

Ni₂P as a Janus catalyst for water splitting:
Ni₂P nanoparticles

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Citation Report

#	ARTICLE	IF	CITATIONS
50	Self-Supported Cobalt Phosphide Mesoporous Nanorod Arrays: A Flexible and Bifunctional Electrode for Highly Active Electrocatalytic Water Reduction and Oxidation. <i>Advanced Functional Materials</i> , 2015, 25, 7337-7347.	7.8	688
51	Electrodeposited Ni-P Alloy Nanoparticle Films for Efficiently Catalyzing Hydrogen and Oxygen Evolution Reactions. <i>ChemNanoMat</i> , 2015, 1, 558-561.	1.5	80
52	Multifunctional Coatings from Scalable Single Source Precursor Chemistry in Tandem Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2015, 5, 1501668.	10.2	73
53	A Flexible Electrode Based on Iron Phosphide Nanotubes for Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2015, 21, 18062-18067.	1.7	228
54	Ultrafine CoP Nanoparticles Supported on Carbon Nanotubes as Highly Active Electrocatalyst for Both Oxygen and Hydrogen Evolution in Basic Media. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28412-28419.	4.0	187
55	Surface Oxidized Cobalt-Phosphide Nanorods As an Advanced Oxygen Evolution Catalyst in Alkaline Solution. <i>ACS Catalysis</i> , 2015, 5, 6874-6878.	5.5	441
56	Self-supported NiMo hollow nanorod array: an efficient 3D bifunctional catalytic electrode for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20056-20059.	5.2	218
57	Self-assembled IrO ₂ nanoparticles on a DNA scaffold with enhanced catalytic and oxygen evolution reaction (OER) activities. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24463-24478.	5.2	133
58	Porous Nickel-Iron Selenide Nanosheets as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19386-19392.	4.0	284
59	Efficient Water Splitting Catalyzed by Cobalt Phosphide-Based Nanoneedle Arrays Supported on Carbon Cloth. <i>ChemSusChem</i> , 2016, 9, 472-477.	3.6	185
60	Phase Transformation Engineering in Cobalt Diselenide Realizing Enhanced Catalytic Activity for Hydrogen Evolution in an Alkaline Medium. <i>Advanced Materials</i> , 2016, 28, 7527-7532.	11.1	307
61	Bifunctional Nickel Phosphide Nanocatalysts Supported on Carbon Fiber Paper for Highly Efficient and Stable Overall Water Splitting. <i>Advanced Functional Materials</i> , 2016, 26, 4067-4077.	7.8	591
62	Hierarchical NiCo ₂ S ₄ Nanowire Arrays Supported on Ni Foam: An Efficient and Durable Bifunctional Electrocatalyst for Oxygen and Hydrogen Evolution Reactions. <i>Advanced Functional Materials</i> , 2016, 26, 4661-4672.	7.8	1,204
63	Strongly-Coupled Cobalt Borate Nanosheets/Graphene Hybrid as Electrocatalyst for Water Oxidation Under Both Alkaline and Neutral Conditions. <i>Angewandte Chemie</i> , 2016, 128, 2534-2538.	1.6	52
64	Strongly-Coupled Cobalt Borate Nanosheets/Graphene Hybrid as Electrocatalyst for Water Oxidation Under Both Alkaline and Neutral Conditions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2488-2492.	7.2	391
65	Overall Water Splitting Catalyzed Efficiently by an Ultrathin Nanosheet-Built, Hollow Ni ₃ S ₂ -Based Electrocatalyst. <i>Advanced Functional Materials</i> , 2016, 26, 4839-4847.	7.8	438
66	Promoting the Water Oxidation Catalysis by Synergistic Interactions between Ni(OH) ₂ and Carbon Nanotubes. <i>Advanced Energy Materials</i> , 2016, 6, 1600516.	10.2	68
67	Chalcogenide and Phosphide Solid-State Electrocatalysts for Hydrogen Generation. <i>ChemPlusChem</i> , 2016, 81, 1045-1055.	1.3	74

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68	Porous MoO ₂ Nanosheets as Non-noble Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Materials</i> , 2016, 28, 3785-3790.	11.1	729
69	Defect-Rich Ultrathin Cobalt-Iron Layered Double Hydroxide for Electrochemical Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34474-34481.	4.0	345
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71	Surface Roughening of Nickel Cobalt Phosphide Nanowire Arrays/Ni Foam for Enhanced Hydrogen Evolution Activity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34270-34279.	4.0	116
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75	Ni _{0.85} Se as an efficient non-noble bifunctional electrocatalyst for full water splitting. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10688-10694.	3.8	92
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78	Efficient electrochemical water splitting catalyzed by electrodeposited NiFe nanosheets film. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8785-8792.	3.8	58
79	Controllable synthesis of three dimensional electrodeposited Co-P nanosphere arrays as efficient electrocatalysts for overall water splitting. <i>RSC Advances</i> , 2016, 6, 52761-52771.	1.7	51
80	Bifunctionality and Mechanism of Electrodeposited Nickel-Phosphorous Films for Efficient Overall Water Splitting. <i>ChemCatChem</i> , 2016, 8, 106-112.	1.8	147
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82	Simultaneous Reduction of CO ₂ and Splitting of H ₂ O by a Single Immobilized Cobalt Phthalocyanine Electrocatalyst. <i>ACS Catalysis</i> , 2016, 6, 3092-3095.	5.5	237
83	One-step electrodeposition of Ni-Co-S nanosheets film as a bifunctional electrocatalyst for efficient water splitting. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 7264-7269.	3.8	107
84	Highly Efficient and Robust Nickel Phosphides as Bifunctional Electrocatalysts for Overall Water-Splitting. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10826-10834.	4.0	205
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87	Activity and stability of cobalt phosphides for hydrogen evolution upon water splitting. <i>Nano Energy</i> , 2016, 29, 37-45.	8.2	166
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93	Carbon-Coated Nickel Phosphide Nanosheets as Efficient Dual-Electrocatalyst for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27850-27858.	4.0	113
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101	Solution Growth of Vertical VS ₂ Nanoplate Arrays for Electrocatalytic Hydrogen Evolution. <i>Chemistry of Materials</i> , 2016, 28, 5587-5591.	3.2	173
102	Assembling pore-rich FeP nanorods on the CNT backbone as an advanced electrocatalyst for oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13005-13010.	5.2	82
103	An efficient nanostructured copper(I) sulfide-based hydrogen evolution electrocatalyst at neutral pH. <i>Electrochimica Acta</i> , 2016, 215, 366-373.	2.6	62

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120	Low Overpotential Water Splitting Using Cobalt-Cobalt Phosphide Nanoparticles Supported on Nickel Foam. <i>ACS Energy Letters</i> , 2016, 1, 1192-1198.	8.8	143
121	Co-Doped NiSe nanowires on nickel foam via a cation exchange approach as efficient electrocatalyst for enhanced oxygen evolution reaction. <i>RSC Advances</i> , 2016, 6, 106832-106836.	1.7	46

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145	Ternary NiCoP nanosheet arrays: An excellent bifunctional catalyst for alkaline overall water splitting. <i>Nano Research</i> , 2016, 9, 2251-2259.	5.8	342
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152	Efficient Electrochemical Water Splitting Catalyzed by Electrodeposited Nickel Diselenide Nanoparticles Based Film. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4718-4723.	4.0	239
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160	Carbon coated porous nickel phosphides nanoplates for highly efficient oxygen evolution reaction. <i>Energy and Environmental Science</i> , 2016, 9, 1246-1250.	15.6	839
161	Amorphous Ni-B alloy nanoparticle film on Ni foam: rapid alternately dipping deposition for efficient overall water splitting. <i>Nanotechnology</i> , 2016, 27, 12LT01.	1.3	86
162	Hierarchically Porous Urchin-Like Ni ₂ P Superstructures Supported on Nickel Foam as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ACS Catalysis</i> , 2016, 6, 714-721.	5.5	737
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165	Nickel cobalt phosphides quasi-hollow nanocubes as an efficient electrocatalyst for hydrogen evolution in alkaline solution. <i>Chemical Communications</i> , 2016, 52, 1633-1636.	2.2	271
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172	A general approach to cobalt-based homobimetallic phosphide ultrathin nanosheets for highly efficient oxygen evolution in alkaline media. <i>Energy and Environmental Science</i> , 2017, 10, 893-899.	15.6	412
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177	Synthesis and application of transition metal phosphides as electrocatalyst for water splitting. <i>Science Bulletin</i> , 2017, 62, 633-644.	4.3	179
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180	Homologous NiO//Ni ₂ P nanoarrays grown on nickel foams: a well matched electrode pair with high stability in overall water splitting. <i>Nanoscale</i> , 2017, 9, 4409-4418.	2.8	127
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182	A hierarchically porous nickel-copper phosphide nano-foam for efficient electrochemical splitting of water. <i>Nanoscale</i> , 2017, 9, 4401-4408.	2.8	110
183	Three-dimensional porous MoNi ₄ networks constructed by nanosheets as bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2508-2513.	5.2	122
184	Atomic-layer-deposited ultrafine MoS ₂ nanocrystals on cobalt foam for efficient and stable electrochemical oxygen evolution. <i>Nanoscale</i> , 2017, 9, 2711-2717.	2.8	88
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467	Construction of hierarchical NiCoP hollow nanobricks with oriented nanosheets for efficient overall water splitting. <i>Energy and Environmental Science</i> , 2018, 11, 872-880.	15.6	773
468	Cobalt-Iron Pyrophosphate Porous Nanosheets as Highly Active Electrocatalysts for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2018, 5, 36-43.	1.7	36
469	Electrochemical water oxidation: The next five years. <i>Current Opinion in Electrochemistry</i> , 2018, 7, 31-35.	2.5	41
470	A NiCo ₂ O ₄ Shell on a Hollow Ni Nanorod Array Core for Water Splitting with Enhanced Electrocatalytic Performance. <i>ChemNanoMat</i> , 2018, 4, 124-131.	1.5	34
471	Eutectic-Derived Mesoporous NiFeO Nanowire Network Catalyzing Oxygen Evolution and Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1701347.	10.2	281
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483	Co/CoP embedded in a hairy nitrogen-doped carbon polyhedron as an advanced tri-functional electrocatalyst. <i>Materials Horizons</i> , 2018, 5, 108-115.	6.4	184

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508	Palladium Phosphide as a Stable and Efficient Electrocatalyst for Overall Water Splitting. <i>Angewandte Chemie</i> , 2018, 130, 15078-15083.	1.6	20
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514	N-doped carbon coated FeNiP nanoparticles based hollow microboxes for overall water splitting in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 22226-22234.	3.8	60
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522	Efficient strategy for significantly decreasing overpotentials of hydrogen generation via oxidizing small molecules at flexible bifunctional CoSe electrodes. <i>Journal of Power Sources</i> , 2018, 401, 238-244.	4.0	44
523	Emerging Materials in Heterogeneous Electrocatalysis Involving Oxygen for Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33737-33767.	4.0	52
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526	Mixed-Node Metal-Organic Frameworks as Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Energy Letters</i> , 2018, 3, 2520-2526.	8.8	252
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551	Skutterudite-Type Ternary CoNiP Nanoneedle Array Electrocatalysts for Enhanced Hydrogen and Oxygen Evolution. <i>ACS Energy Letters</i> , 2018, 3, 1744-1752.	8.8	160
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559	Ultrathin PtPd-Based Nanorings with Abundant Step Atoms Enhance Oxygen Catalysis. <i>Advanced Materials</i> , 2018, 30, e1802136.	11.1	107
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577	Study of oxygen evolution reaction on amorphous Au ₁₃ @Ni ₁₂₀ P ₅₀ nanocluster. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14545-14556.	1.3	7
578	Electrochemical Oxidation of 5-Hydroxymethylfurfural with NiFe Layered Double Hydroxide (LDH) Nanosheet Catalysts. <i>ACS Catalysis</i> , 2018, 8, 5533-5541.	5.5	340
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591	Enhanced catalytic activity of electrodeposited Ni-Cu-P toward oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 409-415.	10.8	116

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596	Construction of hierarchical FeP/Ni ₂ P hollow nanospindles for efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14103-14111.	5.2	109
597	Hierarchical Nickel@Cobalt-Based Transition Metal Oxide Catalysts for the Electrochemical Conversion of Biomass into Valuable Chemicals. <i>ChemSusChem</i> , 2018, 11, 2547-2553.	3.6	130
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599	N-doped reduced graphene oxide supported mixed Ni ₂ P CoP realize efficient overall water electrolysis. <i>Electrochimica Acta</i> , 2018, 282, 626-633.	2.6	43
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869	Interfacial Electronic Modulation of Multishelled CoP Hollow Spheres via Surface Reconstruction for High-Efficient Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 309-318.	2.5	26
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871	Surface Activation and Reconstruction of Non-Oxide-Based Catalysts Through in Situ Electrochemical Tuning for Oxygen Evolution Reactions in Alkaline Media. <i>ACS Catalysis</i> , 2020, 10, 463-493.	5.5	196
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