

Xiaoqiang Du

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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	K7[CoIII(II)(H2O)W11O39]: a molecular mixed-valence Keggin polyoxometalate catalyst of high stability and efficiency for visible light-driven water oxidation. <i>Energy and Environmental Science</i> , 2013 , 6, 1170	35.4	258
77	Controlled synthesis of Ni(OH)2/Ni3S2 hybrid nanosheet arrays as highly active and stable electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6938-6946	13	169
76	In Situ Grown Pristine Cobalt Sulfide as Bifunctional Photocatalyst for Hydrogen and Oxygen Evolution. <i>Advanced Functional Materials</i> , 2017 , 27, 1605846	15.6	116
75	Metal-Organic Framework-Derived Cu-Doped Co9S8 Nanorod Array with Less Low-Valence Co Sites as Highly Efficient Bifunctional Electrodes for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16917-16926	8.3	97
74	Hierarchical Ni3S2 nanosheets coated on Co3O4 nanoneedle arrays on 3D nickel foam as an efficient electrocatalyst for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5098-5106	13	88
73	Efficient photocatalytic water oxidation catalyzed by polyoxometalate [Fe11(H2O)14(OH)2(W3O10)2(SbW9O33)6](27-) based on abundant metals. <i>Chemical Communications</i> , 2015 , 51, 13925-8	5.8	80
72	Efficient photocatalytic H2 evolution catalyzed by an unprecedented robust molecular semiconductor {Fe11} nanocluster without cocatalysts at neutral conditions. <i>Nano Energy</i> , 2015 , 16, 247-255	17.1	79
71	Flower-like 3D CuO microsphere acting as photocatalytic water oxidation catalyst. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 123-134	11.3	60
70	Experimental and Theoretical Understanding on Electrochemical Activation Processes of Nickel Selenide for Excellent Water-Splitting Performance: Comparing the Electrochemical Performances with MnSe (M = Co, Cu, and V). <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19257-19267	8.3	58
69	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. <i>Journal of Catalysis</i> , 2020 , 383, 103-116	7.3	58
68	Hexagonal assembly of Co3V2O8 nanoparticles acting as an efficient catalyst for visible light-driven water oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19308-19314	13	49
67	CuCo2O4 microflowers catalyst with oxygen evolution activity comparable to that of noble metal. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 5012-5018	6.7	44
66	Homogeneous core-shell NiCo2S4 nanorods as flexible electrode for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20627-20635	6.7	42
65	The mechanism change by switching the reactants from water to hydroxyl ions for electrocatalytic water oxidation: a case study of copper oxide microspheres. <i>Dalton Transactions</i> , 2017 , 46, 7327-7331	4.3	37
64	Construction of unique NiCo2S4@Ni3V2O8 hierarchical heterostructures arrays on Ni foam as an efficient electrocatalyst with high stability for water oxidation. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 19955-19964	6.7	35
63	Metal tungstate dominated NiCo2O4@NiWO4 nanorods arrays as an efficient electrocatalyst for water splitting. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 2883-2888	6.7	28
62	NiCo2O4@NiMoO4 Supported on Nickel Foam for Electrocatalytic Water Splitting. <i>ChemCatChem</i> , 2018 , 10, 5533-5540	5.2	28

61	3D MnCo ₂ O ₄ @CoS nanoarrays with different morphologies as an electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21637-21650	6.7	25
60	Water Oxidation Catalysis Beginning with CuCo S : Investigation of the True Electrochemically Driven Catalyst. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 266-270	4.5	24
59	Controlled synthesis of CoO@NiMoO core-shell nanorod arrays for efficient water splitting. <i>Dalton Transactions</i> , 2018 , 47, 12071-12074	4.3	24
58	Oxide/sulfide-based hybrid arrays as robust electrocatalysts for water splitting. <i>Dalton Transactions</i> , 2018 , 47, 10273-10280	4.3	22
57	Ferromagnetic nanocrystallines containing copper as an efficient catalyst for photoinduced water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 10648-55	3.6	20
56	N-doped mesoporous carbon embedded Co nanoparticles for highly efficient and stable H ₂ generation from hydrolysis of ammonia borane. <i>Journal of Power Sources</i> , 2018 , 399, 89-97	8.9	20
55	3D hierarchical CoO@CoS nanoarrays as anode and cathode materials for oxygen evolution reaction and hydrogen evolution reaction. <i>Dalton Transactions</i> , 2018 , 47, 16305-16312	4.3	17
54	Cu-Co-M arrays on Ni foam as monolithic structured catalysts for water splitting: effects of co-doped S-P. <i>Dalton Transactions</i> , 2019 , 48, 1322-1331	4.3	16
53	Selectively Se-doped Co ₃ O ₄ @CeO ₂ nanoparticle-dotted nanoneedle arrays for high-efficiency overall water splitting. <i>Applied Surface Science</i> , 2021 , 562, 150227	6.7	16
52	Controlled synthesis of Co ₉ S ₈ @NiCo ₂ O ₄ nanorod arrays as binder-free electrodes for water splitting with impressive performance. <i>Journal of Alloys and Compounds</i> , 2021 , 885, 160972	5.7	16
51	Oxygen vacancy-confined CoMoO@CoNiO nanorod arrays for oxygen evolution with improved performance. <i>Dalton Transactions</i> , 2019 , 48, 10116-10121	4.3	15
50	In situ grown Co ₃ O ₄ /Co(OH) ₂ hybrids as efficient electrocatalysts for water oxidation. <i>New Journal of Chemistry</i> , 2018 , 42, 4215-4222	3.6	15
49	Surface modification of a Co ₉ S ₈ nanorods with Ni(OH) ₂ on nickel foam for high water splitting performance. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 19953-19966	6.7	15
48	Efficient noble-metal-free Fe ₃ O ₄ @NiO core-shell nanostructured photocatalysts for water oxidation. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 2745-50	4.5	15
47	Morphology-Controlled Self-Assembly and Nanostructured NiO: An Efficient and Robust Photocatalytic Water-Oxidation Catalyst. <i>ChemCatChem</i> , 2015 , 7, 2370-2376	5.2	14
46	Promoting urea oxidation and water oxidation through interface construction on a CeO@CoFeO heterostructure. <i>Dalton Transactions</i> , 2021 , 50, 12301-12307	4.3	13
45	Cr doped-Co ₉ S ₈ nanoarrays as high-efficiency electrocatalysts for water splitting. <i>Journal of Alloys and Compounds</i> , 2020 , 824, 153965	5.7	12
44	Synthesis of CoMoO ₄ /Co ₉ S ₈ network arrays on nickel foam as efficient urea oxidation and hydrogen evolution catalyst. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 19595-19602	6.7	11

43	Ni ₃ S ₂ @Co(OH) ₂ heterostructures grown on Ni foam as an efficient electrocatalyst for water oxidation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22955-22961	6.7	11
42	A nickel molybdenum oxide nanoarray as an efficient and stable electrocatalyst for overall water splitting. <i>New Journal of Chemistry</i> , 2020 , 44, 8176-8182	3.6	11
41	Co ₃ O ₄ arrays with tailored morphology as robust water oxidation and urea splitting catalyst. <i>Journal of Alloys and Compounds</i> , 2019 , 809, 151821	5.7	10
40	Mo-doped Co ₉ S ₈ nanorod array as a high performance electrochemical water splitting catalyst in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 27765-27771	6.7	10
39	Water splitting catalysis beginning with FeCo ₂ S ₄ @Ni(OH) ₂ : Investigation of the true catalyst with favorable stability. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 31902-31915	6.7	10
38	The 3D ultra-thin Cu _{1-x} Ni _x S/NF nanosheet as a highly efficient and stable electrocatalyst for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 11744-11753	6.7	8
37	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. <i>Journal of Alloys and Compounds</i> , 2022 , 893, 162269	5.7	8
36	Self-supported multidimensional Ni ₂ Fe phosphide networks as novel and robust water splitting catalyst. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 22921-22928	6.7	8
35	Oxygen vacancies confined in nickel oxide nanoprism arrays for promoted electrocatalytic water splitting. <i>New Journal of Chemistry</i> , 2020 , 44, 1703-1706	3.6	7
34	Controlled synthesis and high performance of Zn _{1-x} Ni _x Co ₂ M (M = O, S, P and Se) nanoneedle arrays as an advanced electrode for overall water splitting. <i>Applied Surface Science</i> , 2021 , 543, 148818	6.7	7
33	Selective sulfuration, phosphorization and selenylation: A universal strategy toward Co-Ni-M@CeO ₂ /NF (M = O, S, P and Se) interface engineering for efficient water splitting electrocatalysis. <i>Journal of Alloys and Compounds</i> , 2021 , 864, 158486	5.7	7
32	Construction of a MnCo ₂ O ₄ @Ni _y M _x (S and P) crosslinked network for efficient electrocatalytic water splitting. <i>CrystEngComm</i> , 2019 , 21, 7293-7302	3.3	7
31	Dual-functional Co ₃ O ₄ @Co ₂ P ₄ O ₁₂ nanoneedles supported on nickel foams with enhanced electrochemical performance and excellent stability for overall urea splitting. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 24705-24711	6.7	6
30	Three-dimensional Co ₃ O ₄ @NiCo ₂ O ₄ nanoarrays with different morphologies as electrocatalysts for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 28598-28606	6.7	6
29	Cobalt and nitrogen co-doped NiS nanoflowers on nickel foam as high-efficiency electrocatalysts for overall water splitting in alkaline media. <i>Dalton Transactions</i> , 2021 , 50, 8955-8962	4.3	6
28	Controllable synthesis of NiS@MOOH/NF (M = Fe, Ni, Cu, Mn and Co) hybrid structure for the efficient hydrogen evolution reaction. <i>Dalton Transactions</i> , 2021 , 50, 14001-14008	4.3	6
27	Preparation of 3D nanostructured MnCo ₂ S ₄ as a robust electrocatalyst for overall water splitting. <i>ChemistrySelect</i> , 2019 , 4, 4499-4505	1.8	5
26	NiCoP coated on NiCo ₂ S ₄ nanoarrays as electrode materials for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30910-30916	6.7	5

25	Controlled phosphating: a novel strategy toward NiP@CeO interface engineering for efficient oxygen evolution electrocatalysis. <i>Dalton Transactions</i> , 2020 , 49, 12581-12585	4.3	5
24	CoSe ₂ @NiSe ₂ nanoarray as better and efficient electrocatalyst for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 30611-30621	6.7	5
23	Controllable synthesis of NiO/Ni ₃ S ₂ hybrid arrays as efficient electrocatalysts for water splitting. <i>New Journal of Chemistry</i> , 2018 , 42, 18201-18207	3.6	5
22	Effect of cation substitution on the water splitting performance of spinel cobaltite MCo ₂ S ₄ (M = Ni, Cu and Co). <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 12012-12025	6.7	4
21	Controlled Synthesis of CuCo S @Ni(OH) Hybrid Nanorod Arrays for Water Splitting at an Ultralow Cell Voltage of 1.47 V. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3386-3396	4.5	4
20	Controllable synthesis of Cu-Ni-M (M = S, P and Se) hybrid nanoarrays for efficient water splitting reaction. <i>Dalton Transactions</i> , 2021 , 50, 2964-2972	4.3	4
19	Facile synthesis of molybdenum-based layered double hydroxide nanorods for boosting water oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 33641-33647	6.7	3
18	Facile fabrication of flower-like CuS/MnCO ₃ microspheres clusters on nickel foam as an efficient bifunctional catalyst for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 19948-19963	6.7	3
17	Controlled synthesis of P-CoO@NiCo-LDH/NF nanoarrays as binder-free electrodes for water splitting. <i>Dalton Transactions</i> , 2021 , 50, 10880-10887	4.3	3
16	Cu-doped Ni ₃ S ₂ Interlaced Nanosheet Arrays as High-efficiency Electrocatalyst Boosting the Alkaline Hydrogen Evolution. <i>ChemCatChem</i> , 2021 , 13, 1824-1833	5.2	3
15	Facile synthesis of Ni doped CoWO ₄ nanoarrays grown on nickel foam substrates for efficient urea oxidation. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 25114-25120	6.7	3
14	NiSe ₂ @Ni _x S _y nanorod on nickel foam as efficient bifunctional electrocatalyst for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 34713-34726	6.7	3
13	Coupling CoP/CoSe heterostructure nanoarrays for boosting overall water splitting. <i>Dalton Transactions</i> , 2021 , 50, 6650-6658	4.3	3
12	Rose-like Cu-doped Ni ₃ S ₂ nanoflowers decorated with thin NiFe LDH nanosheets for high-efficiency overall water and urea electrolysis. <i>Applied Surface Science</i> , 2022 , 584, 152622	6.7	1
11	Controlled Synthesis of Cr-Co Se Nanoarrays for Water Splitting at an Ultralow Cell Voltage of 1.43 V. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 1110-1117	4.5	1
10	MOF-derived ZnCoNi sulfides with hollow nanosword arrays for high-efficiency overall water and urea electrolysis. <i>Green Energy and Environment</i> , 2021 ,	5.7	1
9	Controllable synthesis of CoFeMo layered double hydroxide nanoarrays for promoting the oxygen evolution reaction. <i>Dalton Transactions</i> , 2020 , 49, 15417-15424	4.3	1
8	The bimetal synergistic bifunctional electrocatalysts for hydrogen evolution and oxygen evolution reactions. <i>Ionics</i> , 2021 , 27, 2139-2150	2.7	1

7	Flower-like Fe-Co-M (M=S, O, P and Se) Nanosheet Arrays Grown on Nickel Foam as High-efficiency Bifunctional Electrocatalysts. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 959-965	4.5	1
6	Surface Modulation of Iron-doped MoS Nanosheets by Phytic Acid for Enhanced Water Oxidation. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 1786-1791	4.5	1
5	Facile synthesis of MWO ₄ (M=Co, Ni, Zn and Cu) nanoarrays for efficient urea oxidation. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 8875-8882	6.7	0
4	Hierarchical sulfide nanoarrays as an efficient bifunctional electrocatalyst for overall water splitting. <i>Ionics</i> , 2021 , 27, 2591-2602	2.7	0
3	Controlled synthesis of M doped N-Ni ₃ S ₂ (M=Cu, Fe, Co and Ce) on Ni foam as efficient electrocatalyst for urea oxidation reaction and oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2022 , 165739	5.7	0
2	Superior Water Oxidation Performance over CoMoO ₄ with High Stability: Synergistic Effect of Oxygen Vacancies and Morphology. <i>ChemistrySelect</i> , 2020 , 5, 13305-13308	1.8	
1	Effect of Temperature on Thermal Treatment of Silica Coated Magnetic Nanoparticles. <i>Chemical Research in Chinese Universities</i> , 2018 , 34, 857-861	2.2	