Xi-Wen Du

List of Publications by Year in Descending Order

287 papers	13,499 citations	54 h-index	107 g-index
306 ext. papers	15,734 ext. citations	8.6 avg, IF	6.67 L-index

#	Paper	IF	Citations
287	Epitaxial Growth of High-Energy Copper Facets for Promoting Hydrogen Evolution Reaction.. *Small*, **2022**, e2107481	11	2
286	Polycrystalline CoO□o 9 S 8 Heterostructure Nanoneedle Arrays as Bifunctional Catalysts for Efficient Overall Water Splitting. *ChemElectroChem*, **2022**, 9,	4.3	1
285	Surface Valence State Effect of MoO on Electrochemical Nitrogen Reduction.. *Advanced Science*, **2022**, e2104857	13.6	3
284	Electrocatalytic Reduction of Low-Concentration Nitric Oxide into Ammonia over Ru Nanosheets. *ACS Energy Letters*, **2022**, 7, 1187-1194	20.1	10
283	Self-Supporting Copper Electrode Prepared by Ultrasonic Impact for Hydrogen Evolution Reaction. *Journal of Alloys and Compounds*, **2022**, 165283	5.7	
282	Metal-Confined Synthesis of ZnS2 Monolayer Catalysts for Dinitrogen Electroreduction. *ACS Catalysis*, **2022**, 12, 6809-6815	13.1	0
281	Revealing the Dynamics and Roles of Iron Incorporation in Nickel Hydroxide Water Oxidation Catalysts. *Journal of the American Chemical Society*, **2021**, 143, 18519-18526	16.4	14
280	Engineering a Cu/ZnOx Interface for High Methane Selectivity in CO2 Electrochemical Reduction. *Industrial & Engineering Chemistry Research*, **2021**, 60, 273-280	3.9	6
279	Valence-State Effect of Iridium Dopant in NiFe(OH) Catalyst for Hydrogen Evolution Reaction. *Small* , **2021**, 17, e2100203	11	10
278	Oxidized single nickel atoms embedded in Ru matrix for highly efficient hydrogen evolution reaction. *Journal of Alloys and Compounds*, **2021**, 874, 159909	5.7	1
277	Strawberry-like Co3O4-Ag bifunctional catalyst for overall water splitting. *Applied Catalysis B: Environmental*, **2021**, 299, 120658	21.8	8
276	Fine regulation of electron transfer in Ag@CoO nanoparticles for boosting the oxygen evolution reaction. *Chemical Communications*, **2021**, 57, 6284-6287	5.8	1
275	Testing the Durability of Anti-Icing Coatings **2020**, 495-519		2
274	Stable Rhodium (IV) Oxide for Alkaline Hydrogen Evolution Reaction. *Advanced Materials*, **2020**, 32, e1908521	24	61
273	Creating compressive stress at the NiOOH/NiO interface for water oxidation. *Journal of Materials Chemistry A*, **2020**, 8, 10747-10754	13	20
272	Conductive Boron Nitride as Promising Catalyst Support for the Oxygen Evolution Reaction. *Advanced Energy Materials*, **2020**, 10, 1902521	21.8	12
271	A Hydrogen-Deficient Nickel-Cobalt Double Hydroxide for Photocatalytic Overall Water Splitting. *Angewandte Chemie - International Edition*, **2020**, 59, 11510-11515	16.4	26

270	A Bond-Energy-Integrated-Based Descriptor for High-Throughput Screening of Transition Metal Catalysts. *Journal of Physical Chemistry C*, **2020**, 124, 5241-5247	3.8	5
269	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. *Joule*, **2020**, 4, 673-687	27.8	48
268	Synthesis of Palladium-Based Crystalline@Amorphous Core-Shell Nanoplates for Highly Efficient Ethanol Oxidation. *Advanced Materials*, **2020**, 32, e2000482	24	53
267	A Hydrogen-Deficient Nickel–Cobalt Double Hydroxide for Photocatalytic Overall Water Splitting. *Angewandte Chemie*, **2020**, 132, 11607-11612	3.6	4
266	Bionic Design of a Mo(IV)-Doped FeS2 Catalyst for Electroreduction of Dinitrogen to Ammonia. *ACS Catalysis*, **2020**, 10, 4914-4921	13.1	50
265	Ultrathin cadmium sulfide nanosheets for visible-light photocatalytic hydrogen production. *Journal of Materials Chemistry A*, **2020**, 8, 3586-3589	13	8
264	Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. *Nature Communications*, **2020**, 11, 83	17.4	75
263	Laser-Ablation-Produced Cobalt Nickel Phosphate with High-Valence Nickel Ions as an Active Catalyst for the Oxygen Evolution Reaction. *Chemistry - A European Journal*, **2020**, 26, 2793-2797	4.8	12
262	Progress and Challenges Toward the Rational Design of Oxygen Electrocatalysts Based on a Descriptor Approach. *Advanced Science*, **2020**, 7, 1901614	13.6	81
261	Ultrafine SmMn2O5-δ electrocatalysts with modest oxygen deficiency for highly-efficient pH-neutral magnesium-air batteries. *Journal of Power Sources*, **2020**, 449, 227482	8.9	17
260	Laser-Generated Grain Boundaries in Ruthenium Nanoparticles for Boosting Oxygen Evolution Reaction. *ACS Catalysis*, **2020**, 10, 12575-12581	13.1	22
259	Electroreduction of Carbon Dioxide in Metallic Nanopores through a Pincer Mechanism. *Angewandte Chemie - International Edition*, **2020**, 59, 19297-19303	16.4	12
258	Electroreduction of Carbon Dioxide in Metallic Nanopores through a Pincer Mechanism. *Angewandte Chemie*, **2020**, 132, 19459-19465	3.6	3
257	Distribution of alkali cations near the Cu (111) surface in aqueous solution. *Journal of Materials Chemistry A*, **2020**, 8, 24428-24437	13	1
256	Enhanced multi-carbon alcohol electroproduction from CO via modulated hydrogen adsorption. *Nature Communications*, **2020**, 11, 3685	17.4	28
255	Unveiling the critical role of the Mn dopant in a NiFe(OH)2 catalyst for water oxidation. *Journal of Materials Chemistry A*, **2020**, 8, 17471-17476	13	10
254	Phase segregation reversibility in mixed-metal hydroxide water oxidation catalysts. *Nature Catalysis*, **2020**, 3, 743-753	36.5	71
253	High-performance glucose fuel cell with bimetallic Ni–Co composite anchored on reduced graphene oxide as anode catalyst. *Renewable Energy*, **2020**, 155, 1118-1126	8.1	22

252	Porous Copper Microspheres for Selective Production of Multicarbon Fuels via CO Electroreduction. *Small*, **2019**, 15, e1902582	11	14
251	Laser Synthesis of Iridium Nanospheres for Overall Water Splitting. *Materials*, **2019**, 12,	3.5	12
250	Laser synthesis of oxygen vacancy-modified CoOOH for highly efficient oxygen evolution. *Chemical Communications*, **2019**, 55, 2904-2907	5.8	66
249	Engineering NiO/NiFe LDH Intersection to Bypass Scaling Relationship for Oxygen Evolution Reaction via Dynamic Tridimensional Adsorption of Intermediates. *Advanced Materials*, **2019**, 31, e1804769	24	176
248	Water-Processable P2-Na0.67Ni0.22Cu0.11Mn0.56Ti0.11O2 Cathode Material for Sodium Ion Batteries. *Journal of the Electrochemical Society*, **2019**, 166, A251-A257	3.9	17
247	Porous Cobalt-Nickel Hydroxide Nanosheets with Active Cobalt Ions for Overall Water Splitting. *Small*, **2019**, 15, e1804832	11	36
246	Fully Oxidized NiFe Layered Double Hydroxide with 100% Exposed Active Sites for Catalyzing Oxygen Evolution Reaction. *ACS Catalysis*, **2019**, 9, 6027-6032	13.1	112
245	Electrocatalysis: Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction (Adv. Mater. 16/2019). *Advanced Materials*, **2019**, 31, 1970113	24	2
244	Molybdenum Disulfide Modified by Laser Irradiation for Catalyzing Hydrogen Evolution. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6999-7003	8.3	33
243	Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. *Advanced Materials*, **2019**, 31, e1807771	24	149
242	Ruthenium-Based Single-Atom Alloy with High Electrocatalytic Activity for Hydrogen Evolution. *Advanced Energy Materials*, **2019**, 9, 1803913	21.8	152
241	Surface Characterization of Li-Substituted Compositionally Heterogeneous NaLi0.045Cu0.185Fe0.265Mn0.505O2 Sodium-Ion Cathode Material. *Journal of Physical Chemistry C* , **2019**, 123, 11428-11435	3.8	10
240	Laser-induced oxygen vacancies in FeCoO nanoparticles for boosting oxygen evolution and reduction. *Chemical Communications*, **2019**, 55, 8579-8582	5.8	30
239	Ir□□ Catalytic Group in Ir-Doped NiV(OH)2 for Overall Water Splitting. *ACS Energy Letters*, **2019**, 4, 1823-1829	20.1	83
238	Co3O4 Nanoparticles with Ultrasmall Size and Abundant Oxygen Vacancies for Boosting Oxygen Involved Reactions. *Advanced Functional Materials*, **2019**, 29, 1903444	15.6	59
237	Ultrafine Ag Nanoparticles as Active Catalyst for Electrocatalytic Hydrogen Production. *ChemCatChem*, **2019**, 11, 5976-5981	5.2	12
236	Real time imaging of two-dimensional iron oxide spherulite nanostructure formation. *Nano Research*, **2019**, 12, 2889-2893	10	4
235	Zn nanosheets coated with a ZnS subnanometer layer for effective and durable CO2 reduction. *Journal of Materials Chemistry A*, **2019**, 7, 1418-1423	13	40

234	Laser-Induced Pyridinic-Nitrogen-Rich Defective Carbon Nanotubes for Efficient Oxygen Electrocatalysis. *ChemCatChem*, **2019**, 11, 6131-6138	5.2	5
233	Improving Interfacial Electron Transfer via Tuning Work Function of Electrodes for Electrocatalysis: From Theory to Experiment. *Journal of Physical Chemistry C*, **2019**, 123, 28319-28326	3.8	11
232	Bond-Energy-Integrated Coordination Number: An Accurate Descriptor for Transition-Metal Catalysts. *Journal of Physical Chemistry C*, **2019**, 123, 28248-28254	3.8	3
231	An Ordered P2/P3 Composite Layered Oxide Cathode with Long Cycle Life in Sodium-Ion Batteries **2019**, 1, 573-581		20
230	Lattice-strained palladium nanoparticles as active catalysts for the oxygen reduction reaction. *Chemical Communications*, **2019**, 55, 3121-3123	5.8	25
229	A silver catalyst activated by stacking faults for the hydrogen evolution reaction. *Nature Catalysis*, **2019**, 2, 1107-1114	36.5	128
228	Laser Synthesized Bi-functional Hybrid Catalyst Oxygen-defective Co3O4/N-Graphene for Oxygen Electrode Reactions. *Chemistry Letters*, **2019**, 48, 118-121	1.7	4
227	Silver/Copper Interface for Relay Electroreduction of Carbon Dioxide to Ethylene. *ACS Applied Materials & Interfaces*, **2019**, 11, 2763-2767	9.5	38
226	Chlorella-derived porous heteroatom-doped carbons as robust catalysts for oxygen reduction reaction in direct glucose alkaline fuel cell. *International Journal of Hydrogen Energy*, **2019**, 44, 2823-2831	6.7	13
225	Strongly Coupled CoO Nanoclusters/CoFe LDHs Hybrid as a Synergistic Catalyst for Electrochemical Water Oxidation. *Small*, **2018**, 14, e1800195	11	63
224	Ti3+ defect mediated g-C3N4/TiO2 Z-scheme system for enhanced photocatalytic redox performance. *Applied Surface Science*, **2018**, 448, 288-296	6.7	63
223	ZnO nanosheets with atomically thin ZnS overlayers for photocatalytic water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 9057-9063	13	40
222	Surface transformation by a cocktail solvent enables stable cathode materials for sodium ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 2758-2766	13	17
221	Cuprous ions embedded in ceria lattice for selective and stable electrochemical reduction of carbon dioxide to ethylene. *Journal of Materials Chemistry A*, **2018**, 6, 9373-9377	13	28
220	Near-infrared graded-index antireflection coating from ZnSe hollow nanospheres. *Materials Letters*, **2018**, 222, 21-24	3.3	1
219	Synthesis of cadmium chalcogenides nanowires via laser-activated gold catalysts in solution. *Materials Chemistry and Physics*, **2018**, 212, 408-414	4.4	5
218	Identifying the Key Role of Pyridinic-N-Co Bonding in Synergistic Electrocatalysis for Reversible ORR/OER. *Advanced Materials*, **2018**, 30, e1800005	24	279
217	Bond-Energy-Integrated Descriptor for Oxygen Electrocatalysis of Transition Metal Oxides. *Journal of Physical Chemistry Letters*, **2018**, 9, 3387-3391	6.4	22

216	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. *Nature Chemistry*, **2018**, 10, 149-154	17.6	328
215	Engineering oxygen vacancy on NiO nanorod arrays for alkaline hydrogen evolution. *Nano Energy*, **2018**, 43, 103-109	17.1	366
214	Deciphering the Cathode□Electrolyte Interfacial Chemistry in Sodium Layered Cathode Materials. *Advanced Energy Materials*, **2018**, 8, 1801975	21.8	64
213	Thermally driven mesoscale chemomechanical interplay in Li0.5Ni0.6Mn0.2Co0.2O2 cathode materials. *Journal of Materials Chemistry A*, **2018**, 6, 23055-23061	13	32
212	Selective nitrogen doping of graphene oxide by laser irradiation for enhanced hydrogen evolution activity. *Chemical Communications*, **2018**, 54, 13726-13729	5.8	16
211	Boosting reversible oxygen electrocatalysis with enhanced interfacial pyridinic-N-Co bonding in cobalt oxide/mesoporous N-doped graphene hybrids. *Nanoscale*, **2018**, 10, 22140-22147	7.7	18
210	Spheroidization of Nickel Powder and Coating with Carbon Layer through Laser Heating. *Materials*, **2018**, 11,	3.5	1
209	Multiscale Structural Engineering of Ni-Doped CoO Nanosheets for Zinc-Air Batteries with High Power Density. *Advanced Materials*, **2018**, 30, e1804653	24	93
208	Copper adparticle enabled selective electrosynthesis of n-propanol. *Nature Communications*, **2018**, 9, 4614	17.4	86
207	Atomic-level structure engineering of metal oxides for high-rate oxygen intercalation pseudocapacitance. *Science Advances*, **2018**, 4, eaau6261	14.3	130
206	Laser-Prepared CuZn Alloy Catalyst for Selective Electrochemical Reduction of CO to Ethylene. *Langmuir*, **2018**, 34, 13544-13549	4	70
205	Graphene Hybrids: Identifying the Key Role of Pyridinic-N□Co Bonding in Synergistic Electrocatalysis for Reversible ORR/OER (Adv. Mater. 23/2018). *Advanced Materials*, **2018**, 30, 1870164	24	3
204	Tuning Spin State of Rock-Salt-Based Oxides by Manipulation of Crystallinity for Efficient Oxygen Electrocatalysis. *Advanced Energy Materials*, **2018**, 8, 1703469	21.8	30
203	3D Aluminum Hybrid Plasmonic Nanostructures with Large Areas of Dense Hot Spots and Long-Term Stability. *Advanced Functional Materials*, **2017**, 27, 1605703	15.6	48
202	Zinc-Blende CdS Nanocubes with Coordinated Facets for Photocatalytic Water Splitting. *ACS Catalysis*, **2017**, 7, 1470-1477	13.1	56
201	Engineering hierarchical nanotrees with CuCo2O4 trunks and NiO branches for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 5820-5828	13	84
200	Modest Oxygen-Defective Amorphous Manganese-Based Nanoparticle Mullite with Superior Overall Electrocatalytic Performance for Oxygen Reduction Reaction. *Small*, **2017**, 13, 1603903	11	53
199	Catalytically active and chemically inert CdInS coating on a CdS photoanode for efficient and stable water splitting. *Nanoscale*, **2017**, 9, 6296-6301	7.7	41

198	Tuning Band Structure of Cadmium Chalcogenide Nanoflake Arrays via Alloying for Efficient Photoelectrochemical Hydrogen Evolution. *Langmuir*, **2017**, 33, 6457-6463	4	3
197	Tuning the selectivity and activity of Au catalysts for carbon dioxide electroreduction via grain boundary engineering: a DFT study. *Journal of Materials Chemistry A*, **2017**, 5, 7184-7190	13	48
196	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. *Advanced Materials*, **2017**, 29, 1604607	24	194
195	Arrays of Ultrathin CdS Nanoflakes with High-Energy Surface for Efficient Gas Detection. *ACS Applied Materials & Interfaces*, **2017**, 9, 602-609	9.5	31
194	Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO2 to Formate. *Joule*, **2017**, 1, 794-805	27.8	263
193	Localized Defects on Copper Sulfide Surface for Enhanced Plasmon Resonance and Water Splitting. *Small*, **2017**, 13, 1700867	11	29
192	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. *Nature Communications*, **2017**, 8, 1509	17.4	276
191	Microwave activated gold nanoparticles for catalytic growth of monocrystal CdSe nanowires in solution. *New Journal of Chemistry*, **2017**, 41, 14822-14825	3.6	1
190	Engineering hollow electrodes for hybrid solar cells for efficient light harvesting and carrier collection. *Journal of Materials Chemistry A*, **2016**, 4, 17260-17266	13	3
189	ZnSe hollow nanospheres in mechanically stable near-IR antireflection coatings for ZnSe substrates. *Nanotechnology*, **2016**, 27, 365604	3.4	1
188	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. *Nature Communications*, **2016**, 7, 12876	17.4	471
187	In situ synthesis of highly-active Pt nanoclusters via thermal decomposition for high-temperature catalytic reactions. *RSC Advances*, **2016**, 6, 49777-49781	3.7	3
186	Strong blue emission from zinc hydroxide carbonate nanosheets. *Journal of Luminescence*, **2016**, 177, 242-248	3.8	8
185	ZnFe2 O4 Leaves Grown on TiO2 Trees Enhance Photoelectrochemical Water Splitting. *Small*, **2016**, 12, 3181-8	11	50
184	Laser synthesis of clean mesocrystal of cupric oxide for efficient gas sensing. *Journal of Materials Chemistry A*, **2016**, 4, 2699-2704	13	19
183	Laser-driven absorption/desorption of catalysts for producing nanowire arrays in solution. *Journal of Materials Chemistry A*, **2016**, 4, 379-383	13	7
182	Surface plasmon resonance enhanced visible-light-driven photocatalytic activity in Cu nanoparticles covered Cu2O microspheres for degrading organic pollutants. *Applied Surface Science*, **2016**, 366, 120-128	6.7	50
181	Identifying the descriptor governing NO oxidation on mullite Sm(Y, Tb, Gd, Lu)Mn2O5 for diesel exhaust cleaning. *Catalysis Science and Technology*, **2016**, 6, 3971-3975	5.5	32

180	CdO nanoflake arrays on ZnO nanorod arrays for efficient detection of diethyl ether. *RSC Advances*, **2016**, 6, 2500-2503	3.7	4
179	Scalable synthesis of cubic Cu(1.4)S nanoparticles with long-term stability by laser ablation of salt powder. *Chemical Communications*, **2016**, 52, 811-4	5.8	8
178	Facile synthesis of three dimensional CdS nanoflowers with high photocatalytic performance. *Journal of Alloys and Compounds*, **2016**, 656, 972-977	5.7	26
177	Water Splitting: Strongly Coupled Nafion Molecules and Ordered Porous CdS Networks for Enhanced Visible-Light Photoelectrochemical Hydrogen Evolution (Adv. Mater. 24/2016). *Advanced Materials*, **2016**, 28, 4943	24	
176	Strongly Coupled Nafion Molecules and Ordered Porous CdS Networks for Enhanced Visible-Light Photoelectrochemical Hydrogen Evolution. *Advanced Materials*, **2016**, 28, 4935-42	24	75
175	Interrogation of bimetallic particle oxidation in three dimensions at the nanoscale. *Nature Communications*, **2016**, 7, 13335	17.4	46
174	A Rational Design of Heterojunction Photocatalyst CdS Interfacing with One Cycle of ALD Oxide. *Journal of Materials Science and Technology*, **2016**, 32, 489-495	9.1	6
173	Superior gas-sensing performance of amorphous CdO nanoflake arrays prepared at room temperature. *Journal of Materials Chemistry A*, **2016**, 4, 8700-8706	13	16
172	Top-Down Preparation of Active Cobalt Oxide Catalyst. *ACS Catalysis*, **2016**, 6, 6699-6703	13.1	83
171	Nanoflake Arrays: CdS Nanoflake Arrays for Highly Efficient Light Trapping (Adv. Mater. 4/2015). *Advanced Materials*, **2015**, 27, 772-772	24	
170	Direct conversion of bulk metals to size-tailored, monodisperse spherical non-coinage-metal nanocrystals. *Angewandte Chemie - International Edition*, **2015**, 54, 4787-91	16.4	16
169	Carbon Nanotube Reinforced CdSe Inverse Opal with Crack-Free Structure and High Conductivity for Photovoltaic Applications. *Advanced Materials Interfaces*, **2015**, 2, 1400464	4.6	12
168	Hierarchical, Ultrathin Single-Crystal Nanowires of CdS Conveniently Produced in Laser-Induced Thermal Field. *Langmuir*, **2015**, 31, 8162-7	4	1
167	A stable inverse opal structure of cadmium chalcogenide for efficient water splitting. *Journal of Materials Chemistry A*, **2015**, 3, 18521-18527	13	27
166	Freestanding Ultrathin Metallic Nanosheets: Materials, Synthesis, and Applications. *Advanced Materials*, **2015**, 27, 5396-402	24	83
165	Porous P-doped graphitic carbon nitride nanosheets for synergistically enhanced visible-light photocatalytic H2 production. *Energy and Environmental Science*, **2015**, 8, 3708-3717	35.4	903
164	Extraordinary Hall effect and universal scaling in Fex(ZnO)1− granular thin films at room temperature. *Applied Physics Letters*, **2015**, 106, 012401	3.4	12
163	Ionic liquid-assisted synthesis of N/S-double doped graphene microwires for oxygen evolution and Zn−air batteries. *Energy Storage Materials*, **2015**, 1, 17-24	19.4	59

162	Photothermal synthesis of ultrafine Cu(x)O nanoparticles on carbon nanotubes for photosensitized degradation. *Chemical Communications*, **2015**, 51, 5660-3	5.8	9
161	Synergistic synthesis of quasi-monocrystal CdS nanoboxes with high-energy facets. *Journal of Materials Chemistry A*, **2015**, 3, 23106-23112	13	3
160	Single crystalline Cu2ZnSnS4 nanosheet arrays for efficient photochemical hydrogen generation. *RSC Advances*, **2015**, 5, 2543-2549	3.7	46
159	Laser-activated gold catalysts for liquid-phase growth of cadmium selenide nanowires. *Chemical Communications*, **2015**, 51, 2145-8	5.8	7
158	CdS nanoflake arrays for highly efficient light trapping. *Advanced Materials*, **2015**, 27, 740-5	24	37
157	Direct Conversion of Bulk Metals to Size-Tailored, Monodisperse Spherical Non-Coinage-Metal Nanocrystals. *Angewandte Chemie*, **2015**, 127, 4869-4873	3.6	2
156	Photochemical Synthesis of Ultrafine Cubic Boron Nitride Nanoparticles under Ambient Conditions. *Angewandte Chemie*, **2015**, 127, 7157-7160	3.6	8
155	Photochemical Synthesis of Ultrafine Cubic Boron Nitride Nanoparticles under Ambient Conditions. *Angewandte Chemie - International Edition*, **2015**, 54, 7051-4	16.4	24
154	Gain high-quality colloidal quantum dots directly from natural minerals. *Langmuir*, **2015**, 31, 2251-5	4	10
153	Millisecond laser ablation of molybdenum target in reactive gas toward MoS2 fullerene-like nanoparticles with thermally stable photoresponse. *ACS Applied Materials & Interfaces*, **2015**, 7, 1949-54	8.5	16
152	The icephobic performance of alkyl-grafted aluminum surfaces. *Soft Matter*, **2015**, 11, 856-61	3.6	88
151	Gas-Phase Cation Exchange toward Porous Single-Crystal CoO Nanorods for Catalytic Hydrogen Production. *Chemistry of Materials*, **2015**, 27, 352-357	9.6	58
150	In-situ processing and aging behaviors of MgAl2O4 spinel whisker reinforced 6061Al composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2014**, 598, 114-121	5.3	14
149	Pure gold nanocages by galvanic replacement reaction of magnesium nanoparticles. *RSC Advances*, **2014**, 4, 1185-1188	3.7	13
148	CdTe nanoflake arrays on a conductive substrate: template synthesis and photoresponse property. *Journal of Materials Chemistry A*, **2014**, 2, 957-961	13	9
147	Double open-circuit voltage of three-dimensional ZnO/CdTe solar cells by a balancing depletion layer. *ACS Applied Materials & Interfaces*, **2014**, 6, 14718-23	9.5	19
146	Gas-phase anion exchange towards ZnO/ZnSe heterostructures with intensive visible light emission. *Journal of Materials Chemistry C*, **2014**, 2, 2793-2798	7.1	9
145	Electrodeposition of Silver Nanoparticles on ITO Films with Different Thickness and Application as LSPR Sensor. *ECS Electrochemistry Letters*, **2014**, 3, B30-B32		5

144	One Step Growth of Semiconductor CdS Uniform Branched Nanowire on FTO. *Applied Mechanics and Materials*, **2014**, 472, 744-749	0.3	2
143	Highly Conductive CdS Inverse Opals for Photochemical Solar Cells. *Advanced Functional Materials*, **2014**, 24, 707-715	15.6	31
142	N-doped graphene natively grown on hierarchical ordered porous carbon for enhanced oxygen reduction. *Advanced Materials*, **2013**, 25, 6226-31	24	358
141	Pyrite nanorod arrays as an efficient counter electrode for dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 11828	13	52
140	A One-compartment direct glucose alkaline fuel cell with methyl viologen as electron mediator. *Applied Energy*, **2013**, 106, 176-183	10.7	42
139	Microstructure and properties of in situ generated MgAl2O4 spinel whisker reinforced aluminum matrix composites. *Materials & Design*, **2013**, 46, 724-730		23
138	Scalable synthesis of hollow Cu2O nanocubes with unique optical properties via a simple hydrolysis-based approach. *Journal of Materials Chemistry A*, **2013**, 1, 302-307	13	45
137	Modify the morphology of colloidal Ag2Se nanostructures by laser irradiation. *CrystEngComm*, **2013**, 15, 1685	3.3	5
136	Comparison of ZnO and TiO2 nanowires for photoanode of dye-sensitized solar cells. *Journal of Alloys and Compounds*, **2013**, 546, 307-313	5.7	41
135	A top-down strategy towards monodisperse colloidal lead sulphide quantum dots. *Nature Communications*, **2013**, 4, 1695	17.4	94
134	P-type CoO nanowire arrays and their application in quantum dot-sensitized solar cells. *RSC Advances*, **2013**, 3, 1217-1221	3.7	30
133	Decolorization of methylene blue in aqueous suspensions of gold nanoparticles using parallel nanosecond pulsed laser. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2013**, 48, 1583-91	2.3	1
132	Formation of alumina nanocapsules by high-energy-electron irradiation of Na-dawsonite nanorods. *Scientific Reports*, **2013**, 3, 3218	4.9	6
131	Low-temperature synthesis of multi-walled carbon nanotubes over Cu catalyst. *Materials Letters*, **2012**, 72, 164-167	3.3	11
130	Facile synthesis of SnS hollow nanoparticles via laser ablation followed by chemical etching. *RSC Advances*, **2012**, 2, 7824	3.7	17
129	TiO2 cellular-protected nanowire array fabricated super-rapidly by the precipitation of colloids in the nanopores. *Journal of Materials Chemistry*, **2012**, 22, 13820		1
128	Hierarchical porous carbon with graphitic structure synthesized by a water soluble template method. *Materials Letters*, **2012**, 87, 77-79	3.3	35
127	Enhanced electrochemical performance of LiFePO4 cathode with in-situ chemical vapor deposition synthesized carbon nanotubes as conductor. *Journal of Power Sources*, **2012**, 220, 264-268	8.9	49

126	Fabrication of aluminum matrix composites with enhanced mechanical properties reinforced by in situ generated MgAl2O4 whiskers. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 631-634	8.4	25
125	Highly ordered mesoporous Cr2O3 materials with enhanced performance for gas sensors and lithium ion batteries. *Chemical Communications*, **2012**, 48, 865-7	5.8	141
124	Enhancing the Conversion Efficiency of Semiconductor Sensitized Solar Cells via the Cosensitization of Dual-Sized Quantum Dots. *Industrial & Engineering Chemistry Research*, **2012**, 51, 10074-10078	3.9	16
123	On the origin of blue emission from ZnO quantum dots synthesized by a sol–gel route. *Semiconductor Science and Technology*, **2012**, 27, 065020	1.8	25
122	Improve photo-electron conversion efficiency of ZnO/CdS coaxial nanorods by p-type CdTe coating. *Nanotechnology*, **2012**, 23, 485401	3.4	23
121	Three-dimensional networks of ITO/CdS coaxial nanofibers for photovoltaic applications. *Journal of Materials Chemistry*, **2012**, 22, 13057		13
120	Low-temperature synthesis of ZnO/CdS hierarchical nanostructure for photovoltaic application. *Nanoscale*, **2012**, 4, 5602-7	7.7	26
119	Nanomaterials via Laser Ablation/Irradiation in Liquid: A Review. *Advanced Functional Materials*, **2012**, 22, 1333-1353	15.6	646
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