

Yujie Xiong

List of Publications by Citations

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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	Shape-controlled synthesis of metal nanocrystals: simple chemistry meets complex physics?. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 60-103	16.4	4431
281	From Bimetallic Metal-Organic Framework to Porous Carbon: High Surface Area and Multicomponent Active Dopants for Excellent Electrocatalysis. <i>Advanced Materials</i> , 2015 , 27, 5010-6	24	1016
280	Omnidirectional printing of flexible, stretchable, and spanning silver microelectrodes. <i>Science</i> , 2009 , 323, 1590-3	33.3	961
279	Steering charge kinetics in photocatalysis: intersection of materials syntheses, characterization techniques and theoretical simulations. <i>Chemical Society Reviews</i> , 2015 , 44, 2893-939	58.5	732
278	Printed assemblies of inorganic light-emitting diodes for deformable and semitransparent displays. <i>Science</i> , 2009 , 325, 977-81	33.3	617
277	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, 17118-27	16.4	590
276	Oxide Defect Engineering Enables to Couple Solar Energy into Oxygen Activation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8928-35	16.4	568
275	Synthesis and optical properties of silver nanobars and nanorice. <i>Nano Letters</i> , 2007 , 7, 1032-6	11.5	545
274	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, 8563-70	4	535
273	Synthesis and mechanistic study of palladium nanobars and nanorods. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3665-75	16.4	531
272	Shape-controlled synthesis of Pd nanocrystals and their catalytic applications. <i>Accounts of Chemical Research</i> , 2013 , 46, 1783-94	24.3	495
271	Optical properties of Pd-Ag and Pt-Ag nanoboxes synthesized via galvanic replacement reactions. <i>Nano Letters</i> , 2005 , 5, 2058-62	11.5	475
270	Refining Defect States in WO by Mo Doping: A Strategy for Tuning N Activation towards Solar-Driven Nitrogen Fixation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9434-9443	16.4	462
269	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	24	452
268	Defect engineering in photocatalytic materials. <i>Nano Energy</i> , 2018 , 53, 296-336	17.1	417
267	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, 7332-3	16.4	396
266	Formkontrolle bei der Synthese von Metallnanokristallen: einfache Chemie, komplexe Physik?. <i>Angewandte Chemie</i> , 2009 , 121, 62-108	3.6	389

265	Facile synthesis of gold-silver nanocages with controllable pores on the surface. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14776-7	16.4	389
264	Perylenediimide nanowires and their use in fabricating field-effect transistors and complementary inverters. <i>Nano Letters</i> , 2007 , 7, 2847-53	11.5	381
263	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, 12120-4	16.4	380
262	Size-dependence of surface plasmon resonance and oxidation for Pd nanocubes synthesized via a seed etching process. <i>Nano Letters</i> , 2005 , 5, 1237-42	11.5	368
261	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, 9389-93	16.4	366
260	Right bipyramids of silver: a new shape derived from single twinned seeds. <i>Nano Letters</i> , 2006 , 6, 765-8	11.5	331
259	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	24	320
258	Isolation of Cu Atoms in Pd Lattice: Forming Highly Selective Sites for Photocatalytic Conversion of CO to CH. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4486-4492	16.4	317
257	Integration of an inorganic semiconductor with a metal-organic framework: a platform for enhanced gaseous photocatalytic reactions. <i>Advanced Materials</i> , 2014 , 26, 4783-8	24	310
256	Coordination chemistry in the design of heterogeneous photocatalysts. <i>Chemical Society Reviews</i> , 2017 , 46, 2799-2823	58.5	305
255	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, 10414-25	16.7	303
254	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	298
253	2D Layered Double Hydroxides for Oxygen Evolution Reaction: From Fundamental Design to Application. <i>Advanced Energy Materials</i> , 2019 , 9, 1803358	21.8	296
252	Selected-control synthesis of ZnO nanowires and nanorods via a PEG-assisted route. <i>Inorganic Chemistry</i> , 2003 , 42, 8105-9	5.1	296
251	Toward Enhanced Photocatalytic Oxygen Evolution: Synergetic Utilization of Plasmonic Effect and Schottky Junction via Interfacial Facet Selection. <i>Advanced Materials</i> , 2015 , 27, 3444-52	24	295
250	Corrosion-based synthesis of single-crystal Pd nanoboxes and nanocages and their surface plasmon properties. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7913-7	16.4	294
249	Cover Picture: Shape-Controlled Synthesis of Metal Nanocrystals: Simple Chemistry Meets Complex Physics? (Angew. Chem. Int. Ed. 1/2009). <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1-1	16.4	276
248	Heterogeneous Single-Atom Photocatalysts: Fundamentals and Applications. <i>Chemical Reviews</i> , 2020 , 120, 12175-12216	68.1	269

247	Fabrication of field-effect transistors from hexathiapentacene single-crystal nanowires. <i>Nano Letters</i> , 2007 , 7, 668-75	11.5	259
246	Novel Iron/Cobalt-Containing Polypyrrole Hydrogel-Derived Trifunctional Electrocatalyst for Self-Powered Overall Water Splitting. <i>Advanced Functional Materials</i> , 2017 , 27, 1606497	15.6	255
245	Heterogeneous Single-Atom Catalyst for Visible-Light-Driven High-Turnover CO Reduction: The Role of Electron Transfer. <i>Advanced Materials</i> , 2018 , 30, e1704624	24	254
244	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, 3200-7	16.4	247
243	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, 790-4	16.4	234
242	Nanocrystals with unconventional shapes--a class of promising catalysts. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7157-9	16.4	234
241	Large-scale fabrication of TiO ₂ hierarchical hollow spheres. <i>Inorganic Chemistry</i> , 2006 , 45, 3493-5	5.1	225
240	Facet-Engineered Surface and Interface Design of Photocatalytic Materials. <i>Advanced Science</i> , 2017 , 4, 1600216	13.6	223
239	Conjugated Microporous Polymer Nanosheets for Overall Water Splitting Using Visible Light. <i>Advanced Materials</i> , 2017 , 29, 1702428	24	211
238	Implementing Metal-to-Ligand Charge Transfer in Organic Semiconductor for Improved Visible-Near-Infrared Photocatalysis. <i>Advanced Materials</i> , 2016 , 28, 6959-65	24	200
237	A water-based synthesis of octahedral, decahedral, and icosahedral Pd nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 9279-82	16.4	200
236	Oxidative etching for controlled synthesis of metal nanocrystals: atomic addition and subtraction. <i>Chemical Society Reviews</i> , 2014 , 43, 6288-310	58.5	198
235	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, 6094-7	5.8	190
234	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		183
233	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		181
232	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	16.2	180
231	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	16.4	176
230	Recent Progress on Electrocatalyst and Photocatalyst Design for Nitrogen Reduction. <i>Small Methods</i> , 2019 , 3, 1800388	12.8	169

229	Modification of NaYF ₄ :Yb, ^ Nanoparticles with Gold Nanocrystals for Tunable Green-to-Red Upconversion Emissions. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3291-3296	3.8	168
228	In situ micelle-templated interface reaction route to CdS nanotubes and nanowires. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3712-3716		165
227	Trimetallic TriStar Nanostructures: Tuning Electronic and Surface Structures for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2016 , 28, 2077-84	24	154
226	Enabling Visible-Light-Driven Selective CO Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H ₂ Evolution. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16447-16451	16.4	153
225	CeO ₂ -Induced Interfacial Co ²⁺ Octahedral Sites and Oxygen Vacancies for Water Oxidation. <i>ACS Catalysis</i> , 2019 , 9, 6484-6490	13.1	151
224	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	16.4	151
223	Stable Metallic 1T-WS ₂ Nanoribbons Intercalated with Ammonia Ions: The Correlation between Structure and Electrical/Optical Properties. <i>Advanced Materials</i> , 2015 , 27, 4837-44	24	151
222	One-step solution-based catalytic route to fabricate novel alpha-MnO ₂ hierarchical structures on a large scale. <i>Chemical Communications</i> , 2005 , 918-20	5.8	151
221	Designing p-type semiconductor-metal hybrid structures for improved photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5107-11	16.4	148
220	Surface and interface design in cocatalysts for photocatalytic water splitting and CO ₂ reduction. <i>RSC Advances</i> , 2016 , 6, 57446-57463	3.7	147
219	2D Polymers as Emerging Materials for Photocatalytic Overall Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1801955	24	147
218	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, 4917-21	16.4	145
217	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	16.4	142
216	Growth of well-aligned gamma-MnO ₂ monocrystalline nanowires through a coordination-polymer-precursor route. <i>Chemistry - A European Journal</i> , 2003 , 9, 1645-51	4.8	140
215	Turning Au Nanoclusters Catalytically Active for Visible-Light-Driven CO Reduction through Bridging Ligands. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16514-16520	16.4	134
214	Dynamic Evolution of Atomically Dispersed Cu Species for CO ₂ Photoreduction to Solar Fuels. <i>ACS Catalysis</i> , 2019 , 9, 4824-4833	13.1	128
213	Metal-Organic Framework Coating Enhances the Performance of CuO in Photoelectrochemical CO Reduction. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10924-10929	16.4	123
212	Tunable oxygen activation for catalytic organic oxidation: Schottky junction versus plasmonic effects. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3205-9	16.4	121

211	Boosting Photocatalytic Water Splitting: Interfacial Charge Polarization in Atomically Controlled Core-Shell Cocatalysts. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14810-4	16.4	119
210	A unique semiconductor-metal-graphene stack design to harness charge flow for photocatalysis. <i>Advanced Materials</i> , 2014 , 26, 5689-95	24	116
209	Facile synthesis of tadpole-like nanostructures consisting of Au heads and Pd tails. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15452-3	16.4	116
208	Recent progress on advanced design for photoelectrochemical reduction of CO ₂ to fuels. <i>Science China Materials</i> , 2018 , 61, 771-805	7.1	115
207	Control over the branched structures of platinum nanocrystals for electrocatalytic applications. <i>ACS Nano</i> , 2012 , 6, 9797-806	16.7	113
206	Thermally stable hematite hollow nanowires. <i>Inorganic Chemistry</i> , 2004 , 43, 6540-2	5.1	113
205	Direct Observation of Dynamic Bond Evolution in Single-Atom Pt/C N Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6224-6229	16.4	113
204	Photocatalytic CO conversion: What can we learn from conventional CO hydrogenation?. <i>Chemical Society Reviews</i> , 2020 , 49, 6579-6591	58.5	113
203	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	3.4	111
202	Integration of Multiple Plasmonic and Co-Catalyst Nanostructures on TiO ₂ Nanosheets for Visible-Near-Infrared Photocatalytic Hydrogen Evolution. <i>Small</i> , 2016 , 12, 1640-8	11	111
201	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, 6822-8	16.4	111
200	Coupling Solar Energy into Reactions: Materials Design for Surface Plasmon-Mediated Catalysis. <i>Small</i> , 2015 , 11, 3873-89	11	110
199	Some recent developments in the chemical synthesis of inorganic nanotubes. <i>Chemical Communications</i> , 2005 , 5013-22	5.8	110
198	Plasmonic nanostructures in solar energy conversion. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1008-1021	7.1	107
197	Visible-Light-Driven Nitrogen Fixation Catalyzed by BiOBr Nanostructures: Enhanced Performance by Oxygen Vacancies. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12430-12439	16.4	107
196	Large-area synthesis of monolayer WSe ₂ on a SiO ₂ /Si substrate and its device applications. <i>Nanoscale</i> , 2015 , 7, 4193-8	7.7	107
195	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	17.1	106
194	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	7.7	105

193	Lattice oxygen activation enabled by high-valence metal sites for enhanced water oxidation. <i>Nature Communications</i> , 2020 , 11, 4066	17.4	105
192	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	3.6	103
191	Surface and Interface Engineering in Photocatalysis. <i>ChemNanoMat</i> , 2015 , 1, 223-239	3.5	101
190	Synthesis and characterization of fivefold twinned nanorods and right bipyramids of palladium. <i>Chemical Physics Letters</i> , 2007 , 440, 273-278	2.5	101
189	Rational Growth of Various MnO ₂ Hierarchical Structures and MnO ₂ Nanorods via a Homogeneous Catalytic Route. <i>Crystal Growth and Design</i> , 2005 , 5, 1953-1958	3.5	101
188	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	2.5	98
187	Fabrication of self-supported patterns of aligned beta-FeOOH nanowires by a low-temperature solution reaction. <i>Chemistry - A European Journal</i> , 2003 , 9, 4991-6	4.8	97
186	Composition-dependent activity of CuPt alloy nanocubes for electrocatalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4134-4138	13	93
185	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, 654-60	4.8	93
184	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	17.1	84
183	Palladium-Based Nanomaterials: A Platform to Produce Reactive Oxygen Species for Catalyzing Oxidation Reactions. <i>Advanced Materials</i> , 2015 , 27, 7025-42	24	84
182	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	12	84
181	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. <i>Nature Communications</i> , 2019 , 10, 1779	17.4	83
180	The nature of photocatalytic "water splitting" on silicon nanowires. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2980-5	16.4	82
179	Synthesis of Palladium Icosahedra with Twinned Structure by Blocking Oxidative Etching with Citric Acid or Citrate Ions. <i>Angewandte Chemie</i> , 2007 , 119, 804-808	3.6	81
178	A Novel in Situ Oxidation-Sulfidation Growth Route via self-Purification Process to In ₂ S ₃ Dendrites. <i>Journal of Solid State Chemistry</i> , 2002 , 166, 336-340	3.3	81
177	Pd-Ag alloy hollow nanostructures with interatomic charge polarization for enhanced electrocatalytic formic acid oxidation. <i>Nano Research</i> , 2016 , 9, 1590-1599	10	81
176	Some recent developments in surface and interface design for photocatalytic and electrocatalytic hybrid structures. <i>Chemical Communications</i> , 2015 , 51, 10261-71	5.8	80

175	A New Cubic Phase for a NaYF ₄ Host Matrix Offering High Upconversion Luminescence Efficiency. <i>Advanced Materials</i> , 2015 , 27, 5528-33	24	80
174	Efficient coupling of solar energy to catalytic hydrogenation by using well-designed palladium nanostructures. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2425-30	16.4	78
173	Cubic to tetragonal phase transformation in cold-compressed Pd nanocubes. <i>Nano Letters</i> , 2008 , 8, 972-51.5	5.1	77
172	A mild solvothermal route to chalcopyrite quaternary semiconductor CuIn(SexS _{1-x}) ₂ nanocrystallites. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1417-1420		77
171	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, 14650-3	16.4	76
170	Synthesis of rhombic hierarchical YF ₃ nanocrystals and their use as upconversion photocatalysts after TiO ₂ coating. <i>Nanoscale</i> , 2013 , 5, 3030-6	7.7	75
169	Solvothermal synthesis of ternary Cu ₂ MoS ₄ nanosheets: structural characterization at the atomic level. <i>Small</i> , 2014 , 10, 4637-44	11	74
168	Production of novel amorphous carbon nanostructures from ferrocene in low-temperature solution. <i>Carbon</i> , 2004 , 42, 1447-1453	10.4	74
167	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	72
166	Platinum multicubes prepared by Ni(2+) -mediated shape evolution exhibit high electrocatalytic activity for oxygen reduction. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5666-71	16.4	72
165	A Water-Based Synthesis of Octahedral, Decahedral, and Icosahedral Pd Nanocrystals. <i>Angewandte Chemie</i> , 2007 , 119, 9439-9442	3.6	72
164	Surfactant-directed assembly of [corrected] Pt nanoparticles into colloidal spheres and their use [corrected] as substrates in forming Pt nanorods and nanowires. <i>Small</i> , 2006 , 2, 1340-3	11	72
163	2020 roadmap on pore materials for energy and environmental applications. <i>Chinese Chemical Letters</i> , 2019 , 30, 2110-2122	8.1	69
162	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	68
161	A novel non-template solution approach to fabricate ZnO hollow spheres with a coordination polymer as a reactant. <i>New Journal of Chemistry</i> , 2003 , 27, 1518	3.6	66
160	Crystal phase engineering on photocatalytic materials for energy and environmental applications. <i>Nano Research</i> , 2019 , 12, 2031-2054	10	66
159	Room-temperature surface-erosion route to ZnO nanorod arrays and urchin-like assemblies. <i>Chemistry - A European Journal</i> , 2004 , 10, 5823-8	4.8	65
158	Investigation of size-dependent plasmonic and catalytic properties of metallic nanocrystals enabled by size control with HCl oxidative etching. <i>Small</i> , 2012 , 8, 1710-6	11	63

157	A novel approach to carbon hollow spheres and vessels from CCl ₄ at low temperatures. <i>Chemical Communications</i> , 2003 , 904-5	5.8	63
156	Surface-bound reactive oxygen species generating nanozymes for selective antibacterial action. <i>Nature Communications</i> , 2021 , 12, 745	17.4	59
155	Corrosion-Based Synthesis of Single-Crystal Pd Nanoboxes and Nanocages and Their Surface Plasmon Properties. <i>Angewandte Chemie</i> , 2005 , 117, 8127-8131	3.6	58
154	From 2D framework to quasi-1D nanomaterial: preparation, characterization, and formation mechanism of Cu(3)SnS(4) nanorods. <i>Inorganic Chemistry</i> , 2002 , 41, 2953-9	5.1	58
153	Tracking Mechanistic Pathway of Photocatalytic CO Reaction at Ni Sites Using Operando, Time-Resolved Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5618-5626	16.4	57
152	Designing p-Type Semiconductor/Metal Hybrid Structures for Improved Photocatalysis. <i>Angewandte Chemie</i> , 2014 , 126, 5207-5211	3.6	55
151	Pt/AlGa _N Nanoarchitecture: Toward High Responsivity, Self-Powered Ultraviolet-Sensitive Photodetection. <i>Nano Letters</i> , 2021 , 21, 120-129	11.5	55
150	Flexible Near-Infrared Photovoltaic Devices Based on Plasmonic Hot-Electron Injection into Silicon Nanowire Arrays. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4577-81	16.4	54
149	Development of a Cloud-Based Epidermal MoSe ₂ Device for Hazardous Gas Sensing. <i>Advanced Functional Materials</i> , 2019 , 29, 1900138	15.6	54
148	Towards full-spectrum photocatalysis: Achieving a Z-scheme between Ag ₂ S and TiO ₂ by engineering energy band alignment with interfacial Ag. <i>Nano Research</i> , 2015 , 8, 3621-3629	10	53
147	Switching Light for Site-Directed Spatial Loading of Cocatalysts onto Heterojunction Photocatalysts with Boosted Redox Catalysis. <i>ACS Catalysis</i> , 2020 , 10, 3194-3202	13.1	52
146	A unique platinum-graphene hybrid structure for high activity and durability in oxygen reduction reaction. <i>Scientific Reports</i> , 2013 , 3, 2580	4.9	52
145	Engineering the surface charge states of nanostructures for enhanced catalytic performance. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1951-1964	7.8	51
144	Long-term production of H ₂ over Pt/CdS nanoplates under sunlight illumination. <i>Chemical Engineering Journal</i> , 2016 , 283, 351-357	14.7	50
143	Controlled synthesis of Gd ₂ (WO ₄) ₃ microstructures and their tunable photoluminescent properties after Eu ³⁺ /Tb ³⁺ doping. <i>CrystEngComm</i> , 2012 , 14, 7043	3.3	50
142	Solar energy conversion with tunable plasmonic nanostructures for thermoelectric devices. <i>Nanoscale</i> , 2012 , 4, 4416-20	7.7	50
141	Van der Waals Heterostructures Comprised of Ultrathin Polymer Nanosheets for Efficient Z-Scheme Overall Water Splitting. <i>Angewandte Chemie</i> , 2018 , 130, 3512-3516	3.6	49
140	Noble-Metal-Free Janus-like Structures by Cation Exchange for Z-Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. <i>Angewandte Chemie</i> , 2017 , 129, 4270-4274	3.6	48

- 139 Surface Polarization Matters: Enhancing the Hydrogen-Evolution Reaction by Shrinking Pt Shells in PtPd@Graphene Stack Structures. *Angewandte Chemie*, **2014**, 126, 12316-12320 3.6 45
- 138 Morphological changes in Ag nanocrystals triggered by citrate photoreduction and governed by oxidative etching. *Chemical Communications*, **2011**, 47, 1580-2 5.8 45
- 137 Defective Tungsten Oxide Hydrate Nanosheets for Boosting Aerobic Coupling of Amines: Synergistic Catalysis by Oxygen Vacancies and Brønsted Acid Sites. *Small*, **2017**, 13, 1701354 11 44
- 136 Design of atomically dispersed catalytic sites for photocatalytic CO reduction. *Nanoscale*, **2019**, 11, 11064-11070 7.7 44
- 135 Silicon nanostructures for solar-driven catalytic applications. *Nano Today*, **2017**, 17, 96-116 17.9 44
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