Shuhui Sun

List of Publications by Citations

253 papers	11,113 citations	54 h-index	95 g-index
272 ext. papers	13,958 ext. citations	10.1 avg, IF	6.81 L-index

#	Paper	IF	Citations
253	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. *Scientific Reports*, **2013**, 3,	4.9	589
252	Single-Atom Au/NiFe Layered Double Hydroxide Electrocatalyst: Probing the Origin of Activity for Oxygen Evolution Reaction. *Journal of the American Chemical Society*, **2018**, 140, 3876-3879	16.4	560
251	The surface analytical characterization of carbon fibers functionalized by H2SO4/HNO3 treatment. *Carbon*, **2008**, 46, 196-205	10.4	430
250	A highly durable platinum nanocatalyst for proton exchange membrane fuel cells: multiarmed starlike nanowire single crystal. *Angewandte Chemie - International Edition*, **2011**, 50, 422-6	16.4	326
249	Controlled Growth of Pt Nanowires on Carbon Nanospheres and Their Enhanced Performance as Electrocatalysts in PEM Fuel Cells. *Advanced Materials*, **2008**, 20, 3900-3904	24	302
248	High-Performance Reversible Aqueous Zn-Ion Battery Based on Porous MnOx Nanorods Coated by MOF-Derived N-Doped Carbon. *Advanced Energy Materials*, **2018**, 8, 1801445	21.8	284
247	Nitric oxide suppresses NLRP3 inflammasome activation and protects against LPS-induced septic shock. *Cell Research*, **2013**, 23, 201-12	24.7	258
246	Template- and Surfactant-free Room Temperature Synthesis of Self-Assembled 3D Pt Nanoflowers from Single-Crystal Nanowires. *Advanced Materials*, **2008**, 20, 571-574	24	214
245	Raman scattering study of rutile SnO2 nanobelts synthesized by thermal evaporation of Sn powders. *Chemical Physics Letters*, **2003**, 376, 103-107	2.5	203
244	A specific demetalation of FeN4 catalytic sites in the micropores of NC_Ar + NH3 is at the origin of the initial activity loss of the highly active Fe/N/C catalyst used for the reduction of oxygen in PEM fuel cells. *Energy and Environmental Science*, **2018**, 11, 365-382	35.4	189
243	Is iron involved in the lack of stability of Fe/N/C electrocatalysts used to reduce oxygen at the cathode of PEM fuel cells?. *Nano Energy*, **2016**, 29, 111-125	17.1	186
242	The New Graphene Family Materials: Synthesis and Applications in Oxygen Reduction Reaction. *Catalysts*, **2017**, 7, 1	4	175
241	Noble metals-TiO2 nanocomposites: From fundamental mechanisms to photocatalysis, surface enhanced Raman scattering and antibacterial applications. *Applied Materials Today*, **2018**, 11, 82-135	6.6	148
240	Nitrogen-Doped Carbon Nanotube and Graphene Materials for Oxygen Reduction Reactions. *Catalysts*, **2015**, 5, 1574-1602	4	145
239	Synthesis and optical properties of S-doped ZnO nanowires. *Applied Physics Letters*, **2003**, 82, 4791-4793	3.4	141
238	Advanced Phosphorus-Based Materials for Lithium/Sodium-Ion Batteries: Recent Developments and Future Perspectives. *Advanced Energy Materials*, **2018**, 8, 1703058	21.8	119
237	Efficient and stable tandem luminescent solar concentrators based on carbon dots and perovskite quantum dots. *Nano Energy*, **2018**, 50, 756-765	17.1	113

236	Nanoporous Al-Ni-Co-Ir-Mo High-Entropy Alloy for Record-High Water Splitting Activity in Acidic Environments. *Small*, **2019**, 15, e1904180	11	113
235	A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal. *Angewandte Chemie*, **2011**, 123, 442-446	3.6	110
234	Direct growth of single-crystal Pt nanowires on Sn@CNT Nanocable: 3D electrodes for highly active electrocatalysts. *Chemistry - A European Journal*, **2010**, 16, 829-35	4.8	107
233	Electrochemical synthesis of copper nanowires. *Journal of Physics Condensed Matter*, **2002**, 14, 355-363	1.8	106
232	Nanoporous high-entropy alloys for highly stable and efficient catalysts. *Journal of Materials Chemistry A*, **2019**, 7, 6499-6506	13	105
231	Chemical Structure of Nitrogen-Doped Graphene with Single Platinum Atoms and Atomic Clusters as a Platform for the PEMFC Electrode. *Journal of Physical Chemistry C*, **2014**, 118, 3890-3900	3.8	105
230	Rational design of multifunctional air electrodes for rechargeable Zn□Air batteries: Recent progress and future perspectives. *Energy Storage Materials*, **2019**, 21, 253-286	19.4	102
229	Metal-organic framework derived carbon materials for electrocatalytic oxygen reactions: Recent progress and future perspectives. *Carbon*, **2020**, 156, 77-92	10.4	102
228	Heavy metal-free, near-infrared colloidal quantum dots for efficient photoelectrochemical hydrogen generation. *Nano Energy*, **2017**, 31, 441-449	17.1	97
227	Electrosynthesis of Pd Single-Crystal Nanothorns and Their Application in the Oxidation of Formic Acid. *Chemistry of Materials*, **2008**, 20, 6998-7002	9.6	97
226	Oxygen reduction to hydrogen peroxide on Fe3O4 nanoparticles supported on Printex carbon and Graphene. *Electrochimica Acta*, **2015**, 162, 263-270	6.7	95
225	Pyrolysis of Self-Assembled Iron Porphyrin on Carbon Black as Core/Shell Structured Electrocatalysts for Highly Efficient Oxygen Reduction in Both Alkaline and Acidic Medium. *Advanced Functional Materials*, **2017**, 27, 1604356	15.6	94
224	Noble Metal-Free Nanoporous High-Entropy Alloys as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction **2019**, 1, 526-533		93
223	Synthesis and Characterization of Platinum Nanowire□Carbon Nanotube Heterostructures. *Chemistry of Materials*, **2007**, 19, 6376-6378	9.6	93
222	Stabilizing lithium metal anode by octaphenyl polyoxyethylene-lithium complexation. *Nature Communications*, **2020**, 11, 643	17.4	84
221	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. *Nano-Micro Letters*, **2020**, 12, 21	19.5	83
220	Ultra-long life rechargeable zinc-air battery based on high-performance trimetallic nitride and NCNT hybrid bifunctional electrocatalysts. *Nano Energy*, **2019**, 61, 86-95	17.1	82
219	Progress and Challenges Toward the Rational Design of Oxygen Electrocatalysts Based on a Descriptor Approach. *Advanced Science*, **2020**, 7, 1901614	13.6	81

218	Porous hollow Fe2O3@TiO2 core–shell nanospheres for superior lithium/sodium storage capability. *Journal of Materials Chemistry A*, **2015**, 3, 13807-13818	13	80
217	Morphology-Controlled Green Synthesis of Single Crystalline Silver Dendrites, Dendritic Flowers, and Rods, and Their Growth Mechanism. *Crystal Growth and Design*, **2011**, 11, 2493-2499	3.5	80
216	Cellulose Nanofibers/Reduced Graphene Oxide/Polypyrrole Aerogel Electrodes for High-Capacitance Flexible All-Solid-State Supercapacitors. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11175-11185	8.3	77
215	Porous dendritic platinum nanotubes with extremely high activity and stability for oxygen reduction reaction. *Scientific Reports*, **2013**, 3, 1526	4.9	75
214	Micro-Raman and infrared properties of SnO2 nanobelts synthesized from Sn and SiO2 powders. *Journal of Applied Physics*, **2003**, 93, 1760-1763	2.5	75
213	Bioinspired Synthesis of Hierarchical Porous Graphitic Carbon Spheres with Outstanding High-Rate Performance in Lithium-Ion Batteries. *Chemistry of Materials*, **2015**, 27, 336-342	9.6	73
212	3D Porous Fe/N/C Spherical Nanostructures As High-Performance Electrocatalysts for Oxygen Reduction in Both Alkaline and Acidic Media. *ACS Applied Materials & Interfaces*, **2017**, 9, 36944-36954	9.5	70
211	Ultrathin Carbon-Coated Pt/Carbon Nanotubes: A Highly Durable Electrocatalyst for Oxygen Reduction. *Chemistry of Materials*, **2017**, 29, 9579-9587	9.6	70
210	Engineering interfacial structure in Giant PbS/CdS quantum dots for photoelectrochemical solar energy conversion. *Nano Energy*, **2016**, 30, 531-541	17.1	70
209	Fe/Co Double Hydroxide/Oxide Nanoparticles on N-Doped CNTs as Highly Efficient Electrocatalyst for Rechargeable Liquid and Quasi-Solid-State Zinc–Air Batteries. *Advanced Energy Materials*, **2018**, 8, 1801836	21.8	70
208	Large-scale synthesis of SnO2 nanobelts. *Applied Physics A: Materials Science and Processing*, **2003**, 76, 287-289	2.6	69
207	Near-Infrared, Heavy Metal-Free Colloidal Giant Core/Shell Quantum Dots. *Advanced Energy Materials*, **2018**, 8, 1701432	21.8	68
206	Synthesis of hierarchical platinum-palladium-copper nanodendrites for efficient methanol oxidation. *Applied Catalysis B: Environmental*, **2017**, 211, 205-211	21.8	66
205	Zn nanobelts: a new quasi one-dimensional metal nanostructure. *Chemical Communications*, **2001**, 2632-2633	5.8	65
204	An active and robust Si-Fe/N/C catalyst derived from waste reed for oxygen reduction. *Applied Catalysis B: Environmental*, **2018**, 237, 85-93	21.8	62
203	A facile synthesis of Fe3O4 nanoparticles/graphene for high-performance lithium/sodium-ion batteries. *RSC Advances*, **2016**, 6, 16624-16633	3.7	61
202	Ultrathin single crystal Pt nanowires grown on N-doped carbon nanotubes. *Chemical Communications*, **2009**, 7048-50	5.8	58
201	Surface engineering by doping manganese into cobalt phosphide towards highly efficient bifunctional HER and OER electrocatalysis. *Applied Surface Science*, **2020**, 515, 146059	6.7	56

200	Electrochemical synthesis of ordered CdTe nanowire arrays. *Applied Physics A: Materials Science and Processing*, **2003**, 76, 537-539	2.6	54
199	Indiscrete metal/metal-N-C synergic active sites for efficient and durable oxygen electrocatalysis toward advanced Zn-air batteries. *Applied Catalysis B: Environmental*, **2020**, 272, 118967	21.8	53
198	Ultra-High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. *Angewandte Chemie - International Edition*, **2021**, 60, 11481-11486	16.4	51
197	Template synthesis of Y-junction metal nanowires. *Applied Physics A: Materials Science and Processing*, **2002**, 74, 403-406	2.6	50
196	Rechargeable Zn-ion batteries with high power and energy densities: a two-electron reaction pathway in birnessite MnO2 cathode materials. *Journal of Materials Chemistry A*, **2020**, 8, 1975-1985	13	50
195	Controlled growth of SnO(2) hierarchical nanostructures by a multistep thermal vapor deposition process. *Chemistry - A European Journal*, **2007**, 13, 9087-92	4.8	49
194	Optoelectronic Properties in Near-Infrared Colloidal Heterostructured Pyramidal "Giant" Core/Shell Quantum Dots. *Advanced Science*, **2018**, 5, 1800656	13.6	49
193	Well-Defined Nanostructures for Electrochemical Energy Conversion and Storage. *Advanced Energy Materials*, **2021**, 11, 2001537	21.8	47
192	Self-Templated Hierarchically Porous Carbon Nanorods Embedded with Atomic Fe-N4 Active Sites as Efficient Oxygen Reduction Electrocatalysts in Zn-Air Batteries. *Advanced Functional Materials*, **2021**, 31, 2008085	15.6	47
191	RRDE experiments on noble-metal and noble-metal-free catalysts: Impact of loading on the activity and selectivity of oxygen reduction reaction in alkaline solution. *Applied Catalysis B: Environmental*, **2017**, 206, 115-126	21.8	46
190	Controlled Growth and Optical Properties of One-Dimensional ZnO Nanostructures on SnO2 Nanobelts. *Crystal Growth and Design*, **2007**, 7, 1988-1991	3.5	46
189	A Facile Route for the Self-Organized High-Density Decoration of Pt Nanoparticles on Carbon Nanotubes. *Journal of Physical Chemistry C*, **2008**, 112, 11717-11721	3.8	45
188	Stacking faults created by the combined deflection of threading dislocations of Burgers vector c and c+a during the physical vapor transport growth of 4H□SiC. *Applied Physics Letters*, **2011**, 98, 232110	3.4	44
187	Three growth modes and mechanisms for highly structure-tunable SnO2 nanotube arrays of template-directed atomic layer deposition. *Journal of Materials Chemistry*, **2011**, 21, 12321		44
186	SiO2-Fe/N/C catalyst with enhanced mass transport in PEM fuel cells. *Applied Catalysis B: Environmental*, **2020**, 264, 118523	21.8	44
185	TiSi2Ox Coated N-Doped Carbon Nanotubes as Pt Catalyst Support for the Oxygen Reduction Reaction in PEMFCs. *Journal of Physical Chemistry C*, **2013**, 117, 15457-15467	3.8	43
184	Litchi-like porous Fe/N/C spheres with atomically dispersed FeNx promoted by sulfur as highly efficient oxygen electrocatalysts for Zn□air batteries. *Journal of Materials Chemistry A*, **2018**, 6, 4605-4610	13	43
183	Cu Nanoclusters/FeN Amorphous Composites with Dual Active Sites in N-Doped Graphene for High-Performance Zn-Air Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 31340-31350	9.5	42

182	Non-PGM electrocatalysts for PEM fuel cells: effect of fluorination on the activity and stability of a highly active NC_Ar + NH3 catalyst. *Energy and Environmental Science*, **2019**, 12, 3015-3037	35.4	42
181	Delicate topotactic conversion of coordination polymers to Pd porous nanosheets for high-efficiency electrocatalysis. *Applied Catalysis B: Environmental*, **2019**, 243, 86-93	21.8	42
180	A self-supported electrode as a high-performance binder- and carbon-free cathode for rechargeable hybrid zinc batteries. *Energy Storage Materials*, **2020**, 24, 272-280	19.4	41
179	Rational design of novel nanostructured arrays based on porous AAO templates for electrochemical energy storage and conversion. *Nano Energy*, **2019**, 55, 234-259	17.1	41
178	Highly Functional Bioinspired Fe/N/C Oxygen Reduction Reaction Catalysts: Structure-Regulating Oxygen Sorption. *ACS Applied Materials & Interfaces*, **2016**, 8, 6464-71	9.5	40
177	Morphology controllable growth of Pt nanoparticles/nanowires on carbon powders and its application as novel electro-catalyst for methanol oxidation. *Nanoscale*, **2011**, 3, 5041-8	7.7	40
176	Y-branched Bi nanowires with metal□emiconductor junction behavior. *Applied Physics Letters*, **2004**, 85, 967-969	3.4	40
175	Recent Developments of Planar Micro-Supercapacitors: Fabrication, Properties, and Applications. *Advanced Functional Materials*, **2020**, 30, 1910000	15.6	38
174	Flexible self-supported bi-metal electrode as a highly stable carbon- and binder-free cathode for large-scale solid-state zinc-air batteries. *Applied Catalysis B: Environmental*, **2020**, 272, 118953	21.8	38
173	Multi-component nanoporous alloy/(oxy)hydroxide for bifunctional oxygen electrocatalysis and rechargeable Zn-air batteries. *Applied Catalysis B: Environmental*, **2020**, 268, 118431	21.8	38
172	Strategies for Engineering High-Performance PGM-Free Catalysts toward Oxygen Reduction and Evolution Reactions. *Small Methods*, **2020**, 4, 2000016	12.8	37
171	Heterostructural coaxial nanotubes of CNT@Fe2O3 via atomic layer deposition: effects of surface functionalization and nitrogen-doping. *Journal of Nanoparticle Research*, **2011**, 13, 1207-1218	2.3	37
170	Self-Reconstruction of Co/Co2P Heterojunctions Confined in N-Doped Carbon Nanotubes for Zinc□Air Flow Batteries. *ACS Energy Letters*,1153-1161	20.1	37
169	Copper and gold recovery from CPU sockets by one-step slurry electrolysis. *Journal of Cleaner Production*, **2019**, 213, 673-679	10.3	37
168	Preparation and characterization of oriented silica nanowires. *Solid State Communications*, **2003**, 128, 287-290	1.6	36
167	Accurate Control of Initial Coulombic Efficiency for Lithium-rich Manganese-based Layered Oxides by Surface Multicomponent Integration. *Angewandte Chemie - International Edition*, **2020**, 59, 23061-23066	16.4	36
166	A General Carboxylate-Assisted Approach to Boost the ORR Performance of ZIF-Derived Fe/N/C Catalysts for Proton Exchange Membrane Fuel Cells. *Advanced Functional Materials*, **2021**, 31, 2009645	15.6	36
165	Heterostructured quantum dot architectures for efficient and stable photoelectrochemical hydrogen production. *Journal of Materials Chemistry A*, **2018**, 6, 6822-6829	13	34

164	Graphitic-shell encapsulated FeNi alloy/nitride nanocrystals on biomass-derived N-doped carbon as an efficient electrocatalyst for rechargeable Zn-air battery **2021**, 3, 176-187		34
163	Crack-tips enriched platinum-copper superlattice nanoflakes as highly efficient anode electrocatalysts for direct methanol fuel cells. *Nanoscale*, **2017**, 9, 8918-8924	7.7	33
162	Rational Design of Novel Catalysts with Atomic Layer Deposition for the Reduction of Carbon Dioxide. *Advanced Energy Materials*, **2019**, 9, 1900889	21.8	33
161	Synthesis of SnO2nanostructures by carbothermal reduction of SnO2powder. *Journal Physics D: Applied Physics*, **2004**, 37, 409-412	3	33
160	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
159	Nanostructured Mn2O3/Pt/CNTs selective electrode for oxygen reduction reaction and methanol tolerance in mixed-reactant membraneless micro-DMFC. *Electrochimica Acta*, **2019**, 297, 230-239	6.7	31
158	Three-dimensional interconnected network few-layered MoS2/N, S co-doped graphene as anodes for enhanced reversible lithium and sodium storage. *Electrochimica Acta*, **2019**, 293, 47-59	6.7	31
157	Plasma nitriding induced growth of Pt-nanowire arrays as high performance electrocatalysts for fuel cells. *Scientific Reports*, **2014**, 4, 6439	4.9	30
156	Nanocellulose-assisted synthesis of ultrafine Co nanoparticles-loaded bimodal micro-mesoporous N-rich carbon as bifunctional oxygen electrode for Zn-air batteries. *Journal of Power Sources*, **2020**, 450, 227640	8.9	30
155	Polymer gel electrolytes for flexible supercapacitors: Recent progress, challenges, and perspectives. *Energy Storage Materials*, **2021**, 34, 320-355	19.4	30
154	Design, fabrication and performance of a mixed-reactant membraneless micro direct methanol fuel cell stack. *Journal of Power Sources*, **2017**, 371, 10-17	8.9	29
153	Phosphor Polymer Nanocomposite: ZnO:Tb3+ Embedded Polystyrene Nanocomposite Thin Films for Solid-State Lighting Applications. *ACS Applied Nano Materials*, **2018**, 1, 977-988	5.6	29
152	Transforming reed waste into a highly active metal-free catalyst for oxygen reduction reaction. *Nano Energy*, **2019**, 62, 700-708	17.1	28
151	Chemical vapour deposition of graphene: layer control, the transfer process, characterisation, and related applications. *International Reviews in Physical Chemistry*, **2019**, 38, 149-199	7	28
150	A novel and efficient ammonia leaching method for recycling waste lithium ion batteries. *Journal of Cleaner Production*, **2020**, 251, 119665	10.3	28
149	Biomass-derived nonprecious metal catalysts for oxygen reduction reaction: The demand-oriented engineering of active sites and structures **2020**, 2, 561-581		28
148	MoSe2@CNT Core–Shell Nanostructures as Grain Promoters Featuring a Direct Li2O2 Formation/Decomposition Catalytic Capability in Lithium-Oxygen Batteries. *Advanced Energy Materials*, **2021**, 11, 2003263	21.8	28
147	Controlled synthesis of graphene via electrochemical route and its use as efficient metal-free catalyst for oxygen reduction. *Applied Catalysis B: Environmental*, **2019**, 243, 373-380	21.8	28

146	Ultrasmall Nanoplatelets: The Ultimate Tuning of Optoelectronic Properties. *Advanced Energy Materials*, **2017**, 7, 1602728	21.8	27
145	Rational design of carbon-based oxygen electrocatalysts for zinc□air batteries. *Current Opinion in Electrochemistry*, **2017**, 4, 45-59	7.2	27
144	PGM-Free Fe/N/C and Ultralow Loading Pt/C Hybrid Cathode Catalysts with Enhanced Stability and Activity in PEM Fuel Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 13739-13749	9.5	27
143	Formation of a Porous Platinum Nanoparticle Froth for Electrochemical Applications, Produced without Templates, Surfactants, or Stabilizers. *Chemistry of Materials*, **2008**, 20, 4677-4681	9.6	27
142	Microscopy Study of the Growth Process and Structural Features of Closely Packed Silica Nanowires. *Journal of Physical Chemistry B*, **2003**, 107, 13029-13032	3.4	27
141	Interfacial engineering in colloidal □giant□quantum dots for high-performance photovoltaics. *Nano Energy*, **2019**, 55, 377-388	17.1	27
140	Cobalt (II) oxide nanosheets with rich oxygen vacancies as highly efficient bifunctional catalysts for ultra-stable rechargeable Zn-air flow battery. *Nano Energy*, **2021**, 79, 105409	17.1	27
139	Iron (II) phthalocyanine/N-doped graphene: A highly efficient non-precious metal catalyst for oxygen reduction. *International Journal of Hydrogen Energy*, **2019**, 44, 18103-18114	6.7	26
138	Sox2 is translationally activated by eukaryotic initiation factor 4E in human glioma-initiating cells. *Biochemical and Biophysical Research Communications*, **2010**, 397, 711-7	3.4	25
137	Photoluminescence of ZnO nanoparticles loaded into porous anodic alumina hosts. *Journal of Physics Condensed Matter*, **2002**, 14, 12651-12656	1.8	25
136	Versatile Route To Fabricate Precious-Metal Phosphide Electrocatalyst for Acid-Stable Hydrogen Oxidation and Evolution Reactions. *ACS Applied Materials & Interfaces*, **2020**, 12, 11737-11744	9.5	24
135	Graphene-Supported Substoichiometric Sodium Tantalate as a Methanol-Tolerant, Non-Noble-Metal Catalyst for the Electroreduction of Oxygen. *ChemCatChem*, **2015**, 7, 911-915	5.2	24
134	Highly Stable and Active Pt/Nb-TiO2Carbon-Free Electrocatalyst for Proton Exchange Membrane Fuel Cells. *Journal of Nanotechnology*, **2012**, 2012, 1-8	3.5	24
133	Aligned copper nanorod arrays for highly efficient generation of intense ultra-broadband THz pulses. *Scientific Reports*, **2017**, 7, 40058	4.9	23
132	Incorporation of CeF3 on single-atom dispersed Fe/N/C with oxophilic interface as highly durable electrocatalyst for proton exchange membrane fuel cell. *Journal of Catalysis*, **2019**, 374, 43-50	7.3	23
131	Highly stable photoelectrochemical cells for hydrogen production using a SnO-TiO/quantum dot heterostructured photoanode. *Nanoscale*, **2018**, 10, 15273-15284	7.7	23
130	In Situ Fabrication of Electrospun Carbon Nanofibers□Binary Metal Sulfides as Freestanding Electrode for Electrocatalytic Water Splitting. *Advanced Fiber Materials*, **2021**, 3, 117-127	10.9	23
129	Efficient solar-driven hydrogen generation using colloidal heterostructured quantum dots. *Journal of Materials Chemistry A*, **2019**, 7, 14079-14088	13	22

128	Epitaxial BiFeCrO Multiferroic Thin-Film Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. *ACS Applied Materials & Interfaces*, **2019**, 11, 13185-13193	9.5	22
127	Non-PGM Electrocatalysts for PEM Fuel Cells: Thermodynamic Stability and DFT Evaluation of Fluorinated FeN4-Based ORR Catalysts. *Journal of the Electrochemical Society*, **2019**, 166, F3277-F3286	3.9	21
126	Green gradient multi-shell CuInSe2/(CuInSexS1-x)5/CuInS2 quantum dots for photo-electrochemical hydrogen generation. *Applied Catalysis B: Environmental*, **2021**, 280, 119402	21.8	21
125	Visible and Near-Infrared, Multiparametric, Ultrasensitive Nanothermometer Based on Dual-Emission Colloidal Quantum Dots. *ACS Photonics*, **2019**, 6, 2479-2486	6.3	20
124	Green synthesis of near infrared core/shell quantum dots for photocatalytic hydrogen production. *Nanotechnology*, **2016**, 27, 495405	3.4	20
123	Stem-like nano-heterostructural MWCNTs/Fe2O3@TiO2 composite with high lithium storage capability. *Journal of Alloys and Compounds*, **2016**, 684, 419-427	5.7	20
122	Morphology controlled synthesis of SmMn2O5 nanocrystals via a surfactant-free route for Zn-air batteries. *Journal of Power Sources*, **2018**, 396, 754-763	8.9	20
121	Blue-light emission from amorphous SiOx nanoropes. *Applied Physics A: Materials Science and Processing*, **2002**, 74, 831-833	2.6	20
120	Emerging applications of atomic layer deposition for lithium-sulfur and sodium-sulfur batteries. *Energy Storage Materials*, **2020**, 26, 513-533	19.4	20
119	Novel rare earth metal doped one-dimensional TiO2 nanostructures: Fundamentals and multifunctional applications. *Materials Today Sustainability*, **2021**, 13, 100066	5	20
118	Porous Carbon Membrane-Supported Atomically Dispersed Pyrrole-Type Fe?N as Active Sites for Electrochemical Hydrazine Oxidation Reaction. *Small*, **2020**, 16, e2002203	11	19
117	Fabrication and evaluation of passive alkaline membraneless microfluidic DMFC. *International Journal of Hydrogen Energy*, **2017**, 42, 21969-21975	6.7	19
116	Basal plane dislocation multiplication via the Hopping Frank-Read source mechanism in 4H-SiC. *Applied Physics Letters*, **2012**, 100, 172105	3.4	19
115	Step-shaped bismuth nanowires with metal-semiconductor junction characteristics. *Nanotechnology*, **2006**, 17, 1041-5	3.4	19
114	Electrode Engineering by Atomic Layer Deposition for Sodium-Ion Batteries: From Traditional to Advanced Batteries. *Advanced Functional Materials*, **2020**, 30, 1906890	15.6	19
113	Emerging applications of atomic layer deposition for the rational design of novel nanostructures for surface-enhanced Raman scattering. *Journal of Materials Chemistry C*, **2019**, 7, 1447-1471	7.1	18
112	Nanofiber-supported CuS nanoplatelets as high efficiency counter electrodes for quantum dot-based photoelectrochemical hydrogen production. *Materials Chemistry Frontiers*, **2017**, 1, 65-72	7.8	18
111	Exploiting a High-Performance "Double-Carbon" Structure CoS/GN Bifunctional Catalysts for Rechargeable Zn-Air Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 38202-38210	9.5	18

110	Synergistic Effect of Plasmonic Gold Nanoparticles Decorated Carbon Nanotubes in Quantum Dots/TiO for Optoelectronic Devices. *Advanced Science*, **2020**, 7, 2001864	13.6	18
109	Rare-earth metal oxide hybridized PtFe nanocrystals synthesized via microfluidic process for enhanced electrochemical catalytic performance. *Electrochimica Acta*, **2019**, 299, 80-88	6.7	18
108	Laser-Induced Selective Metallization on Polymer Substrates Using Organocopper for Portable Electronics. *ACS Applied Materials & Interfaces*, **2019**, 11, 13714-13723	9.5	17
107	Plasmon enhanced upconverting core@triple-shell nanoparticles as recyclable panchromatic initiators (blue to infrared) for radical polymerization. *Nanoscale Horizons*, **2019**, 4, 907-917	10.8	17
106	Red phosphorus confined in N-doped multi-cavity mesoporous carbon for ultrahigh-performance sodium-ion batteries. *Journal of Power Sources*, **2020**, 450, 227696	8.9	17
105	Completely separating metals and nonmetals from waste printed circuit boards by slurry electrolysis. *Separation and Purification Technology*, **2018**, 205, 302-307	8.3	17
104	Advances and perspectives on transitional metal layered oxides for potassium-ion battery. *Energy Storage Materials*, **2021**, 34, 211-228	19.4	17
103	Large-Scale Aqueous Synthesis and Growth Mechanism of Single-Crystalline Metal Nanoscrolls at Room Temperature: The Case of Nickel. *Chemistry of Materials*, **2010**, 22, 4721-4727	9.6	16
102	Defect Electrocatalysts and Alkaline Electrolyte Membranes in Solid-State Zinc-Air Batteries: Recent Advances, Challenges, and Future Perspectives.. *Small Methods*, **2021**, 5, e2000868	12.8	16
101	Development of Nb-Ti-Co alloy for high-performance hydrogen separating membrane. *Journal of Membrane Science*, **2018**, 565, 411-424	9.6	16
100	Response of soil microbial community structure to increased precipitation and nitrogen addition in a semiarid meadow steppe. *European Journal of Soil Science*, **2017**, 68, 524-536	3.4	15
99	Controlled synthesis of near-infrared quantum dots for optoelectronic devices. *Nanoscale*, **2017**, 9, 16843-16851	7.7	15
98	Use of a bilayer platinum-silver cathode to selectively perform the oxygen reduction reaction in a high concentration mixed-reactant microfluidic direct ethanol fuel cell. *International Journal of Hydrogen Energy*, **2019**, 44, 18372-18381	6.7	15
97	Ferroelectric Fe□r Codoped BaTiO3 Nanoparticles for the Photocatalytic Oxidation of Azo Dyes. *ACS Applied Nano Materials*, **2019**, 2, 2890-2901	5.6	15
96	Novel sinomenine derivative 1032 improves immune suppression in experimental autoimmune encephalomyelitis. *Biochemical and Biophysical Research Communications*, **2010**, 391, 1093-8	3.4	15
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