

Iridium-Based Multimetallic Porous Hollow Nanocrystals for Overall Water Splitting Catalysis

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Ultrasmall Ir nanoparticles for efficient acidic electrochemical water splitting. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1121-1125.	3.0	49
2	Atomic Iridium Incorporated in Cobalt Hydroxide for Efficient Oxygen Evolution Catalysis in Neutral Electrolyte. <i>Advanced Materials</i> , 2018, 30, e1707522.	11.1	247
3	Electrochemically Activated Iridium Oxide Black as Promising Electrocatalyst Having High Activity and Stability for Oxygen Evolution Reaction. <i>ACS Energy Letters</i> , 2018, 3, 1110-1115.	8.8	48
4	MOF-Templated Fabrication of Hollow Co ₄ N@N-Doped Carbon Porous Nanocages with Superior Catalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7191-7200.	4.0	130
5	Anion-Regulated Hydroxysulfide Monoliths as OER/ORR/HER Electrocatalysts and their Applications in Self-Powered Electrochemical Water Splitting. <i>Small Methods</i> , 2018, 2, 1800055.	4.6	91
6	Colloidal Synthesis of Mo-Ni Alloy Nanoparticles as Bifunctional Electrocatalysts for Efficient Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800359.	1.9	42
7	Preparation of Hollow Nitrogen Doped Carbon via Stresses Induced Orientation Contraction. <i>Small</i> , 2018, 14, e1804183.	5.2	83
8	Efficient oxygen evolution electrocatalysis in acid by a perovskite with face-sharing IrO ₆ octahedral dimers. <i>Nature Communications</i> , 2018, 9, 5236.	5.8	325
9	Modulating the Volmer Step by MOF Derivatives Assembled with Heterogeneous Ni ₂ P-CoP Nanocrystals in Alkaline Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2018, 165, F1286-F1291.	1.3	13
10	Graphene layers-wrapped FeNiP nanoparticles embedded in nitrogen-doped carbon nanofiber as an active and durable electrocatalyst for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2018, 290, 649-656.	2.6	59
11	Anchoring of IrO ₂ on One-Dimensional Co ₃ O ₄ Nanorods for Robust Electrocatalytic Water Splitting in an Acidic Environment. <i>ACS Applied Energy Materials</i> , 2018, 1, 6374-6380.	2.5	20
12	Highly Efficient Acidic Oxygen Evolution Electrocatalysis Enabled by Porous Ir-Cu Nanocrystals with Three-Dimensional Electrocatalytic Surfaces. <i>Chemistry of Materials</i> , 2018, 30, 8571-8578.	3.2	75
13	Hollow Bimetallic Zinc Cobalt Phosphosulfides for Efficient Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2019, 25, 621-626.	1.7	29
14	Ir/g-C ₃ N ₄ /Nitrogen-Doped Graphene Nanocomposites as Bifunctional Electrocatalysts for Overall Water Splitting in Acidic Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39161-39167.	4.0	80
15	Boosted Performance of Ir Species by Employing TiN as the Support toward Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38117-38124.	4.0	100
16	Hierarchical Cobalt Borate/MXenes Hybrid with Extraordinary Electrocatalytic Performance in Oxygen Evolution Reaction. <i>ChemSusChem</i> , 2018, 11, 3758-3765.	3.6	66
17	Scalable Solid-State Synthesis of Highly Dispersed Uncapped Metal (Rh, Ru, Ir) Nanoparticles for Efficient Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2018, 8, 1801698.	10.2	149
18	Necklace-like Multishelled Hollow Spinel Oxides with Oxygen Vacancies for Efficient Water Electrolysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 13644-13653.	6.6	430

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19	Iridium–Tungsten Alloy Nanodendrites as pH-Universal Water-Splitting Electrocatalysts. ACS Central Science, 2018, 4, 1244-1252.	5.3	196
20	Design of Palladium-Doped C_3N_4 for Enhanced Photocatalytic Activity toward Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2018, 1, 2866-2873.	2.5	76
21	Cost-Effective Vertical Carbon Nanosheets/Iron-Based Composites as Efficient Electrocatalysts for Water Splitting Reaction. Chemistry of Materials, 2018, 30, 4762-4769.	3.2	48
22	Highly active and dual-function self-supported multiphase $\text{Ni}_2\text{Ni}_3\text{S}_2/\text{NF}$ electrodes for overall water splitting. Journal of Materials Chemistry A, 2018, 6, 14207-14214.	5.2	91
23	Nanovoid Incorporated Ir_xCu Metallic Aerogels for Oxygen Evolution Reaction Catalysis. ACS Energy Letters, 2018, 3, 2038-2044.	8.8	129
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25	In Situ “Chainmail Catalyst” Assembly in Low Tortuosity, Hierarchical Carbon Frameworks for Efficient and Stable Hydrogen Generation. Advanced Energy Materials, 2018, 8, 1801289.	10.2	79
26	An IrRu alloy nanocactus on $\text{Cu}_2\text{S}@\text{IrS}_y$ as a highly efficient bifunctional electrocatalyst toward overall water splitting in acidic electrolytes. Journal of Materials Chemistry A, 2018, 6, 16130-16138.	5.2	58
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32	Mesoporous Metallic Iridium Nanosheets. Journal of the American Chemical Society, 2018, 140, 12434-12441.	6.6	345
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35	Effect of Ru crystal phase on the catalytic activity of hydrolytic dehydrogenation of ammonia borane. Journal of Power Sources, 2018, 396, 148-154.	4.0	34
36	Facile Synthesis of IrCu Microspheres Based on Polyol Method and Study on Their Electro-Catalytic Performances to Oxygen Evolution Reaction. Nanomaterials, 2019, 9, 1145.	1.9	10

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37	Graphitic carbon nitride nanostructures: Catalysis. <i>Applied Materials Today</i> , 2019, 16, 388-424.	2.3	58
38	Low-coordinate Iridium Oxide Confined on Graphitic Carbon Nitride for Highly Efficient Oxygen Evolution. <i>Angewandte Chemie</i> , 2019, 131, 12670-12674.	1.6	15
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41	Nitrogen-doped Graphene Chainmail Wrapped IrCo Alloy Particles on Nitrogen-doped Graphene Nanosheet for Highly Active and Stable Full Water Splitting. <i>ChemCatChem</i> , 2019, 11, 5457-5465.	1.8	20
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43	Design of Multi-Metallic-Based Electrocatalysts for Enhanced Water Oxidation. <i>ChemPhysChem</i> , 2019, 20, 2936-2945.	1.0	48
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45	Interconnected phosphorus-doped CoO-nanoparticles nanotube with three-dimensional accessible surface enables high-performance electrochemical oxidation. <i>Nano Energy</i> , 2019, 66, 104194.	8.2	35
46	Donutlike RuCu Nanoalloy with Ultrahigh Mass Activity for Efficient and Robust Oxygen Evolution in Acid Solution. <i>ACS Applied Energy Materials</i> , 2019, 2, 7483-7489.	2.5	23
47	Regulating Electrocatalysts via Surface and Interface Engineering for Acidic Water Electrooxidation. <i>ACS Energy Letters</i> , 2019, 4, 2719-2730.	8.8	218
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49	Rapid, High-Temperature, In Situ Microwave Synthesis of Bulk Nanocatalysts. <i>Small</i> , 2019, 15, e1904881.	5.2	28
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53	Insights into Compositional and Structural Effects of Bimetallic Hollow Mesoporous Nanospheres toward Ethanol Oxidation Electrocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5490-5498.	2.1	38
54	Iridium on vertical graphene as an all-round catalyst for robust water splitting reactions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20590-20596.	5.2	61

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56	Trifunctional Fishbone-like PtCo/Ir Enables High-Performance Zinc-Air Batteries to Drive the Water-Splitting Catalysis. <i>Chemistry of Materials</i> , 2019, 31, 8136-8144.	3.2	55
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61	One-pot synthesis of copper-nickel sulfide nanowires for overall water splitting in alkaline media. <i>Chemical Communications</i> , 2019, 55, 8154-8157.	2.2	34
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63	General Electron-Assisted Strategy for Ir, Pt, Ru, Pd, Fe, Ni Single-Atom Electrocatalysts with Bifunctional Active Sites for Highly Efficient Water Splitting. <i>Angewandte Chemie</i> , 2019, 131, 11994-11999.	1.6	28
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70	A promising engineering strategy for water electro-oxidation iridate catalysts <i>via</i> coordination distortion. <i>Chemical Communications</i> , 2019, 55, 5801-5804.	2.2	24
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74	Iridium-Based Cubic Nanocages with 1.1-nm-Thick Walls: A Highly Efficient and Durable Electrocatalyst for Water Oxidation in an Acidic Medium. Angewandte Chemie - International Edition, 2019, 58, 7244-7248.	7.2	89
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84	3D nanoporous iridium-based alloy microwires for efficient oxygen evolution in acidic media. Nano Energy, 2019, 59, 146-153.	8.2	134
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106	Multimetal Borides Nanochains as Efficient Electrocatalysts for Overall Water Splitting. Small, 2019, 15, e1804212.	5.2	135
107	Ir-Based Alloy Nanoflowers with Optimized Hydrogen Binding Energy as Bifunctional Electrocatalysts for Overall Water Splitting. Small Methods, 2020, 4, 1900129.	4.6	93
108	Hierarchical iridium-based multimetallic alloy with double-core-shell architecture for efficient overall water splitting. Science China Materials, 2020, 63, 249-257.	3.5	59

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116	Amorphous WO ₃ induced lattice distortion for a low-cost and high-efficient electrocatalyst for overall water splitting in acid. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1712-1722.	2.5	14
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138	Ultra-thin layers of iridium electrodeposited on Ti ₂ AlC support as cost effective catalysts for hydrogen production by water electrolysis. Journal of Electroanalytical Chemistry, 2020, 878, 114575.	1.9	9
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