

Yong Zhou

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291
papers

18,444
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309
ext. papers

20,798
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
291	Hydrothermal Dehydration for the Green Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. <i>Chemistry of Materials</i> , 2009 , 21, 2950-2956	9.6	1285
290	Ionic liquids for the convenient synthesis of functional nanoparticles and other inorganic nanostructures. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4988-92	16.4	1054
289	Photocatalytic conversion of CO ₂ into renewable hydrocarbon fuels: state-of-the-art accomplishment, challenges, and prospects. <i>Advanced Materials</i> , 2014 , 26, 4607-26	24	1043
288	State-of-the-Art Progress in Diverse Heterostructured Photocatalysts toward Promoting Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2015 , 25, 998-1013	15.6	582
287	High-yield synthesis of ultralong and ultrathin Zn ₂ GeO ₄ nanoribbons toward improved photocatalytic reduction of CO ₂ into renewable hydrocarbon fuel. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14385-7	16.4	553
286	Synthesis of very small TiO ₂ nanocrystals in a room-temperature ionic liquid and their self-assembly toward mesoporous spherical aggregates. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14960-1	16.4	533
285	Room-Temperature Ionic Liquids as Template to Monolithic Mesoporous Silica with Wormlike Pores via a Sol-Gel Nanocasting Technique. <i>Nano Letters</i> , 2004 , 4, 477-481	11.5	458
284	Z-Scheme Photocatalytic Systems for Promoting Photocatalytic Performance: Recent Progress and Future Challenges. <i>Advanced Science</i> , 2016 , 3, 1500389	13.6	446
283	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
282	Robust Hollow Spheres Consisting of Alternating Titania Nanosheets and Graphene Nanosheets with High Photocatalytic Activity for CO ₂ Conversion into Renewable Fuels. <i>Advanced Functional Materials</i> , 2012 , 22, 1215-1221	15.6	339
281	High-yield synthesis of ultrathin and uniform Bi ₂ WO ₆ square nanoplates benefitting from photocatalytic reduction of CO ₂ into renewable hydrocarbon fuel under visible light. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3594-601	9.5	324
280	An In Situ Simultaneous Reduction-Hydrolysis Technique for Fabrication of TiO ₂ -Graphene 2D Sandwich-Like Hybrid Nanosheets: Graphene-Promoted Selectivity of Photocatalytic-Driven Hydrogenation and Coupling of CO ₂ into Methane and Ethane. <i>Advanced Functional Materials</i> , 2013 , 23, 1743-1749	15.6	318
279	Versatile Graphene-Promoting Photocatalytic Performance of Semiconductors: Basic Principles, Synthesis, Solar Energy Conversion, and Environmental Applications. <i>Advanced Functional Materials</i> , 2013 , 23, 4996-5008	15.6	309
278	Ultrathin, single-crystal WO ₃ nanosheets by two-dimensional oriented attachment toward enhanced photocatalytic reduction of CO ₂ into hydrocarbon fuels under visible light. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3372-7	9.5	290
277	A room-temperature reactive-template route to mesoporous ZnGa ₂ O ₄ with improved photocatalytic activity in reduction of CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6400-4	16.4	286
276	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
275	Microstructuring of graphene oxide nanosheets using direct laser writing. <i>Advanced Materials</i> , 2010 , 22, 67-71	24	278

274	Multilayer Hybrid Films Consisting of Alternating Graphene and Titania Nanosheets with Ultrafast Electron Transfer and Photoconversion Properties. <i>Advanced Functional Materials</i> , 2009 , 19, 3638-3643	15.6	276
273	Formation of uniform CuO nanorods by spontaneous aggregation: Selective synthesis of CuO, Cu ₂ O, and Cu nanoparticles by a solid-liquid phase arc discharge process. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14011-6	3.4	248
272	Preparation and characterization of Pt supported on graphene with enhanced electrocatalytic activity in fuel cell. <i>Journal of Power Sources</i> , 2011 , 196, 1012-1018	8.9	240
271	Hexahedron Prism-Anchored Octahedron CeO ₂ : Crystal Facet-Based Homo Junction Promoting Efficient Solar Fuel Synthesis. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9547-50	16.4	237
270	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
269	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H ₂ Evolution and CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7260-7268	8.3	224
268	Preparation of Highly Ordered Monolithic Super-Microporous Lamellar Silica with a Room-Temperature Ionic Liquid as Template via the Nanocasting Technique. <i>Advanced Materials</i> , 2003 , 15, 1452-1455	24	197
267	A Series of Highly Ordered, Super-Microporous, Lamellar Silicas Prepared by Nanocasting with Ionic Liquids. <i>Chemistry of Materials</i> , 2004 , 16, 544-550	9.6	196
266	Construction and Nanoscale Detection of Interfacial Charge Transfer of Elegant Z-Scheme WO ₃ /Au/In ₂ S ₃ Nanowire Arrays. <i>Nano Letters</i> , 2016 , 16, 5547-52	11.5	171
265	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
264	Recent Advances in Ionic Liquids for Synthesis of Inorganic Nanomaterials. <i>Current Nanoscience</i> , 2005 , 1, 35-42	1.4	145
263	Zn ₂ GeO ₄ crystal splitting toward sheaf-like, hyperbranched nanostructures and photocatalytic reduction of CO ₂ into CH ₄ under visible light after nitridation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2033-2038		139
262	High-yield synthesis of millimetre-long, semiconducting carbon nitride nanotubes with intense photoluminescence emission and reproducible photoconductivity. <i>Nanoscale</i> , 2012 , 4, 3687-92	7.7	138
261	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
260	Single-crystalline, ultrathin ZnGa ₂ O ₄ nanosheet scaffolds to promote photocatalytic activity in CO ₂ reduction into methane. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2356-61	9.5	131
259	Au@TiO ₂ /yolk-shell hollow spheres for plasmon-induced photocatalytic reduction of CO ₂ to solar fuel via a local electromagnetic field. <i>Nanoscale</i> , 2015 , 7, 14232-6	7.7	127
258	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
257	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

256	All-solid-state Z-scheme system arrays of Fe ₂ V ₄ O ₁₃ /RGO/CdS for visible light-driving photocatalytic CO ₂ reduction into renewable hydrocarbon fuel. <i>Chemical Communications</i> , 2015 , 51, 800-3	5.8	120
255	Lipid Nanotubes: A Unique Template To Create Diverse One-Dimensional Nanostructures \square <i>Chemistry of Materials</i> , 2008 , 20, 625-633	9.6	119
254	Preparation and rate capability of Li ₄ Ti ₅ O ₁₂ hollow-sphere anode material. <i>Journal of Power Sources</i> , 2007 , 166, 514-518	8.9	119
253	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
252	Synthesis of Novel Stable Nanometer-Sized Metal (M = Pd, Au, Pt) Colloids Protected by a \square Conjugated Polymer. <i>Langmuir</i> , 2002 , 18, 277-283	4	113
251	Enhanced Photocatalytic Performance through Magnetic Field Boosting Carrier Transport. <i>ACS Nano</i> , 2018 , 12, 3351-3359	16.7	111
250	A novel tailored bimodal porous silica with well-defined inverse opal microstructure and super-microporous lamellar nanostructure. <i>Chemical Communications</i> , 2003 , 2564-5	5.8	105
249	Multi-channeled hierarchical porous carbon incorporated Co ₃ O ₄ nanopillar arrays as 3D binder-free electrode for high performance supercapacitors. <i>Nano Energy</i> , 2016 , 20, 94-107	17.1	104
248	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
247	Photocatalytic reduction of CO ₂ over Ag/TiO ₂ nanocomposites prepared with a simple and rapid silver mirror method. <i>Nanoscale</i> , 2016 , 8, 11870-4	7.7	101
246	A Room-Temperature Reactive-Template Route to Mesoporous ZnGa ₂ O ₄ with Improved Photocatalytic Activity in Reduction of CO ₂ . <i>Angewandte Chemie</i> , 2010 , 122, 6544-6548	3.6	97
245	Construction of unique two-dimensional MoS-TiO hybrid nanojunctions: MoS as a promising cost-effective cocatalyst toward improved photocatalytic reduction of CO to methanol. <i>Nanoscale</i> , 2017 , 9, 9065-9070	7.7	95
244	One-step growth of CoNi ₂ S ₄ nanoribbons on carbon fibers as platinum-free counter electrodes for fiber-shaped dye-sensitized solar cells with high performance: Polymorph-dependent conversion efficiency. <i>Nano Energy</i> , 2015 , 11, 697-703	17.1	94
243	Making patterns on graphene. <i>Advanced Materials</i> , 2010 , 22, 3615-20	24	91
242	Preparation and Characterization of a Novel Cocrystal Explosive. <i>Crystal Growth and Design</i> , 2011 , 11, 1759-1765	3.5	89
241	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
240	Hexagonal Nanoplate-Textured Micro-Octahedron Zn ₂ SnO ₄ : Combined Effects toward Enhanced Efficiencies of Dye-Sensitized Solar Cell and Photoreduction of CO ₂ into Hydrocarbon Fuels. <i>Crystal Growth and Design</i> , 2012 , 12, 1476-1481	3.5	86
239	Zinc Gallogermanate Solid Solution: A Novel Photocatalyst for Efficiently Converting CO ₂ into Solar Fuels. <i>Advanced Functional Materials</i> , 2013 , 23, 1839-1845	15.6	79

238	Multilayer Hybrid Films of Titania Semiconductor Nanosheet and Silver Metal Fabricated via Layer-by-Layer Self-Assembly and Subsequent UV Irradiation. <i>Chemistry of Materials</i> , 2006 , 18, 1235-1239	9.6	79
237	Enhanced photovoltaic performance of a dye-sensitized solar cell using graphene-TiO ₂ photoanode prepared by a novel in situ simultaneous reduction-hydrolysis technique. <i>Nanoscale</i> , 2013 , 5, 3481-5	7.7	78
236	Highly Flexible Self-Powered Organolead Trihalide Perovskite Photodetectors with Gold Nanowire Networks as Transparent Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23868-75	9.5	77
235	Instant Preparation of Self-Assembled Metal-Complexed Lipid Nanotubes That Act as Templates to Produce Metal-Oxide Nanotubes. <i>Advanced Materials</i> , 2007 , 19, 242-246	24	65
234	Rational and scalable fabrication of high-quality WO ₃ /CdS core/shell nanowire arrays for photoanodes toward enhanced charge separation and transport under visible light. <i>Nanoscale</i> , 2013 , 5, 11933-9	7.7	63
233	An Ion-Exchange Phase Transformation to ZnGa ₂ O ₄ Nanocube Towards Efficient Solar Fuel Synthesis. <i>Advanced Functional Materials</i> , 2013 , 23, 758-763	15.6	63
232	Helical Arrays of CdS Nanoparticles Tracing on a Functionalized Chiral Template of Glycolipid Nanotubes. <i>Chemistry of Materials</i> , 2006 , 18, 403-406	9.6	62
231	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
230	Rational construction of a CdS/reduced graphene oxide/TiO ₂ core/shell nanostructure as an all-solid-state Z-scheme system for CO ₂ photoreduction into solar fuels. <i>RSC Advances</i> , 2015 , 5, 88409-88413	2.7	61
229	Unique Zn-doped SnO ₂ nano-echinus with excellent electron transport and light harvesting properties as photoanode materials for high performance dye-sensitized solar cell. <i>CrystEngComm</i> , 2012 , 14, 6462	3.3	59
228	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
227	Nitrated graphene oxide and its catalytic activity in thermal decomposition of ammonium perchlorate. <i>Materials Research Bulletin</i> , 2014 , 50, 73-78	5.1	57
226	Preparation, Optical Spectroscopy, and Electrochemical Studies of Novel E-Conjugated Polymer-Protected Stable PbS Colloidal Nanoparticles in a Nonaqueous Solution. <i>Langmuir</i> , 2002 , 18, 5287-5292	4	57
225	Hollow spheres consisting of Ti _{0.91} O ₂ /CdS nanohybrids for CO ₂ photofixation. <i>Chemical Communications</i> , 2015 , 51, 13354-7	5.8	55
224	Fabrication of hierarchically assembled microspheres consisting of nanoporous ZnO nanosheets for high-efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14341		54
223	Facile Face-Down Annealing Triggered Remarkable Texture Development in CH ₃ NHPbI Films for High-Performance Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6104-6113	9.5	52
222	Double-shelled plasmonic Ag-TiO ₂ hollow spheres toward visible light-active photocatalytic conversion of CO ₂ into solar fuel. <i>APL Materials</i> , 2015 , 3, 104416	5.7	50
221	Vertically building Zn ₂ SnO ₄ nanowire arrays on stainless steel mesh toward fabrication of large-area, flexible dye-sensitized solar cells. <i>Nanoscale</i> , 2012 , 4, 3490-4	7.7	50

220	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
219	Monodispersed Nb ₂ O ₅ Microspheres: Facile Synthesis, Air/Water Interfacial Self-Assembly, Nb ₂ O ₅ -Based Composite Films, and Their Selective NO ₂ Sensing. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500167	4.6	49
218	Preparation of E-conjugated polymer-protected gold nanoparticles in stable colloidal form. <i>Chemical Communications</i> , 2001 , 613-614	5.8	49
217	One-step growth of 3D CoNi ₂ S ₄ nanorods and cross-linked NiCo ₂ S ₄ nanosheet arrays on carbon paper as anodes for high-performance lithium ion batteries. <i>Chemical Communications</i> , 2016 , 52, 5258-61	5.8	46
216	Gram-Scale Synthesis of Graphene Quantum Dots from Single Carbon Atoms Growth via Energetic Material Deflagration. <i>Chemistry of Materials</i> , 2015 , 27, 4319-4327	9.6	46
215	Na ₂ WO ₄ /KH ₂ PO ₄ nanoribbons: large-scale synthesis and visible-light photocatalytic activity of CO ₂ into solar fuels. <i>Nanoscale</i> , 2014 , 6, 1896-900	7.7	44
214	Broad spectral response photodetector based on individual tin-doped CdS nanowire. <i>AIP Advances</i> , 2014 , 4, 123005	1.5	44
213	Synthesis of a mesoporous single crystal Ga ₂ O ₃ nanoplate with improved photoluminescence and high sensitivity in detecting CO. <i>Chemical Communications</i> , 2010 , 46, 6388-90	5.8	44
212	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
211	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
210	Improved Surface Charge Transfer in MoO ₃ /BiVO ₄ Heterojunction Film for Photoelectrochemical Water Oxidation. <i>Electrochimica Acta</i> , 2017 , 257, 181-191	6.7	42
209	Surfactant-Assisted Preparation of Novel Layered Silver Bromide-Based Inorganic/Organic Nanosheets by Pulsed Laser Ablation in Aqueous Media. <i>Advanced Functional Materials</i> , 2007 , 17, 3554-3561	15.6	41
208	Beyond CN E-conjugated metal-free polymeric semiconductors for photocatalytic chemical transformations. <i>Chemical Society Reviews</i> , 2021 , 50, 2147-2172	58.5	41
207	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
206	Porous, single crystalline titanium nitride nanoplates grown on carbon fibers: excellent counter electrodes for low-cost, high performance, fiber-shaped dye-sensitized solar cells. <i>Chemical Communications</i> , 2014 , 50, 14321-4	5.8	39
205	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
204	Controllable growth of dendritic ZnO nanowire arrays on a stainless steel mesh towards the fabrication of large area, flexible dye-sensitized solar cells. <i>Nanoscale</i> , 2012 , 4, 5454-60	7.7	38
203	Direct Growth of Fe ₂ V ₄ O ₁₃ Nanoribbons on a Stainless-Steel Mesh for Visible-Light Photoreduction of CO ₂ into Renewable Hydrocarbon Fuel and Degradation of Gaseous Isopropyl Alcohol. <i>ChemPlusChem</i> , 2013 , 78, 274-278	2.8	38

202	Synthesis of one-molecule-thick single-crystalline nanosheets of energetic material for high-sensitive force sensor. <i>Scientific Reports</i> , 2012 , 2, 698	4.9	37
201	Antimicrobial Nanotubes Consisting of Ag-Embedded Peptidic Lipid-Bilayer Membranes as Delivery Vehicles. <i>Advanced Materials</i> , 2009 , 21, 1742-1745	24	37
200	Necklace-like chains of hybrid nanospheres consisting of Pd nanocrystals and peptidic lipids. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2456-7	16.4	37
199	Simple method for the fluorinated functionalization of graphene oxide. <i>RSC Advances</i> , 2013 , 3, 3881	3.7	36
198	Fluorescent Nanotubes Consisting of CdS-Embedded Bilayer Membranes of a Peptide Lipid. <i>Advanced Materials</i> , 2007 , 19, 1055-1058	24	36
197	Fiber dye-sensitized solar cells consisting of TiO ₂ nanowires arrays on Ti thread as photoanodes through a low-cost, scalable route. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11790	13	34
196	Porous ZnO nanosheet arrays constructed on weaved metal wire for flexible dye-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 5102-8	7.7	34
195	Synthesis of highly crystalline In ₂ Ge ₂ O ₇ (En) hybrid sub-nanowires with ultraviolet photoluminescence emissions and their selective photocatalytic reduction of CO ₂ into renewable fuel. <i>RSC Advances</i> , 2012 , 2, 3247	3.7	33
194	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
193	Artificial Trees for Artificial Photosynthesis: Construction of Dendrite-Structured Fe ₂ O ₃ /g-C ₃ 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
192	Lipid Nanotubes: Formation, Templating Nanostructures and Drug Nanocarriers. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2008 , 33, 183-196	10.1	32
191	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
190	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
189	Ultralong metaheewettite CaV ₆ O ₁₆ ·BH ₂ O nanoribbons as novel host materials for lithium storage: Towards high-rate and excellent long-term cyclability. <i>Nano Energy</i> , 2016 , 22, 38-47	17.1	31
188	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
187	Generalized synthesis of a family of multishelled metal oxide hollow microspheres. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3575	13	30
186	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
185	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

184	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
183	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
182	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
181	Bi MoO Nanostrip Networks for Enhanced Visible-Light Photocatalytic Reduction of CO to CH ₄ . <i>ChemPhysChem</i> , 2017 , 18, 3240-3244	3.2	28
180	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
179	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
178	Nanowire-based hierarchical tin oxide/zinc stannate hollow microspheres: Enhanced solar energy utilization efficiency for dye-sensitized solar cells and photocatalytic degradation of dyes. <i>Journal of Power Sources</i> , 2015 , 274, 575-581	8.9	26
177	In situ direct growth of single crystalline metal (Co, Ni) selenium nanosheets on metal fibers as counter electrodes toward low-cost, high-performance fiber-shaped dye-sensitized solar cells. <i>Nanoscale</i> , 2016 , 8, 2304-8	7.7	26
176	Synthesis of Bi ₆ Mo ₂ O ₁₅ sub-microwires via a molten salt method and enhancing the photocatalytic reduction of CO ₂ into solar fuel through tuning the surface oxide vacancies by simple post-heating treatment. <i>CrystEngComm</i> , 2013 , 15, 9855	3.3	26
175	Preparation and studies of Ag@TiO 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
174	In situ no-slot joint integration of half-metallic C(CN) ₃ cocatalyst into g-C ₃ N ₄ scaffold: An absolute metal-free in-plane heterosystem for efficient and selective photoconversion of CO ₂ into CO. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118470	21.8	26
173	Electrophoretic deposition of graphene-TiO ₂ hierarchical spheres onto Ti thread for flexible fiber-shaped dye-sensitized solar cells. <i>Materials and Design</i> , 2016 , 105, 352-358	8.1	26
172	Construction of Visible-Light-Responsive SrTiO ₃ with Enhanced CO ₂ Adsorption Ability: Highly Efficient Photocatalysts for Artificial Photosynthesis. <i>Catalysis Letters</i> , 2015 , 145, 640-646	2.8	25
171	One step fabrication of Mn ₃ O ₄ /carbonated bacterial cellulose with excellent catalytic performance upon ammonium perchlorate decomposition. <i>Materials Research Bulletin</i> , 2014 , 60, 802-807	5.1	25
170	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
169	Multi-layered MoS ₂ phototransistors as high performance photovoltaic cells and self-powered photodetectors. <i>RSC Advances</i> , 2015 , 5, 45239-45248	3.7	24
168	Ultrathin LiFePO ₄ nanosheets self-assembled with reduced graphene oxide applied in high rate lithium ion batteries for energy storage. <i>Applied Energy</i> , 2017 , 195, 1079-1085	10.7	24
167	Recent Progress in Biomolecule-Templated Nanomaterials. <i>Current Nanoscience</i> , 2006 , 2, 123-134	1.4	24

166	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
165	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
164	Synthesis of single-crystalline, porous TaON microspheres toward visible-light photocatalytic conversion of CO ₂ into liquid hydrocarbon fuels. <i>RSC Advances</i> , 2016 , 6, 90792-90796	3.7	23
163	Aligned Nanocables: Controlled Sheathing of CuO Nanowires by a Self-Assembled Tubular Glycolipid. <i>Advanced Materials</i> , 2007 , 19, 4194-4197	24	23
162	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
161	Exquisite design of porous carbon microtubule-scaffolding hierarchical InO-ZnInS heterostructures toward efficient photocatalytic conversion of CO into CO. <i>Nanoscale</i> , 2020 , 12, 14676-14681	7.7	22
160	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
159	Versatile nanobead-scaffolded N-SnO ₂ mesoporous microspheres: one-step synthesis and superb performance in dye-sensitized solar cell, gas sensor, and photocatalytic degradation of dye. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 524-531	13	22
158	Egg-white-mediated crystallization of calcium carbonate. <i>Journal of Crystal Growth</i> , 2012 , 361, 217-224	1.6	22
157	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
156	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
155	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
154	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
153	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
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146	PbI heterogeneous-cap-induced crystallization for an efficient CHNHPI layer in perovskite solar cells. <i>Chemical Communications</i> , 2017 , 53, 5032-5035	5.8	19
145	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
144	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
143	Nanostructured SnO ₂ photoanode-based dye-sensitized solar cells. <i>Science Bulletin</i> , 2014 , 59, 2122-2134		19
142	Solution-chemical route to generalized synthesis of metal germanate nanowires with room-temperature, light-driven hydrogenation activity of CO ₂ into renewable hydrocarbon fuels. <i>Inorganic Chemistry</i> , 2014 , 53, 359-64	5.1	19
141	Hen eggwhite-mediated stack crystallization of calcium carbonate. <i>Journal of Crystal Growth</i> , 2010 , 312, 831-836	1.6	19
140	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
139	Domino Effect: Gold Electrocatalyzing Lithium Reduction to Accelerate Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5257-5261	16.4	19
138	3D hierarchical architecture collaborating with 2D/2D interface interaction in NiAl-LDH/Ti ₃ C ₂ nanocomposite for efficient and selective photoconversion of CO ₂ . <i>Journal of Energy Chemistry</i> , 2021 , 59, 9-18	12	19
137	Theoretical and experimental studies on three water-stable, isostructural, paddlewheel based semiconducting metal-organic frameworks. <i>Dalton Transactions</i> , 2017 , 46, 8204-8218	4.3	18
136	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
135	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
134	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
133	TiO ₂ nanosheet-anchoring Au nanoplates: high-energy facet and wide spectra surface plasmon-promoting photocatalytic efficiency and selectivity for CO ₂ reduction. <i>RSC Advances</i> , 2016 , 6, 81510-81516	3.7	17
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127	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
126	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
125	Nanosheet-assembling Hierarchical Zinc Stannate Microspheres for Enhanced Efficiency of Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015 , 152, 25-30	6.7	15
124	Preparation and dielectric properties of SiC nanowires self-sacrificially templated by carbonated bacterial cellulose. <i>Materials Research Bulletin</i> , 2013 , 48, 687-690	5.1	15
123	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
122	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
121	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
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12	Valence Regulation of Ultrathin Cerium Vanadate Nanosheets for Enhanced Photocatalytic CO ₂ Reduction to CO. <i>Catalysts</i> , 2021 , 11, 1115	4	1
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