e2006328.	21.0	392

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37	An Energetic CuS@Cu Battery System Based on CuS Nanosheet Arrays. ACS Nano, 2021, 15, 5420-5427.	14.6	66
38	Raw biomass electroreforming coupled to green hydrogen generation. Nature Communications, 2021, 12, 2008.	12.8	104
39	Suppression of temperature quenching in perovskite nanocrystals for efficient and thermally stable light-emitting diodes. Nature Photonics, 2021, 15, 379-385.	31.4	260
40	Electrochemically Anodized V ₂ O ₅ as an Efficient Sodium Cathode. Energy & Fuels, 2021, 35, 8358-8364.	5.1	8
41	Spin-polarized oxygen evolution reaction under magnetic field. Nature Communications, 2021, 12, 2608.	12.8	242
42	Weak localization and electron-phonon interaction in layered Zintl phase SrIn ₂ P ₂ single crystal. Journal of Physics Condensed Matter, 2021, 33, 245701.	1.8	1
43	A discussion on the possible involvement of singlet oxygen in oxygen electrocatalysis. JPhys Energy, 2021, 3, 031004.	5.3	31
44	Engineering High-Spin State Cobalt Cations in Spinel Zinc Cobalt Oxide for Spin Channel Propagation and Active Site Enhancement in Water Oxidation. Angewandte Chemie, 2021, 133, 14657-14665.	2.0	24
45	Engineering High-Spin State Cobalt Cations in Spinel Zinc Cobalt Oxide for Spin Channel Propagation and Active Site Enhancement in Water Oxidation. Angewandte Chemie - International Edition, 2021, 60, 14536-14544.	13.8	149
46	Spin pinning effect to reconstructed oxyhydroxide layer on ferromagnetic oxides for enhanced water oxidation. Nature Communications, 2021, 12, 3634.	12.8	186
47	Tuning of lattice oxygen reactivity and scaling relation to construct better oxygen evolution electrocatalyst. Nature Communications, 2021, 12, 3992.	12.8	151
48	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
49	Nano ferric oxide adsorbents with self-acidification effect for efficient adsorption of Sb(V). Chemosphere, 2021, 272, 129933.	8.2	9
50	Effects of catalyst mass loading on electrocatalytic activity: An example of oxygen evolution reaction. Fundamental Research, 2021, 1, 448-452.	3.3	18
51	Architecting core-shell nanosheets of MoS ₂ -polypyrrole on carbon cloth as a robust sodium anode. Sustainable Materials and Technologies, 2021, 28, e00255.	3.3	5
52	23.6: Invited Paper: Enhancing the Stability and Efficiency of Perovskite Nanocrystals Light-Emitting Diodes. Digest of Technical Papers SID International Symposium, 2021, 52, 306-306.	0.3	0
53	Ferromagnetic-Antiferromagnetic Coupling Core-Shell Nanoparticles with Spin Conservation for Water Oxidation. Advanced Materials, 2021, 33, e2101091.	21.0	77
54	SmCo ₅ with a Reconstructed Oxyhydroxide Surface for Spin-Selective Water Oxidation at Elevated Temperature. Angewandte Chemie - International Edition, 2021, 60, 25884-25890.	13.8	51

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55	Interference Effect between Lithium Nitrate Additive and the Polysulfide Adsorber Magnesium Ferrite in Lithium-Sulfur Cells. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090556.	2.9	0
56	Narrow-Band Violet-Light-Emitting Diodes Based on Stable Cesium Lead Chloride Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2021, 6, 3545-3554.	17.4	39
57	Atomic layer deposition triggered Fe-In-S cluster and gradient energy band in ZnInS photoanode for improved oxygen evolution reaction. <i>Nature Communications</i> , 2021, 12, 5247.	12.8	36
58	The importance of the dissolution of polysulfides in lithium-sulfur batteries and a perspective on high-energy electrolyte/cathode design. <i>Electrochimica Acta</i> , 2021, 392, 139013.	5.2	9
59	Toward Coordination Control of Multiple Fish-Like Robots: Real-Time Vision-Based Pose Estimation and Tracking via Deep Neural Networks. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021, 8, 1964-1976.	13.1	10
60	Oxygen evolution in spin-sensitive pathways. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100804.	4.8	32
61	CsPbBr ₃ Nanocrystal Light-Emitting Diodes with Efficiency up to 13.4% Achieved by Careful Surface Engineering and Device Engineering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3110-3118.	3.1	29
62	Active Phase on SrCo _{1-x} Fe _x O _{3-δ} (0 ≤ x ≤ 0.5) Perovskite for Water Oxidation: Reconstructed Surface versus Remaining Bulk. <i>JACS</i> , 2021, 143, 108-115.	7.9	47
63	Facile synthesis of palladium incorporated NiCo ₂ O ₄ spinel for low temperature methane combustion: Activate lattice oxygen to promote activity. <i>Journal of Catalysis</i> , 2021, 404, 400-410.	6.2	23
64	Catalytically Influential Features in Transition Metal Oxides. <i>ACS Catalysis</i> , 2021, 11, 13947-13954.	11.2	38
65	Nitrogen-rich Graphdiyne Film for Efficiently Suppressing the Methanol Crossover in Direct Methanol Fuel Cells. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 1275-1282.	2.6	2
66	Lattice site-dependent metal leaching in perovskites toward a honeycomb-like water oxidation catalyst. <i>Science Advances</i> , 2021, 7, eabk1788.	10.3	41
67	Removal and recovery of chloride ions in concentrated leachate by Bi(III) containing oxides quantum dots/two-dimensional flakes. <i>Journal of Hazardous Materials</i> , 2020, 382, 121041.	12.4	27
68	Transition metal oxides for water oxidation: All about oxyhydroxides?. <i>Science China Materials</i> , 2020, 63, 3-7.	6.3	81
69	The Spacer Cations Interplay for Efficient and Stable Layered 2D Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1901566.	19.5	89
70	Large-Scale Synthesis of Highly Luminescent Perovskite Nanocrystals by Template-Assisted Solid-State Reaction at 800 °C. <i>Chemistry of Materials</i> , 2020, 32, 308-314.	6.7	57
71	Ceramic-like stable CsPbBr ₃ nanocrystals encapsulated in silica derived from molecular sieve templates. <i>Nature Communications</i> , 2020, 11, 31.	12.8	185
72	Salt-Assisted Growth of p-type Cu ₉ S ₅ Nanoflakes for p-n Heterojunction Photodetectors with High Responsivity. <i>Advanced Functional Materials</i> , 2020, 30, 1908382.	14.9	40

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73	Two-Dimensional (2D) Covalent Organic Framework as Efficient Cathode for Binder-free Lithium-ion Battery. <i>ChemSusChem</i> , 2020, 13, 2457-2463.	6.8	159
74	The interplay between the suprafacial and intrafacial mechanisms for complete methane oxidation on substituted LaCoO ₃ perovskite oxides. <i>Journal of Catalysis</i> , 2020, 390, 1-11.	6.2	32
75	Spin-Related Electron Transfer and Orbital Interactions in Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2020, 32, e2003297.	21.0	240
76	The construction of the novel magnetic prodrug Fe ₃ O ₄ @DOX and its antagonistic effects on hepatocarcinoma with low toxicity. <i>RSC Advances</i> , 2020, 10, 28965-28974.	3.6	6
77	Synthesis of lead halide perovskite nanocrystals by melt crystallization in halide salts. <i>Chemical Communications</i> , 2020, 56, 11291-11294.	4.1	12
78	Integrated multifunctional macrostructures for electromagnetic wave absorption and shielding. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24368-24387.	10.3	145
79	Spontaneously Splitting Copper Nanowires into Quantum Dots on Graphdiyne for Suppressing Lithium Dendrites. <i>Advanced Materials</i> , 2020, 32, e2004379.	21.0	74
80	Enhancing the performance of LARP-synthesized CsPbBr ₃ nanocrystal LEDs by employing a dual hole injection layer. <i>RSC Advances</i> , 2020, 10, 17653-17659.	3.6	13
81	Cathode Architectures for Rechargeable Ion Batteries: Progress and Perspectives. <i>Advanced Materials</i> , 2020, 32, e2000288.	21.0	55
82	Ir-skinned Ir-Cu Nanoparticles with Enhanced Activity for Oxygen Reduction Reaction. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 467-472.	2.6	5
83	Unconventional Mn Vacancies in Mn-Fe Prussian Blue Analogs: Suppressing Jahn-Teller Distortion for Ultrastable Sodium Storage. <i>CheM</i> , 2020, 6, 1804-1818.	11.7	148
84	Covalency competition dominates the water oxidation structure-activity relationship on spinel oxides. <i>Nature Catalysis</i> , 2020, 3, 554-563.	34.4	284
85	Designing a Transparent CdIn ₂ S ₄ /In ₂ S ₃ Bulk Heterojunction Photoanode Integrated with a Perovskite Solar Cell for Unbiased Water Splitting. <i>Advanced Materials</i> , 2020, 32, e2002893.	21.0	67
86	Carrier transport composites with suppressed glass-transition for stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14106-14113.	10.3	18
87	Hydrogen peroxide sol-gel coating of microencapsulated phase change materials by metal oxides. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 95, 649-660.	2.4	9
88	A Flexible and Lightweight Biomass-Reinforced Microwave Absorber. <i>Nano-Micro Letters</i> , 2020, 12, 125.	27.0	234
89	Constructing an Adaptive Heterojunction as a Highly Active Catalyst for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e2001292.	21.0	122
90	Enhanced Thermal Buffering of Phase Change Materials by the Intramicrocapsule Sub per Mille CNT Dopant. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16227-16235.	8.0	16

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91	Electrochemical Oxidation of Nitrogen towards Direct Nitrate Production on Spinel Oxides. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9418-9422.	13.8	108
92	Revealing the Impact of Electrolyte Composition for Co-Based Water Oxidation Catalysts by the Study of Reaction Kinetics Parameters. <i>ACS Catalysis</i> , 2020, 10, 4160-4170.	11.2	43
93	Green synthesis of hierarchically porous carbons with tunable dielectric response for microwave absorption. <i>Ceramics International</i> , 2020, 46, 15447-15455.	4.8	48
94	Hybrid Organic-Inorganic Materials and Composites for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2020, 5, 1487-1497.	17.4	104
95	Enhancing the Charge Transportation Ability of Yolk-Shell Structure for High-Rate Sodium and Potassium Storage. <i>ACS Nano</i> , 2020, 14, 4463-4474.	14.6	56
96	Electrocatalysis: A Core Technique for a Sustainable Future. <i>Chemistry - A European Journal</i> , 2020, 26, 3897-3897.	3.3	11
97	A review on fundamentals for designing oxygen evolution electrocatalysts. <i>Chemical Society Reviews</i> , 2020, 49, 2196-2214.	38.1	1,466
98	Electrodeposited Sulfur and Co ₉ S ₈ Electrocatalyst on Buckypaper as High-Performance Cathode for Li-S Batteries. <i>Nano-Micro Letters</i> , 2020, 12, 141.	27.0	18
99	In Situ Coating Graphdiyne for High-Energy-Density and Stable Organic Cathodes. <i>Advanced Materials</i> , 2020, 32, e2000140.	21.0	72
100	Strategies for design of electrocatalysts for hydrogen evolution under alkaline conditions. <i>Materials Today</i> , 2020, 36, 125-138.	14.2	308
101	Bifunctional Passivation Strategy to Achieve Stable CsPbBr ₃ Nanocrystals with Drastically Reduced Thermal-Quenching. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 993-999.	4.6	32
102	Dual-Doped Hematite Nanorod Arrays on Carbon Cloth as a Robust and Flexible Sodium Anode. <i>Advanced Functional Materials</i> , 2020, 30, 1910043.	14.9	39
103	1000 h Operational Lifetime Perovskite Solar Cells by Ambient Melting Encapsulation. <i>Advanced Energy Materials</i> , 2020, 10, 1902472.	19.5	98
104	Electrochemical Oxidation of Nitrogen towards Direct Nitrate Production on Spinel Oxides. <i>Angewandte Chemie</i> , 2020, 132, 9504-9508.	2.0	31
105	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.	13.7	234
106	Antiferromagnetic Inverse Spinel Oxide LiCoVO ₄ with Spin-Polarized Channels for Water Oxidation. <i>Advanced Materials</i> , 2020, 32, e1907976.	21.0	106
107	Surface Oxidation of Quantum Dots to Improve the Device Performance of Quantum Dot Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28424-28430.	3.1	12
108	A Universal Strategy for Constructing Seamless Graphdiyne on Metal Oxides to Stabilize the Electrochemical Structure and Interface. <i>Advanced Materials</i> , 2019, 31, e1806272.	21.0	59

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109	Effect of High Dipole Moment Cation on Layered 2D Organic-Inorganic Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803024.	19.5	117
110	NASICON-type Na ₃ Fe ₂ (PO ₄) ₃ as a low-cost and high-rate anode material for aqueous sodium-ion batteries. <i>Nano Energy</i> , 2019, 64, 103941.	16.0	83
111	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.	34.4	678
112	Significance of Engineering the Octahedral Units to Promote the Oxygen Evolution Reaction of Spinel Oxides. <i>Advanced Materials</i> , 2019, 31, e1902509.	21.0	201
113	Recent Progress on 2D Noble-Transition-Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019, 29, 1904932.	14.9	186
114	Large-Area Aminated Graphdiyne Thin Films for Direct Methanol Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15010-15015.	13.8	88
115	Two-dimensional inorganic molecular crystals. <i>Nature Communications</i> , 2019, 10, 4728.	12.8	91
116	Nanostructured Metal-Organic Conjugated Coordination Polymers with Ligand Tailoring for Superior Rechargeable Energy Storage. <i>Small</i> , 2019, 15, e1903188.	10.0	57
117	Surface Ligand Engineering toward Brightly Luminescent and Stable Cesium Lead Halide Perovskite Nanoplatelets for Efficient Blue-Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26161-26169.	3.1	59
118	Large-Area Aminated Graphdiyne Thin Films for Direct Methanol Fuel Cells. <i>Angewandte Chemie</i> , 2019, 131, 15152-15157.	2.0	23
119	An Investigation on the Relationship between the Stability of Lithium Anode and Lithium Nitrate in Electrolyte. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3570-A3574.	2.9	5
120	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.	6.7	87
121	Boosting Electrochemical CO ₂ Reduction on Metal-Organic Frameworks via Ligand Doping. <i>Angewandte Chemie</i> , 2019, 131, 4081-4085.	2.0	66
122	Boosting Electrochemical CO ₂ Reduction on Metal-Organic Frameworks via Ligand Doping. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4041-4045.	13.8	199
123	Chemical Vapor Deposition Growth of High Crystallinity Sb ₂ Se ₃ Nanowire with Strong Anisotropy for Near-Infrared Photodetectors. <i>Small</i> , 2019, 15, e1805307.	10.0	93
124	Mastering Surface Reconstruction of Metastable Spinel Oxides for Better Water Oxidation. <i>Advanced Materials</i> , 2019, 31, e1807898.	21.0	215
125	Recent progress in metal-organic polymers as promising electrodes for lithium/sodium rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4259-4290.	10.3	249
126	Influence of Fe Substitution into LaCoO ₃ Electrocatalysts on Oxygen-Reduction Activity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5682-5686.	8.0	54

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127	Multifunctional Mixed-Dimensional MoS ₂ -CuO Junction Field-Effect Transistor for Logic Operation and Phototransistor. <i>Advanced Electronic Materials</i> , 2019, 5, 1800976.	5.1	30
128	Critical role of metal ions in surface engineering toward brightly luminescent and stable cesium lead bromide perovskite quantum dots. <i>Nanoscale</i> , 2019, 11, 2602-2607.	5.6	33
129	Phase Change Materials: Doubly Coated, Organic-Inorganic Paraffin Phase Change Materials: Zinc Oxide Coating of Hermetically Encapsulated Paraffins (Adv. Mater. Interfaces 12/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970077.	3.7	0
130	Selective Electroreduction of Carbon Dioxide to Formic Acid on Cobalt-Decorated Copper Thin Films. <i>Small Methods</i> , 2019, 3, 1900362.	8.6	19
131	Origin of electronic structure dependent activity of spinel Zn _{1-x} Ni _x Co _{2-x} O ₄ oxides for complete methane oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117844.	20.2	35
132	Sacrificial oxidation of a self-metal source for the rapid growth of metal oxides on quantum dots towards improving photostability. <i>Chemical Science</i> , 2019, 10, 6683-6688.	7.4	9
133	Low-dimensional nanomaterial/Si heterostructure-based photodetectors. <i>Informa-Å-Materi-Åjly</i> , 2019, 1, 140-163.	17.3	81
134	In Situ X-ray Absorption Spectroscopy Studies of Nanoscale Electrocatalysts. <i>Nano-Micro Letters</i> , 2019, 11, 47.	27.0	181
135	Defect Engineering in Two Common Types of Dielectric Materials for Electromagnetic Absorption Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1901236.	14.9	469
136	Stabilizing perovskite nanocrystals by controlling protective surface ligands density. <i>Nano Research</i> , 2019, 12, 1461-1465.	10.4	56
137	Nonlayered Two-Dimensional Defective Semiconductor In_2S_3 toward Broadband Photodetection. <i>ACS Nano</i> , 2019, 13, 6297-6307.	14.6	72
138	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. <i>Nature Energy</i> , 2019, 4, 408-415.	39.5	831
139	A Thermodynamically Favored Crystal Orientation in Mixed Formamidinium/Methylammonium Perovskite for Efficient Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1900390.	21.0	101
140	A Conjugated Copolymer of <i>N</i> -Phenyl- <i>p</i> -phenylenediamine and Pyrene as Promising Cathode for Rechargeable Lithium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2210-2214.	3.3	18
141	Doubly Coated, Organic-Inorganic Paraffin Phase Change Materials: Zinc Oxide Coating of Hermetically Encapsulated Paraffins. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900368.	3.7	18
142	Template-Free Construction of Self-Supported Sb Prisms with Stable Sodium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1901096.	19.5	57
143	Emerging in-plane anisotropic two-dimensional materials. <i>Informa-Å-Materi-Åjly</i> , 2019, 1, 54-73.	17.3	247
144	Shifting Oxygen Charge Towards Octahedral Metal: A Way to Promote Water Oxidation on Cobalt Spinel Oxides. <i>Angewandte Chemie</i> , 2019, 131, 6103-6108.	2.0	69

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145	Bottom-level motion control for robotic fish to swim in groups: modeling and experiments. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 046001.	2.9	16
146	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. <i>Nature Communications</i> , 2019, 10, 1112.	12.8	185
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