

Enhancing Electrocatalytic Water Splitting by Strain En

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Confinement Catalysis with 2D Materials for Energy Conversion. <i>Advanced Materials</i> , 2019, 31, e1901996.	11.1	257
2	Double functionalization of N-doped carbon carved hollow nanocubes with mixed metal phosphides as efficient bifunctional catalysts for electrochemical overall water splitting. <i>Nano Energy</i> , 2019, 65, 103995.	8.2	111
3	Self-templated construction of 1D NiMo nanowires via a Li electrochemical tuning method for the hydrogen evolution reaction. <i>Nanoscale</i> , 2019, 11, 19429-19436.	2.8	30
4	Novel Stable 3D Stainless Steel-Based Electrodes for Efficient Water Splitting. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900774.	1.9	16
5	n tungsten oxide homojunctions for Vis-NIR light-enhanced electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19573-19580.	5.2	31
6	Self-Supportive Mesoporous Ni/Co/Fe Phosphosulfide Nanorods Derived from Novel Hydrothermal Electrodeposition as a Highly Efficient Electrocatalyst for Overall Water Splitting. <i>Small</i> , 2019, 15, e1905201.	5.2	80
7	Modulation of oxygen vacancy in tungsten oxide nanosheets for Vis-NIR light-enhanced electrocatalytic hydrogen production and anticancer photothermal therapy. <i>Nanoscale</i> , 2019, 11, 18183-18190.	2.8	25
8	Bimetallic Composition-Promoted Electrocatalytic Hydrodechlorination Reaction on Silver-Palladium Alloy Nanoparticles. <i>ACS Catalysis</i> , 2019, 9, 10803-10811.	5.5	115
9	Recent Advances and Prospective in Ruthenium-Based Materials for Electrochemical Water Splitting. <i>ACS Catalysis</i> , 2019, 9, 9973-10011.	5.5	491
10	Three-dimensional Fe ₃ S ₄ @NiS hollow nanospheres as efficient electrocatalysts for oxygen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2019, 850, 113436.	1.9	16
11	1T/2H MoSe ₂ -on-MXene heterostructure as bifunctional electrocatalyst for efficient overall water splitting. <i>Electrochimica Acta</i> , 2019, 326, 134976.	2.6	125
12	Negative Charging of Transition-Metal Phosphides via Strong Electronic Coupling for Destabilization of Alkaline Water. <i>Angewandte Chemie</i> , 2019, 131, 11922-11926.	1.6	22
13	Negative Charging of Transition-Metal Phosphides via Strong Electronic Coupling for Destabilization of Alkaline Water. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11796-11800.	7.2	155
14	Reactive nanotemplates for synthesis of highly efficient electrocatalysts: beyond simple morphology transfer. <i>Nanoscale</i> , 2019, 11, 20392-20410.	2.8	11
15	Compressive Strain in Core-Shell Au-Pd Nanoparticles Introduced by Lateral Confinement of Deformation Twinning to Enhance the Oxidation Reduction Reaction Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46902-46911.	4.0	25
16	Quantifying Entatic States in Photophysical Processes: Applications to Copper Photosensitizers. <i>Inorganic Chemistry</i> , 2019, 58, 16800-16817.	1.9	10
17	CoO-Mo ₂ N hollow heterostructure for high-efficiency electrocatalytic hydrogen evolution reaction. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	65
18	Activating the alkaline hydrogen evolution performance of Mo-incorporated Ni(OH) ₂ by plasma-induced heterostructure. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118154.	10.8	70

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19	Single cobalt atom anchored on N-doped graphyne for boosting the overall water splitting. <i>Applied Surface Science</i> , 2020, 502, 144155.	3.1	50
20	Fully blossomed WO ₃ /BiVO ₄ structure obtained via active facet engineering of patterned FTO for highly efficient Water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118362.	10.8	44
21	Fabrication of carbon nanotubes encapsulated cobalt phosphide on graphene: Cobalt promoted hydrogen evolution reaction performance. <i>Electrochimica Acta</i> , 2020, 330, 135213.	2.6	19
22	Advanced Bifunctional Oxygen Reduction and Evolution Electrocatalyst Derived from Surface-Mounted Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2020, 132, 5886-5892.	1.6	16
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24	Unraveling the electrochemical properties of lanthanum cobaltite decorated halloysite nanotube nanocomposite: An advanced electrocatalyst for determination of flutamide in environmental samples. <i>Ecotoxicology and Environmental Safety</i> , 2020, 190, 110098.	2.9	34
25	Light and complex 3D MoS ₂ /graphene heterostructures as efficient catalysts for the hydrogen evolution reaction. <i>Nanoscale</i> , 2020, 12, 2715-2725.	2.8	35
26	Strain effects on Co,N co-decorated graphyne catalysts for overall water splitting electrocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2457-2465.	1.3	32
27	A hybrid Co NPs@CNT nanocomposite as highly efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2020, 507, 145155.	3.1	34
28	Recent advances in tuning the electronic structures of atomically dispersed M-N-C materials for efficient gas-involving electrocatalysis. <i>Materials Horizons</i> , 2020, 7, 970-986.	6.4	48
29	Nitrogen modification enhances the electrocatalytic overall water splitting of NiFe layered double hydroxides in alkaline media. <i>Materials Letters</i> , 2020, 263, 127162.	1.3	7
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31	Self-supported nickel nitride nanosheets as highly efficient electrocatalysts for hydrogen evolution. <i>Applied Surface Science</i> , 2020, 503, 144143.	3.1	13
32	CoP Nanoframes as Bifunctional Electrocatalysts for Efficient Overall Water Splitting. <i>ACS Catalysis</i> , 2020, 10, 412-419.	5.5	361
33	Recent progress of Ni-Fe layered double hydroxide and beyond towards electrochemical water splitting. <i>Nanoscale Advances</i> , 2020, 2, 5555-5566.	2.2	52
34	High-performance hydrogen evolution electrocatalysis using proton-intercalated TiO ₂ nanotube arrays as interactive supports for Ir nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22773-22790.	5.2	29
35	Shedding Light on the Role of Misfit Strain in Controlling Core-Shell Nanocrystals. <i>Advanced Materials</i> , 2020, 32, e2004142.	11.1	89
36	Advanced electrocatalysts based on two-dimensional transition metal hydroxides and their composites for alkaline oxygen reduction reaction. <i>Nanoscale</i> , 2020, 12, 21479-21496.	2.8	39

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37	Simultaneous Piezoelectrocatalytic Hydrogen Evolution and Degradation of Water Pollutants by Quartz Microrods@Few-Layered MoS ₂ Hierarchical Heterostructures. <i>Advanced Materials</i> , 2020, 32, e2002875.	11.1	79
38	Ultrathin CoTe nanoflakes electrode demonstrating low overpotential for overall water splitting. <i>Fuel</i> , 2020, 280, 118666.	3.4	49
39	Rational Design of Metal-Organic Frameworks towards Efficient Electrocatalysis. , 2020, 2, 1251-1267.		65
40	High performance of multi-layered alternating Ni-Fe-P and Co-P films for hydrogen evolution. <i>Green Energy and Environment</i> , 2022, 7, 75-85.	4.7	10
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42	Non-precious-metal catalysts for alkaline water electrolysis: <i>operando</i> characterizations, theoretical calculations, and recent advances. <i>Chemical Society Reviews</i> , 2020, 49, 9154-9196.	18.7	448
43	Controllable Conversion from Single-Crystal Nanorods to Polycrystalline Nanosheets of NiCoV-LTH for Oxygen Evolution Reaction at Large Current Density. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16091-16096.	3.2	25
44	Dislocation-Strained IrNi Alloy Nanoparticles Driven by Thermal Shock for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2020, 32, e2006034.	11.1	148
45	Ru-based electrocatalysts for hydrogen evolution reaction: Recent research advances and perspectives. <i>Materials Today Physics</i> , 2020, 15, 100274.	2.9	92
46	Lattice-Strain Engineering of Homogeneous Ni _{0.5} Se _{0.5} Core-Shell Nanostructure as a Highly Efficient and Robust Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2020, 32, e2000231.	11.1	158
47	Effects of molecular adsorption on the spin-wave spectrum and magnon relaxation in two-dimensional Cr ₂ Ge ₂ Te ₆ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22047-22054.	1.3	11
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51	Coupled Vacancy Pairs in Ni-Doped CoSe for Improved Electrocatalytic Hydrogen Production Through Topochemical Deintercalation. <i>Angewandte Chemie</i> , 2020, 132, 22931-22936.	1.6	16
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54	Strain Influences the Hydrogen Evolution Activity and Absorption Capacity of Palladium. <i>Angewandte Chemie</i> , 2020, 132, 12290-12296.	1.6	9

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56	Designing Champion Nanostructures of Tungsten Dichalcogenides for Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2020, 32, e2002584.	11.1	82
57	Strain effect on the catalytic activities of B- and B/N-doped black phosphorene for electrochemical conversion of CO to valuable chemicals. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11986-11995.	5.2	31
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60	Electrochemically Modifying the Electronic Structure of IrO ₂ Nanoparticles for Overall Electrochemical Water Splitting with Extensive Adaptability. <i>Advanced Energy Materials</i> , 2020, 10, 2001600.	10.2	123
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62	Surface engineering by doping manganese into cobalt phosphide towards highly efficient bifunctional HER and OER electrocatalysis. <i>Applied Surface Science</i> , 2020, 515, 146059.	3.1	126
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64	Self-Supported Composite of (Ni ₃ Co) ₃ C Mesoporous Nanosheets/N-Doped Carbon as a Flexible Electrocatalyst for pH-Universal Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5287-5295.	3.2	36
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67	Perspective on High-Energy Carbon-Based Supercapacitors. <i>Energy and Environmental Materials</i> , 2020, 3, 286-305.	7.3	124
68	Core-shell nanostructured electrocatalysts for water splitting. <i>Nanoscale</i> , 2020, 12, 15944-15969.	2.8	83
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73	Strategies for design of electrocatalysts for hydrogen evolution under alkaline conditions. <i>Materials Today</i> , 2020, 36, 125-138.	8.3	308
74	Gradient phosphorus-doping engineering and superficial amorphous reconstruction in NiFe ₂ O ₄ nanoarrays to enhance the oxygen evolution electrocatalysis. <i>Nanoscale</i> , 2020, 12, 10977-10986.	2.8	24
75	Deformation-induced charge redistribution in ceria thin film at room temperature. <i>Acta Materialia</i> , 2020, 191, 70-80.	3.8	4
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78	Strain Influences the Hydrogen Evolution Activity and Absorption Capacity of Palladium. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12192-12198.	7.2	28
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99	Construction of hierarchical IrTe nanotubes with assembled nanosheets for overall water splitting electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18576-18581.	5.2	24
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130	Recent Advances in the Understanding of the Surface Reconstruction of Oxygen Evolution Electrocatalysts and Materials Development. <i>Electrochemical Energy Reviews</i> , 2021, 4, 566-600.	13.1	90
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132	3D \hat{E} stretched Film Ni ₃ S ₂ Nanosheet/Macromolecule Anthraquinone Derivative Polymers for Electrocatalytic Overall Water Splitting. <i>Small</i> , 2021, 17, e2101003.	5.2	13
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137	Fundamental Studies of Planar Single-Crystalline Oxide Model Electrodes (RuO ₂), Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.5	128
138	Porous Ni Foams Filled by N-Doped Carbon Nanotubes Coated with N-Doped Ni ₃ P and Ni Nanoparticles for Catalytic Water Splitting. <i>ACS Applied Nano Materials</i> , 2021, 4, 7443-7453.	2.4	15
139	Ni(OH) ₂ Templated Synthesis of Ultrathin Ni ₃ S ₂ Nanosheets as Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small</i> , 2021, 17, e2102097.	5.2	54
140	PdRu/CNTs synthesized by microwave \hat{E} assisted method for high stable acidic oxygen evolution reaction. <i>Electrochemical Science Advances</i> , 0, , e202100111.	1.2	0
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143	Template-free synthesis of 1D hollow Fe doped CoP nanoneedles as highly activity electrocatalysts for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28053-28063.	3.8	18
144	Spontaneously engineering heterogeneous interface of silver nanoparticles on \hat{I}^{\pm} -Co(OH) ₂ for boosting electrochemical oxygen evolution. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159766.	2.8	19
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