Jun-feng Xie

List of Publications by Year in Descending Order

91 papers	11,301 citations	41 h-index	100 g-index
100 ext. papers	13,351 ext. citations	9.2 avg, IF	6.43 L-index

#	Paper	IF	Citations
91	Recent advances in the pre-oxidation process in electrocatalytic urea oxidation reactions.. *Chemical Communications*, **2022**,	5.8	4
90	"Pit-dot" ultrathin nanosheets of hydrated copper pyrophosphate as efficient pre-catalysts for robust water oxidation. *Chemical Communications*, **2021**, 57, 11517-11520	5.8	2
89	Molten-Salt-Protected Pyrolytic Approach for Fabricating Borate-Modified Cobalt□ron Spinel Oxide with Robust Oxygen-Evolving Performance. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 14596-14604	8.3	2
88	2021 Roadmap: electrocatalysts for green catalytic processes. *JPhys Materials*, **2021**, 4, 022004	4.2	24
87	Reduction-induced surface reconstruction to fabricate cobalt hydroxide/molybdenum oxide hybrid nanosheets for promoted oxygen evolution reaction. *Chemical Engineering Journal*, **2021**, 413, 127540	14.7	8
86	Superassembly of NiCoOx solid solution hybrids with a 2D/3D porous polyhedron-on-sheet structure for multi-functional electrocatalytic oxidation. *Journal of Materials Chemistry A*, **2021**, 9, 8576-8585	13	3
85	Lanthanum-incorporated □Ni(OH) nanoarrays for robust urea electro-oxidation. *Chemical Communications*, **2021**, 57, 2029-2032	5.8	5
84	Synergistic enhancement of photocatalytic H2 production by Ni decorated 2D bubble-like carbon nitride. *International Journal of Hydrogen Energy*, **2021**,	6.7	1
83	Rapid and Scalable Synthesis of Prussian Blue Analogue Nanocubes for Electrocatalytic Water Oxidation□*Chinese Journal of Chemistry*, **2021**, 39, 2347-2353	4.9	3
82	Lanthanum-doped □Ni(OH)2 1D-2D-3D hierarchical nanostructures for robust bifunctional electro-oxidation. *Particuology*, **2021**, 57, 104-111	2.8	10
81	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. *Chemical Engineering Journal* , **2021**, 422, 130139	14.7	16
80	Electrochemical synthesis of ammonia by nitrate reduction on indium incorporated in sulfur doped graphene. *Chemical Engineering Journal*, **2021**, 426, 131317	14.7	8
79	In-plane □Co(OH)/CoO hybrid nanosheets for flexible all-solid-state thin-film supercapacitors with high electrochemical performance. *Nanoscale*, **2020**, 12, 24251-24258	7.7	6
78	Crystalline Cobalt/Amorphous LaCoO Hybrid Nanoparticles Embedded in Porous Nitrogen-Doped Carbon as Efficient Electrocatalysts for Hydrazine-Assisted Hydrogen Production. *ACS Applied Materials & Interfaces*, **2020**, 12, 24701-24709	9.5	22
77	Novel (Ni, Fe)S2/(Ni, Fe)3S4 solid solution hybrid: an efficient electrocatalyst with robust oxygen-evolving performance. *Science China Chemistry*, **2020**, 63, 1030-1039	7.9	8
76	CoFeOx(OH)y/CoOx(OH)y core/shell structure with amorphous interface as an advanced catalyst for electrocatalytic water splitting. *Electrochimica Acta*, **2020**, 341, 136038	6.7	7
75	Modulation of crystal water in cobalt phosphate for promoted water oxidation. *Chemical Communications*, **2020**, 56, 4575-4578	5.8	18

74	A molten-salt protected pyrolysis approach for fabricating a ternary nickel-cobalt-iron oxide nanomesh catalyst with promoted oxygen-evolving performance. *Chemical Communications*, **2020**, 56, 4579-4582	5.8	14
73	Nickel incorporated Co9S8 nanosheet arrays on carbon cloth boosting overall urea electrolysis. *Electrochimica Acta*, **2020**, 338, 135883	6.7	31
72	Defect engineering in two-dimensional electrocatalysts for hydrogen evolution. *Nanoscale*, **2020**, 12, 4283-4294	7.7	42
71	Formation of Amorphous Co-Al-P Layer on CoAl Layered Double Hydroxide Nanoarray as Neutral Electrocatalysts for Hydrogen Evolution Reaction. *Frontiers in Chemistry*, **2020**, 8, 552795	5	0
70	Molten-Salt-Protected Pyrolysis for Fabricating Perovskite Nanocrystals with Promoted Water Oxidation Behavior. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 16711-16719	8.3	7
69	Synthesis of Semiconducting 2H-Phase WTe Nanosheets with Large Positive Magnetoresistance. *Inorganic Chemistry*, **2020**, 59, 11935-11939	5.1	8
68	Controllable fabrication of TiO anatase/rutile phase junctions by a designer solvent for promoted photocatalytic performance. *Chemical Communications*, **2020**, 56, 11827-11830	5.8	11
67	Modulation of electronic structures in two-dimensional electrocatalysts for the hydrogen evolution reaction. *Chemical Communications*, **2020**, 56, 11910-11930	5.8	20
66	Promoted water splitting by efficient electron transfer between Au nanoparticles and hematite nanoplates: a theoretical and experimental study. *Physical Chemistry Chemical Physics*, **2019**, 21, 1478-1483	3.6	19
65	Facile synthesis of hierarchical porous NiCoSeO networks with controllable composition as a new and efficient water oxidation catalyst. *Nanoscale*, **2019**, 11, 3268-3274	7.7	17
64	Constructing Hierarchical Wire-on-Sheet Nanoarrays in Phase-Regulated Cerium-Doped Nickel Hydroxide for Promoted Urea Electro-oxidation **2019**, 1, 103-110		56
63	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	13	80
62	Spectrophotometric determination of the activity of alkaline phosphatase and detection of its inhibitors by exploiting the pyrophosphate-accelerated oxidase-like activity of nanoceria. *Mikrochimica Acta*, **2019**, 186, 320	5.8	9
61	Fluorometric determination of the activity of alkaline phosphatase and its inhibitors based on ascorbic acid-induced aggregation of carbon dots. *Mikrochimica Acta*, **2019**, 186, 202	5.8	14
60	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	5.8	75
59	An iron incorporation-induced nickel hydroxide multiphase with a 2D/3D hierarchical sheet-on-sheet structure for electrocatalytic water oxidation. *Chemical Communications*, **2019**, 55, 10138-10141	5.8	10
58	Preferential Microstructure Design of Two-Dimensional Electrocatalysts for Boosted Oxygen Evolution Reaction. *ChemCatChem*, **2019**, 11, 4662-4670	5.2	16
57	Boron Phosphide Nanoparticles: A Nonmetal Catalyst for High-Selectivity Electrochemical Reduction of CO to CH OH. *Advanced Materials*, **2019**, 31, e1903499	24	100

56	Modified bluing treatment to produce nickel-cobalt-iron spinel oxide with promoted oxygen-evolving performance. *Chemical Communications*, **2019**, 55, 9841-9844	5.8	11
55	Enhanced Superoxide Generation on Defective Surfaces for Selective Photooxidation. *Journal of the American Chemical Society*, **2019**, 141, 3797-3801	16.4	156
54	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	13	46
53	Ni Co O Nanoneedle Arrays Grown on Ni Foam as an Efficient Bifunctional Electrocatalyst for Full Water Splitting. *Chemistry - an Asian Journal*, **2019**, 14, 480-485	4.5	15
52	Platinum Nanocrystals Decorated on Defect-Rich MoS2 Nanosheets for pH-Universal Hydrogen Evolution Reaction. *Crystal Growth and Design*, **2019**, 19, 60-65	3.5	24
51	Promotion of Overall Water Splitting Activity Over a Wide pH Range by Interfacial Electrical Effects of Metallic NiCo-nitrides Nanoparticle/NiCoO Nanoflake/graphite Fibers. *Advanced Science*, **2019**, 6, 1801829	13.6	78
50	Removal of toxic metal ions using chitosan coated carbon nanotube composites for supercapacitors. *Science China Chemistry*, **2018**, 61, 797-805	7.9	11
49	Metallic Intermediate Phase Inducing Morphological Transformation in Thermal Nitridation: NiFeN-Based Three-Dimensional Hierarchical Electrocatalyst for Water Splitting. *ACS Applied Materials & Interfaces*, **2018**, 10, 3699-3706	9.5	69
48	Ultrathin MXene nanosheets with rich fluorine termination groups realizing efficient electrocatalytic hydrogen evolution. *Nano Energy*, **2018**, 47, 512-518	17.1	152
47	Partially amorphous nickel–iron layered double hydroxide nanosheet arrays for robust bifunctional electrocatalysis. *Journal of Materials Chemistry A*, **2018**, 6, 16121-16129	13	129
46	Controllable green synthesis of crassula peforata-like TiO2 with high photocatalytic activity based on deep eutectic solvent (DES). *Chemical Engineering Journal*, **2018**, 348, 811-819	14.7	24
45	Hierarchical porous activated biochar derived from marine macroalgae wastes (): facile synthesis and its application on Methylene Blue removal.. *RSC Advances*, **2018**, 8, 29237-29247	3.7	20
44	A 3D porous Ni-CeO nanosheet array as a highly efficient electrocatalyst toward alkaline hydrogen evolution. *Dalton Transactions*, **2018**, 47, 12667-12670	4.3	6
43	Iron-Incorporated α-Ni(OH) Hierarchical Nanosheet Arrays for Electrocatalytic Urea Oxidation. *Chemistry - A European Journal*, **2018**, 24, 18408-18412	4.8	76
42	Sub-3 nm pores in two-dimensional nanomesh promoting the generation of electroactive phase for robust water oxidation. *Nano Energy*, **2018**, 53, 74-82	17.1	72
41	High-performance alkaline hydrogen evolution electrocatalyzed by a Ni3N–CeO2 nanohybrid. *Inorganic Chemistry Frontiers*, **2018**, 5, 3042-3045	6.8	19
40	Morphology and electronic structure modulation induced by fluorine doping in nickel-based heterostructures for robust bifunctional electrocatalysis. *Nanoscale*, **2018**, 10, 20384-20392	7.7	34
39	The CoMo-LDH ultrathin nanosheet as a highly active and bifunctional electrocatalyst for overall water splitting. *Inorganic Chemistry Frontiers*, **2018**, 5, 2964-2970	6.8	34

38	Two-Dimensional Mn-Co LDH/Graphene Composite towards High-Performance Water Splitting. *Catalysts*, **2018**, 8, 350	4	17
37	Efficient alkaline hydrogen evolution electrocatalysis enabled by an amorphous Co-Mo-B film. *Dalton Transactions*, **2018**, 47, 7640-7643	4.3	11
36	ZnCo2O4 ultrathin nanosheets towards the high performance of flexible supercapacitors and bifunctional electrocatalysis. *Journal of Alloys and Compounds*, **2018**, 764, 565-573	5.7	41
35	Intralayered Ostwald Ripening to Ultrathin Nanomesh Catalyst with Robust Oxygen-Evolving Performance. *Advanced Materials*, **2017**, 29, 1604765	24	237
34	Defect-rich MoS2 nanowall catalyst for efficient hydrogen evolution reaction. *Nano Research*, **2017**, 10, 1178-1188	10	117
33	High Performance Supercapacitors from Hierarchical Porous Carbon Aerogels Based on Sliced Bread. *Chinese Journal of Chemistry*, **2017**, 35, 699-706	4.9	8
32	Delocalized Spin States in 2D Atomic Layers Realizing Enhanced Electrocatalytic Oxygen Evolution. *Advanced Materials*, **2017**, 29, 1701687	24	98
31	Highly Active Fe Sites in Ultrathin Pyrrhotite FeS Nanosheets Realizing Efficient Electrocatalytic Oxygen Evolution. *ACS Central Science*, **2017**, 3, 1221-1227	16.8	97
30	The core ubiquitin system of mandarin fish, Siniperca chuatsi, can be utilized by infectious spleen and kidney necrosis virus. *Fish and Shellfish Immunology*, **2017**, 70, 293-301	4.3	17
29	Dual Effect in Fluorine-Doped Hematite Nanocrystals for Efficient Water Oxidation. *ChemSusChem*, **2017**, 10, 4465-4471	8.3	41
28	Vertically aligned oxygen-doped molybdenum disulfide nanosheets grown on carbon cloth realizing robust hydrogen evolution reaction. *Inorganic Chemistry Frontiers*, **2016**, 3, 1160-1166	6.8	46
27	Enhanced Photoexcited Carrier Separation in Oxygen-Doped ZnIn2S4 Nanosheets for Hydrogen Evolution. *Angewandte Chemie*, **2016**, 128, 6828-6832	3.6	34
26	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	5.2	4
25	Enhanced Singlet Oxygen Generation in Oxidized Graphitic Carbon Nitride for Organic Synthesis. *Advanced Materials*, **2016**, 28, 6940-5	24	279
24	Enhanced Photoexcited Carrier Separation in Oxygen-Doped ZnIn2 S4 Nanosheets for Hydrogen Evolution. *Angewandte Chemie - International Edition*, **2016**, 55, 6716-20	16.4	297
23	Transition Metal Nitrides for Electrocatalytic Energy Conversion: Opportunities and Challenges. *Chemistry - A European Journal*, **2016**, 22, 3588-98	4.8	240
22	Siloxene nanosheets: a metal-free semiconductor for water splitting. *Journal of Materials Chemistry A*, **2016**, 4, 15841-15844	13	49
21	IR-Driven Photocatalytic Water Splitting with WO2-NaxWO3 Hybrid Conductor Material. *Nano Letters*, **2015**, 15, 7199-203	11.5	84

20	Ultrathin Black Phosphorus Nanosheets for Efficient Singlet Oxygen Generation. *Journal of the American Chemical Society*, **2015**, 137, 11376-82	16.4	715
19	Half-Metallicity in Single-Layered Manganese Dioxide Nanosheets by Defect Engineering. *Angewandte Chemie*, **2015**, 127, 1211-1215	3.6	54
18	Half-metallicity in single-layered manganese dioxide nanosheets by defect engineering. *Angewandte Chemie - International Edition*, **2015**, 54, 1195-9	16.4	129
17	Structural Engineering of Electrocatalysts for the Hydrogen Evolution Reaction: Order or Disorder?. *ChemCatChem*, **2015**, 7, 2568-2580	5.2	121
16	NIR light induced H2 evolution by a metal-free photocatalyst. *Chemical Communications*, **2015**, 51, 10899-902	5.9	95
15	Structural distortion in graphitic-C3N4 realizing an efficient photoreactivity. *Nanoscale*, **2015**, 7, 5152-6	7.7	134
14	Single-layered graphitic-C(3)N(4) quantum dots for two-photon fluorescence imaging of cellular nucleus. *Advanced Materials*, **2014**, 26, 4438-43	24	442
13	Photoelectrodes based upon Mo:BiVO4 inverse opals for photoelectrochemical water splitting. *ACS Nano*, **2014**, 8, 7088-98	16.7	252
12	Grain boundary engineering in atomically-thin nanosheets achieving bright white light emission. *Chemical Science*, **2014**, 5, 1328	9.4	22
11	Atomically-thin molybdenum nitride nanosheets with exposed active surface sites for efficient hydrogen evolution. *Chemical Science*, **2014**, 5, 4615-4620	9.4	370
10	All-solid-state flexible thin-film supercapacitors with high electrochemical performance based on a two-dimensional V2O5□H2O/graphene composite. *Journal of Materials Chemistry A*, **2014**, 2, 10876	13	63
9	Zirconium trisulfide ultrathin nanosheets as efficient catalysts for water oxidation in both alkaline and neutral solutions. *Inorganic Chemistry Frontiers*, **2014**, 1, 751-756	6.8	46
8	High-performance flexible electrochromic device based on facile semiconductor-to-metal transition realized by WO3□2H2O ultrathin nanosheets. *Scientific Reports*, **2013**, 3, 1936	4.9	197
7	Controllable disorder engineering in oxygen-incorporated MoS2 ultrathin nanosheets for efficient hydrogen evolution. *Journal of the American Chemical Society*, **2013**, 135, 17881-8	16.4	1750
6	Defect-rich MoS2 ultrathin nanosheets with additional active edge sites for enhanced electrocatalytic hydrogen evolution. *Advanced Materials*, **2013**, 25, 5807-13	24	2285
5	Layer-by-layer □Ni(OH)2/graphene nanohybrids for ultraflexible all-solid-state thin-film supercapacitors with high electrochemical performance. *Nano Energy*, **2013**, 2, 65-74	17.1	246
4	Vacancy associates promoting solar-driven photocatalytic activity of ultrathin bismuth oxychloride nanosheets. *Journal of the American Chemical Society*, **2013**, 135, 10411-7	16.4	911
3	Ambient rutile VO2(R) hollow hierarchitectures with rich grain boundaries from new-state nsutite-type VO2, displaying enhanced hydrogen adsorption behavior. *Physical Chemistry Chemical Physics*, **2012**, 14, 4810-6	3.6	53

2	RING finger proteins of infectious spleen and kidney necrosis virus (ISKNV) function as ubiquitin ligase enzymes. *Virus Research*, **2007**, 123, 170-7	6.4	10
1	Electrochemical reduction of nitrate on silver surface and an in situ Raman spectroscopy study. *Inorganic Chemistry Frontiers*,	6.8	2