

Atomically Thin Mesoporous Co₃O₄ NanorGO Nanosheets as High-Performance Bifunctional Batteries

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Bifunctional electrocatalysts of MOF-derived Co ^N /C on bamboo-like MnO nanowires for high-performance liquid- and solid-state Zn ^{Air} batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9716-9722.	5.2	167
3	Recent Advances in Carbon-Based Bifunctional Oxygen Electrocatalysts for Zn ^{Air} Batteries. <i>ChemElectroChem</i> , 2018, 5, 1424-1434.	1.7	129
4	Co ₃ O ₄ /MnO ₂ /Hierarchically Porous Carbon as Superior Bifunctional Electrodes for Liquid and All-Solid-State Rechargeable Zinc ^{Air} Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15591-15601.	4.0	89
5	Controllable Synthesis of Ni _x Se (0.5 ≤ x ≤ 1) Nanocrystals for Efficient Rechargeable Zinc ^{Air} Batteries and Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13675-13684.	4.0	116
6	Palladium single atoms supported by interwoven carbon nanotube and manganese oxide nanowire networks for enhanced electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23366-23377.	5.2	68
7	Robust N-doped carbon aerogels strongly coupled with iron-cobalt particles as efficient bifunctional catalysts for rechargeable Zn ^{Air} batteries. <i>Nanoscale</i> , 2018, 10, 19937-19944.	2.8	144
8	Pyrite-Type CoS ₂ Nanoparticles Supported on Nitrogen-Doped Graphene for Enhanced Water Splitting. <i>Frontiers in Chemistry</i> , 2018, 6, 569.	1.8	32
9	A Confinement Strategy for Stabilizing ZIF-Derived Bifunctional Catalysts as a Benchmark Cathode of Flexible All-Solid-State Zinc ^{Air} Batteries. <i>Advanced Materials</i> , 2018, 30, e1805268.	11.1	147
10	Multiscale Structural Engineering of Ni-Doped CoO Nanosheets for Zinc ^{Air} Batteries with High Power Density. <i>Advanced Materials</i> , 2018, 30, e1804653.	11.1	131
11	In Situ Fabrication of Heterostructure on Nickel Foam with Tuned Composition for Enhancing Water-Splitting Performance. <i>Small</i> , 2018, 14, e1803666.	5.2	100
12	Co ₃ O ₄ @g-C ₃ N ₄ supported on N-doped graphene as effective electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20687-20695.	3.8	40
13	All-in-One Bifunctional Oxygen Electrode Films for Flexible Zn ^{Air} Batteries. <i>Small</i> , 2018, 14, e1803409.	5.2	59
14	Fe/Co Double Hydroxide/Oxide Nanoparticles on N-Doped CNTs as Highly Efficient Electrocatalyst for Rechargeable Liquid and Quasi-Solid-State Zinc ^{Air} Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801836.	10.2	94
15	Exploring Indium-Based Ternary Thiospinel as Conceivable High-Potential Air-Cathode for Rechargeable Zn ^{Air} Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802263.	10.2	248
16	N,S-Atom-coordinated Co ₉ S ₈ ternary dopants within a porous graphene framework as efficient catalysts for oxygen reduction/evolution reactions. <i>Dalton Transactions</i> , 2018, 47, 14992-15001.	1.6	37
17	Finite-Element Analysis on Percolation Performance of Foam Zinc. <i>ACS Omega</i> , 2018, 3, 11018-11025.	1.6	2
18	Enhanced performance of multi-dimensional CoS nanoflake/NiO nanosheet architecture with synergetic effect for asymmetric supercapacitor. <i>Nanotechnology</i> , 2018, 29, 455401.	1.3	28
19	Ultrafine Pt Nanoparticle-Decorated Pyrite-Type CoS ₂ Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1800935.	10.2	286

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21	Atomic Fe ^x Coupled Open Mesoporous Carbon Nanofibers for Efficient and Bioadaptable Oxygen Electrode in Mg ⁺ Air Batteries. <i>Advanced Materials</i> , 2018, 30, e1802669.	11.1	128
22	In Situ Electrodeposition of Cobalt Sulfide Nanosheet Arrays on Carbon Cloth as a Highly Efficient Bifunctional Electrocatalyst for Oxygen Evolution and Reduction Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30433-30440.	4.0	69
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24	Metal ⁺ Air Batteries: From Static to Flow System. <i>Advanced Energy Materials</i> , 2018, 8, 1801396.	10.2	156
25	Realizing large-scale and controllable fabrication of active cobalt oxide nanorod catalysts for zinc-air battery. <i>Chemical Engineering Science</i> , 2019, 194, 127-133.	1.9	21
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27	Redox-Inert Fe ³⁺ Ions in Octahedral Sites of Co ⁺ Fe Spinel Oxides with Enhanced Oxygen Catalytic Activity for Rechargeable Zinc ⁺ Air Batteries. <i>Angewandte Chemie</i> , 2019, 131, 13425-13430.	1.6	119
28	Self-Catalyzed Growth of Co, N-Codoped CNTs on Carbon-Encased CoS _x Surface: A Noble-Metal-Free Bifunctional Oxygen Electrocatalyst for Flexible Solid Zn ⁺ Air Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1904481.	7.8	217
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30	Redox-Inert Fe ³⁺ Ions in Octahedral Sites of Co ⁺ Fe Spinel Oxides with Enhanced Oxygen Catalytic Activity for Rechargeable Zinc ⁺ Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13291-13296.	7.2	355
31	Nanostructured Co-based bifunctional electrocatalysts for energy conversion and storage: current status and perspectives. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18674-18707.	5.2	277
32	Mn-Doped Co ⁺ N ⁺ C Dodecahedron as a Bifunctional Electrocatalyst for Highly Efficient Zn ⁺ Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14180-14188.	3.2	78
33	CuCo ₂ S ₄ Nanosheets@N-Doped Carbon Nanofibers by Sulfurization at Room Temperature as Bifunctional Electrocatalysts in Flexible Quasi-Solid State Zn ⁺ Air Batteries. <i>Advanced Science</i> , 2019, 6, 1900628.	5.6	123
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35	Photoinduced Oxygen Reduction Reaction Boosts the Output Voltage of a Zinc ⁺ Air Battery. <i>Angewandte Chemie</i> , 2019, 131, 12590-12594.	1.6	33
36	Toward Flexible and Wearable Zn ⁺ Air Batteries from Cotton Textile Waste. <i>ACS Omega</i> , 2019, 4, 19341-19349.	1.6	21
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40	Investigation of the Environmental Stability of Poly(vinyl alcohol)-KOH Polymer Electrolytes for Flexible Zinc-Air Batteries. <i>Frontiers in Chemistry</i> , 2019, 7, 678.	1.8	32
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42	Monolithic heteronanomat paper air cathodes toward origami-foldable/rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24231-24238.	5.2	27
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50	Electrode Materials for Rechargeable Zinc-Ion and Zinc-Air Batteries: Current Status and Future Perspectives. <i>Electrochemical Energy Reviews</i> , 2019, 2, 395-427.	13.1	122
51	The surface engineering of cobalt carbide spheres through N, B co-doping achieved by room-temperature <i>in situ</i> anchoring effects for active and durable multifunctional electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14904-14915.	5.2	88
52	Mesoporous Decoration of Freestanding Palladium Nanotube Arrays Boosts the Electrocatalysis Capabilities toward Formic Acid and Formate Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1900955.	10.2	72
53	All-solid-state sponge-like squeezable zinc-air battery. <i>Energy Storage Materials</i> , 2019, 23, 375-382.	9.5	47
54	Rational design of multifunctional air electrodes for rechargeable Zn-Air batteries: Recent progress and future perspectives. <i>Energy Storage Materials</i> , 2019, 21, 253-286.	9.5	171
55	Charge redistribution of Co on cobalt (II) oxide surface for enhanced oxygen evolution electrocatalysis. <i>Nano Energy</i> , 2019, 61, 267-274.	8.2	35

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57	Hollow Nanocages of NiCo _{1-x} Se for Efficient Zinc-Air Batteries and Overall Water Splitting. <i>Nano-Micro Letters</i> , 2019, 11, 28.	14.4	63
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59	Methacrylated gelatin-embedded fabrication of 3D graphene-supported Co ₃ O ₄ nanoparticles for water splitting. <i>Nanoscale</i> , 2019, 11, 6866-6875.	2.8	13
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61	Nonsiliceous Mesoporous Materials: Design and Applications in Energy Conversion and Storage. <i>Small</i> , 2019, 15, 1805277.	5.2	13
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63	Phase-Transited Lysozyme-Driven Formation of Self-Supported Co ₃ O ₄ @C Nanomeshes for Overall Water Splitting. <i>Advanced Science</i> , 2019, 6, 1900272.	5.6	95
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70	Alveolate porous carbon aerogels supported Co ₉ S ₈ derived from a novel hybrid hydrogel for bifunctional oxygen electrocatalysis. <i>Carbon</i> , 2019, 144, 557-566.	5.4	177
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73	Nitrogen-doped Carbon-Co Nanohybrids: A Precious Metal Free Cathode that Exceeds 1.0 W cm ⁻² Peak Power and 100 h Life in Anion-Exchange Membrane Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1046-1051.		117

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101	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. <i>Batteries and Supercaps</i> , 2020, 3, 1262-1274.	2.4	53
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132	Quasi-solid-state fiber-shaped aqueous energy storage devices: recent advances and prospects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6406-6433.	5.2	47
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135	Hierarchically structured Co ₃ O ₄ /SiO ₂ composites by Co nanocrystals transformation. <i>Chemical Physics Letters</i> , 2020, 740, 137068.	1.2	2
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