

# Shao-Wei Chen

## List of Publications by Year in descending order

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423  
papers

27,767  
citations

4136

87  
h-index

8384

147  
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434  
all docs

434  
docs citations

434  
times ranked

28102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Catalyzed Rechargeable Lithium-Air Battery by <i>in situ</i> Metal Ion Doping of Discharge Products: A Combined Theoretical and Experimental Study. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	16
2	Cathode strategies to improve the performance of zinc-ion batteries. <i>Electrochemical Science Advances</i> , 2022, 2, e2100090.	1.2	14
3	Visible-light degradation of antibiotics catalyzed by titania/zirconia/graphitic carbon nitride ternary nanocomposites: a combined experimental and theoretical study. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120633.	10.8	82
4	Boosting oxygen evolution activity of nickel iron hydroxide by iron hydroxide colloidal particles. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 518-525.	5.0	12
5	Platinum-complexed phosphorous-doped carbon nitride for electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5962-5970.	5.2	18
6	Graphene composites with Ru-RuO <sub>2</sub> heterostructures: Highly efficient Mott-Schottky-type electrocatalysts for pH-universal water splitting and flexible zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120838.	10.8	124
7	Visible light photocatalytic degradation of sulfanilamide enhanced by Mo doping of BiOBr nanoflowers. <i>Journal of Hazardous Materials</i> , 2022, 424, 127563.	6.5	104
8	Selective hydrogenation of 4-nitrostyrene to 4-nitroethylbenzene catalyzed by Pd@Ru core-shell nanocubes. <i>Rare Metals</i> , 2022, 41, 1189-1194.	3.6	7
9	Cobalt single atom sites in carbon aerogels for ultrasensitive enzyme-free electrochemical detection of glucose. <i>Journal of Electroanalytical Chemistry</i> , 2022, 906, 116024.	1.9	25
10	Hydrophobic, flexible electromagnetic interference shielding films derived from hydrolysate of waste leather scraps. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 396-405.	5.0	28
11	Nitrogen-Doped Carbon Flowers with Fe and Ni Dual Metal Centers for Effective Electroreduction of Oxygen. <i>Inorganics</i> , 2022, 10, 36.	1.2	2
12	Magneto-Chiral Detection of Reactive Oxygen Species. , 2022, , 100003.		0
13	Oxygen reduction reaction catalyzed by carbon composites with ruthenium-doped iron oxide nanoparticles. <i>Materials Advances</i> , 2022, 3, 4556-4565.	2.6	1
14	Electrocatalytic generation of reactive species and implications in microbial inactivation. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1399-1416.	6.9	8
15	Atomically dispersed ruthenium in carbon aerogels as effective catalysts for pH-universal hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 442, 136337.	6.6	27
16	Theory-Guided Regulation of FeN <sub>4</sub> Spin State by Neighboring Cu Atoms for Enhanced Oxygen Reduction Electrocatalysis in Flexible Metal-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	93
17	Encapsulation of Pb-Free CsSnCl <sub>3</sub> Perovskite Nanocrystals with Bone Gelatin: Enhanced Stability and Application in Fe <sup>3+</sup> Sensing. <i>Inorganic Chemistry</i> , 2022, 61, 6547-6554.	1.9	9
18	High-Energy-Density Asymmetric Supercapacitor Based on Free-Standing Ti <sub>3</sub> C <sub>2</sub> T <sub>X</sub> @NiO-Reduced Graphene Oxide Heterostructured Anode and Defective Reduced Graphene Oxide Hydrogel Cathode. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 19534-19546.	4.0	14

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19	Rapid preparation of carbon-supported ruthenium nanoparticles by magnetic induction heating for efficient hydrogen evolution reaction in both acidic and alkaline media. <i>SusMat</i> , 2022, 2, 335-346.	7.8	21
20	CeO <sub>2</sub> Modulates the Electronic States of a Palladium Onion-Like Carbon Interface into a Highly Active and Durable Electrocatalyst for Hydrogen Oxidation in Anion-Exchange-Membrane Fuel Cells. <i>ACS Catalysis</i> , 2022, 12, 7014-7029.	5.5	33
21	Ultrafast Preparation of Nonequilibrium FeNi Spinels by Magnetic Induction Heating for Unprecedented Oxygen Evolution Electrocatalysis. <i>Research</i> , 2022, 2022, .	2.8	7
22	Defective Fe <sub>3</sub> O <sub>4</sub> Atom Clusters Anchored on Nitrogen-Doped Carbon as Efficient Oxygen Reduction Electrocatalysts for High-Performance Zinc-Air Batteries. <i>Small Methods</i> , 2022, 6, .	4.6	10
23	Highly-stable tin-based perovskite nanocrystals produced by passivation and coating of gelatin. <i>Journal of Hazardous Materials</i> , 2021, 403, 123967.	6.5	23
24	Benzoate anions-intercalated cobalt-nickel layered hydroxide nanobelts as high-performance electrode materials for aqueous hybrid supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 842-851.	5.0	35
25	Silver nanocubes monolayers as a SERS substrate for quantitative analysis. <i>Chinese Chemical Letters</i> , 2021, 32, 1497-1501.	4.8	22
26	Organically Capped Iridium Nanoparticles as High-Performance Bifunctional Electrocatalysts for Full Water Splitting in Both Acidic and Alkaline Media: Impacts of Metal-Ligand Interfacial Interactions. <i>ACS Catalysis</i> , 2021, 11, 1179-1188.	5.5	65
27	Vertically Oriented Graphene Nanosheets for Electrochemical Energy Storage. <i>ChemElectroChem</i> , 2021, 8, 783-797.	1.7	9
28	Recent advances and perspectives of two-dimensional Ti-based electrodes for electrochemical energy storage. <i>Sustainable Energy and Fuels</i> , 2021, 5, 5061-5113.	2.5	11
29	Recent Progress of the Design and Engineering of Bismuth Oxyhalides for Photocatalytic Nitrogen Fixation. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000097.	2.8	14
30	Cobalt-Doped Zinc Oxide Nanoparticle-MoS <sub>2</sub> Nanosheet Composites as Broad-Spectrum Bactericidal Agents. <i>ACS Applied Nano Materials</i> , 2021, 4, 4361-4370.	2.4	18
31	MoX <sub>2</sub> (X = O, S) Hierarchical Nanosheets Confined in Carbon Frameworks for Enhanced Lithium-Ion Storage. <i>ACS Applied Nano Materials</i> , 2021, 4, 4615-4622.	2.4	2
32	(Invited) Chemical Sensing Based on Metal-Carbon Nanocomposites. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1675-1675.	0.0	0
33	Improving the Electrochemical Properties of Carbon Paper as Cathodes for Microfluidic Fuel Cells by the Electrochemical Activation in Different Solutions. <i>ACS Omega</i> , 2021, 6, 19153-19161.	1.6	11
34	Electrochemical reduction of SnO <sub>2</sub> to Sn from the Bottom: In-Situ formation of SnO <sub>2</sub> /Sn heterostructure for highly efficient electrochemical reduction of carbon dioxide to formate. <i>Journal of Catalysis</i> , 2021, 399, 67-74.	3.1	33
35	Sn-doped CeO <sub>2</sub> Nanorods as High-Performance Electrocatalysts for CO <sub>2</sub> Reduction to Formate. <i>ChemElectroChem</i> , 2021, 8, 2680-2685.	1.7	6
36	Co <sub>9</sub> S <sub>8</sub> nanoparticles embedded in nitrogen, sulfur codoped porous carbon nanosheets for efficient oxygen/hydrogen electrocatalysis. <i>Electrochimica Acta</i> , 2021, 384, 138299.	2.6	11

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37	Photodynamic Activity of Graphene Oxide/Polyaniline/Manganese Oxide Ternary Composites toward Both Gram-Positive and Gram-Negative Bacteria. <i>ACS Applied Bio Materials</i> , 2021, 4, 7025-7033.	2.3	8
38	Iron, Nitrogen-Doped Carbon Aerogels for Fluorescent and Electrochemical Dual-Mode Detection of Glucose. <i>Langmuir</i> , 2021, 37, 11309-11315.	1.6	34
39	Iron-Catalyzed Decarboxylative Heck-Type Alkylation of Conjugate 1,3-Dienes. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 2707.	0.6	3
40	Co/Co <sub>2</sub> P Nanoparticles Encapsulated within Hierarchically Porous Nitrogen, Phosphorus, Sulfur Co-doped Carbon as Bifunctional Electrocatalysts for Rechargeable Zinc-Air Batteries. <i>ChemElectroChem</i> , 2021, 8, 4286-4295.	1.7	8
41	Structural Engineering of Semiconductor Nanoparticles by Conjugated Interfacial Bonds. <i>Chemical Record</i> , 2020, 20, 41-50.	2.9	3
42	Unravelling the formation mechanism of alkynyl protected gold clusters: a case study of phenylacetylene stabilized Au <sub>144</sub> molecules. <i>Nanoscale</i> , 2020, 12, 2980-2986.	2.8	14
43	Hierarchical carbon microflowers supported defect-rich Co <sub>3</sub> S <sub>4</sub> nanoparticles: An efficient electrocatalyst for water splitting. <i>Carbon</i> , 2020, 160, 133-144.	5.4	90
44	CoFe-based electrocatalysts for oxygen evolution and reduction reaction. , 2020, , 265-293.		0
45	Bimetallic PdZn nanoparticles for oxygen reduction reaction in alkaline medium: The effects of surface structure. <i>Journal of Catalysis</i> , 2020, 382, 181-191.	3.1	30
46	Hollow carbon spheres codoped with nitrogen and iron as effective electrocatalysts for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2020, 450, 227659.	4.0	30
47	Recent advances in vanadium-based nanomaterials and their composites for supercapacitors. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4902-4933.	2.5	42
48	Nitrogen and iron codoped porous carbon polyhedra for effectively confining polysulfides and efficiently catalyzing their conversion in lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5215-5222.	2.5	3
49	Advanced Electrocatalysts with Single-Metal-Atom Active Sites. <i>Chemical Reviews</i> , 2020, 120, 12217-12314.	23.0	563
50	Graphene Oxide Quantum Dot-Based Functional Nanomaterials for Effective Antimicrobial Applications. <i>Chemical Record</i> , 2020, 20, 1505-1515.	2.9	9
51	Antibacterial Activity of Nitrogen-Doped Carbon Dots Enhanced by Atomic Dispersion of Copper. <i>Langmuir</i> , 2020, 36, 11629-11636.	1.6	32
52	Recent Progress of Single-Atom Catalysts in the Electrocatalytic Reduction of Oxygen to Hydrogen Peroxide. <i>Electroanalysis</i> , 2020, 32, 2591-2602.	1.5	23
53	A synchronous nucleation and passivation strategy for controllable synthesis of Au <sub>36</sub> (PA) <sub>24</sub> : unveiling the formation process and the role of Au <sub>22</sub> (PA) <sub>18</sub> intermediate. <i>Science China Chemistry</i> , 2020, 63, 1777-1784.	4.2	19
54	Amorphous-Crystalline Nickel Borate-Nickel Sulfide Heterostructures by In Situ Structural Engineering as Effective Bifunctional Electrocatalysts toward Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 23896-23903.	4.0	53

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55	High-performance Ru-based electrocatalyst composed of Ru nanoparticles and Ru single atoms for hydrogen evolution reaction in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18840-18849.	3.8	52
56	Carbon aerogels with atomic dispersion of binary iron-cobalt sites as effective oxygen catalysts for flexible zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11649-11655.	5.2	94
57	Electrocatalysis of Single-Atom Sites: Impacts of Atomic Coordination. <i>ACS Catalysis</i> , 2020, 10, 7584-7618.	5.5	274
58	Visible-Light-Driven Nitrogen Fixation Catalyzed by Bi <sub>5</sub> O <sub>7</sub> Br Nanostructures: Enhanced Performance by Oxygen Vacancies. <i>Journal of the American Chemical Society</i> , 2020, 142, 12430-12439.	6.6	260
59	Bowl-like C@MoS <sub>2</sub> Nanocomposites as Anode Materials for Lithium-Ion Batteries: Enhanced Stress Buffering and Charge/Mass Transfer. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10065-10072.	3.2	35
60	Recent progress in electrode fabrication for electrocatalytic hydrogen evolution reaction: A mini review. <i>Chemical Engineering Journal</i> , 2020, 393, 124726.	6.6	150
61	Biomass-Derived Carbon for Electrode Fabrication in Microbial Fuel Cells: A Review. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 6391-6404.	1.8	50
62	Iron Nanoparticles Encapsulated in S,N-Codoped Carbon: Sulfur Doping Enriches Surface Electron Density and Enhances Electrocatalytic Activity toward Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 12686-12695.	4.0	39
63	Integrating ZnCo <sub>2</sub> O <sub>4</sub> submicro/nanospheres with Co <sub>x</sub> Se <sub>y</sub> nanosheets for the oxygen evolution reaction and zinc-air batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2184-2191.	2.5	12
64	Metal-nitrogen coordination moieties in carbon for effective electrocatalytic reduction of oxygen. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 46-54.	2.5	16
65	Layered Assembly of Silver Nanocubes/Polyelectrolyte/Gold Film as an Efficient Substrate for Surface-Enhanced Raman Scattering. <i>ACS Applied Nano Materials</i> , 2020, 3, 1934-1941.	2.4	12
66	Electrochemical sensing of pancreatic cancer miR-1290 based on yeast-templated mesoporous TiO <sub>2</sub> modified electrodes. <i>Analytica Chimica Acta</i> , 2020, 1105, 82-86.	2.6	13
67	Antimicrobial activity of graphene oxide quantum dots: impacts of chemical reduction. <i>Nanoscale Advances</i> , 2020, 2, 1074-1083.	2.2	17
68	Nitrogen-Doped Porous Carbon Cages for Electrocatalytic Reduction of Oxygen: Enhanced Performance with Iron and Cobalt Dual Metal Centers. <i>ChemCatChem</i> , 2020, 12, 3230-3239.	1.8	18
69	Atomic Dispersion and Surface Enrichment of Palladium in Nitrogen-Doped Porous Carbon Cages Lead to High-Performance Electrocatalytic Reduction of Oxygen. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 17641-17650.	4.0	42
70	Oxygen Reduction Reaction Catalyzed by Carbon-Supported Platinum Few-Atom Clusters: Significant Enhancement by Doping of Atomic Cobalt. <i>Research</i> , 2020, 2020, 9167829.	2.8	18
71	Ethanol Electrooxidation Catalyzed by Tungsten Core@Palladium Shell Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30968-30976.	4.0	20
72	Facile Synthesis of Fe/N/S-Doped Carbon Tubes as High-Performance Cathode and Anode for Microbial Fuel Cells. <i>ChemCatChem</i> , 2019, 11, 6070-6077.	1.8	11

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73	Controllable synthesis of cerium zirconium oxide nanocomposites and their application for photocatalytic degradation of sulfonamides. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118107.	10.8	57
74	Antimicrobial Activity of Zinc Oxide@Graphene Quantum Dot Nanocomposites: Enhanced Adsorption on Bacterial Cells by Cationic Capping Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16264-16273.	3.2	59
75	Single iron atoms stabilized by microporous defects of biomass-derived carbon aerogels as high-performance cathode electrocatalysts for aluminum-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20840-20846.	5.2	68
76	Ruthenium Ion-Complexed Carbon Nitride Nanosheets with Peroxidase-like Activity as a Ratiometric Fluorescence Probe for the Detection of Hydrogen Peroxide and Glucose. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29072-29077.	4.0	64
77	Cu(II) Ions Induced Structural Transformation of Cobalt Selenides for Remarkable Enhancement in Oxygen/Hydrogen Electrocatalysis. <i>ACS Catalysis</i> , 2019, 9, 10761-10772.	5.5	110
78	Platinum Oxide Nanoparticles for Electrochemical Hydrogen Evolution: Influence of Platinum Valence State. <i>Chemistry - A European Journal</i> , 2019, 26, 4136.	1.7	12
79	Organized assembling of poly(ethylene glycol)-functionalized Janus nanoparticles induced by select alkali metal ions. <i>Inorganic Chemistry Communication</i> , 2019, 110, 107586.	1.8	4
80	Electrochemical voltammetric behaviors of synthetic dengue virus RNAs at ITO sensing electrode. <i>Journal of Electroanalytical Chemistry</i> , 2019, 851, 113463.	1.9	6
81	Au@PdAg core-shell nanotubes as advanced electrocatalysts for methanol electrooxidation in alkaline media. <i>RSC Advances</i> , 2019, 9, 931-939.	1.7	14
82	Oxygen Reduction Reaction Catalyzed by Black-Phosphorus-Supported Metal Nanoparticles: Impacts of Interfacial Charge Transfer. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24707-24714.	4.0	33
83	PdCu alloy nanoparticles supported on CeO <sub>2</sub> nanorods: Enhanced electrocatalytic activity by synergy of compressive strain, PdO and oxygen vacancy. <i>Journal of Catalysis</i> , 2019, 374, 101-109.	3.1	44
84	Sulfur impregnation in polypyrrole-modified MnO <sub>2</sub> nanotubes: efficient polysulfide adsorption for improved lithium-sulfur battery performance. <i>Nanoscale</i> , 2019, 11, 10097-10105.	2.8	31
85	Nanoscale Chirality. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900129.	1.2	3
86	Lithium-Sulfur Batteries: Layered Electrodes Based on 3D Hierarchical Porous Carbon and Conducting Polymers for High-Performance Lithium-Sulfur Batteries ( <i>Small Methods</i> 5/2019). <i>Small Methods</i> , 2019, 3, 1970015.	4.6	0
87	Synergy between Plasmonic and Electrocatalytic Activation of Methanol Oxidation on Palladium-Silver Alloy Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8794-8798.	7.2	120
88	Cobalt oxides nanoparticles supported on nitrogen-doped carbon nanotubes as high-efficiency cathode catalysts for microbial fuel cells. <i>Inorganic Chemistry Communication</i> , 2019, 105, 69-75.	1.8	29
89	Layered Electrodes Based on 3D Hierarchical Porous Carbon and Conducting Polymers for High-Performance Lithium-Sulfur Batteries. <i>Small Methods</i> , 2019, 3, 1900028.	4.6	19
90	Janus Nanoparticle Emulsions as Chiral Nanoreactors for Enantiomerically Selective Ligand Exchange. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800564.	1.2	4

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91	Supported Heterostructured MoC/Mo <sub>2</sub> C Nanoribbons and Nanoflowers as Highly Active Electrocatalysts for Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 8458-8465.	3.2	49
92	Ru@Pt Core-Shell Nanoparticles: Impact of the Atomic Ordering of the Ru Metal Core on the Electrocatalytic Activity of the Pt Shell. ACS Sustainable Chemistry and Engineering, 2019, 7, 9007-9016.	3.2	36
93	Ruthenium atomically dispersed in carbon outperforms platinum toward hydrogen evolution in alkaline media. Nature Communications, 2019, 10, 631.	5.8	423
94	Porous Counter Electrode for Dye-Sensitized Solar Cell by Simple Hydrothermal Method. Polymer Science - Series B, 2019, 61, 846-855.	0.3	1
95	Nanocomposites Based on Ruthenium Nanoparticles Supported on Cobalt and Nitrogen-Codoped Graphene Nanosheets as Bifunctional Catalysts for Electrochemical Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 46912-46919.	4.0	37
96	N,S-codoped hierarchical porous carbon spheres embedded with cobalt nanoparticles as efficient bifunctional oxygen electrocatalysts for rechargeable zinc-air batteries. Nanoscale, 2019, 11, 21302-21310.	2.8	31
97	Heterostructured intermetallic CuSn catalysts: high performance towards the electrochemical reduction of CO <sub>2</sub> to formate. Journal of Materials Chemistry A, 2019, 7, 27514-27521.	5.2	73
98	N-doped carbon-wrapped Mo C heterophase sheets for high-efficiency electrochemical hydrogen production. Chemical Engineering Journal, 2019, 358, 362-368.	6.6	44
99	Low-dimensional heteroatom-doped carbon nanomaterials prepared with thermally removable templates for the electrocatalytic reduction of oxygen. Materials Today Chemistry, 2019, 11, 253-268.	1.7	15
100	Air Cathode Catalysts of Microbial Fuel Cell by Nitrogen-Doped Carbon Aerogels. ACS Sustainable Chemistry and Engineering, 2019, 7, 3917-3924.	3.2	38
101	Mesoporous, nitrogen-doped, graphitized carbon nanosheets embedded with cobalt nanoparticles for efficient oxygen electroreduction. Journal of Materials Science, 2019, 54, 4168-4179.	1.7	12
102	Graphene oxide-supported zinc cobalt oxides as effective cathode catalysts for microbial fuel cell: High catalytic activity and inhibition of biofilm formation. Nano Energy, 2019, 57, 811-819.	8.2	94
103	Hierarchically Structured Co(OH) <sub>2</sub> /CoPt/N-CN Air Cathodes for Rechargeable Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2019, 11, 4983-4994.	4.0	35
104	Organic functionalization of metal catalysts: Enhanced activity towards electroreduction of carbon dioxide. Current Opinion in Electrochemistry, 2019, 13, 40-46.	2.5	26
105	Alkyne-Functionalized Ruthenium Nanoparticles: Impact of Metal-Ligand Interfacial Bonding Interactions on the Selective Hydrogenation of Styrene. ACS Catalysis, 2019, 9, 98-104.	5.5	22
106	Construction of durable antibacterial and anti-mildew cotton fabric based on P(DMDAAC-AGE)/Ag/ZnO composites. Carbohydrate Polymers, 2019, 204, 161-169.	5.1	72
107	Nanowrinkled Carbon Aerogels Embedded with FeNx Sites as Effective Oxygen Electrodes for Rechargeable Zinc-Air Battery. Research, 2019, 2019, 6813585.	2.8	29
108	Palladium nanoparticles grown on <sup>12</sup> -Mo <sub>2</sub> C nanotubes as dual functional electrocatalysts for both oxygen reduction reaction and hydrogen evolution reaction. International Journal of Hydrogen Energy, 2018, 43, 4932-4941.	3.8	54

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109	Cage Breaking of C <sub>60</sub> Into Photoluminescent Graphene Oxide Quantum Dots: An Efficient Peroxidase Mimic. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700535.	0.7	8
110	Highly Ordered Hierarchical Pt and PtNi Nanowire Arrays for Enhanced Electrocatalytic Activity toward Methanol Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9444-9450.	4.0	54
111	Styrene oxidation catalyzed by Au <sub>11</sub> (PPh <sub>3</sub> ) <sub>7</sub> Cl <sub>3</sub> and [Au <sub>11</sub> (PPh <sub>3</sub> ) <sub>8</sub> Cl <sub>2</sub> ]Cl nanoclusters: Impacts of capping ligands, particle size and charge state. <i>Applied Catalysis A: General</i> , 2018, 557, 1-6.	2.2	13
112	Total Water Splitting Catalyzed by Co@Ir Core-Shell Nanoparticles Encapsulated in Nitrogen-Doped Porous Carbon Derived from Metal-Organic Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5105-5114.	3.2	113
113	Highly Tunable Hollow Gold Nanospheres: Gaining Size Control and Uniform Galvanic Exchange of Sacrificial Cobalt Boride Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12992-13001.	4.0	17
114	High-performance Li-Se battery cathode based on CoSe <sub>2</sub> -porous carbon composites. <i>Electrochimica Acta</i> , 2018, 264, 341-349.	2.6	61
115	Nanocomposites based on hierarchical porous carbon fiber@vanadium nitride nanoparticles as supercapacitor electrodes. <i>Dalton Transactions</i> , 2018, 47, 4128-4138.	1.6	51
116	Silicene Quantum Dots: Synthesis, Spectroscopy, and Electrochemical Studies. <i>Langmuir</i> , 2018, 34, 2834-2840.	1.6	16
117	Ruthenium Ion-Complexed Graphitic Carbon Nitride Nanosheets Supported on Reduced Graphene Oxide as High-Performance Catalysts for Electrochemical Hydrogen Evolution. <i>ChemSusChem</i> , 2018, 11, 4-4.	3.6	3
118	Sulfur codoping enables efficient oxygen electroreduction on FeCo alloy encapsulated in N-Doped carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2018, 741, 368-376.	2.8	34
119	Highly crosslinked organosulfur copolymer nanosheets with abundant mesopores as cathode materials for efficient lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2018, 263, 53-59.	2.6	47
120	Phenol-degrading sludge as a promising precursor for a capacitive carbon material: Disclosing key factors for the nanostructure and high capacitance. <i>Carbon</i> , 2018, 134, 53-61.	5.4	16
121	Peptide templated AuPt alloyed nanoparticles as highly efficient bi-functional electrocatalysts for both oxygen reduction reaction and hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018, 260, 168-176.	2.6	41
122	Ruthenium Ion-Complexed Graphitic Carbon Nitride Nanosheets Supported on Reduced Graphene Oxide as High-Performance Catalysts for Electrochemical Hydrogen Evolution. <i>ChemSusChem</i> , 2018, 11, 130-136.	3.6	76
123	Photo-enhanced antibacterial activity of ZnO/graphene quantum dot nanocomposites. <i>Nanoscale</i> , 2018, 10, 158-166.	2.8	132
124	Reduced graphene oxide modified activated carbon for improving power generation of air-cathode microbial fuel cells. <i>Journal of Materials Research</i> , 2018, 33, 1279-1287.	1.2	8
125	Intraparticle charge delocalization through conjugated metal-ligand interfacial bonds: Effects of metal d electrons. <i>Chinese Journal of Chemical Physics</i> , 2018, 31, 433-438.	0.6	4
126	Single Atom Catalysts: Carbon-Supported Single Atom Catalysts for Electrochemical Energy Conversion and Storage ( <i>Adv. Mater.</i> 48/2018). <i>Advanced Materials</i> , 2018, 30, 1870370.	11.1	6



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127	Golden single-atomic-site platinum electrocatalysts. <i>Nature Materials</i> , 2018, 17, 1033-1039.	13.3	266
128	CoSe <sub>2</sub> Nanoparticles Encapsulated by N-Doped Carbon Framework Intertwined with Carbon Nanotubes: High-Performance Dual-Role Anode Materials for Both Li- and Na-Ion Batteries. <i>Advanced Science</i> , 2018, 5, 1800763.	5.6	215
129	Point of Anchor: Impacts on Interfacial Charge Transfer of Metal Oxide Nanoparticles. <i>Journal of the American Chemical Society</i> , 2018, 140, 15290-15299.	6.6	18
130	Oxygen Reduction Reaction and Hydrogen Evolution Reaction Catalyzed by Pd-Ru Nanoparticles Encapsulated in Porous Carbon Nanosheets. <i>Catalysts</i> , 2018, 8, 329.	1.6	48
131	Co@Pd core-shell nanoparticles embedded in nitrogen-doped porous carbon as dual functional electrocatalysts for both oxygen reduction and hydrogen evolution reactions. <i>Journal of Colloid and Interface Science</i> , 2018, 528, 18-26.	5.0	48
132	Iron-Catalyzed Vinylic C-H Alkylation with Alkyl Peroxides. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2522-2528.	1.7	9
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