

Jun-feng Xie

List of Publications by Year in descending order

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41323

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docs citations

100
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17310
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#	ARTICLE	IF	CITATIONS
1	Defect-Rich MoS ₂ Ultrathin Nanosheets with Additional Active Edge Sites for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2013, 25, 5807-5813.	11.1	2,705
2	Controllable Disorder Engineering in Oxygen-Incorporated MoS ₂ Ultrathin Nanosheets for Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2013, 135, 17881-17888.	6.6	2,107
3	Vacancy Associates Promoting Solar-Driven Photocatalytic Activity of Ultrathin Bismuth Oxychloride Nanosheets. <i>Journal of the American Chemical Society</i> , 2013, 135, 10411-10417.	6.6	1,091
4	Ultrathin Black Phosphorus Nanosheets for Efficient Singlet Oxygen Generation. <i>Journal of the American Chemical Society</i> , 2015, 137, 11376-11382.	6.6	891
5	Single-Layered Graphitic-C ₃ N ₄ Quantum Dots for Two-Photon Fluorescence Imaging of Cellular Nucleus. <i>Advanced Materials</i> , 2014, 26, 4438-4443.	11.1	501
6	Atomically-thin molybdenum nitride nanosheets with exposed active surface sites for efficient hydrogen evolution. <i>Chemical Science</i> , 2014, 5, 4615-4620.	3.7	455
7	Enhanced Photoexcited Carrier Separation in Oxygen-Doped ZnIn ₂ S ₄ Nanosheets for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6716-6720.	7.2	454
8	Enhanced Singlet Oxygen Generation in Oxidized Graphitic Carbon Nitride for Organic Synthesis. <i>Advanced Materials</i> , 2016, 28, 6940-6945.	11.1	397
9	Transition Metal Nitrides for Electrocatalytic Energy Conversion: Opportunities and Challenges. <i>Chemistry - A European Journal</i> , 2016, 22, 3588-3598.	1.7	305
10	Photoelectrodes Based upon Mo:BiVO ₄ Inverse Opals for Photoelectrochemical Water Splitting. <i>ACS Nano</i> , 2014, 8, 7088-7098.	7.3	289
11	Enhanced Superoxide Generation on Defective Surfaces for Selective Photooxidation. <i>Journal of the American Chemical Society</i> , 2019, 141, 3797-3801.	6.6	285
12	Intralayered Ostwald Ripening to Ultrathin Nanomesh Catalyst with Robust Oxygen-Evolving Performance. <i>Advanced Materials</i> , 2017, 29, 1604765.	11.1	283
13	Layer-by-layer Ni(OH) ₂ /graphene nanohybrids for ultraflexible all-solid-state thin-film supercapacitors with high electrochemical performance. <i>Nano Energy</i> , 2013, 2, 65-74.	8.2	271
14	Ultrathin MXene nanosheets with rich fluorine termination groups realizing efficient electrocatalytic hydrogen evolution. <i>Nano Energy</i> , 2018, 47, 512-518.	8.2	243
15	High-performance flexible electrochromic device based on facile semiconductor-to-metal transition realized by WO ₃ ·2H ₂ O ultrathin nanosheets. <i>Scientific Reports</i> , 2013, 3, 1936.	1.6	232
16	Partially amorphous nickel-iron layered double hydroxide nanosheet arrays for robust bifunctional electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16121-16129.	5.2	193
17	Structural distortion in graphitic-C ₃ N ₄ realizing an efficient photoreactivity. <i>Nanoscale</i> , 2015, 7, 5152-5156.	2.8	178
18	Half-Metallicity in Single-Layered Manganese Dioxide Nanosheets by Defect Engineering. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1195-1199.	7.2	177

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19	Defect-rich MoS ₂ nanowall catalyst for efficient hydrogen evolution reaction. Nano Research, 2017, 10, 1178-1188.	5.8	177
20	Boron Phosphide Nanoparticles: A Nonmetal Catalyst for High-Selectivity Electrochemical Reduction of CO ₂ to CH ₃ OH. Advanced Materials, 2019, 31, e1903499.	11.1	169
21	Copper-incorporated hierarchical wire-on-sheet Ni(OH) ₂ nanoarrays as robust trifunctional catalysts for synergistic hydrogen generation and urea oxidation. Journal of Materials Chemistry A, 2019, 7, 13577-13584.	5.2	159
22	Structural Engineering of Electrocatalysts for the Hydrogen Evolution Reaction: Order or Disorder?. ChemCatChem, 2015, 7, 2568-2580.	1.8	144
23	Highly Active Fe Sites in Ultrathin Pyrrhotite Fe ₇ S ₈ Nanosheets Realizing Efficient Electrocatalytic Oxygen Evolution. ACS Central Science, 2017, 3, 1221-1227.	5.3	136
24	Delocalized Spin States in 2D Atomic Layers Realizing Enhanced Electrocatalytic Oxygen Evolution. Advanced Materials, 2017, 29, 1701687.	11.1	127
25	Promotion of Overall Water Splitting Activity Over a Wide pH Range by Interfacial Electrical Effects of Metallic NiCo-nitrides Nanoparticle/NiCo ₂ O ₄ Nanoflake/graphite Fibers. Advanced Science, 2019, 6, 1801829.	5.6	122
26	A ternary cobalt-molybdenum-vanadium layered double hydroxide nanosheet array as an efficient bifunctional electrocatalyst for overall water splitting. Chemical Communications, 2019, 55, 3521-3524.	2.2	121
27	Iron-incorporated Ni(OH) ₂ Hierarchical Nanosheet Arrays for Electrocatalytic Urea Oxidation. Chemistry - A European Journal, 2018, 24, 18408-18412.	1.7	114
28	NIR light induced H ₂ evolution by a metal-free photocatalyst. Chemical Communications, 2015, 51, 10899-10902.	2.2	112
29	IR-Driven Photocatalytic Water Splitting with WO ₂ ·NaWO ₃ Hybrid Conductor Material. Nano Letters, 2015, 15, 7199-7203.	4.5	109
30	Constructing Hierarchical Wire-on-Sheet Nanoarrays in Phase-Regulated Cerium-Doped Nickel Hydroxide for Promoted Urea Electro-oxidation. , 2019, 1, 103-110.		100
31	Metallic Intermediate Phase Inducing Morphological Transformation in Thermal Nitridation: Ni ₃ FeN-Based Three-Dimensional Hierarchical Electrocatalyst for Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 3699-3706.	4.0	96
32	Sub-30 nm pores in two-dimensional nanomesh promoting the generation of electroactive phase for robust water oxidation. Nano Energy, 2018, 53, 74-82.	8.2	94
33	Defect engineering in two-dimensional electrocatalysts for hydrogen evolution. Nanoscale, 2020, 12, 4283-4294.	2.8	92
34	All-solid-state flexible thin-film supercapacitors with high electrochemical performance based on a two-dimensional V ₂ O ₅ ·H ₂ O/graphene composite. Journal of Materials Chemistry A, 2014, 2, 10876.	5.2	82
35	Sulfurization-induced edge amorphization in copper-nickel-cobalt layered double hydroxide nanosheets promoting hydrazine electro-oxidation. Journal of Materials Chemistry A, 2019, 7, 24437-24444.	5.2	80
36	The CoMo-LDH ultrathin nanosheet as a highly active and bifunctional electrocatalyst for overall water splitting. Inorganic Chemistry Frontiers, 2018, 5, 2964-2970.	3.0	76

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37	Recent advances in the pre-oxidation process in electrocatalytic urea oxidation reactions. <i>Chemical Communications</i> , 2022, 58, 2430-2442.	2.2	71
38	Ambient rutile VO ₂ (R) hollow architectures with rich grain boundaries from new-state nsutite-type VO ₂ , displaying enhanced hydrogen adsorption behavior. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4810.	1.3	65
39	Zirconium trisulfide ultrathin nanosheets as efficient catalysts for water oxidation in both alkaline and neutral solutions. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 751-756.	3.0	64
40	ZnCo ₂ O ₄ ultrathin nanosheets towards the high performance of flexible supercapacitors and bifunctional electrocatalysis. <i>Journal of Alloys and Compounds</i> , 2018, 764, 565-573.	2.8	63
41	Siloxene nanosheets: a metal-free semiconductor for water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15841-15844.	5.2	61
42	Morphology and electronic structure modulation induced by fluorine doping in nickel-based heterostructures for robust bifunctional electrocatalysis. <i>Nanoscale</i> , 2018, 10, 20384-20392.	2.8	61
43	Nickel incorporated Co ₉ S ₈ nanosheet arrays on carbon cloth boosting overall urea electrolysis. <i>Electrochimica Acta</i> , 2020, 338, 135883.	2.6	61
44	A self-sacrificial templated route to fabricate CuFe Prussian blue analogue/Cu(OH) ₂ nanoarray as an efficient pre-catalyst for ultrastable bifunctional electro-oxidation. <i>Chemical Engineering Journal</i> , 2021, 422, 130139.	6.6	58
45	2021 Roadmap: electrocatalysts for green catalytic processes. <i>JPhys Materials</i> , 2021, 4, 022004.	1.8	57
46	Modulation of electronic structures in two-dimensional electrocatalysts for the hydrogen evolution reaction. <i>Chemical Communications</i> , 2020, 56, 11910-11930.	2.2	56
47	Crystalline Cobalt/Amorphous LaCoO _x Hybrid Nanoparticles Embedded in Porous Nitrogen-Doped Carbon as Efficient Electrocatalysts for Hydrazine-Assisted Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24701-24709.	4.0	56
48	Vertically aligned oxygen-doped molybdenum disulfide nanosheets grown on carbon cloth realizing robust hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1160-1166.	3.0	55
49	Dual Effect in Fluorine-Doped Hematite Nanocrystals for Efficient Water Oxidation. <i>ChemSusChem</i> , 2017, 10, 4465-4471.	3.6	51
50	Controllable green synthesis of crassula perforata-like TiO ₂ with high photocatalytic activity based on deep eutectic solvent (DES). <i>Chemical Engineering Journal</i> , 2018, 348, 811-819.	6.6	43
51	Enhanced Photoexcited Carrier Separation in Oxygen-Doped ZnIn ₂ S ₄ Nanosheets for Hydrogen Evolution. <i>Angewandte Chemie</i> , 2016, 128, 6828-6832.	1.6	42
52	Electrochemical synthesis of ammonia by nitrate reduction on indium incorporated in sulfur doped graphene. <i>Chemical Engineering Journal</i> , 2021, 426, 131317.	6.6	40
53	Platinum Nanocrystals Decorated on Defect-Rich MoS ₂ Nanosheets for pH-Universal Hydrogen Evolution Reaction. <i>Crystal Growth and Design</i> , 2019, 19, 60-65.	1.4	39
54	Modulation of crystal water in cobalt phosphate for promoted water oxidation. <i>Chemical Communications</i> , 2020, 56, 4575-4578.	2.2	37

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55	Lanthanum-doped $\text{Ni}(\text{OH})_2$ 1D-2D-3D hierarchical nanostructures for robust bifunctional electro-oxidation. <i>Particuology</i> , 2021, 57, 104-111.	2.0	32
56	Hierarchical porous activated biochar derived from marine macroalgae wastes (<i>Enteromorpha</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 29237-29247.	1.7	30
57	Preferential Microstructure Design of Two-Dimensional Electrocatalysts for Boosted Oxygen Evolution Reaction. <i>ChemCatChem</i> , 2019, 11, 4662-4670.	1.8	29
58	Two-Dimensional Mn-Co LDH/Graphene Composite towards High-Performance Water Splitting. <i>Catalysts</i> , 2018, 8, 350.	1.6	27
59	Reduction-induced surface reconstruction to fabricate cobalt hydroxide/molybdenum oxide hybrid nanosheets for promoted oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 413, 127540.	6.6	25
60	High-performance alkaline hydrogen evolution electrocatalyzed by a $\text{Ni}_3\text{N}-\text{CeO}_2$ nanohybrid. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 3042-3045.	3.0	24
61	The core ubiquitin system of mandarin fish, <i>Siniperca chuatsi</i> , can be utilized by infectious spleen and kidney necrosis virus. <i>Fish and Shellfish Immunology</i> , 2017, 70, 293-301.	1.6	23
62	Removal of toxic metal ions using chitosan coated carbon nanotube composites for supercapacitors. <i>Science China Chemistry</i> , 2018, 61, 797-805.	4.2	23
63	A molten-salt protected pyrolysis approach for fabricating a ternary nickel-cobalt-iron oxide nanomesh catalyst with promoted oxygen-evolving performance. <i>Chemical Communications</i> , 2020, 56, 4579-4582.	2.2	23
64	Acceleration of the pre-oxidation process by tuning the degree of sulfurization for promoted oxygen evolution reaction. <i>Chemical Communications</i> , 2022, 58, 6360-6363.	2.2	23
65	Grain boundary engineering in atomically-thin nanosheets achieving bright white light emission. <i>Chemical Science</i> , 2014, 5, 1328.	3.7	22
66	Promoted water splitting by efficient electron transfer between Au nanoparticles and hematite nanoplates: a theoretical and experimental study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1478-1483.	1.3	22
67	Fluorometric determination of the activity of alkaline phosphatase and its inhibitors based on ascorbic acid-induced aggregation of carbon dots. <i>Mikrochimica Acta</i> , 2019, 186, 202.	2.5	22
68	Novel $(\text{Ni}, \text{Fe})\text{S}_2/(\text{Ni}, \text{Fe})_3\text{S}_4$ solid solution hybrid: an efficient electrocatalyst with robust oxygen-evolving performance. <i>Science China Chemistry</i> , 2020, 63, 1030-1039.	4.2	22
69	$\text{Ni}_x\text{Co}_{3-x}\text{O}_4$ Nanoneedle Arrays Grown on Ni Foam as an Efficient Bifunctional Electrocatalyst for Full Water Splitting. <i>Chemistry - an Asian Journal</i> , 2019, 14, 480-485.	1.7	21
70	Lanthanum-incorporated $\text{Ni}(\text{OH})_2$ nanoarrays for robust urea electro-oxidation. <i>Chemical Communications</i> , 2021, 57, 2029-2032.	2.2	21
71	Efficient alkaline hydrogen evolution electrocatalysis enabled by an amorphous CoMoB film. <i>Dalton Transactions</i> , 2018, 47, 7640-7643.	1.6	20
72	Facile synthesis of hierarchical porous $\text{Ni}_x\text{Co}_{1-x}\text{SeO}_3$ networks with controllable composition as a new and efficient water oxidation catalyst. <i>Nanoscale</i> , 2019, 11, 3268-3274.	2.8	19

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73	Molten-Salt-Protected Pyrolytic Approach for Fabricating Borate-Modified Cobalt-iron Spinel Oxide with Robust Oxygen-Evolving Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 14596-14604.	3.2	19
74	High Performance Supercapacitors from Hierarchical Porous Carbon Aerogels Based on Sliced Bread. <i>Chinese Journal of Chemistry</i> , 2017, 35, 699-706.	2.6	18
75	Modified bluing treatment to produce nickel-cobalt-iron spinel oxide with promoted oxygen-evolving performance. <i>Chemical Communications</i> , 2019, 55, 9841-9844.	2.2	18
76	Electrochemical reduction of nitrate on silver surface and an <i>in situ</i> Raman spectroscopy study. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2734-2740.	3.0	18
77	Molten-Salt-Protected Pyrolysis for Fabricating Perovskite Nanocrystals with Promoted Water Oxidation Behavior. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16711-16719.	3.2	17
78	Synthesis of Semiconducting 2H-Phase WTe_2 Nanosheets with Large Positive Magnetoresistance. <i>Inorganic Chemistry</i> , 2020, 59, 11935-11939.	1.9	17
79	Controllable fabrication of TiO_2 anatase/rutile phase junctions by a designer solvent for promoted photocatalytic performance. <i>Chemical Communications</i> , 2020, 56, 11827-11830.	2.2	16
80	An iron incorporation-induced nickel hydroxide multiphase with a 2D/3D hierarchical sheet-on-sheet structure for electrocatalytic water oxidation. <i>Chemical Communications</i> , 2019, 55, 10138-10141.	2.2	15
81	Spectrophotometric determination of the activity of alkaline phosphatase and detection of its inhibitors by exploiting the pyrophosphate-accelerated oxidase-like activity of nanoceria. <i>Mikrochimica Acta</i> , 2019, 186, 320.	2.5	15
82	Rapid and Scalable Synthesis of Prussian Blue Analogue Nanocubes for Electrocatalytic Water Oxidation. <i>Chinese Journal of Chemistry</i> , 2021, 39, 2347-2353.	2.6	15
83	ultrathin nanosheets of hydrated copper pyrophosphate as efficient pre-catalysts for robust water oxidation. <i>Chemical Communications</i> , 2021, 57, 11517-11520.	2.2	15
84	Cerium-induced lattice disordering in Co-based nanocatalysts promoting the hydrazine electro-oxidation behavior. <i>Chemical Communications</i> , 2022, 58, 6845-6848.	2.2	15
85	Superassembly of $NiCoO_x$ solid solution hybrids with a 2D/3D porous polyhedron-on-sheet structure for multi-functional electrocatalytic oxidation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8576-8585.	5.2	14
86	In-plane $\beta-Co(OH)_2/Co_3O_4$ hybrid nanosheets for flexible all-solid-state thin-film supercapacitors with high electrochemical performance. <i>Nanoscale</i> , 2020, 12, 24251-24258.	2.8	13
87	RING finger proteins of infectious spleen and kidney necrosis virus (ISKNV) function as ubiquitin ligase enzymes. <i>Virus Research</i> , 2007, 123, 170-177.	1.1	11
88	A 3D porous $Ni-CeO_2$ nanosheet array as a highly efficient electrocatalyst toward alkaline hydrogen evolution. <i>Dalton Transactions</i> , 2018, 47, 12667-12670.	1.6	11
89	$CoFeO_x(OH)_y/CoO_x(OH)_y$ core/shell structure with amorphous interface as an advanced catalyst for electrocatalytic water splitting. <i>Electrochimica Acta</i> , 2020, 341, 136038.	2.6	11
90	In-situ Formation of Amorphous Co-Al-P Layer on CoAl Layered Double Hydroxide Nanoarray as Neutral Electrocatalysts for Hydrogen Evolution Reaction. <i>Frontiers in Chemistry</i> , 2020, 8, 552795.	1.8	7

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91	Synergistic enhancement of photocatalytic H ₂ production by Ni decorated 2D bubble-like carbon nitride. International Journal of Hydrogen Energy, 2021, 46, 23311-23321.	3.8	7
92	Core-Shell Composites Based on Multiwalled Carbon Nanotubes and Cesium Tungsten Bronze to Realize Charge Transport Balance for Photocatalytic Water Oxidation. ChemCatChem, 2016, 8, 624-630.	1.8	6
93	Cobalt, iron co-incorporated Ni(OH) ₂ multiphase for superior multifunctional electrocatalytic oxidation. Chemical Communications, 2021, 57, 13752-13755.	2.2	4