

Yun Zong

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115
papers

8,579
citations

53
h-index

92
g-index

118
ext. papers

9,859
ext. citations

9.8
avg, IF

6.08
L-index

#	Paper	IF	Citations
115	Oxygen Reduction in Alkaline Media: From Mechanisms to Recent Advances of Catalysts. <i>ACS Catalysis</i> , 2015 , 5, 4643-4667	13.1	748
114	Multicolor barcoding in a single upconversion crystal. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4893-6	16.4	302
113	Growth of Au Nanoparticles on 2D Metalloporphyrinic Metal-Organic Framework Nanosheets Used as Biomimetic Catalysts for Cascade Reactions. <i>Advanced Materials</i> , 2017 , 29, 1700102	24	283
112	One-Pot Synthesis of Highly Anisotropic Five-Fold-Twinned PtCu Nanoframes Used as a Bifunctional Electrocatalyst for Oxygen Reduction and Methanol Oxidation. <i>Advanced Materials</i> , 2016 , 28, 8712-8717	24	275
111	Dual-phase spinel MnCo ₂ O ₄ and spinel MnCo ₂ O ₄ /nanocarbon hybrids for electrocatalytic oxygen reduction and evolution. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12684-91	9.5	260
110	Fe-Doped Ni C Nanodots in N-Doped Carbon Nanosheets for Efficient Hydrogen-Evolution and Oxygen-Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12566-12570	16.4	240
109	Hexagonal-Phase Cobalt Monophosphosulfide for Highly Efficient Overall Water Splitting. <i>ACS Nano</i> , 2017 , 11, 11031-11040	16.7	239
108	From Lithium-Oxygen to Lithium-Air Batteries: Challenges and Opportunities. <i>Advanced Energy Materials</i> , 2016 , 6, 1502164	21.8	237
107	Two-Dimensional Tin Disulfide Nanosheets for Enhanced Sodium Storage. <i>ACS Nano</i> , 2015 , 9, 11371-81	16.7	231
106	One-Pot Synthesis of Tunable Crystalline Ni ₃ S ₄ @Amorphous MoS ₂ Core/Shell Nanospheres for High-Performance Supercapacitors. <i>Small</i> , 2015 , 11, 3694-702	11	218
105	Co ₃ O ₄ nanoparticle-modified MnO ₂ nanotube bifunctional oxygen cathode catalysts for rechargeable zinc-air batteries. <i>Nanoscale</i> , 2013 , 5, 4657-61	7.7	215
104	Electrochemical energy storage devices for wearable technology: a rationale for materials selection and cell design. <i>Chemical Society Reviews</i> , 2018 , 47, 5919-5945	58.5	215
103	Ultrathin Porous NiFeV Ternary Layer Hydroxide Nanosheets as a Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small</i> , 2018 , 14, 1703257	11	206
102	Co ₃ O ₄ nanoparticles decorated carbon nanofiber mat as binder-free air-cathode for high performance rechargeable zinc-air batteries. <i>Nanoscale</i> , 2015 , 7, 1830-8	7.7	200
101	Synthesis of Ultrathin PdCu Alloy Nanosheets Used as a Highly Efficient Electrocatalyst for Formic Acid Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1700769	24	154
100	Amorphous/Crystalline Hetero-Phase Pd Nanosheets: One-Pot Synthesis and Highly Selective Hydrogenation Reaction. <i>Advanced Materials</i> , 2018 , 30, e1803234	24	147
99	Enhanced surface plasmon resonance on a smooth silver film with a seed growth layer. <i>ACS Nano</i> , 2010 , 4, 3139-46	16.7	141

98	An Air-Stable Densely Packed Phosphorene-Graphene Composite Toward Advanced Lithium Storage Properties. <i>Advanced Energy Materials</i> , 2016 , 6, 1600453	21.8	131
97	Crystal Phase and Architecture Engineering of Lotus-Thalamus-Shaped Pt-Ni Anisotropic Superstructures for Highly Efficient Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1801741	24	128
96	Influence of carbon pore size on the discharge capacity of LiO ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12433-12441	13	125
95	Potential of metal-free Graphene alloys electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1795-1810	13	118
94	Submonolayered Ru Deposited on Ultrathin Pd Nanosheets used for Enhanced Catalytic Applications. <i>Advanced Materials</i> , 2016 , 28, 10282-10286	24	117
93	Improved Reversibility of Fe /Fe Redox Couple in Sodium Super Ion Conductor Type Na Fe (PO) for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1605694	24	115
92	Ag nanoparticle-modified MnO ₂ nanorods catalyst for use as an air electrode in zinc-air battery. <i>Electrochimica Acta</i> , 2013 , 114, 598-604	6.7	113
91	High-Yield Synthesis of Crystal-Phase-Heterostructured 4H/fcc Au@Pd Core-Shell Nanorods for Electrocatalytic Ethanol Oxidation. <i>Advanced Materials</i> , 2017 , 29, 1701331	24	112
90	All-Solid-State, Foldable, and Rechargeable Zn-Air Batteries Based on Manganese Oxide Grown on Graphene-Coated Carbon Cloth Air Cathode. <i>Advanced Energy Materials</i> , 2017 , 7, 1700927	21.8	106
89	A Robust Hybrid Zn-Battery with Ultralong Cycle Life. <i>Nano Letters</i> , 2017 , 17, 156-163	11.5	103
88	NiMn layered double hydroxides as efficient electrocatalysts for the oxygen evolution reaction and their application in rechargeable Zn-air batteries. <i>Nanoscale</i> , 2017 , 9, 774-780	7.7	100
87	Durable rechargeable zinc-air batteries with neutral electrolyte and manganese oxide catalyst. <i>Journal of Power Sources</i> , 2016 , 332, 330-336	8.9	95
86	A Near-Neutral Chloride Electrolyte for Electrically Rechargeable Zinc-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A2080-A2086	3.9	93
85	Preparation of Single-Layer MoS(2x)Se2(1-x) and Mo(x)W(1-x)S ₂ Nanosheets with High-Concentration Metallic 1T Phase. <i>Small</i> , 2016 , 12, 1866-74	11	91
84	Edge Epitaxy of Two-Dimensional MoSe and MoS Nanosheets on One-Dimensional Nanowires. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8653-8660	16.4	90
83	Ethylene Selectivity in Electrocatalytic CO Reduction on Cu Nanomaterials: A Crystal Phase-Dependent Study. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12760-12766	16.4	89
82	Mussel-inspired one-pot synthesis of transition metal and nitrogen co-doped carbon (M/N-C) as efficient oxygen catalysts for Zn-air batteries. <i>Nanoscale</i> , 2016 , 8, 5067-75	7.7	89
81	Eggplant-derived microporous carbon sheets: towards mass production of efficient bifunctional oxygen electrocatalysts at low cost for rechargeable Zn-air batteries. <i>Chemical Communications</i> , 2015 , 51, 8841-4	5.8	87

80	3D Hierarchical Porous Mo ₂ C for Efficient Hydrogen Evolution. <i>Small</i> , 2016 , 12, 2859-65	11	82
79	Key parameters in design of lithium sulfur batteries. <i>Journal of Power Sources</i> , 2014 , 269, 111-116	8.9	82
78	Electrospun aggregation-induced emission active POSS-based porous copolymer films for detection of explosives. <i>Chemical Communications</i> , 2014 , 50, 13785-8	5.8	79
77	Co@Co ₃ O ₄ @PPD Core@shell Nanoparticle-Based Composite as an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2016 , 12, 2580-7	11	79
76	Scalable synthesis of SnS/S-doped graphene composites for superior Li/Na-ion batteries. <i>Nanoscale</i> , 2017 , 9, 14820-14825	7.7	78
75	Preparation of 1T'-Phase ReSSe (x = 0-1) Nanodots for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8563-8568	16.4	77
74	Liquid-phase growth of platinum nanoparticles on molybdenum trioxide nanosheets: an enhanced catalyst with intrinsic peroxidase-like catalytic activity. <i>Nanoscale</i> , 2014 , 6, 12340-4	7.7	76
73	Sulfur@Carbon yolk-shell particle based 3D interconnected nanostructures as cathodes for rechargeable lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1853-1857	13	71
72	Building better lithium-sulfur batteries: from LiNO ₃ to solid oxide catalyst. <i>Scientific Reports</i> , 2016 , 6, 33154	4.9	71
71	NbS Nanosheets with M/Se (M = Fe, Co, Ni) Codopants for Li and Na Storage. <i>ACS Nano</i> , 2017 , 11, 10599-10607	10.6	68
70	Tellurium@Ordered Macroporous Carbon Composite and Free-Standing Tellurium Nanowire Mat as Cathode Materials for Rechargeable Lithium-Tellurium Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1401999	21.8	65
69	Efficient and durable oxygen reduction and evolution of a hydrothermally synthesized La(Co _{0.55} Mn _{0.45}) _{0.99} O ₃ -nanorod/graphene hybrid in alkaline media. <i>Nanoscale</i> , 2015 , 7, 9046-54	7.7	64
68	Epitaxial growth of unusual 4H hexagonal Ir, Rh, Os, Ru and Cu nanostructures on 4H Au nanoribbons. <i>Chemical Science</i> , 2017 , 8, 795-799	9.4	64
67	A thermally stable and reversible microporous hydrogen-bonded organic framework: aggregation induced emission and metal ion-sensing properties. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11874-11880	7.1	61
66	Preparation of Cobalt Sulfide Nanoparticle-Decorated Nitrogen and Sulfur Co-Doped Reduced Graphene Oxide Aerogel Used as a Highly Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2016 , 12, 5920-5926	11	61
65	Manganese Oxide Catalyst Grown on Carbon Paper as an Air Cathode for High-Performance Rechargeable Zinc-Air Batteries. <i>ChemPlusChem</i> , 2015 , 80, 1341-1346	2.8	58
64	General and Scalable Solid-State Synthesis of 2D MPS ₃ (M = Fe, Co, Ni) Nanosheets and Tuning Their Li/Na Storage Properties. <i>Small Methods</i> , 2017 , 1, 1700304	12.8	57
63	Few-layer NiPS nanosheets as bifunctional materials for Li-ion storage and oxygen evolution reaction. <i>Nanoscale</i> , 2018 , 10, 4890-4896	7.7	55

62	Synthesis of Hierarchical 4H/fcc Ru Nanotubes for Highly Efficient Hydrogen Evolution in Alkaline Media. <i>Small</i> , 2018 , 14, e1801090	11	52
61	One-Step Facile Synthesis of Cobalt Phosphides for Hydrogen Evolution Reaction Catalysts in Acidic and Alkaline Medium. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15673-15680	9.5	51
60	Acrylamide-derived freestanding polymer gel electrolyte for flexible metal-air batteries. <i>Journal of Power Sources</i> , 2018 , 400, 566-571	8.9	48
59	Biological, Chemical, and Electronic Applications of Nanofibers. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 822-867	3.9	48
58	String of pyrolyzed ZIF-67 particles on carbon fibers for high-performance electrocatalysis. <i>Energy Storage Materials</i> , 2020 , 25, 137-144	19.4	48
57	Intrinsically Conductive Perovskite Oxides with Enhanced Stability and Electrocatalytic Activity for Oxygen Reduction Reactions. <i>ACS Catalysis</i> , 2016 , 6, 7865-7871	13.1	46
56	Synthesis of 4H/fcc-Au@M (M = Ir, Os, IrOs) Core-Shell Nanoribbons For Electrocatalytic Oxygen Evolution Reaction. <i>Small</i> , 2016 , 12, 3908-13	11	44
55	Enzyme immobilization on poly(ethylene-co-acrylic acid) films studied by quartz crystal microbalance with dissipation monitoring. <i>Journal of Colloid and Interface Science</i> , 2005 , 287, 35-42	9.3	43
54	Electrochemical surface plasmon spectroscopy Recent developments and applications. <i>Electrochimica Acta</i> , 2007 , 52, 2869-2875	6.7	41
53	Solution-processable blue-to-transmissive electrochromic benzotriazole-containing conjugated polymers. <i>Polymer Chemistry</i> , 2013 , 4, 4663	4.9	40
52	Co ₃ O ₄ nanoparticles grown on N-doped Vulcan carbon as a scalable bifunctional electrocatalyst for rechargeable zinc-air batteries. <i>RSC Advances</i> , 2015 , 5, 75773-75780	3.7	36
51	Cobalt sulfide nanoparticles impregnated nitrogen and sulfur co-doped graphene as bifunctional catalyst for rechargeable Zn-air batteries. <i>RSC Advances</i> , 2015 , 5, 7280-7284	3.7	34
50	Facile One-Pot Synthesis of CoFe Alloy Nanoparticles Decorated N-Doped Carbon for High-Performance Rechargeable Zinc-Air Battery Stacks. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7743-7751	8.3	34
49	Femtomol SPR detection of DNA-PNA hybridization with the assistance of DNA-guided polyaniline deposition. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1715-20	11.8	34
48	Zinc, cobalt and copper coordination polymers with different structural motifs from picolyl-triazole hybrid ligands. <i>CrystEngComm</i> , 2012 , 14, 961-971	3.3	33
47	Progress in development of flexible metal-air batteries. <i>Functional Materials Letters</i> , 2016 , 09, 1630001	1.2	33
46	Sulfur-Rich Colloidal Nickel Sulfides as Bifunctional Catalyst for All-Solid-State, Flexible and Rechargeable Zn-Air Batteries. <i>ChemCatChem</i> , 2019 , 11, 1205-1213	5.2	30
45	CdSe nanocrystals as hydroperoxide scavengers: a new approach to highly sensitive quantification of lipid hydroperoxides. <i>Small</i> , 2007 , 3, 290-3	11	28

44	Ni/NiOx-decorated carbon nanofibers with enhanced oxygen evolution activity for rechargeable zinc-air batteries. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 677-682	7.8	27
43	Azimuthal dispersion and energy mode condensation of grating-coupled surface plasmon polaritons. <i>Physical Review B</i> , 2008 , 77,	3.3	25
42	Atomic Layer Deposition of TiO ₂ to Bond Free-Standing Nanoporous Alumina Templates to Gold-Coated Substrates as Planar Optical Waveguide Sensors. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17576-17580	3.8	24
41	Sulfur Encapsulated in MoO ₃ -Anchored Ultralight Graphene for High-Energy Lithium Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3679-3687	8.3	22
40	A polydopamine coating ultralight graphene matrix as a highly effective polysulfide absorbent for high-energy Li-S batteries. <i>Renewable Energy</i> , 2016 , 96, 333-340	8.1	22
39	Sheet-on-Sheet Hierarchical Nanostructured C@MnO ₂ for Zn-Air and Zn-MnO ₂ Batteries. <i>ChemNanoMat</i> , 2017 , 3, 401-405	3.5	21
38	In situ monitoring the viscosity change of an electrolyte in a Li-S battery. <i>Chemical Communications</i> , 2017 , 53, 10152-10155	5.8	20
37	S-Doped TiSe Nanoplates/Fe ₃ O ₄ Nanoparticles Heterostructure. <i>Small</i> , 2017 , 13, 1702181	11	16
36	Quartz crystal microbalance with integrated surface plasmon grating coupler. <i>Analytical Chemistry</i> , 2008 , 80, 5246-50	7.8	16
35	High-power sodium titanate anodes; a comparison of lithium vs sodium-ion batteries. <i>Journal of Power Sources</i> , 2018 , 408, 28-37	8.9	16
34	A simple electrochemical method for conversion of Pt wires to Pt concave icosahedra and nanocubes on carbon paper for electrocatalytic hydrogen evolution. <i>Science China Materials</i> , 2019 , 62, 115-121	7.1	15
33	Reduced graphene oxide-supported cobalt oxide decorated N-doped graphitic carbon for efficient bifunctional oxygen electrocatalysis. <i>RSC Advances</i> , 2019 , 9, 16534-16540	3.7	12
32	Facile synthesis of battery waste-derived graphene for transparent and conductive film application by an electrochemical exfoliation method. <i>RSC Advances</i> , 2020 , 10, 10322-10328	3.7	12
31	Bifunctionally active nanosized spinel cobalt nickel sulfides for sustainable secondary zinc-air batteries: examining the effects of compositional tuning on OER and ORR activity. <i>Catalysis Science and Technology</i> , 2020 , 10, 2173-2182	5.5	11
30	Manganese Oxide Nanorods Decorated Table Sugar Derived Carbon as Efficient Bifunctional Catalyst in Rechargeable Zn-Air Batteries. <i>Catalysts</i> , 2020 , 10, 64	4	11
29	Investigation on the Cyclability of Lithium-Oxygen Cells in a Confined Potential Window using Cathodes with Pre-filled Discharge Products. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2182-9	4.5	10
28	Rational design of a high-energy LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ cathode for Li-ion batteries. <i>Solid State Ionics</i> , 2018 , 323, 72-77	3.3	10
27	Enhancing bifunctional catalytic activity of cobalt-nickel sulfide spinel nanocatalysts through transition metal doping and its application in secondary zinc-air batteries. <i>RSC Advances</i> , 2020 , 10, 41871-41882	3.7	9

26	Sn-containing composite thin films by plasma deposition of tetramethyltin. <i>Thin Solid Films</i> , 2005 , 472, 58-63	2.2	9
25	Unraveling the electrocatalytically active sites and stability of Co & Co oxides on nanocarbon for oxygen evolution reaction in acid solution. <i>Journal of Energy Chemistry</i> , 2020 , 49, 8-13	12	8
24	Light-induced detuning of a quartz crystal wafer with temperature-compensated cut. <i>Journal of Applied Physics</i> , 2008 , 103, 104503	2.5	7
23	Novel azobenzene-containing polyamic acids as Langmuir-Blodgett-Kuhn multilayer films and for liquid crystal alignment switching. <i>Thin Solid Films</i> , 2005 , 477, 203-206	2.2	7
22	Molecular weight determination of an azobenzene-derivatized poly(amic acid) by AFM. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4069		6
21	Azobenzene-containing polyamic acid with excellent Langmuir-Blodgett-Kuhn film formation behavior suitable for all-optical switching. <i>Langmuir</i> , 2005 , 21, 7036-43	4	6
20	PHOTOREACTIVE THIN FILMS OF AZOBENZENE-DERIVATIZED POLY(AMIC ACID) AND POLY(IMIDE) LANGMUIR-BLODGETT-KUHN MULTILAYER ASSEMBLIES. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2002 , 11, 367-389	0.8	6
19	Electrochemical impedance spectroscopy study of sulfur reduction pathways using a flexible, free-standing and high-sulfur-loading film. <i>Chemical Engineering Journal</i> , 2021 , 412, 128559	14.7	6
18	FeCo Nanoparticle-Loaded Nutshell-Derived Porous Carbon as Sustainable Catalyst in Al-Air Batteries. <i>Energy Material Advances</i> , 2021 , 2021, 1-12	1	6
17	Oxidation-induced constituent separation of magnetic exchange biased Fe/CoO nanocrystals. <i>Chemical Communications</i> , 2009 , 6255-7	5.8	5
16	Nanostructured Perovskite LaCo _{1-x} Mn _x O ₃ as Bifunctional Catalysts for Rechargeable Metal-Air Batteries. <i>Journal of Molecular and Engineering Materials</i> , 2015 , 03, 1540006	1.3	4
15	Mussel-inspired facile synthesis of Fe/Co-polydopamine complex nanospheres: complexation mechanism and application of the carbonized hybrid nanospheres as an efficient bifunctional electrocatalyst. <i>New Journal of Chemistry</i> , 2018 , 42, 19494-19504	3.6	4
14	Energy Storage: One-Pot Synthesis of Tunable Crystalline Ni ₃ S ₄ @Amorphous MoS ₂ Core/Shell Nanospheres for High-Performance Supercapacitors (Small 30/2015). <i>Small</i> , 2015 , 11, 3720-3720	11	3
13	The 2nd Molecular Materials Meeting (M3@Singapore). <i>Australian Journal of Chemistry</i> , 2012 , 65, 1191	1.2	3
12	Machine learning-assisted cross-domain prediction of ionic conductivity in sodium and lithium-based superionic conductors using facile descriptors. <i>Journal of Physics Communications</i> , 2020 , 4, 055015	1.2	2
11	The 3rd Molecular Materials Meeting (M3) @ Singapore. <i>Australian Journal of Chemistry</i> , 2013 , 66, 993	1.2	2
10	On the formation of molecular terraces. <i>Langmuir</i> , 2005 , 21, 8250-4	4	2
9	Lithium Storage: An Air-Stable Densely Packed Phosphorene-Graphene Composite Toward Advanced Lithium Storage Properties (Adv. Energy Mater. 12/2016). <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	2

- 8 The 4th Molecular Materials Meeting (M3) @ Singapore. *Australian Journal of Chemistry*, **2014**, 67, 1365 1.2 1
- 7 Engineering High-Performance Sulfur Electrode from Industrial Conductive Carbons. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5515-5523 8.3 1
- 6 Building well-defined hierarchical nanostructures for sulfur and silicon electrodes. *Progress in Natural Science: Materials International*, **2019**, 29, 672-678 3.6 1
- 5 Porous calciummanganese oxide/carbon nanotube microspheres as efficient oxygen reduction catalysts for rechargeable zincBir batteries. *Inorganic Chemistry Frontiers*, **2021**, 8, 2052-2060 6.8 1
- 4 Self-Assembly of Surface-Functionalized Ag Mn O Nanorods with Reduced Graphene Oxide Nanosheets as an Efficient Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries. *Chemistry - an Asian Journal*, **2021**, 16, 3677-3682 4.5 1
- 3 Anisotropic behaviour of the glass transition temperature in thin films of LangmuirBlodgett deposited side chain polymers. *Thin Solid Films*, **2008**, 516, 1183-1190 2.2
- 2 Second Harmonic Generation in Langmuir-Blodgett Films of a Novel Phenylhydrazone Dye. *Molecular Crystals and Liquid Crystals*, **1999**, 337, 425-428
- 1 The 5th Molecular Materials Meeting (M3) @ Singapore. *Australian Journal of Chemistry*, **2016**, 69, 361 1.2