Xiaoqiang Du

List of Publications by Year in Descending Order

78 papers	1,832 citations	21 h-index	41 g-index
88 ext. papers	2,452 ext. citations	6.2 avg, IF	5.82 L-index

#	Paper	IF	Citations
78	Facile synthesis of MWO4 (M=Co, Ni, Zn and Cu) nanoarrays for efficient urea oxidation. *International Journal of Hydrogen Energy*, **2022**, 47, 8875-8882	6.7	0
77	Rose-like Cu-doped Ni3S2 nanoflowers decorated with thin NiFe LDH nanosheets for high-efficiency overall water and urea electrolysis. *Applied Surface Science*, **2022**, 584, 152622	6.7	1
76	Transition metal atoms M (M = Mn, Fe, Cu, Zn) doped nickel-cobalt sulfides on the Ni foam for efficient oxygen evolution reaction and urea oxidation reaction. *Journal of Alloys and Compounds*, **2022**, 893, 162269	5.7	8
75	Controlled synthesis of M doped N-Ni3S2 (M=Cu, Fe, Co and Ce) on Ni foam as efficient electrocatalyst for urea oxidation reaction and oxygen evolution reaction. *Journal of Alloys and Compounds*, **2022**, 165739	5.7	0
74	MOF-derived Zn□CoNi sulfides with hollow nanosword arrays for high-efficiency overall water and urea electrolysis. *Green Energy and Environment*, **2021**,	5.7	1
73	The bimetal synergistic bifunctional electrocatalysts for hydrogen evolution and oxygen evolution reactions. *Ionics*, **2021**, 27, 2139-2150	2.7	1
72	Controlled synthesis and high performance of ZnNiCoM (M=O, S, P and Se) nanoneedle arrays as an advanced electrode for overall water splitting. *Applied Surface Science*, **2021**, 543, 148818	6.7	7
71	Flower-like Fe-Co-M (M=S, O, P and Se) Nanosheet Arrays Grown on Nickel Foam as High-efficiency Bifunctional Electrocatalysts. *Chemistry - an Asian Journal*, **2021**, 16, 959-965	4.5	1
70	Hierarchical sulfide nanoarrays as an efficient bifunctional electrocatalyst for overall water splitting. *Ionics*, **2021**, 27, 2591-2602	2.7	0
69	Selective sulfuration, phosphorization and selenylation: A universal strategy toward Co-Ni-M@CeO2/NF (M = O, S, P and Se) interface engineering for efficient water splitting electrocatalysis. *Journal of Alloys and Compounds*, **2021**, 864, 158486	5.7	7
68	Surface Modulation of Iron-doped MoS Nanosheets by Phytic Acid for Enhanced Water Oxidation. *Chemistry - an Asian Journal*, **2021**, 16, 1786-1791	4.5	1
67	Facile fabrication of flower-like CuS/MnCO3 microspheres clusters on nickel foam as an efficient bifunctional catalyst for overall water splitting. *International Journal of Hydrogen Energy*, **2021**, 46, 19948-19961	6.7	3
66	Controlled synthesis of P-CoO@NiCo-LDH/NF nanoarrays as binder-free electrodes for water splitting. *Dalton Transactions*, **2021**, 50, 10880-10887	4.3	3
65	Controllable synthesis of Cu-Ni-M (M = S, P and Se) hybrid nanoarrays for efficient water splitting reaction. *Dalton Transactions*, **2021**, 50, 2964-2972	4.3	4
64	Promoting urea oxidation and water oxidation through interface construction on a CeO@CoFeO heterostructure. *Dalton Transactions*, **2021**, 50, 12301-12307	4.3	13
63	Cobalt and nitrogen co-doped NiS nanoflowers on nickel foam as high-efficiency electrocatalysts for overall water splitting in alkaline media. *Dalton Transactions*, **2021**, 50, 8955-8962	4.3	6
62	Cu-doped Ni3S2 Interlaced Nanosheet Arrays as High-efficiency Electrocatalyst Boosting the Alkaline Hydrogen Evolution. *ChemCatChem*, **2021**, 13, 1824-1833	5.2	3

61	Facile synthesis of Ni doped CoWO4 nanoarrays grown on nickel foam substrates for efficient urea oxidation. *International Journal of Hydrogen Energy*, **2021**, 46, 25114-25120	6.7	3
60	Selectively Se-doped Co3O4@CeO2 nanoparticle-dotted nanoneedle arrays for high-efficiency overall water splitting. *Applied Surface Science*, **2021**, 562, 150227	6.7	16
59	NiSe2@NixSy nanorod on nickel foam as efficient bifunctional electrocatalyst for overall water splitting. *International Journal of Hydrogen Energy*, **2021**, 46, 34713-34726	6.7	3
58	Controlled synthesis of Co9S8@NiCo2O4 nanorod arrays as binder-free electrodes for water splitting with impressive performance. *Journal of Alloys and Compounds*, **2021**, 885, 160972	5.7	16
57	Coupling CoP/CoSe heterostructure nanoarrays for boosting overall water splitting. *Dalton Transactions*, **2021**, 50, 6650-6658	4.3	3
56	Controllable synthesis of NiS@MOOH/NF (M = Fe, Ni, Cu, Mn and Co) hybrid structure for the efficient hydrogen evolution reaction. *Dalton Transactions*, **2021**, 50, 14001-14008	4.3	6
55	Superior Water Oxidation Performance over CoMoO4 with High Stability: Synergistic Effect of Oxygen Vacancies and Morphology. *ChemistrySelect*, **2020**, 5, 13305-13308	1.8	
54	Cr doped-Co9S8 nanoarrays as high-efficiency electrocatalysts for water splitting. *Journal of Alloys and Compounds*, **2020**, 824, 153965	5.7	12
53	Effect of cation substitution on the water splitting performance of spinel cobaltite MCo2S4 (M = Ni, Cu and Co). *International Journal of Hydrogen Energy*, **2020**, 45, 12012-12025	6.7	4
52	Controlled Synthesis of Cr-Co Se Nanoarrays for Water Splitting at an Ultralow Cell Voltage of 1.43 V. *Chemistry - an Asian Journal*, **2020**, 15, 1110-1117	4.5	1
51	Metal-organic framework-derived M (M = Fe, Ni, Zn and Mo) doped Co9S8 nanoarrays as efficient electrocatalyst for water splitting: The combination of theoretical calculation and experiment. *Journal of Catalysis*, **2020**, 383, 103-116	7.3	58
50	Oxygen vacancies confined in nickel oxide nanoprism arrays for promoted electrocatalytic water splitting. *New Journal of Chemistry*, **2020**, 44, 1703-1706	3.6	7
49	Controllable synthesis of CoFeMo layered double hydroxide nanoarrays for promoting the oxygen evolution reaction. *Dalton Transactions*, **2020**, 49, 15417-15424	4.3	1
48	Controlled phosphating: a novel strategy toward NiP@CeO interface engineering for efficient oxygen evolution electrocatalysis. *Dalton Transactions*, **2020**, 49, 12581-12585	4.3	5
47	Self-supported multidimensional Ni e phosphide networks as novel and robust water splitting catalyst. *International Journal of Hydrogen Energy*, **2020**, 45, 22921-22928	6.7	8
46	CoSe2@NiSe2 nanoarray as better and efficient electrocatalyst for overall water splitting. *International Journal of Hydrogen Energy*, **2020**, 45, 30611-30621	6.7	5
45	Three-dimensional Co3O4@NiCo2O4 nanoarrays with different morphologies as electrocatalysts for oxygen evolution reaction. *International Journal of Hydrogen Energy*, **2020**, 45, 28598-28606	6.7	6
44	Facile synthesis of molybdenum-based layered double hydroxide nanorods for boosting water oxidation reaction. *International Journal of Hydrogen Energy*, **2020**, 45, 33641-33647	6.7	3

43	A nickel molybdenum oxide nanoarray as an efficient and stable electrocatalyst for overall water splitting. *New Journal of Chemistry*, **2020**, 44, 8176-8182	3.6	11
42	Metal□rganic Framework-Derived Cu-Doped Co9S8 Nanorod Array with Less Low-Valence Co Sites as Highly Efficient Bifunctional Electrodes for Overall Water Splitting. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16917-16926	8.3	97
41	Cu-Co-M arrays on Ni foam as monolithic structured catalysts for water splitting: effects of co-doped S-P. *Dalton Transactions*, **2019**, 48, 1322-1331	4.3	16
40	Oxygen vacancy-confined CoMoO@CoNiO nanorod arrays for oxygen evolution with improved performance. *Dalton Transactions*, **2019**, 48, 10116-10121	4.3	15
39	Preparation of 3D nanostructured MnCo2S4 as a robust electrocatalyst for overall water splitting. *ChemistrySelect*, **2019**, 4, 4499-4505	1.8	5
38	The 3D ultra-thin Cu1-xNixS/NF nanosheet as a highly efficient and stable electrocatalyst for overall water splitting. *International Journal of Hydrogen Energy*, **2019**, 44, 11744-11753	6.7	8
37	Co3O4 arrays with tailored morphology as robust water oxidation and urea splitting catalyst. *Journal of Alloys and Compounds*, **2019**, 809, 151821	5.7	10
36	Surface modification of a Co9S8 nanorods with Ni(OH)2 on nickel foam for high water splitting performance. *International Journal of Hydrogen Energy*, **2019**, 44, 19953-19966	6.7	15
35	Synthesis of CoMoO4/Co9S8 network arrays on nickel foam as efficient urea oxidation and hydrogen evolution catalyst. *International Journal of Hydrogen Energy*, **2019**, 44, 19595-19602	6.7	11
34	3D MnCo2O4@CoS nanoarrays with different morphologies as an electrocatalyst for oxygen evolution reaction. *International Journal of Hydrogen Energy*, **2019**, 44, 21637-21650	6.7	25
33	Controlled Synthesis of CuCo S @Ni(OH) Hybrid Nanorod Arrays for Water Splitting at an Ultralow Cell Voltage of 1.47 V. *Chemistry - an Asian Journal*, **2019**, 14, 3386-3396	4.5	4
32	Ni3S2@Co(OH)2 heterostructures grown on Ni foam as an efficient electrocatalyst for water oxidation. *International Journal of Hydrogen Energy*, **2019**, 44, 22955-22961	6.7	11
31	Mo-doped Co9S8 nanorod array as a high performance electrochemical water splitting catalyst in alkaline solution. *International Journal of Hydrogen Energy*, **2019**, 44, 27765-27771	6.7	10
30	Experimental and Theoretical Understanding on Electrochemical Activation Processes of Nickel Selenide for Excellent Water-Splitting Performance: Comparing the Electrochemical Performances with M□NiSe (M = Co, Cu, and V). *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 19257-19267	8.3	58
29	Dual-functional Co3O4@Co2P4O12 nanoneedles supported on nickel foams with enhanced electrochemical performance and excellent stability for overall urea splitting. *International Journal of Hydrogen Energy*, **2019**, 44, 24705-24711	6.7	6
28	NiCoP coated on NiCo2S4 nanoarrays as electrode materials for hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2019**, 44, 30910-30916	6.7	5
27	Construction of a MnCo2O4@NiyMx (S and P) crosslinked network for efficient electrocatalytic water splitting. *CrystEngComm*, **2019**, 21, 7293-7302	3.3	7
26	Water splitting catalysis beginning with FeCo2S4@Ni(OH)2: Investigation of the true catalyst with favorable stability. *International Journal of Hydrogen Energy*, **2019**, 44, 31902-31915	6.7	10

25	Metal tungstate dominated NiCo2O4@NiWO4 nanorods arrays as an efficient electrocatalyst for water splitting. *International Journal of Hydrogen Energy*, **2019**, 44, 2883-2888	6.7	28
24	Hierarchical Ni3S2 nanosheets coated on Co3O4 nanoneedle arrays on 3D nickel foam as an efficient electrocatalyst for the oxygen evolution reaction. *Journal of Materials Chemistry A*, **2018**, 6, 5098-5106	13	88
23	CuCo2O4 microflowers catalyst with oxygen evolution activity comparable to that of noble metal. *International Journal of Hydrogen Energy*, **2018**, 43, 5012-5018	6.7	44
22	In situ grown Co3O4/Co(OH)2 hybrids as efficient electrocatalysts for water oxidation. *New Journal of Chemistry*, **2018**, 42, 4215-4222	3.6	15
21	Water Oxidation Catalysis Beginning with CuCo S : Investigation of the True Electrochemically Driven Catalyst. *Chemistry - an Asian Journal*, **2018**, 13, 266-270	4.5	24
20	Controlled synthesis of Ni(OH)2/Ni3S2 hybrid nanosheet arrays as highly active and stable electrocatalysts for water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 6938-6946	13	169
19	Controlled synthesis of CoO@NiMoO core-shell nanorod arrays for efficient water splitting. *Dalton Transactions*, **2018**, 47, 12071-12074	4.3	24
18	N-doped mesoporous carbon embedded Co nanoparticles for highly efficient and stable H2 generation from hydrolysis of ammonia borane. *Journal of Power Sources*, **2018**, 399, 89-97	8.9	20
17	Controllable synthesis of NiO/Ni3S2 hybrid arrays as efficient electrocatalysts for water splitting. *New Journal of Chemistry*, **2018**, 42, 18201-18207	3.6	5
16	3D hierarchical CoO@CoS nanoarrays as anode and cathode materials for oxygen evolution reaction and hydrogen evolution reaction. *Dalton Transactions*, **2018**, 47, 16305-16312	4.3	17
15	Effect of Temperature on Thermal Treatment of Silica Coated Magnetic Nanoparticles. *Chemical Research in Chinese Universities*, **2018**, 34, 857-861	2.2	
14	Construction of unique NiCo2S4@Ni3V2O8 hierarchical heterostructures arrays on Ni foam as an efficient electrocatalyst with high stability for water oxidation. *International Journal of Hydrogen Energy*, **2018**, 43, 19955-19964	6.7	35
13	Homogeneous core–shell NiCo2S4 nanorods as flexible electrode for overall water splitting. *International Journal of Hydrogen Energy*, **2018**, 43, 20627-20635	6.7	42
12	NiCo2O4@NiMoO4 Supported on Nickel Foam for Electrocatalytic Water Splitting. *ChemCatChem*, **2018**, 10, 5533-5540	5.2	28
11	Oxide/sulfide-based hybrid arrays as robust electrocatalysts for water splitting. *Dalton Transactions* , **2018**, 47, 10273-10280	4.3	22
10	In Situ Grown Pristine Cobalt Sulfide as Bifunctional Photocatalyst for Hydrogen and Oxygen Evolution. *Advanced Functional Materials*, **2017**, 27, 1605846	15.6	116
9	The mechanism change by switching the reactants from water to hydroxyl ions for electrocatalytic water oxidation: a case study of copper oxide microspheres. *Dalton Transactions*, **2017**, 46, 7327-7331	4.3	37
8	Flower-like 3D CuO microsphere acting as photocatalytic water oxidation catalyst. *Chinese Journal of Catalysis*, **2016**, 37, 123-134	11.3	60

7	Efficient photocatalytic water oxidation catalyzed by polyoxometalate [Fe11(H2O)14(OH)2(W3O10)2(SbW9O33)6](27-) based on abundant metals. *Chemical Communications*, **2015**, 51, 13925-8	5.8	80
6	Ferromagnetic nanocrystallines containing copper as an efficient catalyst for photoinduced water oxidation. *Physical Chemistry Chemical Physics*, **2015**, 17, 10648-55	3.6	20
5	Efficient photocatalytic H2 evolution catalyzed by an unprecedented robust molecular semiconductor {Fe11} nanocluster without cocatalysts at neutral conditions. *Nano Energy*, **2015**, 16, 247-255	17.1	79
4	Morphology-Controlled Self-Assembly and Nanostructured NiO: An Efficient and Robust Photocatalytic Water-Oxidation Catalyst. *ChemCatChem*, **2015**, 7, 2370-2376	5.2	14
3	Efficient noble-metal-free Fe2O3@NiO core-shell nanostructured photocatalysts for water oxidation. *Chemistry - an Asian Journal*, **2014**, 9, 2745-50	4.5	15
2	Hexagonal assembly of Co3V2O8 nanoparticles acting as an efficient catalyst for visible light-driven water oxidation. *Journal of Materials Chemistry A*, **2014**, 2, 19308-19314	13	49
1	K7[CoIIICoII(H2O)W11O39]: a molecular mixed-valence Keggin polyoxometalate catalyst of high stability and efficiency for visible light-driven water oxidation. *Energy and Environmental Science*, **2013**, 6, 1170	35.4	258