

# Yujie Xiong

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

282  
papers

34,662  
citations

97  
h-index

183  
g-index

320  
ext. papers

39,852  
ext. citations

12  
avg, IF

7.66  
L-index

#	Paper	IF	Citations
282	Recent Advances in Porous Materials for Photocatalytic CO Reduction.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 13, 1272-1282	6.4	2
281	Ppm-level Cu dopant on ultrathin Pd nanosheets/TiO <sub>2</sub> for highly enhanced photocatalytic alcoholysis of epoxides. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 121211	21.8	0
280	Enabling photocatalytic hydrogen production over Fe-based MOFs by refining band structure with dye sensitization. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132217	14.7	5
279	Solar-driven conversion of greenhouse gases toward closing the artificial carbon-cycle loop. <i>Chem Catalysis</i> , <b>2022</b> , 2, 226-228		1
278	Structural Reconstruction of Cu O Superparticles toward Electrocatalytic CO Reduction with High C Products Selectivity.. <i>Advanced Science</i> , <b>2022</b> , e2105292	13.6	6
277	Identification and Design of Active Sites on Photocatalysts for the Direct Artificial Carbon Cycle. <i>Accounts of Materials Research</i> , <b>2022</b> , 3, 331-342	7.5	6
276	Molybdenum Sulfide Quantum Dots Decorated on TiO <sub>2</sub> for Photocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 702-709	5.6	1
275	Direct Electron Transfer from Upconversion Graphene Quantum Dots to TiO Enabling Infrared Light-Driven Overall Water Splitting.. <i>Research</i> , <b>2022</b> , 2022, 9781453	7.8	1
274	Stacked Plasmonic Metamaterial with Strong Localized Electric Field Enables Highly Efficient Broadband Light-Driven CO Hydrogenation.. <i>Advanced Materials</i> , <b>2022</b> , e2202367	24	5
273	High-performance photocatalytic nonoxidative conversion of methane to ethane and hydrogen by heteroatoms-engineered TiO.. <i>Nature Communications</i> , <b>2022</b> , 13, 2806	17.4	7
272	Bioinspiration toward efficient photosynthetic systems: From biohybrids to biomimetics. <i>Chem Catalysis</i> , <b>2021</b> , 1, 1367-1367		4
271	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> , <b>2021</b> , 143, 269-278	16.4	43
270	Efficient Photoelectrochemical Conversion of Methane into Ethylene Glycol by WO <sub>3</sub> Nanobar Arrays. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9443-9447	3.6	4
269	Fundamental Insights into Surface Modification of Silicon Material toward Improved Activity and Durability in Photocatalytic Hydrogen Production: A Case Study of Pre-Lithiation. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 5542-5548	3.8	3
268	Efficient Photoelectrochemical Conversion of Methane into Ethylene Glycol by WO Nanobar Arrays. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 9357-9361	16.4	24
267	Elegant Construction of ZnInS/BiVO Hierarchical Heterostructures as Direct Z-Scheme Photocatalysts for Efficient CO Photoreduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 15092-15100 <sup>33</sup>	9.5	33
266	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> , <b>2021</b> , 60, 12742-12746	16.4	24

265	Efficient photoelectrochemical CO <sub>2</sub> conversion for selective acetic acid production. <i>Science Bulletin</i> , <b>2021</b> , 66, 1296-1296	10.6	12
264	Phosphate-induced interfacial electronic engineering in VPO <sub>4</sub> -Ni <sub>2</sub> P heterostructure for improved electrochemical water oxidation. <i>Chinese Chemical Letters</i> , <b>2021</b> , 33, 452-452	8.1	1
263	Metal Substitution Steering Electron Correlations in Pyrochlore Ruthenates for Efficient Acidic Water Oxidation. <i>ACS Nano</i> , <b>2021</b> , 15, 8537-8548	16.7	11
262	IrW nanochannel support enabling ultrastable electrocatalytic oxygen evolution at 2 A cm in acidic media. <i>Nature Communications</i> , <b>2021</b> , 12, 3540	17.4	26
261	Altering Hydrogenation Pathways in Photocatalytic Nitrogen Fixation by Tuning Local Electronic Structure of Oxygen Vacancy with Dopant. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 16085-16092	16.4	37
260	Altering Hydrogenation Pathways in Photocatalytic Nitrogen Fixation by Tuning Local Electronic Structure of Oxygen Vacancy with Dopant. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16221-16228	3.6	4
259	Centromere targeting of Mis18 requires the interaction with DNA and H2A-H2B in fission yeast. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 78, 373-384	10.3	0
258	Time-Resolved X-Ray Absorption Spectroscopy: Visualizing the Time Evolution of Photophysics and Photochemistry in Photocatalytic Solar Energy Conversion. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000468	7.1	5
257	Boron doping and high curvature in Bi nanorolls for promoting photoelectrochemical nitrogen fixation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 284, 119689	21.8	17
256	Pt/AlGa <sub>N</sub> Nanoarchitecture: Toward High Responsivity, Self-Powered Ultraviolet-Sensitive Photodetection. <i>Nano Letters</i> , <b>2021</b> , 21, 120-129	11.5	55
255	Bimetallic oxyhydroxide in situ derived from an Fe <sub>2</sub> Co-MOF for efficient electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13271-13278	13	10
254	Electrocatalytic fixation of N <sub>2</sub> into NO <sub>3</sub> <sup>-</sup> electron transfer between oxygen vacancies and loaded Au in Nb <sub>2</sub> O <sub>5</sub> nanobelts to promote ambient nitrogen oxidation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17442-17450	13	6
253	Transparent and flexible resins functionalized by lanthanide-based upconversion nanocrystals. <i>Dalton Transactions</i> , <b>2021</b> , 50, 6432-6436	4.3	
252	Fe <sub>2</sub> O <sub>3</sub> /Ag/CdS ternary heterojunction photoanode for efficient solar water oxidation. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 5859-5867	5.5	2
251	Surface-bound reactive oxygen species generating nanozymes for selective antibacterial action. <i>Nature Communications</i> , <b>2021</b> , 12, 745	17.4	59
250	Vacancy-defect modulated pathway of photoreduction of CO on single atomically thin AgInPS sheets into olefiant gas. <i>Nature Communications</i> , <b>2021</b> , 12, 4747	17.4	28
249	Limiting the Uncoordinated N Species in M-N Single-Atom Catalysts toward Electrocatalytic CO Reduction in Broad Voltage Range. <i>Advanced Materials</i> , <b>2021</b> , e2104090	24	11
248	Van der waals heterostructures by single cobalt sites-anchored graphene and g-C <sub>3</sub> N <sub>4</sub> nanosheets for photocatalytic syngas production with tunable CO/H <sub>2</sub> ratio. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 295, 120261	21.8	15

247	Ultrastable Cu Catalyst for CO Electroreduction to Multicarbon Liquid Fuels by Tuning C-C Coupling with CuTi Subsurface. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26122-26127	16.4	7
246	Self-optimizing iron phosphorus oxide for stable hydrogen evolution at high current. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120559	21.8	2
245	Working-in-tandem mechanism of multi-dopants in enhancing electrocatalytic nitrogen reduction reaction performance of carbon-based materials. <i>Nano Research</i> , <b>2021</b> , 14, 3234-3239	10	6
244	Recent advances in engineering active sites for photocatalytic CO reduction. <i>Nanoscale</i> , <b>2020</b> , 12, 12196-12209	37	
243	Visible-Light-Driven Nitrogen Fixation Catalyzed by BiOBr Nanostructures: Enhanced Performance by Oxygen Vacancies. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 12430-12439	16.4	107
242	Heterogeneous Single-Atom Photocatalysts: Fundamentals and Applications. <i>Chemical Reviews</i> , <b>2020</b> , 120, 12175-12216	68.1	269
241	Catalyst: How Material Chemistry Enables Solar-Driven CO <sub>2</sub> Conversion. <i>Chem</i> , <b>2020</b> , 6, 1035-1038	16.2	20
240	Boosting Photocatalytic Activity in Cross-Coupling Reactions by Constructing Pd-Oxide Heterostructures. <i>ChemNanoMat</i> , <b>2020</b> , 6, 920-924	3.5	2
239	Tracking Mechanistic Pathway of Photocatalytic CO Reaction at Ni Sites Using Operando, Time-Resolved Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 5618-5626	16.4	57
238	Switching Light for Site-Directed Spatial Loading of Cocatalysts onto Heterojunction Photocatalysts with Boosted Redox Catalysis. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3194-3202	13.1	52
237	Sulfur Atomically Doped Bismuth Nanobelt Driven by Electrochemical Self-Reconstruction for Boosted Electrocatalysis. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1746-1752	6.4	17
236	Oxygen vacancy mediated bismuth stannate ultra-small nanoparticle towards photocatalytic CO <sub>2</sub> -to-CO conversion. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 276, 119156	21.8	30
235	Metal-free electrocatalysts for nitrogen reduction reaction. <i>EnergyChem</i> , <b>2020</b> , 2, 100040	36.9	18
234	Direct Observation of Dynamic Bond Evolution in Single-Atom Pt/C N Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6224-6229	16.4	113
233	Direct Observation of Dynamic Bond Evolution in Single-Atom Pt/C <sub>3</sub> N <sub>4</sub> Catalysts. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6283-6288	3.6	11
232	In situ no-slot joint integration of half-metallic C(CN) <sub>3</sub> cocatalyst into g-C <sub>3</sub> N <sub>4</sub> scaffold: An absolute metal-free in-plane heterosystem for efficient and selective photoconversion of CO <sub>2</sub> into CO. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 264, 118470	21.8	26
231	Anchoring Positively Charged Pd Single Atoms in Ordered Porous Ceria to Boost Catalytic Activity and Stability in Suzuki Coupling Reactions. <i>Small</i> , <b>2020</b> , 16, e2001782	11	23
230	Photocatalytic CO conversion: What can we learn from conventional CO hydrogenation?. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 6579-6591	58.5	113

229	Lattice oxygen activation enabled by high-valence metal sites for enhanced water oxidation. <i>Nature Communications</i> , <b>2020</b> , 11, 4066	17.4	105
228	Design of CuInS <sub>2</sub> hollow nanostructures toward CO <sub>2</sub> electroreduction. <i>Science China Chemistry</i> , <b>2020</b> , 63, 1721-1726	7.9	12
227	Integrating bimetallic AuPd nanocatalysts with a 2D aza-fused $\pi$ -conjugated microporous polymer for light-driven benzyl alcohol oxidation. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 231-234	8.1	7
226	Precisely Tuning the Number of Fe Atoms in Clusters on N-Doped Carbon toward Acidic Oxygen Reduction Reaction. <i>Chem</i> , <b>2019</b> , 5, 2865-2878	16.2	180
225	CeO <sub>2</sub> -Induced Interfacial Co <sup>2+</sup> Octahedral Sites and Oxygen Vacancies for Water Oxidation. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6484-6490	13.1	151
224	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> , <b>2019</b> , 15, e1901020	11	36
223	Metal-organic frameworks for artificial photosynthesis via photoelectrochemical route. <i>Current Opinion in Electrochemistry</i> , <b>2019</b> , 17, 114-120	7.2	11
222	Metal-Organic Framework Coating Enhances the Performance of CuO in Photoelectrochemical CO Reduction. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 10924-10929	16.4	123
221	Design of atomically dispersed catalytic sites for photocatalytic CO reduction. <i>Nanoscale</i> , <b>2019</b> , 11, 11064-11074	7.7	14
220	Time-Dependent Surface Oxidation of Pd Nanocubes and its Role in Controlling Catalytic Performance. <i>ChemNanoMat</i> , <b>2019</b> , 5, 878-882	3.5	2
219	Sensors: Development of a Cloud-Based Epidermal MoSe <sub>2</sub> Device for Hazardous Gas Sensing (Adv. Funct. Mater. 18/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970122	15.6	1
218	Porous amorphous NiFeOx/NiFeP framework with dual electrocatalytic functions for water electrolysis. <i>Journal of Power Sources</i> , <b>2019</b> , 428, 76-81	8.9	19
217	Surface Plasmon Enabling Nitrogen Fixation in Pure Water through a Dissociative Mechanism under Mild Conditions. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7807-7814	16.4	151
216	Electrocatalysts: 2D Layered Double Hydroxides for Oxygen Evolution Reaction: From Fundamental Design to Application (Adv. Energy Mater. 17/2019). <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1970057	21.8	8
215	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. <i>Nature Communications</i> , <b>2019</b> , 10, 1779	17.4	83
214	Dynamic Evolution of Atomically Dispersed Cu Species for CO <sub>2</sub> Photoreduction to Solar Fuels. <i>ACS Catalysis</i> , <b>2019</b> , 9, 4824-4833	13.1	128
213	Tandem nanocatalyst design: putting two step-reaction sites into one location towards enhanced hydrogen transfer reactions. <i>Science China Materials</i> , <b>2019</b> , 62, 1297-1305	7.1	2
212	2D Layered Double Hydroxides for Oxygen Evolution Reaction: From Fundamental Design to Application. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803358	21.8	296

211	Regulating C-C coupling in thermocatalytic and electrocatalytic CO conversion based on surface science. <i>Chemical Science</i> , <b>2019</b> , 10, 7310-7326	9.4	23
210	Photogenerated Charge Separation and Photocatalytic Hydrogen Production of TiO <sub>2</sub> /Graphene Composite Materials. <i>Acta Chimica Sinica</i> , <b>2019</b> , 77, 520	3.3	6
209	Development of a Cloud-Based Epidermal MoSe <sub>2</sub> Device for Hazardous Gas Sensing. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900138	15.6	54
208	Ethylene/1-Hexene Copolymerization with Modified Ziegler-Natta Catalyst. <i>Chemical Research in Chinese Universities</i> , <b>2019</b> , 35, 1089-1094	2.2	2
207	2020 roadmap on pore materials for energy and environmental applications. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 2110-2122	8.1	69
206	Crystal phase engineering on photocatalytic materials for energy and environmental applications. <i>Nano Research</i> , <b>2019</b> , 12, 2031-2054	10	66
205	Recent Progress on Electrocatalyst and Photocatalyst Design for Nitrogen Reduction. <i>Small Methods</i> , <b>2019</b> , 3, 1800388	12.8	169
204	Defect engineering: A versatile tool for tuning the activation of key molecules in photocatalytic reactions. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 37, 43-57	12	84
203	Surface Modification on Pd Nanostructures for Selective Styrene Oxidation with Molecular Oxygen. <i>ChemNanoMat</i> , <b>2018</b> , 4, 467-471	3.5	13
202	Recent progress on advanced design for photoelectrochemical reduction of CO <sub>2</sub> to fuels. <i>Science China Materials</i> , <b>2018</b> , 61, 771-805	7.1	115
201	Van der Waals Heterostructures Comprised of Ultrathin Polymer Nanosheets for Efficient Z-Scheme Overall Water Splitting. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 3512-3516	3.6	49
200	Van der Waals Heterostructures Comprised of Ultrathin Polymer Nanosheets for Efficient Z-Scheme Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 3454-3458	16.4	176
199	Heterogeneous Single-Atom Catalyst for Visible-Light-Driven High-Turnover CO Reduction: The Role of Electron Transfer. <i>Advanced Materials</i> , <b>2018</b> , 30, e1704624	24	254
198	Controlling AuPd Surface on Au Nanocubes for Selective Catalytic Alkyne Semihydrogenation. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1700377	3.1	4
197	Steering plasmonic hot electrons to realize enhanced full-spectrum photocatalytic hydrogen evolution. <i>Chinese Journal of Catalysis</i> , <b>2018</b> , 39, 453-462	11.3	16
196	Surface and interface design for photocatalytic water splitting. <i>Dalton Transactions</i> , <b>2018</b> , 47, 12035-12049	4.9	13
195	2D Polymers as Emerging Materials for Photocatalytic Overall Water Splitting. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801955	24	147
194	Surface Modification on Pd-TiO Hybrid Nanostructures towards Highly Efficient H <sub>2</sub> Production from Catalytic Formic Acid Decomposition. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 18398-18402	4.8	10

193	Design of Pd{111}-TiO <sub>2</sub> interface for enhanced catalytic efficiency towards formic acid decomposition. <i>Science China Chemistry</i> , <b>2018</b> , 61, 1123-1127	7.9	2
192	Scalable Fabrication of Highly Active and Durable Membrane Electrodes toward Water Oxidation. <i>Small</i> , <b>2018</b> , 14, 1702109	11	17
191	Enhanced O <sub>2</sub> reduction on atomically thin Pt-based nanoshells by integrating surface facet, interfacial electronic, and substrate stabilization effects. <i>Nano Research</i> , <b>2018</b> , 11, 3313-3326	10	16
190	pH-sensitive zwitterionic coating of gold nanocages improves tumor targeting and photothermal treatment efficacy. <i>Nano Research</i> , <b>2018</b> , 11, 3193-3204	10	44
189	Turning Au Nanoclusters Catalytically Active for Visible-Light-Driven CO Reduction through Bridging Ligands. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 16514-16520	16.4	134
188	Solar Energy Conversion: 2D Polymers as Emerging Materials for Photocatalytic Overall Water Splitting (Adv. Mater. 48/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870369	24	17
187	Enabling Visible-Light-Driven Selective CO <sub>2</sub> Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H <sub>2</sub> Evolution. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16685-16689	3.6	18
186	Enabling Visible-Light-Driven Selective CO Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16447-16451	16.4	153
185	Defect engineering in photocatalytic materials. <i>Nano Energy</i> , <b>2018</b> , 53, 296-336	17.1	417
184	Refining Defect States in WO <sub>3</sub> by Mo Doping: A Strategy for Tuning N Activation towards Solar-Driven Nitrogen Fixation. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 9434-9443	16.4	462
183	Isolation of Cu Atoms in Pd Lattice: Forming Highly Selective Sites for Photocatalytic Conversion of CO to CH <sub>4</sub> . <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 4486-4492	16.4	317
182	Photocatalytic oxygen evolution from low-bandgap conjugated microporous polymer nanosheets: a combined first-principles calculation and experimental study. <i>Nanoscale</i> , <b>2017</b> , 9, 4090-4096	7.7	105
181	Near-surface dilution of trace Pd atoms to facilitate Pd-H bond cleavage for giant enhancement of electrocatalytic hydrogen evolution. <i>Nano Energy</i> , <b>2017</b> , 34, 306-312	17.1	36
180	PdPt Alloy Nanocatalysts Supported on TiO <sub>2</sub> : Maneuvering Metal-Hydrogen Interactions for Light-Driven and Water-Donating Selective Alkyne Semihydrogenation. <i>Small</i> , <b>2017</b> , 13, 1604173	11	25
179	Hydriding Pd cocatalysts: An approach to giant enhancement on photocatalytic CO <sub>2</sub> reduction into CH <sub>4</sub> . <i>Nano Research</i> , <b>2017</b> , 10, 3396-3406	10	72
178	Amorphous Metallic NiFeP: A Conductive Bulk Material Achieving High Activity for Oxygen Evolution Reaction in Both Alkaline and Acidic Media. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606570	24	320
177	Defective Tungsten Oxide Hydrate Nanosheets for Boosting Aerobic Coupling of Amines: Synergistic Catalysis by Oxygen Vacancies and Brønsted Acid Sites. <i>Small</i> , <b>2017</b> , 13, 1701354	11	44
176	N-doped carbon-stabilized PtCo nanoparticles derived from Pt@ZIF-67: Highly active and durable catalysts for oxygen reduction reaction. <i>Nano Research</i> , <b>2017</b> , 10, 3228-3237	10	68

175	Coordination chemistry in the design of heterogeneous photocatalysts. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 2799-2823	58.5	305
174	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> , <b>2017</b> , 56, 4206-4210	16.4	142
173	Noble-Metal-Free Janus-like Structures by Cation Exchange for Z-Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 4270-4274	3.6	48
172	Novel Iron/Cobalt-Containing Polypyrrole Hydrogel-Derived Trifunctional Electrocatalyst for Self-Powered Overall Water Splitting. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606497	15.6	255
171	Engineering the surface charge states of nanostructures for enhanced catalytic performance. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1951-1964	7.8	51
170	Plasmonic nanostructures in solar energy conversion. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 1008-1021	7.1	107
169	Pt4PdCu0.4 alloy nanoframes as highly efficient and robust bifunctional electrocatalysts for oxygen reduction reaction and formic acid oxidation. <i>Nano Energy</i> , <b>2017</b> , 39, 532-538	17.1	84
168	Conjugated Microporous Polymer Nanosheets for Overall Water Splitting Using Visible Light. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702428	24	211
167	Silicon nanostructures for solar-driven catalytic applications. <i>Nano Today</i> , <b>2017</b> , 17, 96-116	17.9	44
166	Facet-Engineered Surface and Interface Design of Photocatalytic Materials. <i>Advanced Science</i> , <b>2017</b> , 4, 1600216	13.6	223
165	Highly Crystalline Mesoporous Silicon Spheres for Efficient Visible Photocatalytic Hydrogen Evolution. <i>ChemNanoMat</i> , <b>2017</b> , 3, 22-26	3.5	24
164	Long-term production of H <sub>2</sub> over Pt/CdS nanoplates under sunlight illumination. <i>Chemical Engineering Journal</i> , <b>2016</b> , 283, 351-357	14.7	50
163	A Metal-Amino Acid Complex-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Zinc-Air Batteries. <i>Small</i> , <b>2016</b> , 12, 5414-5421	11	41
162	Atomic layer deposition on Pd nanocrystals for forming Pd-TiO <sub>2</sub> interface toward enhanced CO oxidation. <i>Progress in Natural Science: Materials International</i> , <b>2016</b> , 26, 289-294	3.6	15
161	Photostable Cu <sub>2</sub> O photoelectrodes fabricated by facile Zn-doping electrodeposition. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 15172-15180	6.7	25
160	Implementing Metal-to-Ligand Charge Transfer in Organic Semiconductor for Improved Visible-Near-Infrared Photocatalysis. <i>Advanced Materials</i> , <b>2016</b> , 28, 6959-65	24	200
159	Surface and interface design in cocatalysts for photocatalytic water splitting and CO <sub>2</sub> reduction. <i>RSC Advances</i> , <b>2016</b> , 6, 57446-57463	3.7	147
158	Enhanced full-spectrum water splitting by confining plasmonic Au nanoparticles in N-doped TiO <sub>2</sub> bowl nanoarrays. <i>Nano Energy</i> , <b>2016</b> , 24, 87-93	17.1	106



157	Maneuvering charge polarization and transport in 2H-MoS <sub>2</sub> for enhanced electrocatalytic hydrogen evolution reaction. <i>Nano Research</i> , <b>2016</b> , 9, 2662-2671	10	22
156	Trimetallic TriStar Nanostructures: Tuning Electronic and Surface Structures for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , <b>2016</b> , 28, 2077-84	24	154
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24	From Complex Chains to 1D Metal Oxides: A Novel Strategy to Cu <sub>2</sub> O Nanowires. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3697-3702	3.4	111
23	A novel approach to carbon hollow spheres and vessels from CCl <sub>4</sub> at low temperatures. <i>Chemical Communications</i> , <b>2003</b> , 904-5	5.8	63
22	Complexing-reagent assisted synthesis of Fe and Fe <sub>2</sub> O <sub>3</sub> nanowires under mild conditions. <i>New Journal of Chemistry</i> , <b>2003</b> , 27, 588	3.6	24
21	A novel non-template solution approach to fabricate ZnO hollow spheres with a coordination polymer as a reactant. <i>New Journal of Chemistry</i> , <b>2003</b> , 27, 1518	3.6	66
20	A Novel in Situ Oxidation/Sulfidation Growth Route via self-Purification Process to In <sub>2</sub> S <sub>3</sub> Dendrites. <i>Journal of Solid State Chemistry</i> , <b>2002</b> , 166, 336-340	3.3	81
19	Ultrasound-Assisted Self-Regulation Route to Ag Nanorods. <i>Chemistry Letters</i> , <b>2002</b> , 31, 98-99	1.7	25
18	In situ micelle-template interface reaction route to CdS nanotubes and nanowires. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 3712-3716		165
17	Synthesis of rod-, twinrod-, and tetrapod-shaped CdS nanocrystals using a highly oriented solvothermal recrystallization technique. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 748-753		181
16	A solvent-reduction and surface-modification technique to morphology control of tetragonal In <sub>2</sub> S <sub>3</sub> nanocrystals. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 98-102		11
15	From 2D framework to quasi-1D nanomaterial: preparation, characterization, and formation mechanism of Cu <sub>3</sub> SnS <sub>4</sub> nanorods. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 2953-9	5.1	58
14	Sonochemical Coreduction Route to Single-Crystalline InSb Dendrites. <i>Chemistry Letters</i> , <b>2001</b> , 30, 1038-1039		1



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12	A mild solvothermal route to chalcopyrite quaternary semiconductor CuIn(SexS1-x)2 nanocrystallites. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 1417-1420		77
11	Synthesis of MS/TiO2 (M = Pb, Zn, Cd) nanocomposites through a mild sol-gel process. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 684-686		29
10	Synthesis and Formation Mechanism of Bi(Se,S) Nanowires via a Solvothermal Template Process. <i>Chemistry Letters</i> , <b>2000</b> , 29, 790-791	1.7	11
9	Photoelectrochemical oxygen atom transfer enabling efficient selective oxygenation. <i>Science China Chemistry</i> , 1	7.9	
8	Single-atom-based catalysts for photoelectrocatalysis: challenges and opportunities. <i>Journal of Materials Chemistry A</i> ,	13	1
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4	Atomically dispersed N-coordinated Fe-Fe dual-sites with enhanced enzyme-like activities. <i>Nano Research</i> , 1	10	6
3	Surface Local Polarization Induced by Bismuth-Oxygen Vacancy Pairs Tuning Non-Covalent Interaction for CO2 Photoreduction. <i>Advanced Energy Materials</i> , 2102389	21.8	11
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1	Unraveling the Role of Interfacial Water Structure in Electrochemical Semihydrogenation of Alkynes. <i>ACS Catalysis</i> , 4840-4847	13.1	5