

Yujie Xiong

List of Publications by Year in descending order

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296
papers

45,046
citations

¹⁶²⁷
105
h-index

¹⁹⁵⁵
207
g-index

320
all docs

320
docs citations

320
times ranked

38817
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-Controlled Synthesis of Metal Nanocrystals: Simple Chemistry Meets Complex Physics?. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 60-103.	14.2	4,930
2	From Bimetallic Metal-Organic Framework to Porous Carbon: High Surface Area and Multicomponent Active Dopants for Excellent Electrocatalysis. <i>Advanced Materials</i> , 2015, 27, 5010-5016.	21.5	1,224
3	Omnidirectional Printing of Flexible, Stretchable, and Spanning Silver Microelectrodes. <i>Science</i> , 2009, 323, 1590-1593.	12.8	1,072
4	Steering charge kinetics in photocatalysis: intersection of materials syntheses, characterization techniques and theoretical simulations. <i>Chemical Society Reviews</i> , 2015, 44, 2893-2939.	39.2	955
5	Oxide Defect Engineering Enables to Couple Solar Energy into Oxygen Activation. <i>Journal of the American Chemical Society</i> , 2016, 138, 8928-8935.	14.2	840
6	Printed Assemblies of Inorganic Light-Emitting Diodes for Deformable and Semitransparent Displays. <i>Science</i> , 2009, 325, 977-981.	12.8	748
7	Shape-Controlled Synthesis of Metal Nanostructures: The Case of Palladium. <i>Advanced Materials</i> , 2007, 19, 3385-3391.	21.5	738
8	Defect engineering in photocatalytic materials. <i>Nano Energy</i> , 2018, 53, 296-336.	16.3	732
9	Refining Defect States in $W_{18}O_{49}$ by Mo Doping: A Strategy for Tuning N_2 Activation towards Solar-Driven Nitrogen Fixation. <i>Journal of the American Chemical Society</i> , 2018, 140, 9434-9443.	14.2	722
10	Kinetically Controlled Synthesis of Triangular and Hexagonal Nanoplates of Palladium and Their SPR/SERS Properties. <i>Journal of the American Chemical Society</i> , 2005, 127, 17118-17127.	14.2	629
11	Heterogeneous Single-Atom Photocatalysts: Fundamentals and Applications. <i>Chemical Reviews</i> , 2020, 120, 12175-12216.	49.1	620
12	Synthesis and Optical Properties of Silver Nanobars and Nanorice. <i>Nano Letters</i> , 2007, 7, 1032-1036.	9.3	590
13	Poly(vinyl pyrrolidone): A Dual Functional Reductant and Stabilizer for the Facile Synthesis of Noble Metal Nanoplates in Aqueous Solutions. <i>Langmuir</i> , 2006, 22, 8563-8570.	3.6	578
14	Synthesis and Mechanistic Study of Palladium Nanobars and Nanorods. <i>Journal of the American Chemical Society</i> , 2007, 129, 3665-3675.	14.2	570
15	Shape-Controlled Synthesis of Pd Nanocrystals and Their Catalytic Applications. <i>Accounts of Chemical Research</i> , 2013, 46, 1783-1794.	16.1	568
16	Boosting Photocatalytic Hydrogen Production of a Metal-Organic Framework Decorated with Platinum Nanoparticles: The Platinum Location Matters. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9389-9393.	14.2	513
17	Optical Properties of Pd-Ag and Pt-Ag Nanoboxes Synthesized via Galvanic Replacement Reactions. <i>Nano Letters</i> , 2005, 5, 2058-2062.	9.3	508
18	Reduction by the End Groups of Poly(vinyl pyrrolidone): A New and Versatile Route to the Kinetically Controlled Synthesis of Ag Triangular Nanoplates. <i>Advanced Materials</i> , 2006, 18, 1745-1749.	21.5	480

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19	2D Layered Double Hydroxides for Oxygen Evolution Reaction: From Fundamental Design to Application. <i>Advanced Energy Materials</i> , 2019, 9, 1803358.	19.9	467
20	Isolation of Cu Atoms in Pd Lattice: Forming Highly Selective Sites for Photocatalytic Conversion of CO ₂ to CH ₄ . <i>Journal of the American Chemical Society</i> , 2017, 139, 4486-4492.	14.2	455
21	Coordination chemistry in the design of heterogeneous photocatalysts. <i>Chemical Society Reviews</i> , 2017, 46, 2799-2823.	39.2	449
22	Amorphous Metallic NiFeP: A Conductive Bulk Material Achieving High Activity for Oxygen Evolution Reaction in Both Alkaline and Acidic Media. <i>Advanced Materials</i> , 2017, 29, 1606570.	21.5	441
23	Surface Polarization Matters: Enhancing the Hydrogen Evolution Reaction by Shrinking Pt Shells in Pt-Pd Graphene Stack Structures. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12120-12124.	14.2	436
24	Understanding the Role of Oxidative Etching in the Polyol Synthesis of Pd Nanoparticles with Uniform Shape and Size. <i>Journal of the American Chemical Society</i> , 2005, 127, 7332-7333.	14.2	428
25	Facile Synthesis of Gold-Silver Nanocages with Controllable Pores on the Surface. <i>Journal of the American Chemical Society</i> , 2006, 128, 14776-14777.	14.2	417
26	Perylenediimide Nanowires and Their Use in Fabricating Field-Effect Transistors and Complementary Inverters. <i>Nano Letters</i> , 2007, 7, 2847-2853.	9.3	410
27	Size-Dependence of Surface Plasmon Resonance and Oxidation for Pd Nanocubes Synthesized via a Seed Etching Process. <i>Nano Letters</i> , 2005, 5, 1237-1242.	9.3	399
28	Heterogeneous Single-Atom Catalyst for Visible-Light-Driven High-Turnover CO ₂ Reduction: The Role of Electron Transfer. <i>Advanced Materials</i> , 2018, 30, e1704624.	21.5	383
29	Integration of an Inorganic Semiconductor with a Metal-Organic Framework: A Platform for Enhanced Gaseous Photocatalytic Reactions. <i>Advanced Materials</i> , 2014, 26, 4783-4788.	21.5	380
30	Erythrocyte Membrane Is an Alternative Coating to Polyethylene Glycol for Prolonging the Circulation Lifetime of Gold Nanocages for Photothermal Therapy. <i>ACS Nano</i> , 2014, 8, 10414-10425.	14.9	371
31	Toward Enhanced Photocatalytic Oxygen Evolution: Synergetic Utilization of Plasmonic Effect and Schottky Junction via Interfacial Facet Selection. <i>Advanced Materials</i> , 2015, 27, 3444-3452.	21.5	371
32	Right Bipyramids of Silver: A New Shape Derived from Single Twinned Seeds. <i>Nano Letters</i> , 2006, 6, 765-768.	9.3	365
33	Precisely Tuning the Number of Fe Atoms in Clusters on N-Doped Carbon toward Acidic Oxygen Reduction Reaction. <i>CheM</i> , 2019, 5, 2865-2878.	12.0	346
34	Lattice oxygen activation enabled by high-valence metal sites for enhanced water oxidation. <i>Nature Communications</i> , 2020, 11, 4066.	13.0	337
35	Chemically exfoliated metallic MoS ₂ nanosheets: A promising supporting co-catalyst for enhancing the photocatalytic performance of TiO ₂ nanocrystals. <i>Nano Research</i> , 2015, 8, 175-183.	10.5	331
36	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.	14.2	321

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37	Novel Iron/Cobalt-Containing Polypyrrole Hydrogel-Derived Trifunctional Electrocatalyst for Self-Powered Overall Water Splitting. <i>Advanced Functional Materials</i> , 2017, 27, 1606497.	15.1	320
38	Selected-Control Synthesis of ZnO Nanowires and Nanorods via a PEG-Assisted Route. <i>Inorganic Chemistry</i> , 2003, 42, 8105-8109.	4.2	316
39	Facet-Engineered Surface and Interface Design of Photocatalytic Materials. <i>Advanced Science</i> , 2017, 4, 1600216.	11.4	307
40	Corrosion-Based Synthesis of Single-Crystal Pd Nanoboxes and Nanocages and Their Surface Plasmon Properties. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7913-7917.	14.2	305
41	Conjugated Microporous Polymer Nanosheets for Overall Water Splitting Using Visible Light. <i>Advanced Materials</i> , 2017, 29, 1702428.	21.5	302
42	Cover Picture: Shape-Controlled Synthesis of Metal Nanocrystals: Simple Chemistry Meets Complex Physics? (<i>Angew. Chem. Int. Ed.</i> 1/2009). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1-1.	14.2	288
43	CeO ₂ -Induced Interfacial Co ²⁺ Octahedral Sites and Oxygen Vacancies for Water Oxidation. <i>ACS Catalysis</i> , 2019, 9, 6484-6490.	11.4	278
44	Fabrication of Field-Effect Transistors from Hexathiapentacene Single-Crystal Nanowires. <i>Nano Letters</i> , 2007, 7, 668-675.	9.3	272
45	Implementing Metal-Ligand Charge Transfer in Organic Semiconductor for Improved Visible-Near-Infrared Photocatalysis. <i>Advanced Materials</i> , 2016, 28, 6959-6965.	21.5	268
46	Photocatalytic CO ₂ conversion: What can we learn from conventional CO _x hydrogenation?. <i>Chemical Society Reviews</i> , 2020, 49, 6579-6591.	39.2	268
47	Enabling Visible-Light-Driven Selective CO ₂ Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H ₂ Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16447-16451.	14.2	262
48	Visible-Light-Driven Nitrogen Fixation Catalyzed by Bi ₅ O ₇ Br Nanostructures: Enhanced Performance by Oxygen Vacancies. <i>Journal of the American Chemical Society</i> , 2020, 142, 12430-12439.	14.2	260
49	Direct Observation of Dynamic Bond Evolution in Single-Atom Pt/C ₃ N ₄ Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6224-6229.	14.2	256
50	Synthesis of Palladium Icosahedra with Twinned Structure by Blocking Oxidative Etching with Citric Acid or Citrate Ions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 790-794.	14.2	254
51	Recent Progress on Electrocatalyst and Photocatalyst Design for Nitrogen Reduction. <i>Small Methods</i> , 2019, 3, 1800388.	8.7	252
52	Nanocrystals with Unconventional Shapes—A Class of Promising Catalysts. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7157-7159.	14.2	250
53	Van der Waals Heterostructures Comprised of Ultrathin Polymer Nanosheets for Efficient Z-Scheme Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3454-3458.	14.2	248
54	Surface Plasmon Enabling Nitrogen Fixation in Pure Water through a Dissociative Mechanism under Mild Conditions. <i>Journal of the American Chemical Society</i> , 2019, 141, 7807-7814.	14.2	235

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55	Large-Scale Fabrication of TiO ₂ Hierarchical Hollow Spheres. <i>Inorganic Chemistry</i> , 2006, 45, 3493-3495.	4.2	230
56	Dynamic Evolution of Atomically Dispersed Cu Species for CO ₂ Photoreduction to Solar Fuels. <i>ACS Catalysis</i> , 2019, 9, 4824-4833.	11.4	230
57	Oxidative etching for controlled synthesis of metal nanocrystals: atomic addition and subtraction. <i>Chemical Society Reviews</i> , 2014, 43, 6288.	39.2	229
58	Two-dimensional g-C ₃ N ₄ : an ideal platform for examining facet selectivity of metal co-catalysts in photocatalysis. <i>Chemical Communications</i> , 2014, 50, 6094-6097.	4.2	225
59	Metal-Organic Framework Coating Enhances the Performance of Cu ₂ O in Photoelectrochemical CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 10924-10929.	14.2	219
60	A Water-Based Synthesis of Octahedral, Decahedral, and Icosahedral Pd Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9279-9282.	14.2	218
61	2D Polymers as Emerging Materials for Photocatalytic Overall Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1801955.	21.5	211
62	Turning Au Nanoclusters Catalytically Active for Visible-Light-Driven CO ₂ Reduction through Bridging Ligands. <i>Journal of the American Chemical Society</i> , 2018, 140, 16514-16520.	14.2	208
63	Stable Metallic 1Tâ€WS ₂ Nanoribbons Intercalated with Ammonia Ions: The Correlation between Structure and Electrical/Optical Properties. <i>Advanced Materials</i> , 2015, 27, 4837-4844.	21.5	207
64	Surface-bound reactive oxygen species generating nanozymes for selective antibacterial action. <i>Nature Communications</i> , 2021, 12, 745.	13.0	202
65	Synthesis of silver nanoplates at high yields by slowing down the polyol reduction of silver nitrate with polyacrylamide. <i>Journal of Materials Chemistry</i> , 2007, 17, 2600.	6.7	201
66	Synthesis of rod-, twinrod-, and tetrapod-shaped CdS nanocrystals using a highly oriented solvothermal recrystallization technique. <i>Journal of Materials Chemistry</i> , 2002, 12, 748-753.	6.7	192
67	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. <i>Nature Communications</i> , 2019, 10, 1779.	13.0	185
68	Modification of NaYF ₄ :Yb,Er@SiO ₂ Nanoparticles with Gold Nanocrystals for Tunable Green-to-Red Upconversion Emissions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3291-3296.	3.2	182
69	Trimetallic TriStar Nanostructures: Tuning Electronic and Surface Structures for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2016, 28, 2077-2084.	21.5	181
70	Surface and interface design in cocatalysts for photocatalytic water splitting and CO ₂ reduction. <i>RSC Advances</i> , 2016, 6, 57446-57463.	3.7	178
71	In situ micelleâ€templateâ€interface reaction route to CdS nanotubes and nanowires. <i>Journal of Materials Chemistry</i> , 2002, 12, 3712-3716.	6.7	176
72	Designing pâ€Type Semiconductorâ€Metal Hybrid Structures for Improved Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5107-5111.	14.2	176

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73	Recent progress on advanced design for photoelectrochemical reduction of CO ₂ to fuels. <i>Science China Materials</i> , 2018, 61, 771-805.	6.4	172
74	Noble-metal-free Janus-like Structures by Cation Exchange for Z-scheme Photocatalytic Water Splitting under Broadband Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4206-4210.	14.2	166
75	One-step solution-based catalytic route to fabricate novel γ -MnO ₂ hierarchical structures on a large scale. <i>Chemical Communications</i> , 2005, , 918-920.	4.2	158
76	Trimeric Clusters of Silver in Aqueous AgNO ₃ Solutions and Their Role as Nuclei in Forming Triangular Nanoplates of Silver. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4917-4921.	14.2	153
77	Altering Hydrogenation Pathways in Photocatalytic Nitrogen Fixation by Tuning Local Electronic Structure of Oxygen Vacancy with Dopant. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16085-16092.	14.2	152
78	Pd-Modified ZnO@Au Enabling Alkoxy Intermediates Formation and Dehydrogenation for Photocatalytic Conversion of Methane to Ethylene. <i>Journal of the American Chemical Society</i> , 2021, 143, 269-278.	14.2	151
79	Growth of Well-Aligned γ -MnO ₂ Monocrystalline Nanowires through a Coordination-Polymer-Precursor Route. <i>Chemistry - A European Journal</i> , 2003, 9, 1645-1651.	3.4	149
80	Defect engineering: A versatile tool for tuning the activation of key molecules in photocatalytic reactions. <i>Journal of Energy Chemistry</i> , 2019, 37, 43-57.	13.1	143
81	Plasmonic nanostructures in solar energy conversion. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1008-1021.	5.5	138
82	Coupling Solar Energy into Reactions: Materials Design for Surface Plasmon-mediated Catalysis. <i>Small</i> , 2015, 11, 3873-3889.	10.2	137
83	Tunable Oxygen Activation for Catalytic Organic Oxidation: Schottky Junction versus Plasmonic Effects. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3205-3209.	14.2	136
84	Integration of Multiple Plasmonic and Co-Catalyst Nanostructures on TiO ₂ Nanosheets for Visible-Near-Infrared Photocatalytic Hydrogen Evolution. <i>Small</i> , 2016, 12, 1640-1648.	10.2	136
85	Unraveling Surface Plasmon Decay in Core-shell Nanostructures toward Broadband Light-Driven Catalytic Organic Synthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 6822-6828.	14.2	136
86	Surface and Interface Engineering in Photocatalysis. <i>ChemNanoMat</i> , 2015, 1, 223-239.	2.9	135
87	A Unique Semiconductor-metal-Graphene Stack Design to Harness Charge Flow for Photocatalysis. <i>Advanced Materials</i> , 2014, 26, 5689-5695.	21.5	134
88	Boosting Photocatalytic Water Splitting: Interfacial Charge Polarization in Atomically Controlled Core-shell Cocatalysts. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14810-14814.	14.2	131
89	Large-area synthesis of monolayer WSe ₂ on a SiO ₂ /Si substrate and its device applications. <i>Nanoscale</i> , 2015, 7, 4193-4198.	5.7	128
90	Vacancy-defect modulated pathway of photoreduction of CO ₂ on single atomically thin AgInP ₂ S ₆ sheets into olefiant gas. <i>Nature Communications</i> , 2021, 12, 4747.	13.0	128

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91	Pt/AlGa _N Nanoarchitecture: Toward High Responsivity, Self-Powered Ultraviolet-Sensitive Photodetection. <i>Nano Letters</i> , 2021, 21, 120-129.	9.3	127
92	Control Over the Branched Structures of Platinum Nanocrystals for Electrocatalytic Applications. <i>ACS Nano</i> , 2012, 6, 9797-9806.	14.9	126
93	Photocatalytic oxygen evolution from low-bandgap conjugated microporous polymer nanosheets: a combined first-principles calculation and experimental study. <i>Nanoscale</i> , 2017, 9, 4090-4096.	5.7	126
94	Facile Synthesis of Tadpole-like Nanostructures Consisting of Au Heads and Pd Tails. <i>Journal of the American Chemical Society</i> , 2007, 129, 15452-15453.	14.2	124
95	Boosting Photocatalytic Hydrogen Production of a Metal-Organic Framework Decorated with Platinum Nanoparticles: The Platinum Location Matters. <i>Angewandte Chemie</i> , 2016, 128, 9535-9539.	2.0	122
96	Tracking Mechanistic Pathway of Photocatalytic CO ₂ Reaction at Ni Sites Using Operando, Time-Resolved Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 5618-5626.	14.2	121
97	Enhanced full-spectrum water splitting by confining plasmonic Au nanoparticles in N-doped TiO ₂ bowl nanoarrays. <i>Nano Energy</i> , 2016, 24, 87-93.	16.3	118
98	Some recent developments in the chemical synthesis of inorganic nanotubes. <i>Chemical Communications</i> , 2005, , 5013.	4.2	117
99	From Complex Chains to 1D Metal Oxides: A Novel Strategy to Cu ₂ O Nanowires. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3697-3702.	2.7	116
100	Thermally Stable Hematite Hollow Nanowires. <i>Inorganic Chemistry</i> , 2004, 43, 6540-6542.	4.2	115
101	Palladium-Based Nanomaterials: A Platform to Produce Reactive Oxygen Species for Catalyzing Oxidation Reactions. <i>Advanced Materials</i> , 2015, 27, 7025-7042.	21.5	115
102	Elegant Construction of ZnIn ₂ S ₄ /BiVO ₄ Hierarchical Heterostructures as Direct Z-Scheme Photocatalysts for Efficient CO ₂ Photoreduction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15092-15100.	8.2	115
103	Rational Growth of Various γ -MnO ₂ Hierarchical Structures and β -MnO ₂ Nanorods via a Homogeneous Catalytic Route. <i>Crystal Growth and Design</i> , 2005, 5, 1953-1958.	3.1	110
104	Synthesis and characterization of fivefold twinned nanorods and right bipyramids of palladium. <i>Chemical Physics Letters</i> , 2007, 440, 273-278.	2.6	109
105	Surface Local Polarization Induced by Bismuth-Oxygen Vacancy Pairs Tuning Non-Covalent Interaction for CO ₂ Photoreduction. <i>Advanced Energy Materials</i> , 2021, 11, 2102389.	19.9	109
106	Composition-dependent activity of Cu-Pt alloy nanocubes for electrocatalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4134-4138.	10.4	107
107	Pd-Ag alloy hollow nanostructures with interatomic charge polarization for enhanced electrocatalytic formic acid oxidation. <i>Nano Research</i> , 2016, 9, 1590-1599.	10.5	102
108	Development of a Cloud-Based Epidermal MoSe ₂ Device for Hazardous Gas Sensing. <i>Advanced Functional Materials</i> , 2019, 29, 1900138.	15.1	102

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109	Fabrication of Self-Supported Patterns of Aligned Fe^{2+} -FeOOH Nanowires by a Low-Temperature Solution Reaction. <i>Chemistry - A European Journal</i> , 2003, 9, 4991-4996.	3.4	101
110	Surface-enhanced Raman scattering of 4-mercaptopyridine on thin films of nanoscale Pd cubes, boxes, and cages. <i>Chemical Physics Letters</i> , 2006, 417, 230-234.	2.6	100
111	Aqueous-Solution Growth of GaP and InP Nanowires: A General Route to Phosphide, Oxide, Sulfide, and Tungstate Nanowires. <i>Chemistry - A European Journal</i> , 2004, 10, 654-660.	3.4	98
112	Solvothermal Synthesis of Ternary Cu_2MoS_4 Nanosheets: Structural Characterization at the Atomic Level. <i>Small</i> , 2014, 10, 4637-4644.	10.2	97
113	The Nature of Photocatalytic "Water Splitting" on Silicon Nanowires. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2980-2985.	14.2	97
114	Pt ₄ PdCu _{0.4} alloy nanoframes as highly efficient and robust bifunctional electrocatalysts for oxygen reduction reaction and formic acid oxidation. <i>Nano Energy</i> , 2017, 39, 532-538.	16.3	97
115	Some recent developments in surface and interface design for photocatalytic and electrocatalytic hybrid structures. <i>Chemical Communications</i> , 2015, 51, 10261-10271.	4.2	96
116	Hydriding Pd cocatalysts: An approach to giant enhancement on photocatalytic CO ₂ reduction into CH ₄ . <i>Nano Research</i> , 2017, 10, 3396-3406.	10.5	95
117	Crystal phase engineering on photocatalytic materials for energy and environmental applications. <i>Nano Research</i> , 2019, 12, 2031-2054.	10.5	95
118	A New Cubic Phase for a NaYF ₄ Host Matrix Offering High Upconversion Luminescence Efficiency. <i>Advanced Materials</i> , 2015, 27, 5528-5533.	21.5	94
119	Efficient Coupling of Solar Energy to Catalytic Hydrogenation by Using Well-Designed Palladium Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2425-2430.	14.2	93
120	Recent advances in engineering active sites for photocatalytic CO ₂ reduction. <i>Nanoscale</i> , 2020, 12, 12196-12209.	5.7	93
121	Switching Light for Site-Directed Spatial Loading of Cocatalysts onto Heterojunction Photocatalysts with Boosted Redox Catalysis. <i>ACS Catalysis</i> , 2020, 10, 3194-3202.	11.4	93
122	N-doped carbon-stabilized PtCo nanoparticles derived from Pt@ZIF-67: Highly active and durable catalysts for oxygen reduction reaction. <i>Nano Research</i> , 2017, 10, 3228-3237.	10.5	90
123	Cubic to Tetragonal Phase Transformation in Cold-Compressed Pd Nanocubes. <i>Nano Letters</i> , 2008, 8, 972-975.	9.3	89
124	Controllably Interfacing with Metal: A Strategy for Enhancing CO Oxidation on Oxide Catalysts by Surface Polarization. <i>Journal of the American Chemical Society</i> , 2014, 136, 14650-14653.	14.2	89
125	IrW nanochannel support enabling ultrastable electrocatalytic oxygen evolution at $2\text{H}^+\text{O}_2$ in acidic media. <i>Nature Communications</i> , 2021, 12, 3540.	13.0	89
126	High-performance photocatalytic nonoxidative conversion of methane to ethane and hydrogen by heteroatoms-engineered TiO ₂ . <i>Nature Communications</i> , 2022, 13, 2806.	13.0	89

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127	Controlling Oxygen Reduction Selectivity through Steric Effects: Electrocatalytic Two-Electron and Four-Electron Oxygen Reduction with Cobalt Porphyrin Atropisomers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12742-12746.	14.2	85
128	Platinum Multicubes Prepared by Ni ²⁺ -Mediated Shape Evolution Exhibit High Electrocatalytic Activity for Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5666-5671.	14.2	84
129	A Novel in Situ Oxidization-Sulfidation Growth Route via self-Purification Process to In_2S_3 Dendrites. <i>Journal of Solid State Chemistry</i> , 2002, 166, 336-340.	3.0	83
130	Production of novel amorphous carbon nanostructures from ferrocene in low-temperature solution. <i>Carbon</i> , 2004, 42, 1447-1453.	10.4	82
131	A mild solvothermal route to chalcopyrite quaternary semiconductor $\text{CuIn}(\text{SexS}_{1-x})_2$ nanocrystallites. <i>Journal of Materials Chemistry</i> , 2001, 11, 1417-1420.	6.7	79
132	Synthesis of rhombic hierarchical YF ₃ nanocrystals and their use as upconversion photocatalysts after TiO ₂ coating. <i>Nanoscale</i> , 2013, 5, 3030.	5.7	78
133	Governing Interlayer Strain in Bismuth Nanocrystals for Efficient Ammonia Electrosynthesis from Nitrate Reduction. <i>ACS Nano</i> , 2022, 16, 4795-4804.	14.9	76
134	2020 roadmap on pore materials for energy and environmental applications. <i>Chinese Chemical Letters</i> , 2019, 30, 2110-2122.	9.0	75
135	Pt Nanoparticles Surfactant-Directed Assembled into Colloidal Spheres and used as Substrates in Forming Pt Nanorods and Nanowires. <i>Small</i> , 2006, 2, 1340-1343.	10.2	74
136	Designing Highly Efficient and Long-Term Durable Electrocatalyst for Oxygen Evolution by Coupling B and P into Amorphous Porous NiFe-Based Material. <i>Small</i> , 2019, 15, e1901020.	10.2	71
137	Efficient Photoelectrochemical Conversion of Methane into Ethylene Glycol by WO ₃ Nanobar Arrays. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9357-9361.	14.2	71
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