

Metallenes as functional materials in electrocatalysis

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Citation Report

#	ARTICLE	IF	CITATIONS
1	N- and O-doped hollow carbons constructed by self- and extrinsic activation for the oxygen reduction reaction and flexible zinc-air Batteries. <i>Nanoscale</i> , 2021, 13, 16296-16306.	5.6	13
2	Surface plasmon-polariton triggering of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene catalytic activity for hydrogen evolution reaction enhancement. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17770-17779.	10.3	20
3	Pd nanoparticles loaded onto a TiO_2/C heterostructure via a photochemical strategy for efficient oxygen reduction reaction. <i>New Journal of Chemistry</i> , 0, .	2.8	2
4	Construction of nitrogen-doped porous carbon nanosheets decorated with Fe_4N and iron oxides by a biomass coordination strategy for efficient oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2021, 45, 14570-14579.	2.8	6
5	Natural DNA-assisted RuP_2 on highly graphitic N,P-codoped carbon for pH-wide hydrogen evolution. <i>Chemical Communications</i> , 2021, 57, 7284-7287.	4.1	15
6	Ultrathin CuNi Nanosheets for CO_2 Reduction and O_2 Reduction Reaction in Fuel Cells. , 2021, 3, 1143-1150.		23
7	Edge-Rich Reduced Graphene Oxide Embedded in Silica-Based Laminated Ceramic Composites for Efficient and Robust Electrocatalytic Hydrogen Evolution. <i>Small Methods</i> , 2021, 5, e2100621.	8.6	5
8	Synthesis of Ultrasmall NiCo_2O_4 Nanoparticle-Decorated N-Doped Graphene Nanosheets as an Effective Catalyst for Zn-Air Batteries. <i>Energy & Fuels</i> , 2021, 35, 14188-14196.	5.1	22
9	Anchoring Fe-N-C Sites on Hierarchically Porous Carbon Sphere and CNT Interpenetrated Nanostructures as Efficient Cathodes for Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41609-41618.	8.0	23
10	Quasi-Two-Dimensional Earth-Abundant Bimetallic Electrocatalysts for Oxygen Evolution Reactions. <i>ACS Energy Letters</i> , 2021, 6, 3367-3375.	17.4	29
11	Emerging two-dimensional nanocatalysts for electrocatalytic hydrogen production. <i>Chinese Chemical Letters</i> , 2022, 33, 1831-1840.	9.0	67
12	Enhanced electrochemical performance in microbial fuel cell with carbon nanotube/ NiCoAl -layered double hydroxide nanosheets as air-cathode. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 36466-36476.	7.1	19
13	In-situ template formation method to synthesize hierarchically porous carbon for electrocatalytic reduction of 4-nitrophenol. <i>Carbon</i> , 2021, 184, 596-608.	10.3	15
14	Carbon nitride-supported CuCeO_2 composites derived from bimetal MOF for efficiently electrocatalytic nitrogen fixation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35319-35329.	7.1	12
15	$\text{Co-Co}_3\text{O}_4$ nanostructure with nitrogen-doped carbon as bifunctional catalyst for oxygen electrocatalysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34701-34712.	7.1	15
16	A rechargeable zinc-air battery with decoupled metal oxidation and oxygen reduction reactions. <i>Journal of Power Sources</i> , 2021, 510, 230375.	7.8	2
17	Cobalt tetrakisphosphate as an efficient bifunctional electrocatalyst for hybrid sodium-air batteries. <i>Nano Energy</i> , 2021, 89, 106485.	16.0	11
18	Mott-Schottky heterojunction of $\text{Co/Co}_2\text{P}$ with built-in electric fields for bifunctional oxygen electrocatalysis and zinc-air battery. <i>Chemical Engineering Journal</i> , 2021, 425, 131589.	12.7	79

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19	Energetic MOF-derived cobalt/iron nitrides embedded into N, S-codoped carbon nanotubes as superior bifunctional oxygen catalysts for Zn–air batteries. <i>Applied Surface Science</i> , 2021, 569, 151030.	6.1	17
20	Transition metal and phosphorus co-doping induced lattice strain in mesoporous Rh-based nanospheres for pH-universal hydrogen evolution electrocatalysis. <i>Chemical Engineering Journal</i> , 2021, 426, 131227.	12.7	23
21	Architecture control and electronic structure engineering over Ni-based nitride nanocomposite for boosting ammonia borane dehydrogenation. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120523.	20.2	42
22	Motivating high-valence Nb doping by fast molten salt method for NiFe hydroxides toward efficient oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2022, 427, 131643.	12.7	78
23	Tin-based metal-phosphine complexes nanoparticles as long-cycle life electrodes for high-performance hybrid supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 148-157.	9.4	8
24	Cobalt-doped basic iron phosphate as bifunctional electrocatalyst for long-life and high-power-density rechargeable zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120712.	20.2	43
25	<i>In situ</i> coupling of Ag nanoparticles with high-entropy oxides as highly stable bifunctional catalysts for wearable Zn–Ag/Zn–air hybrid batteries. <i>Nanoscale</i> , 2021, 13, 16164-16171.	5.6	18
26	Graphene-Supported Atomically Dispersed Metals as Bifunctional Catalysts for Next-Generation Batteries Based on Conversion Reactions. <i>Advanced Materials</i> , 2022, 34, e2105812.	21.0	106
27	Recent advances in Ni ₃ S ₂ -based electrocatalysts for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 39146-39182.	7.1	78
28	Supramolecular-induced 2.40–130 °C working-temperature-range supercapacitor aqueous electrolyte of lithium bis(trifluoromethanesulfonyl) imide in dimethyl sulfoxide-water. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1162-1172.	9.4	12
29	Hydrothermal growth of pompon-like manganese oxide microspheres with embedded nickel ions as single-atom catalysts for urea oxidation. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162515.	5.5	14
30	Recent advances in structural engineering of 2D hexagonal boron nitride electrocatalysts. <i>Nano Energy</i> , 2022, 91, 106661.	16.0	49
31	Integrated 3D Open Network of Interconnected Bismuthene Arrays for Energy-Efficient and Electrosynthesis-Assisted Electrocatalytic CO ₂ Reduction. <i>Small</i> , 2022, 18, e2105246.	10.0	36
32	Translational dependence of the geometry of metallic mono- and bilayers optimized on semi-ionic supports: the cases of Pd on [3-Al ₂ O ₃ (110), monoclinic ZrO ₂ (001), and rutile TiO ₂ (001). <i>CrystEngComm</i> , 2021, 24, 143-155.	2.6	2
33	Fe,N-modulated carbon fibers aerogel as freestanding cathode catalyst for rechargeable Zn–Air battery. <i>Carbon</i> , 2022, 187, 196-206.	10.3	31
34	Ligand-Mediated Self-Terminating Growth of Single-Atom Pt on Au Nanocrystals for Improved Formic Acid Oxidation Activity. <i>Advanced Energy Materials</i> , 2022, 12, 2103195.	19.5	17
35	Ordered macroporous design of sacrificial Co/VN nano-heterojunction as bifunctional oxygen electrocatalyst for rechargeable zinc-air batteries. <i>Chemical Engineering Journal</i> , 2022, 433, 133509.	12.7	29
36	Constructing a Hetero-interface Composed of Oxygen Vacancy-Enriched Co ₃ O ₄ and Crystalline–Amorphous NiFe-LDH for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2021, 11, 14338-14351.	11.2	134

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37	Electronic Interaction between In Situ Formed RuO ₂ Clusters and a Nanoporous Zn ₃ V ₃ O ₈ Support and Its Use in the Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2021, 13, 54951-54958.	8.0	7
38	Tuning oxygen vacancies in spinel nanosheets for binder-free oxygen cathodes with superior catalytic activity in zinc-air batteries. Journal of Power Sources, 2022, 521, 230918.	7.8	16
39	Hierarchical ultrathin NiFe-borate layered double hydroxide nanosheets encapsulated into biomass-derived nitrogen-doped carbon for efficient electrocatalytic oxygen evolution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 635, 128092.	4.7	6
40	Interfacial engineered PdRu/C with robust poison tolerance for oxygen reduction reaction and zinc-air battery. Journal of Alloys and Compounds, 2022, 896, 163112.	5.5	3
41	Engineering Gd ₂ O ₃ -Ni heterostructure for efficient oxygen reduction electrocatalysis via the electronic reconfiguration and adsorption optimization of intermediates. Chemical Engineering Journal, 2022, 433, 134597.	12.7	13
42	Restricted diffusion preparation of fully-exposed Fe single-atom catalyst on carbon nanospheres for efficient oxygen reduction reaction. Applied Catalysis B: Environmental, 2022, 305, 121058.	20.2	42
43	Multiple roles of graphene in electrocatalysts for metal-air batteries. Catalysis Today, 2023, 409, 2-22.	4.4	12
44	Group 6 transition metal-based molecular complexes for sustainable catalytic CO ₂ activation. Catalysis Science and Technology, 2022, 12, 390-408.	4.1	8
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46	Interface engineering of polyaniline-functionalized porous Pd metallene for alkaline oxygen reduction reaction. Applied Catalysis B: Environmental, 2022, 307, 121172.	20.2	82
47	Hollow iron carbides via nanoscale Kirkendall cavitation process for zinc-air batteries. Applied Surface Science, 2022, 585, 152569.	6.1	9
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49	Green fabrication of Au and Pd decorated Fe nanocomposites for hydrogen peroxide detection. Journal of Environmental Chemical Engineering, 2022, 10, 107376.	6.7	2
50	Nitrogen doped carbon encapsulated hierarchical NiMoN as highly active and durable HER electrode for repeated ON/OFF water electrolysis. Chemical Engineering Journal, 2022, 436, 134931.	12.7	23
51	Triple-phase oxygen electrocatalysis of hollow spherical structures for rechargeable Zn-Air batteries. Applied Catalysis B: Environmental, 2022, 307, 121190.	20.2	46
52	Co@NCNT nanohybrid as a highly active catalyst for the electroreduction of nitrate to ammonia. Chemical Communications, 2022, 58, 3787-3790.	4.1	15
53	Ultrathin two-dimensional metallenes for heterogeneous catalysis. Chem Catalysis, 2022, 2, 693-723.	6.1	39
54	Coupling of N-doped Mesoporous Carbon and Ni ₃ C ₂ in 2D Sandwiched Heterostructure for Enhanced Oxygen Electroreduction. Small, 2022, 18, e2106581.	10.0	14

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55	Nanostructured Transition Metal Nitrides as Emerging Electrocatalysts for Water Electrolysis: Status and Challenges. <i>EnergyChem</i> , 2022, 4, 100072.	19.1	55
56	Constructing partially amorphous borate doped iron-nickel nitrate hydroxide nanoarrays by rapid microwave activation for oxygen evolution. <i>Applied Surface Science</i> , 2022, 592, 153245.	6.1	6
57	Interstitial boron-triggered electron-deficient Os aerogels for enhanced pH-universal hydrogen evolution. <i>Nature Communications</i> , 2022, 13, 1143.	12.8	152
58	Synthesis of Alloyed Pd ⁺ Pb Nanowire Networks for Electrocatalytic Ethanol Oxidation with High Stability. <i>ChemNanoMat</i> , 0, , .	2.8	1
59	One-Pot Aqueous Synthesis of Porous Hollow PdCu Alloy Nanoparticles for Enhanced Ethanol Electrooxidation. <i>Inorganic Chemistry</i> , 2022, 61, 5474-5478.	4.0	11
60	Co2P nanoparticles supported on cobalt-embedded N-doped carbon materials as a bifunctional electrocatalyst for rechargeable Zn-air batteries. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 16518-16527.	7.1	9
61	3D hierarchical porous carbon from fulvic acid biomass for high energy density supercapacitor with high withstanding voltage. <i>Journal of Power Sources</i> , 2022, 533, 231413.	7.8	18
62	In situ confinement of iron-based active sites within high porosity carbon frameworks with enhanced activity for rechargeable Zn ⁺ air battery. <i>Materials Today Chemistry</i> , 2022, 24, 100844.	3.5	2
63	In-situ single-phase derived NiCoP/CoP hetero-nanoparticles on aminated-carbon nanotubes as highly efficient pH-universal electrocatalysts for hydrogen evolution. <i>Electrochimica Acta</i> , 2022, 416, 140280.	5.2	11
64	Tailoring the stability of Fe-N-C via pyridinic nitrogen for acid oxygen reduction reaction. <i>Chemical Engineering Journal</i> , 2022, 437, 135320.	12.7	48
65	Energetic MOF-derived hollow carbon tubes with interconnected channels and encapsulated nickel-cobalt alloy sites as bifunctional catalysts for Zn ⁺ air batteries with stable cycling over 600 cycles. <i>Applied Surface Science</i> , 2022, 591, 153070.	6.1	10
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67	Defect-rich low-crystalline Rh metallene for efficient chlorine-free H ₂ production by hydrazine-assisted seawater splitting. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121338.	20.2	75
68	Sandwich-like high-load MXene/polyaniline film electrodes with ultrahigh volumetric capacitance for flexible supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 35-46.	9.4	27
69	Enhanced Electrocatalytic Oxidation of Small Organic Molecules on Platinum-Gold Nanowires: Influence of the Surface Structure and Pt-Pt/Pt-Au Pair Site Density. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59892-59903.	8.0	7
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71	Porous PdWM (M = Nb, Mo and Ta) Trimetallene for High C ₁ Selectivity in Alkaline Ethanol Oxidation Reaction. <i>Advanced Science</i> , 2022, 9, e2103722.	11.2	41
72	Nickel and Nitrogen-Doped Bifunctional ORR and HER Electrocatalysts Derived from CO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 134-145.	6.7	18

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74	MXene Analogue: A 2D Nitridene Solid Solution for High-Rate Hydrogen Production. Angewandte Chemie - International Edition, 2022, 61, .	13.8	56
75	Co and Co ₉ S ₈ nanoparticles uniformly embedded in S, N-doped porous carbon as electrocatalysts for rechargeable zinc-air batteries. Journal of Materials Research and Technology, 2022, 18, 3764-3776.	5.8	11
76	PdFe Single-Atom Alloy Metallene for N ₂ Electroreduction. Angewandte Chemie, 2022, 134, .	2.0	69
77	PdFe Single-Atom Alloy Metallene for N ₂ Electroreduction. Angewandte Chemie - International Edition, 2022, 61, e202205923.	13.8	97
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79	Flower-like MOF-74 nanocomposites directed by selenylation towards high-efficient oxygen evolution. Journal of Colloid and Interface Science, 2022, 623, 552-560.	9.4	15
80	Dual-template induced multi-scale porous Fe@FeNC oxygen reduction catalyst for high-performance electrochemical devices. Chemical Engineering Journal, 2022, 445, 136628.	12.7	13
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83	In Situ Reconstruction of Partially Hydroxylated Porous Rh Metallene for Ethylene Glycol-Assisted Seawater Splitting. Advanced Functional Materials, 2022, 32, .	14.9	57
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85	Recent status and challenges in multifunctional electrocatalysis based on 2D MXenes. Catalysis Science and Technology, 2022, 12, 4413-4441.	4.1	16
86	Ordered Mesoporous Intermetallic Trimetals for Efficient and pH-Universal Hydrogen Evolution Electrocatalysis. Advanced Energy Materials, 2022, 12, .	19.5	36
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88	Facile construction of a highly dispersed PdCo nanocatalyst supported on NH ₂ -UiO-66-derived N/O co-doped carbon for hydrogen evolution from formic acid. Materials Today Chemistry, 2022, 24, 101001.	3.5	1
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95	Boron-Interkalation-Induced Phase Evolution of Rh Metallene for Energy-Saving H ₂ Production by H ₂ O ₂ Oxidation Coupled with Water Electrolysis. Small, 2022, 18, .	10.0	23
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97	Single Nb atom modified anatase TiO ₂ (110) for efficient electrocatalytic nitrogen reduction reaction. Chem Catalysis, 2022, 2, 2275-2288.	6.1	18
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99	Ultrathin porous Pd metallene as highly efficient oxidase mimics for colorimetric analysis. Journal of Colloid and Interface Science, 2022, 626, 296-304.	9.4	20
100	Borate narrowed band gap of nickel-iron layer double hydroxide to mediate rapid reconstruction kinetics for water oxidation. Applied Catalysis B: Environmental, 2022, 317, 121713.	20.2	42
101	PBA-derived FeCo alloy with core-shell structure embedded in 2D N-doped ultrathin carbon sheets as a bifunctional catalyst for rechargeable Zn-air batteries. Applied Catalysis B: Environmental, 2022, 316, 121687.	20.2	50
102	Interfacial electron modulation of Cu ₂ O by Co ₃ O ₄ embedded in hollow carbon cube skeleton for boosting oxygen reduction/evolution reactions. Chemical Engineering Journal, 2022, 450, 137961.	12.7	12
103	Amorphous-crystalline PdRu bimetallic for efficient hydrogen evolution electrocatalysis. Chemical Communications, 2022, 58, 9226-9229.	4.1	11
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105	Dense Heterointerfaces and Unsaturated Coordination Synergistically Accelerate Electrocatalysis in Pt/Pt ₅ P ₂ Porous Nanocages. Advanced Functional Materials, 2022, 32, .	14.9	23
106	Atomically Reconstructed Palladium Metallene by Intercalation-Induced Lattice Expansion and Amorphization for Highly Efficient Electrocatalysis. ACS Nano, 2022, 16, 13715-13727.	14.6	64
107	Processable Conjugated Microporous Polymer Gels and Monoliths: Fundamentals and Versatile Applications. ACS Applied Materials & Interfaces, 2022, 14, 39701-39726.	8.0	11
108	Dual electronic effects achieving a high-performance Ni(II) pincer catalyst for CO ₂ photoreduction in a noble-metal-free system. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	9

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110	A systematic review on recent advances of metal-organic frameworks-based nanomaterials for electrochemical energy storage and conversion. <i>Coordination Chemistry Reviews</i> , 2022, 471, 214741.	18.8	24
111	MOF-derived Co/Co ₃ O ₄ /C hollow structural composite as an efficient electrocatalyst for hydrogen evolution reaction. <i>Fuel</i> , 2022, 329, 125468.	6.4	16
112	NaCl-assisted pyrolysis to construct low metal content multiple-doped 3D porous carbon as oxygen reduction electrocatalysts for Zn-air battery. <i>Journal of Alloys and Compounds</i> , 2022, 926, 166777.	5.5	10
113	Structure optimization of ZIF-12-derived Co-N-C for efficient oxygen reduction and oxygen evolution. <i>Fuel</i> , 2022, 330, 125516.	6.4	6
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117	Electronic coupling interaction between Pd and WO ₃ nanoparticles for accelerating electro-oxidation reaction toward ethanol. <i>Journal of Alloys and Compounds</i> , 2022, 927, 166922.	5.5	4
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121	Interstitial Carbon-Doped PdMo Bimetallic for High-Performance Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , 2022, 7, 3329-3336.	17.4	24
123	Dimension Engineering in Noble-Metal-Based Electrocatalysts for Water Splitting. <i>Chemical Record</i> , 2023, 23, .	5.8	3
124	Few-atom-layer metallene quantum dots toward CO ₂ electroreduction at ampere-level current density and Zn-CO ₂ battery. <i>Chem Catalysis</i> , 2022, 2, 3528-3545.	6.1	9
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126	Rh metallene with functionalized polypyrrole surface for hydrogen evolution over a wide pH range. <i>Nanotechnology</i> , 2023, 34, 045402.	2.6	2
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129	Emerging two-dimensional metallenes: Recent advances in structural regulations and electrocatalytic applications. <i>Chinese Journal of Catalysis</i> , 2022, 43, 2802-2814.	14.0	9
130	Pd-Based Metallenes for Fuel Cell Reactions. <i>Chemical Record</i> , 2023, 23, .	5.8	10
131	Atomically thin bismuthene nanosheets for sensitive electrochemical determination of heavy metal ions. <i>Analytica Chimica Acta</i> , 2022, 1235, 340510.	5.4	12
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136	Metallene-related materials for electrocatalysis and energy conversion. <i>Materials Horizons</i> , 2023, 10, 407-431.	12.2	13
137	Activation-induced layered structure in NiCoAl by atomic modulation for energy storage application. <i>Materials Today Chemistry</i> , 2023, 27, 101265.	3.5	1
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141	Pd Metallene Aerogels with Single-Atom W Doping for Selective Ethanol Oxidation. <i>ACS Nano</i> , 2022, 16, 21266-21274.	14.6	28
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