

Yi Xie

List of Publications by Year in descending order

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725
papers

87,829
citations

191

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779
docs citations

779
times ranked

55627
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect-Rich MoS ₂ Ultrathin Nanosheets with Additional Active Edge Sites for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2013, 25, 5807-5813.	11.1	2,705
2	Controllable Disorder Engineering in Oxygen-Incorporated MoS ₂ Ultrathin Nanosheets for Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2013, 135, 17881-17888.	6.6	2,107
3	Mixed Transition-Metal Oxides: Design, Synthesis, and Energy-Related Applications. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1488-1504.	7.2	2,019
4	Enhanced Photoresponsive Ultrathin Graphitic-Phase C ₃ N ₄ Nanosheets for Bioimaging. <i>Journal of the American Chemical Society</i> , 2013, 135, 18-21.	6.6	1,908
5	Partially oxidized atomic cobalt layers for carbon dioxide electroreduction to liquid fuel. <i>Nature</i> , 2016, 529, 68-71.	13.7	1,565
6	Oxygen Vacancies Confined in Ultrathin Indium Oxide Porous Sheets for Promoted Visible-Light Water Splitting. <i>Journal of the American Chemical Society</i> , 2014, 136, 6826-6829.	6.6	1,178
7	Single-Atom Pt as Co-Catalyst for Enhanced Photocatalytic H ₂ Evolution. <i>Advanced Materials</i> , 2016, 28, 2427-2431.	11.1	1,156
8	Ultrathin Spinel-Structured Nanosheets Rich in Oxygen Deficiencies for Enhanced Electrocatalytic Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7399-7404.	7.2	1,118
9	Vacancy Associates Promoting Solar-Driven Photocatalytic Activity of Ultrathin Bismuth Oxychloride Nanosheets. <i>Journal of the American Chemical Society</i> , 2013, 135, 10411-10417.	6.6	1,091
10	Metallic Few-Layered VS ₂ Ultrathin Nanosheets: High Two-Dimensional Conductivity for In-Plane Supercapacitors. <i>Journal of the American Chemical Society</i> , 2011, 133, 17832-17838.	6.6	1,014
11	Metallic Nickel Nitride Nanosheets Realizing Enhanced Electrochemical Water Oxidation. <i>Journal of the American Chemical Society</i> , 2015, 137, 4119-4125.	6.6	1,004
12	Two dimensional nanomaterials for flexible supercapacitors. <i>Chemical Society Reviews</i> , 2014, 43, 3303.	18.7	978
13	Low Overpotential in Vacancy-Rich Ultrathin CoSe ₂ Nanosheets for Water Oxidation. <i>Journal of the American Chemical Society</i> , 2014, 136, 15670-15675.	6.6	970
14	Atomically Dispersed Iron-Nitrogen Species as Electrocatalysts for Bifunctional Oxygen Evolution and Reduction Reactions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 610-614.	7.2	950
15	Selective visible-light-driven photocatalytic CO ₂ reduction to CH ₄ mediated by atomically thin CuIn ₅ S ₈ layers. <i>Nature Energy</i> , 2019, 4, 690-699.	19.8	948
16	Ultrathin Black Phosphorus Nanosheets for Efficient Singlet Oxygen Generation. <i>Journal of the American Chemical Society</i> , 2015, 137, 11376-11382.	6.6	891
17	Atomically-thin two-dimensional sheets for understanding active sites in catalysis. <i>Chemical Society Reviews</i> , 2015, 44, 623-636.	18.7	872
18	Ultrathin Two-Dimensional MnO ₂ /Graphene Hybrid Nanostructures for High-Performance, Flexible Planar Supercapacitors. <i>Nano Letters</i> , 2013, 13, 2151-2157.	4.5	818

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19	High-Performance Flexible Broadband Photodetector Based on Organolead Halide Perovskite. <i>Advanced Functional Materials</i> , 2014, 24, 7373-7380.	7.8	791
20	Defect-Mediated Electron-Hole Separation in One-Unit-Cell ZnIn ₂ S ₄ Layers for Boosted Solar-Driven CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 7586-7594.	6.6	764
21	Exclusive Ni ⁴⁺ Sites Realize Near-Unity CO Selectivity for Electrochemical CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 14889-14892.	6.6	725
22	Metallic Co ₄ N Porous Nanowire Arrays Activated by Surface Oxidation as Electrocatalysts for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14710-14714.	7.2	684
23	Oxygen-Vacancy-Mediated Exciton Dissociation in BiOBr for Boosting Charge-Carrier-Involved Molecular Oxygen Activation. <i>Journal of the American Chemical Society</i> , 2018, 140, 1760-1766.	6.6	651
24	Synthesis of Hematite (α-Fe ₂ O ₃) Nanorods: Diameter-Size and Shape Effects on Their Applications in Magnetism, Lithium Ion Battery, and Gas Sensors. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17806-17812.	1.2	605
25	Freestanding Tin Disulfide Single-Layers Realizing Efficient Visible-Light Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8727-8731.	7.2	545
26	Metallic tin quantum sheets confined in graphene toward high-efficiency carbon dioxide electroreduction. <i>Nature Communications</i> , 2016, 7, 12697.	5.8	522
27	Highly Efficient and Exceptionally Durable CO ₂ Photoreduction to Methanol over Freestanding Defective Single-Unit-Cell Bismuth Vanadate Layers. <i>Journal of the American Chemical Society</i> , 2017, 139, 3438-3445.	6.6	508
28	Single-Layered Graphitic C ₃ N ₄ Quantum Dots for Two-Photon Fluorescence Imaging of Cellular Nucleus. <i>Advanced Materials</i> , 2014, 26, 4438-4443.	11.1	501
29	3D Nitrogen-Anion-Decorated Nickel Sulfides for Highly Efficient Overall Water Splitting. <i>Advanced Materials</i> , 2017, 29, 1701584.	11.1	478
30	Fabrication of flexible and freestanding zinc chalcogenide single layers. <i>Nature Communications</i> , 2012, 3, 1057.	5.8	470
31	Atomically-thin molybdenum nitride nanosheets with exposed active surface sites for efficient hydrogen evolution. <i>Chemical Science</i> , 2014, 5, 4615-4620.	3.7	455
32	Enhanced Photoexcited Carrier Separation in Oxygen-Doped ZnIn ₂ S ₄ Nanosheets for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6716-6720.	7.2	454
33	Efficient Visible-Light-Driven CO ₂ Reduction Mediated by Defect-Engineered BiOBr Atomic Layers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8719-8723.	7.2	439
34	Ultrathin Co ₃ O ₄ Layers Realizing Optimized CO ₂ Electroreduction to Formate. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 698-702.	7.2	424
35	Design of vanadium oxide structures with controllable electrical properties for energy applications. <i>Chemical Society Reviews</i> , 2013, 42, 5157.	18.7	401
36	Enhanced Singlet Oxygen Generation in Oxidized Graphitic Carbon Nitride for Organic Synthesis. <i>Advanced Materials</i> , 2016, 28, 6940-6945.	11.1	397

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37	A Bifunctional Hybrid Electrocatalyst for Oxygen Reduction and Evolution: Cobalt Oxide Nanoparticles Strongly Coupled to B,N-Decorated Graphene. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7121-7125.	7.2	395
38	Strongly Coupled Cobalt Borate Nanosheets/Graphene Hybrid as Electrocatalyst for Water Oxidation Under Both Alkaline and Neutral Conditions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2488-2492.	7.2	391
39	Recent advances in free-standing two-dimensional crystals with atomic thickness: design, assembly and transfer strategies. <i>Chemical Society Reviews</i> , 2013, 42, 8187.	18.7	386
40	Emerging natural and tailored materials for uranium-contaminated water treatment and environmental remediation. <i>Progress in Materials Science</i> , 2019, 103, 180-234.	16.0	382
41	A zwitterionic gel electrolyte for efficient solid-state supercapacitors. <i>Nature Communications</i> , 2016, 7, 11782.	5.8	374
42	Oxygen Vacancies Confined in Nickel Molybdenum Oxide Porous Nanosheets for Promoted Electrolytic Urea Oxidation. <i>ACS Catalysis</i> , 2018, 8, 1-7.	5.5	372
43	Partially Oxidized SnS ₂ Atomic Layers Achieving Efficient Visible-Light-Driven CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 18044-18051.	6.6	368
44	Synthesis of Bi ₂ WO ₆ Nanoplate-Built Hierarchical Nest-like Structures with Visible-Light-Induced Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12866-12871.	1.5	365
45	Atomic layer confined vacancies for atomic-level insights into carbon dioxide electroreduction. <i>Nature Communications</i> , 2017, 8, 14503.	5.8	365
46	Giant Moisture Responsiveness of VS ₂ Ultrathin Nanosheets for Novel Touchless Positioning Interface. <i>Advanced Materials</i> , 2012, 24, 1969-1974.	11.1	364
47	Two-dimensional vanadyl phosphate ultrathin nanosheets for high energy density and flexible pseudocapacitors. <i>Nature Communications</i> , 2013, 4, 2431.	5.8	356
48	Metallic Nickel Hydroxide Nanosheets Give Superior Electrocatalytic Oxidation of Urea for Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12465-12469.	7.2	356
49	Novel Metastable Hexagonal MoO ₃ Nanobelts: Synthesis, Photochromic, and Electrochromic Properties. <i>Chemistry of Materials</i> , 2009, 21, 5681-5690.	3.2	353
50	Heterogeneous Spin States in Ultrathin Nanosheets Induce Subtle Lattice Distortion To Trigger Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2016, 138, 5087-5092.	6.6	351
51	Surface/interface nanoengineering for rechargeable Zn-air batteries. <i>Energy and Environmental Science</i> , 2020, 13, 1132-1153.	15.6	344
52	Single Unit Cell Bismuth Tungstate Layers Realizing Robust Solar CO ₂ Reduction to Methanol. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13971-13974.	7.2	342
53	Biomolecule-Assisted Synthesis and Electrochemical Hydrogen Storage of Bi ₂ S ₃ Flowerlike Patterns with Well-Aligned Nanorods. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8978-8985.	1.2	334
54	Atomically-thin non-layered cobalt oxide porous sheets for highly efficient oxygen-evolving electrocatalysts. <i>Chemical Science</i> , 2014, 5, 3976.	3.7	332

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55	High-purity pyrrole-type FeN ₄ sites as a superior oxygen reduction electrocatalyst. <i>Energy and Environmental Science</i> , 2020, 13, 111-118.	15.6	327
56	Two-dimensional nanosheets for photoelectrochemical water splitting: Possibilities and opportunities. <i>Nano Today</i> , 2013, 8, 598-618.	6.2	326
57	Pits confined in ultrathin cerium(IV) oxide for studying catalytic centers in carbon monoxide oxidation. <i>Nature Communications</i> , 2013, 4, 2899.	5.8	326
58	Low-Temperature Synthesis of MnO ₂ Hollow Urchins and Their Application in Rechargeable Li-Batteries. <i>Inorganic Chemistry</i> , 2006, 45, 6404-6410.	1.9	324
59	Surface Facet of Palladium Nanocrystals: A Key Parameter to the Activation of Molecular Oxygen for Organic Catalysis and Cancer Treatment. <i>Journal of the American Chemical Society</i> , 2013, 135, 3200-3207.	6.6	321
60	Efficient and Robust Carbon Dioxide Electroreduction Enabled by Atomically Dispersed Sn ⁺ Sites. <i>Advanced Materials</i> , 2019, 31, e1808135.	11.1	321
61	Selected-Control Synthesis of ZnO Nanowires and Nanorods via a PEG-Assisted Route. <i>Inorganic Chemistry</i> , 2003, 42, 8105-8109.	1.9	316
62	Atomically-thick two-dimensional crystals: electronic structure regulation and energy device construction. <i>Chemical Society Reviews</i> , 2014, 43, 530-546.	18.7	309
63	Phase Transformation Engineering in Cobalt Diselenide Realizing Enhanced Catalytic Activity for Hydrogen Evolution in an Alkaline Medium. <i>Advanced Materials</i> , 2016, 28, 7527-7532.	11.1	307
64	Boosting Hot-Electron Generation: Exciton Dissociation at the Order-Disorder Interfaces in Polymeric Photocatalysts. <i>Journal of the American Chemical Society</i> , 2017, 139, 2468-2473.	6.6	307
65	Transition Metal Nitrides for Electrocatalytic Energy Conversion: Opportunities and Challenges. <i>Chemistry - A European Journal</i> , 2016, 22, 3588-3598.	1.7	305
66	Surface chemical-modification for engineering the intrinsic physical properties of inorganic two-dimensional nanomaterials. <i>Chemical Society Reviews</i> , 2015, 44, 637-646.	18.7	302
67	In ₂ O ₃ Hollow Microspheres: Synthesis from Designed In(OH) ₃ Precursors and Applications in Gas Sensors and Photocatalysis. <i>Langmuir</i> , 2006, 22, 9380-9385.	1.6	292
68	Ultrahigh Energy Density Realized by a Single-Layer Co(OH) ₂ All-Solid-State Asymmetric Supercapacitor. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12789-12793.	7.2	290
69	Photoelectrodes Based upon Mo:BiVO ₄ Inverse Opals for Photoelectrochemical Water Splitting. <i>ACS Nano</i> , 2014, 8, 7088-7098.	7.3	289
70	Enhanced Superoxide Generation on Defective Surfaces for Selective Photooxidation. <i>Journal of the American Chemical Society</i> , 2019, 141, 3797-3801.	6.6	285
71	Ultrathin Co ₃ S ₄ Nanosheets that Synergistically Engineer Spin States and Exposed Polyhedra that Promote Water Oxidation under Neutral Conditions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11231-11235.	7.2	283
72	Intralayered Ostwald Ripening to Ultrathin Nanomesh Catalyst with Robust Oxygen-Evolving Performance. <i>Advanced Materials</i> , 2017, 29, 1604765.	11.1	283

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73	Atomically Thick Bismuth Selenide Freestanding Single Layers Achieving Enhanced Thermoelectric Energy Harvesting. <i>Journal of the American Chemical Society</i> , 2012, 134, 20294-20297.	6.6	279
74	Co ₃ O ₄ nanocrystals on single-walled carbon nanotubes as a highly efficient oxygen-evolving catalyst. <i>Nano Research</i> , 2012, 5, 521-530.	5.8	276
75	Surface Immobilization of Transition Metal Ions on Nitrogen-Doped Graphene Realizing High-Efficient and Selective CO ₂ Reduction. <i>Advanced Materials</i> , 2018, 30, e1706617.	11.1	276
76	Hydrogen-Incorporated TiS ₂ Ultrathin Nanosheets with Ultrahigh Conductivity for Stamp-Transferrable Electrodes. <i>Journal of the American Chemical Society</i> , 2013, 135, 5144-5151.	6.6	273
77	Layer-by-layer γ -Ni(OH) ₂ /graphene nanohybrids for ultraflexible all-solid-state thin-film supercapacitors with high electrochemical performance. <i>Nano Energy</i> , 2013, 2, 65-74.	8.2	271
78	Structural Transformation of Heterogeneous Materials for Electrocatalytic Oxygen Evolution Reaction. <i>Chemical Reviews</i> , 2021, 121, 13174-13212.	23.0	262
79	Infrared Light-Driven CO ₂ Overall Splitting at Room Temperature. <i>Joule</i> , 2018, 2, 1004-1016.	11.7	258
80	Synthesis of novel nanomaterials and their application in efficient removal of radionuclides. <i>Science China Chemistry</i> , 2019, 62, 933-967.	4.2	256
81	Ultrathin Two-Dimensional Inorganic Materials: New Opportunities for Solid State Nanochemistry. <i>Accounts of Chemical Research</i> , 2015, 48, 3-12.	7.6	255
82	Synthesis of carbon nitride nanotubes with the C ₃ N ₄ stoichiometry via a benzene-thermal process at low temperatures Electronic Supplementary Information (ESI) available: XRD patterns. See http://www.rsc.org/suppdata/cc/b3/b311390f/ . <i>Chemical Communications</i> , 2004, , 26.	2.2	249
83	Semimetallic molybdenum disulfide ultrathin nanosheets as an efficient electrocatalyst for hydrogen evolution. <i>Nanoscale</i> , 2014, 6, 8359-8367.	2.8	248
84	Giant Electron-Hole Interactions in Confined Layered Structures for Molecular Oxygen Activation. <i>Journal of the American Chemical Society</i> , 2017, 139, 4737-4742.	6.6	243
85	Ultrathin MXene nanosheets with rich fluorine termination groups realizing efficient electrocatalytic hydrogen evolution. <i>Nano Energy</i> , 2018, 47, 512-518.	8.2	243
86	Synthetic Bi ₂ O ₂ CO ₃ nanostructures: Novel photocatalyst with controlled special surface exposed. <i>Journal of Molecular Catalysis A</i> , 2010, 317, 34-40.	4.8	242
87	Ultrathin Nanosheets of Vanadium Diselenide: A Metallic Two-Dimensional Material with Ferromagnetic Charge-Density-Wave Behavior. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10477-10481.	7.2	242
88	Interfacial engineering of cobalt sulfide/graphene hybrids for highly efficient ammonia electrosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6635-6640.	3.3	242
89	Engineering the Electronic State of a Perovskite Electrocatalyst for Synergistically Enhanced Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2015, 27, 5989-5994.	11.1	236
90	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5984-5993.	7.2	234

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91	Hematite Hollow Spheres with a Mesoporous Shell: Controlled Synthesis and Applications in Gas Sensor and Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11307-11313.	1.5	233
92	Metallic Nickel Hydroxide Nanosheets Give Superior Electrocatalytic Oxidation of Urea for Fuel Cells. <i>Angewandte Chemie</i> , 2016, 128, 12653-12657.	1.6	233
93	High-performance flexible electrochromic device based on facile semiconductor-to-metal transition realized by WO ₃ ·2H ₂ O ultrathin nanosheets. <i>Scientific Reports</i> , 2013, 3, 1936.	1.6	232
94	Large-Scale Fabrication of TiO ₂ Hierarchical Hollow Spheres. <i>Inorganic Chemistry</i> , 2006, 45, 3493-3495.	1.9	230
95	Ultrathin Cobalt Oxide Layers as Electrocatalysts for High-Performance Flexible Zn-Air Batteries. <i>Advanced Materials</i> , 2019, 31, e1807468.	11.1	227
96	Spin-State Regulation of Perovskite Cobaltite to Realize Enhanced Oxygen Evolution Activity. <i>CheM</i> , 2017, 3, 812-821.	5.8	225
97	Photocatalytic CO ₂ Conversion of M _{0.33} WO ₃ Directly from the Air with High Selectivity: Insight into Full Spectrum-Induced Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 2019, 141, 5267-5274.	6.6	224
98	Oxygen vacancy associated single-electron transfer for photofixation of CO ₂ to long-chain chemicals. <i>Nature Communications</i> , 2019, 10, 788.	5.8	222
99	High-Temperature-Stable Au@SnO ₂ Core/Shell Supported Catalyst for CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2244-2247.	1.5	220
100	Regulating Water-Reduction Kinetics in Cobalt Phosphide for Enhancing HER Catalytic Activity in Alkaline Solution. <i>Advanced Materials</i> , 2017, 29, 1606980.	11.1	220
101	Fundamentals and challenges of ultrathin 2D photocatalysts in boosting CO ₂ photoreduction. <i>Chemical Society Reviews</i> , 2020, 49, 6592-6604.	18.7	220
102	Regulating the Charge and Spin Ordering of Two-Dimensional Ultrathin Solids for Electrocatalytic Water Splitting. <i>CheM</i> , 2018, 4, 1263-1283.	5.8	219
103	Controllable Surface Reorganization Engineering on Cobalt Phosphide Nanowire Arrays for Efficient Alkaline Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018, 30, 1703322.	11.1	215
104	Optically Switchable Photocatalysis in Ultrathin Black Phosphorus Nanosheets. <i>Journal of the American Chemical Society</i> , 2018, 140, 3474-3480.	6.6	210
105	Unraveling Metal-insulator Transition Mechanism of VO ₂ Triggered by Tungsten Doping. <i>Scientific Reports</i> , 2012, 2, 466.	1.6	209
106	A Novel UV-Shielding and Transparent Polymer Film: When Bioinspired Dopamine-Melanin Hollow Nanoparticles Join Polymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36281-36289.	4.0	206
107	Carbon Dioxide Electroreduction into Syngas Boosted by a Partially Delocalized Charge in Molybdenum Sulfide Selenide Alloy Monolayers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9121-9125.	7.2	205
108	Pothole-Rich Ultrathin WO ₃ Nanosheets that Trigger N≡N Bond Activation of Nitrogen for Direct Nitrate Photosynthesis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 731-735.	7.2	202

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109	A Novel Solventothermal Synthetic Route to Nanocrystalline CdE (E = S, Se, Te) and Morphological Control. <i>Chemistry of Materials</i> , 1998, 10, 2309-2312.	3.2	198
110	Simultaneous In Situ Formation of ZnS Nanowires in a Liquid Crystal Template by γ -Irradiation. <i>Chemistry of Materials</i> , 2001, 13, 1213-1218.	3.2	198
111	Vacancy Engineering for Tuning Electron and Phonon Structures of Two-Dimensional Materials. <i>Advanced Energy Materials</i> , 2016, 6, 1600436.	10.2	198
112	Photocatalytic nitrogen fixation: the role of defects in photocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19616-19633.	5.2	198
113	Photocatalytic Conversion of Waste Plastics into C_2 Fuels under Simulated Natural Environment Conditions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15497-15501.	7.2	198
114	Surfactant-Free Synthesis of Hyperbranched Monoclinic Bismuth Vanadate and its Applications in Photocatalysis, Gas Sensing, and Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2008, 14, 1601-1606.	1.7	195
115	General Formation of Complex Tubular Nanostructures of Metal Oxides for the Oxygen Reduction Reaction and Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8643-8647.	7.2	194
116	Promoting Active Species Generation by Electrochemical Activation in Alkaline Media for Efficient Electrocatalytic Oxygen Evolution in Neutral Media. <i>Nano Letters</i> , 2017, 17, 578-583.	4.5	191
117	Surface/Interfacial Engineering of Inorganic Low-Dimensional Electrode Materials for Electrocatalysis. <i>Accounts of Chemical Research</i> , 2018, 51, 2857-2866.	7.6	190
118	Superionic Phase Transition in Silver Chalcogenide Nanocrystals Realizing Optimized Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2012, 134, 4287-4293.	6.6	188
119	High-Density Planar-like Fe ₂ N ₆ Structure Catalyzes Efficient Oxygen Reduction. <i>Matter</i> , 2020, 3, 509-521.	5.0	184
120	Dual Vacancies: An Effective Strategy Realizing Synergistic Optimization of Thermoelectric Property in BiCuSeO. <i>Journal of the American Chemical Society</i> , 2015, 137, 6587-6593.	6.6	183
121	Promising vanadium oxide and hydroxide nanostructures: from energy storage to energy saving. <i>Energy and Environmental Science</i> , 2010, 3, 1191.	15.6	182
122	Ordered Macroporous BiVO ₄ Architectures with Controllable Dual Porosity for Efficient Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8579-8583.	7.2	179
123	Structural distortion in graphitic-C ₃ N ₄ realizing an efficient photoreactivity. <i>Nanoscale</i> , 2015, 7, 5152-5156.	2.8	178
124	Dynamic Migration of Surface Fluorine Anions on Cobalt-Based Materials to Achieve Enhanced Oxygen Evolution Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15471-15475.	7.2	178
125	Half-Metallicity in Single-Layered Manganese Dioxide Nanosheets by Defect Engineering. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1195-1199.	7.2	177
126	Defect-rich MoS ₂ nanowall catalyst for efficient hydrogen evolution reaction. <i>Nano Research</i> , 2017, 10, 1178-1188.	5.8	177

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127	In situ micelle-templated interface reaction route to CdS nanotubes and nanowires. <i>Journal of Materials Chemistry</i> , 2002, 12, 3712-3716.	6.7	176
128	Characterization of well-crystallized graphitic carbon nitride nanocrystallites via a benzene-thermal route at low temperatures. <i>Chemical Physics Letters</i> , 2003, 380, 84-87.	1.2	175
129	Preparation and phase transformation of nanocrystalline copper sulfides (Cu ₉ S ₈ , Cu ₇ S ₄ and CuS) at low temperature. <i>Journal of Materials Chemistry</i> , 2000, 10, 2193-2196.	6.7	174
130	Molecular co-catalyst accelerating hole transfer for enhanced photocatalytic H ₂ evolution. <i>Nature Communications</i> , 2015, 6, 8647.	5.8	172
131	Understanding the Nature of the Kinetic Process in a Metal-Insulator Transition. <i>Physical Review Letters</i> , 2010, 105, 226405.	2.9	171
132	Half-Metallic Ferromagnetism in Synthetic Co ₉ Se ₈ Nanosheets with Atomic Thickness. <i>Journal of the American Chemical Society</i> , 2012, 134, 11908-11911.	6.6	170
133	Biomolecule-Assisted Synthesis and Electrochemical Hydrogen Storage of Porous Spongelike Ni ₃ S ₂ Nanostructures Grown Directly on Nickel Foils. <i>Chemistry - A European Journal</i> , 2006, 12, 2337-2342.	1.7	169
134	Advances and challenges in chemistry of two-dimensional nanosheets. <i>Nano Today</i> , 2016, 11, 793-816.	6.2	168
135	Metallic Single-Unit Cell Orthorhombic Cobalt Diselenide Atomic Layers: Robust Water Electrolysis Catalysts. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12004-12008.	7.2	166
136	Study of the dissolution behavior of selenium and tellurium in different solvents—a novel route to Se, Te tubular bulk single crystals. <i>Journal of Materials Chemistry</i> , 2002, 12, 2755-2761.	6.7	165
137	High Thermoelectric and Reversible <i>p-n-p</i> Conduction Type Switching Integrated in Dimetal Chalcogenide. <i>Journal of the American Chemical Society</i> , 2012, 134, 18460-18466.	6.6	164
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