

Pei Kang Shen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

256
papers

12,791
citations

59
h-index

101
g-index

267
ext. papers

14,935
ext. citations

10.4
avg, IF

7.19
L-index

#	Paper	IF	Citations
256	Boosting Electrocatalytic Activity of Single Atom Catalysts Supported on Nitrogen-Doped Carbon through N Coordination Environment Engineering.. <i>Small</i> , 2022 , e2105329	11	19
255	Shell-thickness-dependent Pd@PtNi core-shell nanosheets for efficient oxygen reduction reaction. <i>Chemical Engineering Journal</i> , 2022 , 427, 131565	14.7	4
254	Gram-Scale production of Cu ₃ P-Cu ₂ O Janus nanoparticles into nitrogen and phosphorous doped porous carbon framework as bifunctional electrocatalysts for overall water splitting. <i>Chemical Engineering Journal</i> , 2022 , 427, 130946	14.7	21
253	Fe and Co dual-doped Ni ₃ S ₄ nanosheet with enriched high-valence Ni sites for efficient oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2022 , 427, 130742	14.7	17
252	Enhanced oxygen reduction and methanol oxidation reaction over self-assembled Pt-M (M = Co, Ni) nanoflowers. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 1411-1423	9.3	2
251	Designing highly efficient 3D porous Ni-Fe sulfide nanosheets based catalyst for the overall water splitting through component regulation.. <i>Journal of Colloid and Interface Science</i> , 2022 , 616, 422-432	9.3	0
250	Bottom-up synthesis of few-layered graphene powders and their applications as efficient lubricating and electromagnetic shielding additives. <i>FlatChem</i> , 2022 , 33, 100375	5.1	1
249	Ni activated Mo ₂ C nanoparticles supported on stereotaxically-constructed graphene for efficient overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	3
248	MoP-Mo ₂ C quantum dot heterostructures uniformly hosted on a heteroatom-doped 3D porous carbon sheet network as an efficient bifunctional electrocatalyst for overall water splitting. <i>Chemical Engineering Journal</i> , 2021 , 133719	14.7	7
247	Ru doping NiCoP hetero-nanowires with modulated electronic structure for efficient overall water splitting.. <i>Journal of Colloid and Interface Science</i> , 2021 , 610, 213-220	9.3	2
246	One-dimensional core-shell motif nanowires with chemically-bonded transition metal sulfide-carbon heterostructures for efficient sodium-ion storage.. <i>Chemical Science</i> , 2021 , 12, 15054-15064	10.4	4
245	Atomic Scale Mechanisms of Multimode Oxide Growth on Nickel-Chromium Alloy: Direct Observation of the Initial Oxide Nucleation and Growth. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1903-1913	9.5	4
244	Large-scale Synthesis of Porous Pt Nanospheres /Three-dimensional Graphene Hybrid Materials as a Highly Active and Stable Electrocatalyst for Oxygen Reduction Reaction. <i>ChemistrySelect</i> , 2021 , 6, 2080-2084	18	84
243	Graphene Nanosphere as Advanced Electrode Material to Promote High Performance Symmetrical Supercapacitor. <i>Small</i> , 2021 , 17, e2007915	11	14
242	High performance lithium-sulfur batteries based on CoP nanoparticle-embedded nitrogen-doped carbon nanotube hollow polyhedra. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 885, 114996	4.1	5
241	Advanced Aqueous Zinc-Ion Batteries Enabled by 3D Ternary MnO/Reduced Graphene Oxide/Multiwall Carbon Nanotube Hybrids. <i>Energy Technology</i> , 2021 , 9, 2100022	3.5	6
240	Highly efficient PtCo nanoparticles on CoNi nanorods with hierarchical pore structure for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 15991-16002	6.7	8

239	Toward a High-Energy-Density Cathode with Enhanced Temperature Adaptability for Sodium-Ion Batteries: A Case Study of NaMnZr(PO) Microspheres with Embedded Dual-Carbon Networks. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21390-21400	9.5	4
238	N, S, P co-doped graphene-like carbon nanosheets developed via in situ engineering strategy of carbon pz-orbitals for highly efficient oxygen redox reaction. <i>FlatChem</i> , 2021 , 27, 100250	5.1	4
237	High-capacity and high-rate Ni-Fe batteries based on mesostructured quaternary carbon/Fe/FeO/FeO hybrid material. <i>IScience</i> , 2021 , 24, 102547	6.1	5
236	N, S Codoped Carbon Matrix-Encapsulated Co ₉ S ₈ Nanoparticles as a Highly Efficient and Durable Bifunctional Oxygen Redox Electrocatalyst for Rechargeable Zn/Air Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101249	21.8	27
235	Emerging artificial nitrogen cycle processes through novel electrochemical and photochemical synthesis. <i>Materials Today</i> , 2021 , 46, 212-233	21.8	28
234	Electricity generation from ionic solution flowing through packed three-dimensional graphene powders. <i>Nanotechnology</i> , 2021 , 32,	3.4	1
233	Nitrogen and Phosphate Co-doped Graphene as Efficient Bifunctional Electrocatalysts by Precursor Modulation Strategy for Oxygen Reduction and Evolution Reactions. <i>ChemElectroChem</i> , 2021 , 8, 3262-3272	4.3	2
232	CO tolerance and durability study of PtMe(Me = Ir or Pd) electrocatalysts for H ₂ -PEMFC application. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 13865-13877	6.7	5
231	Electrocatalytic reduction of nitrogen on FeAg/Si for ammonia synthesis: A simple strategy for continuous regulation of faradaic efficiency by controlling H ⁺ ions transfer rate. <i>Applied Catalysis B: Environmental</i> , 2021 , 283, 119606	21.8	10
230	Highly stable Pt-Co nanodendrite in nanoframe with Pt skin structured catalyst for oxygen reduction electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021 , 281, 119460	21.8	44
229	Black potassium titanate nanobelts: Ultrafast and durable aqueous redox electrolyte energy storage. <i>Journal of Power Sources</i> , 2021 , 483, 229140	8.9	2
228	Hierarchically skeletal multi-layered Pt-Ni nanocrystals for highly efficient oxygen reduction and methanol oxidation reactions. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 648-657	11.3	23
227	A flexible and conductive MXene-coated fabric integrated with in situ sulfur loaded MXene nanosheets for long-life rechargeable Li-S batteries. <i>Nanoscale</i> , 2021 , 13, 2963-2971	7.7	8
226	Facile One-Pot Synthesis of a PtRh Alloy Decorated on Ag Nanocubes as a Trimetallic Core-Shell Catalyst for Boosting Methanol Oxidation Reaction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1085-1092	6.1	8
225	Porous nanosheets of Cu ₃ P@N,P co-doped carbon hosted on copper foam as an efficient and ultrastable pH-universal hydrogen evolution electrocatalyst. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 2451-2457	5.8	3
224	Catalyst Materials for Oxygen Reduction Reaction 2021 , 85-182		
223	Ultrathin Co ₃ O ₄ @Pt core-shell nanoparticles coupled with three-dimensional graphene for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 10303-10311	6.7	4
222	Hollow Graphene Fibers with Archimedean-Type Spirals for Flexible and Wearable Electronics. <i>ACS Applied Nano Materials</i> , 2021 , 4, 6985-6994	5.6	2

221	Ni-MoO ₂ nanoparticles heterojunction loaded on stereotaxically-constructed graphene for high-efficiency overall water splitting. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 897, 115555	4.1	1
220	Using silkworm excrement and spent lead paste to prepare additives for improving the cycle life of lead-acid batteries. <i>Journal of Energy Storage</i> , 2021 , 41, 102785	7.8	4
219	Heterogeneous NiFeCoP/NF Nanorods as a Bifunctional Electrocatalyst for Efficient Water Electrolysis. <i>ChemCatChem</i> , 2021 , 13, 4602	5.2	3
218	Enhanced electrocatalytic overall water splitting over novel one-pot synthesized RuMoO _{3-x} and Fe ₃ O ₄ /NiFe layered double hydroxide on Ni foam. <i>Renewable Energy</i> , 2021 , 177, 1346-1355	8.1	8
217	Hyperbranched concave octahedron of PtIrCu nanocrystals with high-index facets for efficiently electrochemical ammonia oxidation reaction. <i>Journal of Colloid and Interface Science</i> , 2021 , 601, 1-11	9.3	4
216	Hollow porous carbon spheres for high initial coulombic efficiency and low-potential sodium ion storage. <i>Journal of Colloid and Interface Science</i> , 2021 , 604, 168-177	9.3	3
215	A facile strategy synthesized PtRhNi truncated triangle nanoflakes with PtRh-rich surface as highly active and stable bifunctional catalysts for direct methanol fuel cells. <i>Journal of Colloid and Interface Science</i> , 2021 , 604, 894-902	9.3	2
214	Preparation of the Catalysts 2021 , 183-214		
213	Ultrathin PtCo nanorod assemblies with self-optimized surface for oxygen reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 870, 114194	4.1	7
212	Recent Progress in Graphene-Based Nanostructured Electrocatalysts for Overall Water Splitting. <i>Electrochemical Energy Reviews</i> , 2020 , 3, 370-394	29.3	41
211	Rational Design and Synthesis of Hierarchical Porous MnNiCo Nanoparticles with Atomically Dispersed MnNx Moieties for Highly Efficient Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9367-9376	8.3	23
210	Electrocatalytic production of ammonia: Biomimetic electrode/electrolyte design for efficient electrocatalytic nitrogen fixation under ambient conditions. <i>Applied Catalysis B: Environmental</i> , 2020 , 271, 118919	21.8	34
209	In situ molecular-level synthesis of N, S co-doped carbon as efficient metal-free oxygen redox electrocatalysts for rechargeable ZnAir batteries. <i>Applied Materials Today</i> , 2020 , 20, 100737	6.6	15
208	One-Pot Fabrication of Site-Selective Hexapod PtPdCu Concave Rhombic Dodecahedrons as Highly Efficient Catalysts for Electrocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1520-1526	8.3	14
207	Template-free growth of spherical vanadium disulfide nanoflowers as efficient anodes for sodium/potassium ion batteries. <i>Materials and Design</i> , 2020 , 192, 108780	8.1	12
206	Electronic modulation of cobalt phosphide nanosheet arrays via copper doping for highly efficient neutral-pH overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118555	21.8	74
205	Nonprecious metal's graphene-supported electrocatalysts for hydrogen evolution reaction: Fundamentals to applications 2020 , 2, 99-121		59
204	A facile and cost effective synthesis of nitrogen and fluorine Co-doped porous carbon for high performance Sodium ion battery anode material. <i>Journal of Power Sources</i> , 2020 , 448, 227568	8.9	18

203	Highly efficient Pt-Co alloy hollow spheres with ultra-thin shells synthesized via Co-B-O complex as intermediates for hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2020 , 381, 385-394	7.3	8
202	Boosting the photocatalytic activity of mesoporous SrTiO ₃ for nitrogen fixation through multiple defects and strain engineering. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22251-22256	13	11
201	MnS@N,S Co-Doped Carbon Core/Shell Nanocubes: Sulfur-Bridged Bonds Enhanced Na-Storage Properties Revealed by In Situ Raman Spectroscopy and Transmission Electron Microscopy. <i>Small</i> , 2020 , 16, e2003001	11	12
200	Cation-adsorption-assisted Ni ₃ S ₂ /carbon nanowalls composites with three-dimensional interconnected porous structures for high-performance lithium-ion battery anodes. <i>Journal of Materials Science</i> , 2020 , 55, 17081-17093	4.3	3
199	Ultrathin-shell IrCo hollow nanospheres as highly efficient electrocatalysts towards the oxygen evolution reaction in acidic media. <i>Nanoscale</i> , 2020 , 12, 24070-24078	7.7	8
198	Facile one-step in-situ encapsulation of non-noble metal Co ₂ P nanoparticles embedded into B, N, P tri-doped carbon nanotubes for efficient hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 24312-24321	6.7	15
197	Novel Bi-Doped Amorphous SnO Nanoshells for Efficient Electrochemical CO Reduction into Formate at Low Overpotentials. <i>Advanced Materials</i> , 2020 , 32, e2002822	24	47
196	Membrane and electrode engineering of high-performance lithium-sulfur batteries modified by stereotaxically-constructed graphene. <i>Journal of Alloys and Compounds</i> , 2020 , 834, 155096	5.7	14
195	Recent advances in graphene-based platinum and palladium electrocatalysts for the methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22189-22217	13	52
194	Self-assembled and well separated B and N co-doped hierarchical carbon structures as high-capacity, ultra-stable, LIB anode materials. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 478-487	5.8	4
193	NiCo ₂ S ₄ nanocores in-situ encapsulated in graphene sheets as anode materials for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 364, 167-176	14.7	38
192	Boosting the volumetric energy of supercapacitors using polytetrafluoroethylene pyrolysis gas. <i>Journal of Power Sources</i> , 2019 , 414, 76-85	8.9	11
191	Bifunctional catalysts for overall water splitting: CoNi oxyhydroxide nanosheets electrodeposited on titanium sheets. <i>Electrochimica Acta</i> , 2019 , 301, 449-457	6.7	41
190	Cross-double dumbbell-like PtNi nanostructures with enhanced catalytic performance toward the reactions of oxygen reduction and methanol oxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 246, 277-283	21.8	98
189	Graphitized carbon nanocages/palladium nanoparticles: Sustainable preparation and electrocatalytic performances towards ethanol oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 6172-6181	6.7	19
188	Remarkable enhancement in the electrochemical activity of maricite NaFePO ₄ on high-surface-area carbon cloth for sodium-ion batteries. <i>Carbon</i> , 2019 , 146, 78-87	10.4	32
187	Ultrahigh energy density asymmetric electrochemical capacitors based on flower-like ZnO/Co ₃ O ₄ nanobundle arrays and stereotaxically constricted graphene. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1273-1280	13	34
186	Spinel NiCo ₂ O ₄ 3-D nanoflowers supported on graphene nanosheets as efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 16120-16131	6.7	70

185	Controllable preparation of nitrogen-doped graphitized carbon from molecular precursor as non-metal oxygen evolution reaction electrocatalyst. <i>Applied Surface Science</i> , 2019 , 491, 723-734	6.7	16
184	Bimetallic Ni-Co phosphide nanosheets self-supported on nickel foam as high-performance electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 317, 191-198	6.7	44
183	Chestnut-like copper cobalt phosphide catalyst for all-pH hydrogen evolution reaction and alkaline water electrolysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14271-14279	13	46
182	Worm-like S-doped RhNi alloys as highly efficient electrocatalysts for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117737	21.8	42
181	Manganese oxide(III)/carbon hybrids with interesting morphologies as improved active materials for supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 13623-13631	6.7	9
180	A Facile Method to Synthesize PtNi Octahedral Nanoparticles with Porous and Open Structure Features for Enhanced Oxygen Reduction Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8109-8116	8.3	8
179	Facile synthesis of bimetallic Pt-Pd symmetry-broken concave nanocubes and their enhanced activity toward oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 251, 49-56	21.8	50
178	Molecular-level design of Fe-N-C catalysts derived from Fe-dual pyridine coordination complexes for highly efficient oxygen reduction. <i>Journal of Catalysis</i> , 2019 , 372, 245-257	7.3	41
177	Cu ₂ S-Cu ₃ P Nanowire Arrays Self-Supported on Copper Foam as Boosting Electrocatalysts for Hydrogen Evolution. <i>Energy Technology</i> , 2019 , 7, 1800993	3.5	16
176	One-Pot Synthesis of PtPd Bimetallic Nanodendrites with Enhanced Electrocatalytic Activity for Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8419-8428	8.3	25
175	General Strategy To Synthesize Highly Dense Metal Oxide Quantum Dots-Anchored Nitrogen-Rich Graphene Compact Monoliths To Enable Fast and High-Stability Volumetric Lithium/Sodium Storage. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3500-3512	6.1	14
174	Molybdenum-modified and vertex-reinforced quaternary hexapod nano-skeletons as efficient electrocatalysts for methanol oxidation and oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117974	21.8	24
173	Excavated and dendritic Pt-Co nanocubes as efficient ethylene glycol and glycerol oxidation electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117951	21.8	33
172	The controllable growth of PtCuRh rhombic dodecahedral nanoframes as efficient catalysts for alcohol electrochemical oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18619-18625	13	21
171	Three-dimensional, hetero-structured, Cu ₃ P@C nanosheets with excellent cycling stability as Na-ion battery anode material. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16999-17007	13	44
170	Highly Efficient Multifunctional Co-N-C Electrocatalysts with Synergistic Effects of Co-N Moieties and Co Metallic Nanoparticles Encapsulated in a N-Doped Carbon Matrix for Water-Splitting and Oxygen Redox Reactions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39809-39819	9.5	50
169	The Effects of Pore Size on Electrical Performance in Lithium-Thionyl Chloride Batteries. <i>Frontiers in Materials</i> , 2019 , 6,	4	7
168	One-pot preparation of Ni ₃ S ₂ @3-D graphene free-standing electrode by simple Q-CVD method for efficient oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30806-30819	6.7	8

167	Electricity Generation from Capillary-Driven Ionic Solution Flow in a Three-Dimensional Graphene Membrane. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4922-4929	9.5	28
166	Synthesis and characterization of activated 3D graphene via catalytic growth and chemical activation for electrochemical energy storage in supercapacitors. <i>Electrochimica Acta</i> , 2019 , 324, 134878	6.7	21
165	P-doped CNTs encapsulated nickel hybrids with flower-like structure as efficient catalysts for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 298, 142-149	6.7	31
164	Carbon-Encapsulated Electrocatalysts for the Hydrogen Evolution Reaction. <i>Electrochemical Energy Reviews</i> , 2019 , 2, 105-127	29.3	90
163	In-situ encapsulating FeS/Fe ₃ C nanoparticles into nitrogen-sulfur dual-doped graphene networks for high-rate and ultra-stable lithium storage. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 193-201	5.7	17
162	Self-Assembled Nanofiber Networks of Well-Separated B and N Codoped Carbon as Pt Supports for Highly Efficient and Stable Oxygen Reduction Electrocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 660-668	8.3	17
161	Trimetallic Hollow PtNiCo Nanodendrites as Efficient Anodic Electrocatalysts. <i>ACS Applied Energy Materials</i> , 2019 , 2, 961-965	6.1	14
160	One-step growth of nitrogen-decorated iron-nickel sulfide nanosheets for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5592-5597	13	42
159	One-step solid state synthesis of PtCo nanocubes/graphene nanocomposites as advanced oxygen reduction reaction electrocatalysts. <i>Journal of Catalysis</i> , 2018 , 362, 85-93	7.3	21
158	Simultaneous formation of trimetallic Pt-Ni-Cu excavated rhombic dodecahedrons with enhanced catalytic performance for the methanol oxidation reaction. <i>Nano Research</i> , 2018 , 11, 4786-4795	10	39
157	One-pot synthesized boron-doped RhFe alloy with enhanced catalytic performance for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 230, 58-64	21.8	89
156	Three-dimensional graphene sheets with NiO nanobelt outgrowths for enhanced capacity and long term high rate cycling Li-ion battery anode material. <i>Journal of Power Sources</i> , 2018 , 379, 362-370	8.9	43
155	Metal-free mesoporous carbon with higher contents of active N and S codoping by template method for superior ORR efficiency to Pt/C. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 3705-3715	6.7	43
154	Mo- and Fe-Modified Ni(OH) ₂ /NiOOH Nanosheets as Highly Active and Stable Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2018 , 8, 2359-2363	13.1	195
153	Self-assembled superstructure of carbon-wrapped, single-crystalline Cu ₃ P porous nanosheets: One-step synthesis and enhanced Li-ion battery anode performance. <i>Energy Storage Materials</i> , 2018 , 15, 75-81	19.4	50
152	N-Doped Porous Molybdenum Carbide Nanobelts as Efficient Catalysts for Hydrogen Evolution Reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 224, 533-540	21.8	281
151	In situ carbon nanotube clusters grown from three-dimensional porous graphene networks as efficient sulfur hosts for high-rate ultra-stable LiS batteries. <i>Nano Research</i> , 2018 , 11, 1731-1743	10	36
150	Hierarchical NiO nanobelt film array as an anode for lithium-ion batteries with enhanced electrochemical performance.. <i>RSC Advances</i> , 2018 , 8, 26589-26595	3.7	16

149	Low temperature synthesis of polyhedral hollow porous carbon with high rate capability and long-term cycling stability as Li-ion and Na-ion battery anode material. <i>Journal of Power Sources</i> , 2018 , 398, 149-158	8.9	15
148	A novel boron and nitrogen co-doped three-dimensional porous graphene sheet framework as high performance Li-ion battery anode material. <i>Inorganic Chemistry Communication</i> , 2018 , 96, 159-164	3.1	25
147	Asymmetric 3d Electronic Structure for Enhanced Oxygen Evolution Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23131-23139	9.5	40
146	Solid Synthesis of Ultrathin Palladium and Its Alloys Nanosheets on RGO with High Catalytic Activity for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2018 , 8, 910-919	13.1	44
145	High-performance yttrium-iron alloy doped Pt-free catalysts on graphene for hydrogen evolution.. <i>RSC Advances</i> , 2018 , 8, 40866-40872	3.7	
144	Ultrathin porous Bi ₅ O ₇ X (X = Cl, Br, I) nanotubes for effective solar desalination. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20037-20043	13	17
143	Atomic Platinum Skin under Synergy of Cobalt for Enhanced Methanol Oxidation Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43716-43722	9.5	11
142	Hierarchically Ordered Nanochannel Array Membrane Reactor with Three-Dimensional Electrocatalytic Interfaces for Electrohydrogenation of CO ₂ to Alcohol. <i>ACS Energy Letters</i> , 2018 , 3, 2649-2655 ^{29.1} ¹⁰	29.1	10
141	Vertex-Type Engineering of Pt-Cu-Rh Heterogeneous Nanocages for Highly Efficient Ethanol Electrooxidation. <i>Advanced Materials</i> , 2018 , 30, e1804074	24	66
140	Rational Design of Na ₄ Fe ₃ (PO ₄) ₂ (P ₂ O ₇) Nanoparticles Embedded in Graphene: Toward Fast Sodium Storage Through the Pseudocapacitive Effect. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6268-6278	6.1	23
139	Two-step etching fabrication of tunable ternary rhombic dodecahedral nanoframes for enhanced oxygen reduction electrocatalysis. <i>Journal of Power Sources</i> , 2018 , 406, 42-49	8.9	22
138	Self-Assembled 3D Hierarchical Porous Hybrid as Platinum-Like Bifunctional Nonprecious Metal Catalyst toward Oxygen Reduction Reaction and Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801296	4.6	5
137	Ultra-high surface area graphitic Fe-N-C nanospheres with single-atom iron sites as highly efficient non-precious metal bifunctional catalysts towards oxygen redox reactions. <i>Journal of Catalysis</i> , 2018 , 368, 279-290	7.3	67
136	High-Performance Asymmetric Supercapacitor Based on Hierarchical NiMn ₂ O ₄ @CoS CoreShell Microspheres and Stereotaxically Constricted Graphene. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16933-16940	8.3	39
135	Facile Fabrication of Radial PtCo Nanodendrites for Enhanced Methanol Oxidation Electrocatalysis. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5019-5026	5.6	19
134	PtNi alloy hyperbranched nanostructures with enhanced catalytic performance towards oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 18436-18443	6.7	11
133	Highly stable and efficient non-precious metal electrocatalysts of Mo-doped NiOOH nanosheets for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 12140-12145	6.7	17
132	Carbon-Encapsulated WO Hybrids as Efficient Catalysts for Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1705979	24	104

131	One-step synthesis of Ni ₃ S ₂ nanowires at low temperature as efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 7136-7142	6.7	50
130	Three-dimensional porous MoNi ₄ networks constructed by nanosheets as bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2508-2513	13	95
129	Tantalum Carbide Doped by Fluorine as Non-precious Metal Anodic Electrocatalyst Superior to Pt/C for Glycerol-Oxidation. <i>Electrochimica Acta</i> , 2017 , 227, 267-274	6.7	15
128	Ternary PtRhFe Nanoscale Alloys as Highly Efficient Catalysts with Enhanced Activity and Excellent CO-Poisoning Tolerance for Ethanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9584-9591	9.5	44
127	Highly stable and efficient non-precious metal electrocatalysts of tantalum dioxyfluoride used for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8287-8291	13	21
126	Nitrogen and fluorine dual-doped porous graphene-nanosheets as efficient metal-free electrocatalysts for hydrogen-evolution in acidic media. <i>Catalysis Science and Technology</i> , 2017 , 7, 2228-2235	5.5	31
125	Bifunctional porous non-precious metal WO ₂ hexahedral networks as an electrocatalyst for full water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9655-9660	13	56
124	K _{0.4} TaO _{2.4} F _{0.6} Nanocubes as Highly Efficient Noble Metal-Free Electrocatalysts for Hydrogen Evolution Reaction in Acidic Media. <i>Electrochimica Acta</i> , 2017 , 245, 193-200	6.7	4
123	Heteroatoms dual doped porous graphene nanosheets as efficient bifunctional metal-free electrocatalysts for overall water-splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7784-7790	13	71
122	Ultrahigh capacity and superior stability of three-dimensional porous graphene networks containing in situ grown carbon nanotube clusters as an anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7595-7602	13	33
121	Sulfur impregnated N, P co-doped hierarchical porous carbon as cathode for high performance Li-S batteries. <i>Journal of Power Sources</i> , 2017 , 341, 165-174	8.9	125
120	Facile synthesis of a molybdenum phosphide (MoP) nanocomposite Pt support for high performance methanol oxidation. <i>Catalysis Science and Technology</i> , 2017 , 7, 5974-5981	5.5	18
119	Bimetallic PtAg alloyed nanoparticles and 3-D mesoporous graphene nanosheet hybrid architectures for advanced oxygen reduction reaction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23158-23169	13	23
118	Templated and Catalytic Fabrication of N-Doped Hierarchical Porous Carbon-Carbon Nanotube Hybrids as Host for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33876-33886	9.5	54
117	High-Quality and Deeply Excavated Pt ₃ Co Nanocubes as Efficient Catalysts for Liquid Fuel Electrooxidation. <i>Chemistry of Materials</i> , 2017 , 29, 9613-9617	9.6	58
116	Concave Platinum-Copper Octopod Nanoframes Bounded with Multiple High-Index Facets for Efficient Electrooxidation Catalysis. <i>ACS Nano</i> , 2017 , 11, 11946-11953	16.7	134
115	Atomic-Scale Preparation of Octopod Nanoframes with High-Index Facets as Highly Active and Stable Catalysts. <i>Advanced Materials</i> , 2017 , 29,	24	73
114	PtRh alloys on hybrid TiO ₂ /Carbon support as high efficiency catalyst for ethanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 24689-24696	6.7	11

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110	Dye functionalized carbon nanotubes for photoelectrochemical water splitting ¶role of inner tubes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2473-2483	13	23
109	Nitrogen-Doped Carbon-Encapsulated SnO ₂ @Sn Nanoparticles Uniformly Grafted on Three-Dimensional Graphene-like Networks as Anode for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 197-207	9.5	73
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107	Facile synthesis of boron and nitrogen-dual-doped graphene sheets anchored platinum nanoparticles for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016 , 194, 276-282	6.7	31
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102	Porous MoO ₂ Nanosheets as Non-noble Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Materials</i> , 2016 , 28, 3785-90	24	584
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