

Yong Zhou

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.

291
papers

18,444
citations

61
h-index

130
g-index

309
ext. papers

20,798
ext. citations

8.4
avg, IF

7.04
L-index

#	Paper	IF	Citations
291	Dimensional matched ultrathin BiVO ₄ /Ti ₃ C ₂ T _x heterosystem for efficient photocatalytic conversion of CO ₂ to methanol. <i>Materials Letters</i> , 2022 , 306, 130937	3.3	2
290	Controllable synthesis of Co-Al layered double hydroxides with different anionic intercalation layers for the efficient removal of methyl orange.. <i>Environmental Technology (United Kingdom)</i> , 2022 , 1-45	2.6	
289	Influence of charge transport layer on the crystallinity and charge extraction of pure tin-based halide perovskite film. <i>Journal of Energy Chemistry</i> , 2022 , 69, 612-615	12	0
288	Molybdenum Sulfide Quantum Dots Decorated on TiO ₂ for Photocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2022 , 5, 702-709	5.6	1
287	In Situ Determination of Polaron-Mediated Ultrafast Electron Trapping in Rutile TiO Nanorod Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10815-10822	6.4	6
286	Host/Guest Nanostructured Photoanodes Integrated with Targeted Enhancement Strategies for Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2021 , e2103744	13.6	6
285	Bismuth Vacancy-Induced Efficient CO Photoreduction in BiOCl Directly from Natural Air: A Progressive Step toward Photosynthesis in Nature. <i>Nano Letters</i> , 2021 ,	11.5	7
284	Achieving Direct Z-Scheme Charge Transfer through Constructing 2D/2D Fe ₂ O ₃ /CdS Heterostructure for Efficient Photocatalytic CO ₂ Conversion. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 23142-23152	3.8	5
283	Pushing the Limits of Energy Performance in Micron-Sized Thermite: Core/Shell Assembled Liquid Metal-Modified TiO ₂ Thermite. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11777-11786	6.1	1
282	Thermally Stable All-Perovskite Tandem Solar Cells Fully Using Metal Oxide Charge Transport Layers and Tunnel Junction. <i>Solar Rrl</i> , 2021 , 5, 2100814	7.1	9
281	Elegant Construction of ZnInS/BiVO Hierarchical Heterostructures as Direct Z-Scheme Photocatalysts for Efficient CO Photoreduction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15092-15100 ³³	9.5	33
280	3D Hydrangea-like InVO ₄ /Ti ₃ C ₂ T _x Hierarchical Heterosystem Collaborating with 2D/2D Interface Interaction for Enhanced Photocatalytic CO ₂ Reduction. <i>ChemNanoMat</i> , 2021 , 7, 815-823	3.5	4
279	Objective Findings on the K-Doped -CN Photocatalysts: The Presence and Influence of Organic Byproducts on K-Doped -CN Photocatalysis. <i>Langmuir</i> , 2021 , 37, 4859-4868	4	4
278	Orientalional Alignment of Oxygen Vacancies: Electric-Field-Inducing Conductive Channels in TiO Film to Boost Photocatalytic Conversion of CO into CO. <i>Nano Letters</i> , 2021 , 21, 5060-5067	11.5	3
277	WO ₃ homojunction photoanode: Integrating the advantages of WO ₃ different facets for efficient water oxidation. <i>Journal of Energy Chemistry</i> , 2021 , 56, 37-45	12	12
276	Compacted stainless steel mesh-supported Co ₃ O ₄ porous nanobelts for HCHO catalytic oxidation and Co ₃ O ₄ @Co ₃ S ₄ via in situ sulfurization as platinum-free counter electrode for flexible dye-sensitized solar cells. <i>Applied Surface Science</i> , 2021 , 536, 147815	6.7	15
275	Domino Effect: Gold Electrocatalyzing Lithium Reduction to Accelerate Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5257-5261	16.4	19

274	3D hierarchical architecture collaborating with 2D/2D interface interaction in NiAl-LDH/Ti3C2 nanocomposite for efficient and selective photoconversion of CO2. <i>Journal of Energy Chemistry</i> , 2021 , 59, 9-18	12	19
273	Beyond CN E conjugated metal-free polymeric semiconductors for photocatalytic chemical transformations. <i>Chemical Society Reviews</i> , 2021 , 50, 2147-2172	58.5	41
272	Domino Effect: Gold Electrocatalyzing Lithium Reduction to Accelerate Nitrogen Fixation. <i>Angewandte Chemie</i> , 2021 , 133, 5317-5321	3.6	2
271	Accurate Understanding the Catalytic Role of MnO2 in the Oxidative-Coupling of 2-naphthols into 1,1'-bi-2-naphthols. <i>Catalysis Letters</i> , 2021 , 151, 901-908	2.8	1
270	State-of-the-Art Progress in Diverse Black Phosphorus-Based Structures: Basic Properties, Synthesis, Stability, Photo- and Electrocatalysis-Driven Energy Conversion. <i>Advanced Functional Materials</i> , 2021 , 31, 2005197	15.6	18
269	Bimetallic oxyhydroxide in situ derived from an Fe2Co-MOF for efficient electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13271-13278	13	10
268	Simple fabrication of Z-scheme MgIn2S4/Bi2WO6 hierarchical heterostructures for enhancing photocatalytic reduction of Cr(VI). <i>Catalysis Science and Technology</i> , 2021 , 11, 6271-6280	5.5	3
267	Electrocatalytic fixation of N2 into NO3 ⁻ electron transfer between oxygen vacancies and loaded Au in Nb2O5 ^x nanobelts to promote ambient nitrogen oxidation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17442-17450	13	6
266	Magnetic Field-Assisted Photoelectrochemical Water Splitting: The Photoelectrodes Have Weaker Nonradiative Recombination of Carrier. <i>ACS Catalysis</i> , 2021 , 11, 1242-1247	13.1	15
265	Fe2O3/Ag/CdS ternary heterojunction photoanode for efficient solar water oxidation. <i>Catalysis Science and Technology</i> , 2021 , 11, 5859-5867	5.5	2
264	Refined Z-scheme charge transfer in facet-selective BiVO4/Au/CdS heterostructure for solar overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 8531-8538	6.7	13
263	Vacancy-defect modulated pathway of photoreduction of CO on single atomically thin AgInPS sheets into olefiant gas. <i>Nature Communications</i> , 2021 , 12, 4747	17.4	28
262	Hollow InVO Nanocuboid Assemblies toward Promoting Photocatalytic N Conversion Performance. <i>Advanced Materials</i> , 2021 , 33, e2006780	24	9
261	Engineering Self-Reconstruction via Flexible Components in Layered Double Hydroxides for Superior-Evolving Performance. <i>Small</i> , 2021 , 17, e2101671	11	2
260	Valence Regulation of Ultrathin Cerium Vanadate Nanosheets for Enhanced Photocatalytic CO2 Reduction to CO. <i>Catalysts</i> , 2021 , 11, 1115	4	1
259	Organic half-metal derived erythroid-like BiVO4/hm-C4N3 Z-Scheme photocatalyst: Reduction sites upgrading and rate-determining step modulation for overall CO2 and H2O conversion. <i>Applied Catalysis B: Environmental</i> , 2021 , 295, 120277	21.8	10
258	Dual-functional water splitting: Electro-fenton-like pollutants degradation from anode reaction and hydrogen fuel production from cathode reaction. <i>Electrochimica Acta</i> , 2021 , 394, 139122	6.7	1
257	In situ construction of a 2D/2D heterostructured ZnIn2S4/Bi2MoO6Z-scheme system for boosting the photoreduction activity of Cr(VI). <i>Catalysis Science and Technology</i> , 2021 , 11, 3885-3893	5.5	7

256	Non-isodiametric growth and confinement effect in the mineralisation of witherite. <i>Mineralogical Magazine</i> , 2020 , 84, 524-532	1.7	
255	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured $\text{Fe}_2\text{O}_3/\text{g-C}_3\text{N}_4$ Z-Scheme System for Efficient CO_2 Reduction into Solar Fuels. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6561-6572	6.1	32
254	Anchoring of black phosphorus quantum dots onto WO nanowires to boost photocatalytic CO conversion into solar fuels. <i>Chemical Communications</i> , 2020 , 56, 7777-7780	5.8	29
253	Nitrogen-Doped Carbon Nanolayer Coated Hematite Nanorods for Efficient Photoelectrocatalytic Water Oxidation. <i>Applied Catalysis B: Environmental</i> , 2020 , 275, 119113	21.8	8
252	Strained heterointerfaces in sandwich-like NiFe layered double hydroxides/ Co_{1-x}S for highly efficient and superior long-term durable oxygen evolution reaction. <i>Journal of Catalysis</i> , 2020 , 389, 132-139	7.3	14
251	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boosts Solar Hydrogen Evolution. <i>Solar Rrl</i> , 2020 , 4, 2070062	7.1	3
250	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boosts Solar Hydrogen Evolution. <i>Solar Rrl</i> , 2020 , 4, 2000094	7.1	6
249	Unpaired Electron-Induced Wide-Range Light Absorption within Zn (or Cu) MOFs Containing Electron-Withdrawing Ligands: A Theoretical and Experimental Study. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5314-5322	2.8	2
248	Exquisite design of porous carbon microtubule-scaffolding hierarchical InO-ZnInS heterostructures toward efficient photocatalytic conversion of CO into C_2H_4 . <i>Nanoscale</i> , 2020 , 12, 14676-14681	7.7	22
247	Thermodynamic and Kinetic Influence of Oxygen Vacancies on the Solar Water Oxidation Reaction of FeO Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11625-11634	9.5	21
246	Polarized emission from single perovskite FAPbBr_3 nanocrystals. <i>Journal of Luminescence</i> , 2020 , 221, 117032	3.8	11
245	Room Temperature Surface Modification of Ultrathin FeOOH Cocatalysts on Fe_2O_3 Photoanodes for High Photoelectrochemical Water Splitting. <i>Journal of Nanomaterials</i> , 2020 , 2020, 1-7	3.2	6
244	Pyridine-Diketopyrrolopyrrole-Based Novel Metal-Free Visible-Light Organophotoredox Catalyst for Atom-Transfer Radical Polymerization. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 1068-1075	2.8	11
243	In situ preparation of Bi_2S_3 nanoribbon-anchored BiVO_4 nanoscroll heterostructures for the catalysis of Cr(VI) photoreduction. <i>Catalysis Science and Technology</i> , 2020 , 10, 3843-3847	5.5	6
242	Magnetic field improved photoelectrochemical synthesis of 5,5'-azotetrazolate energetic salts and hydrogen in a hematite photoanode-based cell. <i>Electrochimica Acta</i> , 2020 , 330, 135217	6.7	4
241	Stainless steel mesh-supported three-dimensional hierarchical $\text{SnO}_2/\text{Zn}_2\text{SnO}_4$ composite for the applications in solar cell, gas sensor, and photocatalysis. <i>Applied Surface Science</i> , 2020 , 502, 144113	6.7	21
240	Photocatalytic oxidative-coupling of 5-amino-1H-tetrazole for the synthesis of 5,5'-azotetrazolate energetic salts at mild conditions. <i>Catalysis Communications</i> , 2020 , 136, 105923	3.2	0
239	In situ no-slot joint integration of half-metallic $\text{C}(\text{CN})_3$ cocatalyst into g- C_3N_4 scaffold: An absolute metal-free in-plane heterosystem for efficient and selective photoconversion of CO_2 into C_2H_4 . <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118470	21.8	26

238	Surface-state-mediated interfacial charge dynamics between carbon dots and ZnO toward highly promoting photocatalytic activity. <i>Journal of Chemical Physics</i> , 2020 , 153, 044708	3.9	5
237	Passivation Strategy of Reducing Both Electron and Hole Trap States for Achieving High-Efficiency PbS Quantum-Dot Solar Cells with Power Conversion Efficiency over 12%. <i>ACS Energy Letters</i> , 2020 , 5, 3224-3236	20.1	22
236	Cu ₃ Mo ₂ O ₉ /BiVO ₄ Heterojunction Films with Integrated Thermodynamic and Kinetic Advantages for Solar Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14082-14090	8.3	11
235	Typical strategies to facilitate charge transfer for enhanced oxygen evolution reaction: Case studies on hematite. <i>Journal of Semiconductors</i> , 2020 , 41, 091709	2.3	0
234	State-of-the-art advancements of crystal facet-exposed photocatalysts beyond TiO ₂ : Design and dependent performance for solar energy conversion and environment applications. <i>Materials Today</i> , 2020 , 33, 75-86	21.8	50
233	Convenient Synthesis of 5,5'-azotetrazolate Energetic Salts through Electrochemical Oxidative-Coupling of 5-amino-1H-tetrazole Under Mild Conditions. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 065503	3.9	1
232	Decorating CoSe ₂ hollow nanospheres on reduced graphene oxide as advanced sulfur host material for performance enhanced lithium-sulfur batteries. <i>Nano Research</i> , 2019 , 12, 2743-2748	10	27
231	Egg white-assisted preparation of inorganic functional materials: A sustainable, eco-friendly, low-cost and multifunctional method. <i>Ceramics International</i> , 2019 , 45, 23869-23889	5.1	2
230	Photoelectrochemical Driving and Simultaneous Synthesis of 3-pyridinecarboxylic Acid and Hydrogen in WO ₃ Photoanode-Based Cell. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H662-H668	3.9	5
229	State-of-the-art progress in the use of ternary metal oxides as photoelectrode materials for water splitting and organic synthesis. <i>Nano Today</i> , 2019 , 28, 100763	17.9	40
228	Insight into the Kinetic Influence of Oxygen Vacancies on the WO Photoanodes for Solar Water Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6159-6165	6.4	12
227	Hollow BiVO ₄ /Bi ₂ S ₃ cruciate heterostructures with enhanced visible-light photoactivity. <i>Catalysis Science and Technology</i> , 2019 , 9, 182-187	5.5	10
226	The interparticle distance limit for multiple exciton dissociation in PbS quantum dot solid films. <i>Nanoscale Horizons</i> , 2019 , 4, 445-451	10.8	13
225	Star-shaped multi-arm polymeric ionic liquid based on tetraalkylammonium cation as high performance gel electrolyte for lithium metal batteries. <i>Electrochimica Acta</i> , 2019 , 301, 284-293	6.7	22
224	Boosting the hydrogen evolution performance of a ternary Mo _x Co _{1-x} P nanowire array by tuning the Mo/Co ratio. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14842-14848	13	21
223	Urchin-like hierarchical CoZnAl-LDH/RGO/g-C ₃ N ₄ hybrid as a Z-scheme photocatalyst for efficient and selective CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117771	21.8	126
222	Electrodeposited amorphous cobalt phosphosulfide on Ni foams for highly efficient overall water splitting. <i>Journal of Power Sources</i> , 2019 , 431, 182-188	8.9	31
221	Influence of copper (II) on biomineralization of CaCO ₃ and preparation of micron pearl-like biomimetic CaCO ₃ . <i>Ceramics International</i> , 2019 , 45, 14354-14359	5.1	5

220	Prussian blue analogue-derived Ni and Co bimetallic oxide nanoplate arrays block-built from porous and hollow nanocubes for the efficient oxygen evolution reaction. <i>Nanoscale</i> , 2019 , 11, 11765-11773	7.7	38
219	Al-ZnO/CdS Photoanode Modified with a Triple Functions Conformal TiO ₂ Film for Enhanced Photoelectrochemical Efficiency and Stability. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117738	21.8	28
218	Metallic molybdenum sulfide nanodots as platinum-alternative co-catalysts for photocatalytic hydrogen evolution. <i>Journal of Catalysis</i> , 2019 , 374, 237-245	7.3	24
217	Foam-like Co ₉ S ₈ /Ni ₃ S ₂ heterostructure nanowire arrays for efficient bifunctional overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 253, 246-252	21.8	88
216	Selective doping of titanium into double layered hematite nanorod arrays for improved photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2019 , 486, 312-322	6.7	10
215	Highly symmetrical, 24-faceted, concave BiVO polyhedron bounded by multiple high-index facets for prominent photocatalytic O evolution under visible light. <i>Chemical Communications</i> , 2019 , 55, 4777-4780	5.8	17
214	Recycled photocatalyst and available photodetector based on ternary Bi ₆ Mo ₂ O ₁₅ sub-microcrystals. <i>Results in Physics</i> , 2019 , 13, 102117	3.7	2
213	BiVO tubular structures: oxygen defect-rich and largely exposed reactive {010} facets synergistically boost photocatalytic water oxidation and the selective N[double bond, length as m-dash]N coupling reaction of 5-amino-1H-tetrazole. <i>Chemical Communications</i> , 2019 , 55, 5635-5638	5.8	12
212	Synthesis and Optimization of Ti/Li/Al Ternary Layered Double Hydroxides for Efficient Photocatalytic Reduction of CO to CH. <i>Scientific Reports</i> , 2019 , 9, 5659	4.9	8
211	Convincing Synthesis of Atomically Thin, Single-Crystalline InVO Sheets toward Promoting Highly Selective and Efficient Solar Conversion of CO into CO. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4209-4213	16.4	124
210	Engineering Interfaces to Steer Hole Dynamics of BiVO ₄ Photoanodes for Solar Water Oxidation. <i>Solar Rrl</i> , 2019 , 3, 1900115	7.1	7
209	Insight into the Improvement Mechanism of Copper Oxide/BiVO ₄ Heterojunction Photoanodes for Solar Water Oxidation. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H513-H520	3.9	13
208	Biomimetic assembly of multilevel hydroxyapatite using bacterial cellulose hydrogel as a reactor. <i>CrystEngComm</i> , 2019 , 21, 4859-4863	3.3	5
207	Two-photon excited photoluminescence of single perovskite nanocrystals. <i>Journal of Chemical Physics</i> , 2019 , 151, 154201	3.9	12
206	Four-armed branching and thermally integrated imidazolium-based polymerized ionic liquid as an all-solid-state polymer electrolyte for lithium metal battery. <i>Electrochimica Acta</i> , 2019 , 324, 134827	6.7	19
205	Dicationic tetraalkylammonium-based polymeric ionic liquid with star and four-arm topologies as advanced solid-state electrolyte for lithium metal battery. <i>Reactive and Functional Polymers</i> , 2019 , 145, 104375	4.6	8
204	Boosting solar water oxidation activity and stability of BiVO ₄ photoanode through the Co-catalytic effect of CuCoO ₂ . <i>Electrochimica Acta</i> , 2019 , 304, 301-311	6.7	16
203	Hole dynamic acceleration over CdSO nanoparticles for high-efficiency solar hydrogen production with urea photolysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25650-25656	13	3

202	Ultrathin nanosheet-anchored hexahedral prismatic Bi ₂ MoO ₆ arrays: one-step constructed and crystal facet-based homojunctions boosting photocatalytic CO ₂ reduction and N ₂ fixation. <i>Catalysis Science and Technology</i> , 2019 , 9, 7045-7050	5.5	7
201	Few-Layer PbI Nanoparticle: A 2D Semiconductor with Lateral Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7863-7869	6.4	3
200	Preparation of an FeNi MOF on nickel foam as an efficient and stable electrocatalyst for the oxygen evolution reaction.. <i>RSC Advances</i> , 2019 , 9, 33558-33562	3.7	20
199	MoO ₃ /BiVO ₄ heterojunction film with oxygen vacancies for efficient and stable photoelectrochemical water oxidation. <i>Journal of Materials Science</i> , 2019 , 54, 671-682	4.3	11
198	Reduced-graphene-oxide-loaded MoS ₂ /Ni ₃ S ₂ nanorod arrays on Ni foam as an efficient and stable electrocatalyst for the hydrogen evolution reaction. <i>Electrochemistry Communications</i> , 2019 , 99, 22-26	5.1	15
197	Three-dimensional Bi ₂ MoO ₆ /TiO ₂ array heterojunction photoanode modified with cobalt phosphate cocatalyst for high-efficient photoelectrochemical water oxidation. <i>Catalysis Today</i> , 2019 , 335, 262-268	5.3	19
196	Direct Z scheme-fashioned photoanode systems consisting of FeO nanorod arrays and underlying thin SbSe layers toward enhanced photoelectrochemical water splitting performance. <i>Nanoscale</i> , 2018 , 11, 109-114	7.7	11
195	Quasi-Topotactic Transformation of FeOOH Nanorods to Robust FeO Porous Nanopillars Triggered with a Facile Rapid Dehydration Strategy for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10141-10146	9.5	30
194	Unique homo-heterojunction synergistic system consisting of stacked BiOCl nanoplate/Zn-Cr layered double hydroxide nanosheets promoting photocatalytic conversion of CO into solar fuels. <i>Chemical Communications</i> , 2018 , 54, 5126-5129	5.8	20
193	Self-templated preparation of hollow mesoporous TiN microspheres as sulfur host materials for advanced lithium-sulfur batteries. <i>Journal of Materials Science</i> , 2018 , 53, 10363-10371	4.3	10
192	Enhanced Photocatalytic Performance through Magnetic Field Boosting Carrier Transport. <i>ACS Nano</i> , 2018 , 12, 3351-3359	16.7	111
191	Pyridinic-nitrogen highly doped nanotubular carbon arrays grown on a carbon cloth for high-performance and flexible supercapacitors. <i>Nanoscale</i> , 2018 , 10, 3981-3989	7.7	22
190	Flux synthesis of regular BiTaOCl square nanoplates exhibiting dominant exposure surfaces of {001} crystal facets for photocatalytic reduction of CO to methane. <i>Nanoscale</i> , 2018 , 10, 1905-1911	7.7	20
189	Zn Cd S tunable band structure-directing photocatalytic activity and selectivity of visible-light reduction of CO into liquid solar fuels. <i>Nanotechnology</i> , 2018 , 29, 064003	3.4	21
188	In situ growth of zinc oxide nanoribbons within the interstices of a zinc stannate nanoplates network on compacted woven metal wires and their enhanced solar energy application. <i>Electrochimica Acta</i> , 2018 , 262, 124-134	6.7	1
187	Unconventional gas-based bottom-up, meter-area-scale fabrication of hydrogen-bond free g-CN nanorod arrays and coupling layers with TiO toward high-efficiency photoelectrochemical performance. <i>Nanoscale</i> , 2018 , 10, 3342-3349	7.7	23
186	In ³⁺ -doped BiVO ₄ photoanodes with passivated surface states for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10456-10465	13	57
185	In situ construction of hierarchical WO ₃ /g-C ₃ N ₄ composite hollow microspheres as a Z-scheme photocatalyst for the degradation of antibiotics. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 417-428	21.8	284

184	Photoelectrochemical driving and clean synthesis of energetic salts of 5,5'-azotetrazolate at room temperature. <i>Green Chemistry</i> , 2018 , 20, 3722-3726	10	14
183	Mimetic biomineralization matrix using bacterial cellulose hydrogel and egg white to prepare various morphologies of CaCO ₃ . <i>CrystEngComm</i> , 2018 , 20, 4536-4540	3.3	11
182	Enhanced photoelectrochemical water oxidation on WO ₃ nanoflake films by coupling with amorphous TiO ₂ . <i>Electrochimica Acta</i> , 2018 , 283, 871-881	6.7	29
181	Lead Selenide Colloidal Quantum Dot Solar Cells Achieving High Open-Circuit Voltage with One-Step Deposition Strategy. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3598-3603	6.4	31
180	Polyhedral 30-Faceted BiVO Microcrystals Predominantly Enclosed by High-Index Planes Promoting Photocatalytic Water-Splitting Activity. <i>Advanced Materials</i> , 2018 , 30, 1703119	24	117
179	Integration of FeS electrocatalysts and simultaneously generated interfacial oxygen vacancies to synergistically boost photoelectrochemical water splitting of FeO photoanodes. <i>Chemical Communications</i> , 2018 , 54, 13817-13820	5.8	17
178	Construction of Al-ZnO/CdS photoanodes modified with distinctive alumina passivation layer for improvement of photoelectrochemical efficiency and stability. <i>Nanoscale</i> , 2018 , 10, 19621-19627	7.7	10
177	A Compact and Smooth CH ₃ NH ₃ PbI ₃ Film: Investigation of Solvent Sorts and Concentrations of CH ₃ NH ₃ ⁺ towards Highly Efficient Perovskite Solar Cells. <i>Nanomaterials</i> , 2018 , 8,	5.4	4
176	Enhanced Photoelectrochemical Water Oxidation Performance on BiVO by Coupling of CoMoO as a Hole-Transfer and Conversion Cocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42207-42216	9.5	18
175	Boosted Water Oxidation Activity and Kinetics on BiVO Photoanodes with Multihigh-Index Crystal Facets. <i>Inorganic Chemistry</i> , 2018 , 57, 15280-15288	5.1	16
174	Two-Step Synthesis of Laminar Vanadate via a Facile Hydrothermal Route and Enhancing the Photocatalytic Reduction of CO ₂ into Solar Fuel through Tuning of the Oxygen Vacancies by in Situ Vacuum Illumination Treatment. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6857-6864	6.1	3
173	Improving the photovoltaic effect by resistive switching. <i>Applied Physics Letters</i> , 2018 , 113, 133901	3.4	4
172	Room-Temperature Preparation of Cobalt-Based Electrocatalysts through Simple Solution Treatment for Selectively High-Efficiency Hydrogen Evolution Reaction in Alkaline or Acidic Medium. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-9	3.2	1
171	Enriching Hot Electrons via NIR-Photon-Excited Plasmon in WS ₂ @Cu Hybrids for Full-Spectrum Solar Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2018 , 28, 1804055	15.6	62
170	Self-assembly optimization of cadmium/molybdenum sulfide hybrids by cation coordination competition toward extraordinarily efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18396-18402	13	21
169	Facile Face-Down Annealing Triggered Remarkable Texture Development in CH ₃ NH ₃ PbI ₃ Films for High-Performance Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6104-6113	9.5	52
168	PbI ₂ heterogeneous-cap-induced crystallization for an efficient CH ₃ NH ₃ PbI ₃ layer in perovskite solar cells. <i>Chemical Communications</i> , 2017 , 53, 5032-5035	5.8	19
167	Series of ZnSn(OH) Polyhedra: Enhanced CO Dissociation Activation and Crystal Facet-Based Homojunction Boosting Solar Fuel Synthesis. <i>Inorganic Chemistry</i> , 2017 , 56, 5704-5709	5.1	23

166	Ferrous sulfide-assisted hollow carbon spheres as sulfur host for advanced lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2017 , 326, 1040-1047	14.7	19
165	Construction of an all-solid-state artificial Z-scheme system consisting of BiWO ₃ /Au/CdS nanostructure for photocatalytic CO reduction into renewable hydrocarbon fuel. <i>Nanotechnology</i> , 2017 , 28, 274002	3.4	42
164	Facile room-temperature surface modification of unprecedented FeB co-catalysts on Fe ₂ O ₃ nanorod photoanodes for high photoelectrochemical performance. <i>Journal of Catalysis</i> , 2017 , 352, 113-119	7.3	29
163	Construction of unique two-dimensional MoS ₂ -TiO ₂ hybrid nanojunctions: MoS ₂ as a promising cost-effective cocatalyst toward improved photocatalytic reduction of CO to methanol. <i>Nanoscale</i> , 2017 , 9, 9065-9070	7.7	95
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161	Robust, double-shelled ZnGaO hollow spheres for photocatalytic reduction of CO to methane. <i>Dalton Transactions</i> , 2017 , 46, 10564-10568	4.3	9
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151	Synthesis of bionic-macro/microporous MgO-modified TiO ₂ for enhanced CO ₂ photoreduction into hydrocarbon fuels. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 863-868	11.3	28
150	High-performance photodetectors based on bandgap engineered novel layer GaSe _{0.5} Te _{0.5} nanoflakes. <i>RSC Advances</i> , 2016 , 6, 60862-60868	3.7	9
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29	Synthesis of Novel Stable Nanometer-Sized Metal (M = Pd, Au, Pt) Colloids Protected by a EConjugated Polymer. <i>Langmuir</i> , 2002 , 18, 277-283	4	113
28	A Simple In Situ Hydrogen Bond Interaction to Homogeneous Dispersion of Gold Nanoparticles in SiO ₂ Matrix Using Dendrimer as Template. <i>Chemistry Letters</i> , 2002 , 31, 1170-1171	1.7	3
27	Preparation, Optical Spectroscopy, and Electrochemical Studies of Novel EConjugated Polymer-Protected Stable PbS Colloidal Nanoparticles in a Nonaqueous Solution. <i>Langmuir</i> , 2002 , 18, 5287-5292	4	57
26	Synthesis of Nanowires and Coral-Shaped Nanostructures of Ag by an Ultraviolet Photo-Reduction Technique at Room Temperature. <i>Chemistry Letters</i> , 2001 , 30, 1192-1193	1.7	8
25	The Fabrication of CuInSe ₂ /Polyacrylamide Nanocomposites by a Convenient Simultaneous Polymerization/Decomposition Technique. <i>Chemistry Letters</i> , 2001 , 30, 136-137	1.7	2
24	Preparation of a novel core-shell nanostructured gold colloid-silk fibroin bioconjugate by the protein in situ redox technique at room temperature. <i>Chemical Communications</i> , 2001 , 2518-9	5.8	103
23	Preparation of EConjugated polymer-protected gold nanoparticles in stable colloidal form. <i>Chemical Communications</i> , 2001 , 613-614	5.8	49

22	A Novel in situ Ultraviolet Irradiation Photolysis Technique for Fabrication of Polyacrylamide-MS (M = Cd, Pb, Zn) Nanocomposites at Room Temperature. <i>Chemistry Letters</i> , 2000 , 29, 1308-1309	1.7	7
21	Synthesis and characterization of NiPtTiO ₂ ultrafine composite particles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000 , 77, 135-137	3.1	14
20	Synthesis of Fe ultrafine particles in a saturated salt solution/isopropanol/PVP microemulsion and their structural characterization. <i>Materials Research Bulletin</i> , 2000 , 35, 53-58	5.1	20
19	Synthesis of Fe ₃ O ₄ powder by a novel arc discharge method. <i>Materials Research Bulletin</i> , 2000 , 35, 755-759	5.1	8
18	Preparation of metal or alloy sulfide nanoparticles by electrochemical deposition. <i>Materials Research Bulletin</i> , 2000 , 35, 1463-1468	5.1	7
17	A convenient ultraviolet irradiation technique for in situ synthesis of CdS nanocrystallites at room temperature. <i>Journal of Materials Chemistry</i> , 2000 , 10, 607-608		44
16	Preparation and studies of AgTiO ₂ hybrid nanoparticles of core-shell structure. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999 , 67, 95-98	3.1	26
15	PVA-templated Assembly of Pd Nanorod and Pd Fractal Pattern. <i>Journal of Nanoparticle Research</i> , 1999 , 1, 479-483	2.3	9
14	Preparation of nanocrystalline silver by the method of liquid-solid arc discharge combined with hydrothermal treatment. <i>Materials Research Bulletin</i> , 1999 , 34, 1683-1688	5.1	8
13	Preparation of Shell-Core Cu(2)O-Cu Nanocomposite Particles and Cu Nanoparticles in a New Microemulsion System. <i>Journal of Colloid and Interface Science</i> , 1999 , 220, 468-470	9.3	17
12	A Novel Ultraviolet Irradiation Photoreduction Technique for the Preparation of Single-Crystal Ag Nanorods and Ag Dendrites. <i>Advanced Materials</i> , 1999 , 11, 850-852	24	366
11	A Novel Ultraviolet Irradiation Technique for Shape-Controlled Synthesis of Gold Nanoparticles at Room Temperature. <i>Chemistry of Materials</i> , 1999 , 11, 2310-2312	9.6	230
10	A novel in situ simultaneous polymerization/hydrolysis technique for fabrication of polyacrylamide/Semiconductor MS(M = Cd, Zn, Pb) nanocomposites. <i>Chemical Communications</i> , 1999 , 1229-1230	5.8	21
9	A Novel in Situ Simultaneous Copolymerization/Decomposition Technique for Fabrication of Poly(acrylamide-co-styrene)-Semiconductor CdE (E = S, Se) Nanorod Nanocomposites. <i>Chemistry of Materials</i> , 1999 , 11, 3411-3413	9.6	16
8	Controllable synthesis of nanocrystalline CdS with different morphologies and particle sizes by a novel solvothermal process. <i>Journal of Materials Chemistry</i> , 1999 , 9, 1283-1287		138
7	Formation of Silver Nanowires by a Novel Solid-Liquid Phase Arc Discharge Method. <i>Chemistry of Materials</i> , 1999 , 11, 545-546	9.6	163
6	A Convenient Ultraviolet Irradiation Technique for Fabrication of Silver-polymer Nanocomposites. <i>Chemistry Letters</i> , 1999 , 28, 677-678	1.7	11
5	A Novel Ultraviolet Irradiation Photoreduction Technique for the Preparation of Single-Crystal Ag Nanorods and Ag Dendrites 1999 , 11, 850		6

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