

Xiu-Lin Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

3,035
citations

30
h-index

54
g-index

85
ext. papers

3,727
ext. citations

9.5
avg, IF

5.32
L-index

#	Paper	IF	Citations
80	Interface engineering of Co ₂ N _{0.67} /CoMoO ₄ heterostructure nanosheets as a highly active electrocatalyst for overall water splitting and Zn-H ₂ O cell. <i>Chemical Engineering Journal</i> , 2022 , 435, 1347-1357	14.7	1
79	CoS grafted 1T-phase dominated WS ultrathin nanosheet arrays for highly efficient overall water splitting in alkaline media.. <i>Journal of Colloid and Interface Science</i> , 2022 , 615, 577-586	9.3	2
78	Oxygen vacancy-rich N-doped carbon encapsulated BiOCl-CNTs heterostructures as robust electrocatalyst synergistically promote oxygen reduction and Zn-air batteries. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 826-835	9.3	3
77	Interface engineering of porous Fe ₂ P-WO _{2.92} catalyst with oxygen vacancies for highly active and stable large-current oxygen evolution and overall water splitting. <i>Journal of Energy Chemistry</i> , 2022 , 65, 574-582	12	4
76	Electronic Modulation of Pt Nanoparticles on NiN-MoC by Support-Induced Strategy for Accelerating Hydrogen Oxidation and Evolution.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2107-2116	6.4	3
75	Latexin deficiency attenuates adipocyte differentiation and protects mice against obesity and metabolic disorders induced by high-fat diet.. <i>Cell Death and Disease</i> , 2022 , 13, 175	9.8	0
74	Unusual Activity of Rationally Designed Cobalt Phosphide/Oxide Heterostructure Composite for Hydrogen Production in Alkaline Medium.. <i>ACS Nano</i> , 2022 ,	16.7	6
73	Electron-transfer enhanced sponge-like CrP-Re ₂ P as a robust bifunctional electrocatalyst for high-current overall water splitting and Zn-H ₂ O cell. <i>Electrochimica Acta</i> , 2021 , 139598	6.7	0
72	Designing coral-like Fe ₂ O ₃ -regulated Se-rich CoSe ₂ heterostructure as a highly active and stable oxygen evolution electrocatalyst for overall water splitting. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 904, 115928	4.1	1
71	Engineering cobalt nitride nanosheet arrays with rich nitrogen defects as a bifunctional robust oxygen electrocatalyst in rechargeable Zn-air batteries. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 2066-2074	9.3	0
70	Hierarchical Core-Shell N-Doped Carbon@FeP ₄ -CoP Arrays as Robust Bifunctional Electrocatalysts for Overall Water Splitting at High Current Density. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100065	4.6	6
69	Well-Dispersed Ru-Clusters Decorating Nanobox-Structured CoP Synergistically Catalyze the NaBH ₄ Hydrolysis and Electro-Reductive H ₂ Evolution. <i>ChemCatChem</i> , 2021 , 13, 3628-3635	5.2	0
68	Interfacial Electronic Coupling of NC@WO ₃ -W C Decorated Ru Clusters as a Reversible Catalyst toward Electrocatalytic Hydrogen Oxidation and Evolution Reactions. <i>ChemSusChem</i> , 2021 , 14, 2992-3000	8.3	4
67	Structure-regulated Ru particles decorated P-vacancy-rich CoP as a highly active and durable catalyst for NaBH hydrolysis. <i>Journal of Colloid and Interface Science</i> , 2021 , 591, 221-228	9.3	9
66	High selectivity of CO ₂ conversion to formate by porous copper hollow fiber: Microstructure and pressure effects. <i>Electrochimica Acta</i> , 2021 , 365, 137343	6.7	1
65	Shaggy-like Ru-clusters decorated core-shell metal-organic framework-derived CoOx@NPC as high-efficiency catalyst for NaBH ₄ hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7772-7781	6.7	10
64	Interface Engineering of Needle-Like P-Doped MoS ₂ /CoP Arrays as Highly Active and Durable Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemSusChem</i> , 2021 , 14, 1565-1573	8.3	14

63	Bottom-Up Synthesized All-Thermal-Catalyst Aerogels for Heat-Regenerative Air Filtration. <i>Nano Letters</i> , 2021 , 21, 8160-8165	11.5	0
62	Synergistically catalytic enhanced of ZnNi/CoNi dual active sites as highly efficient and durable bifunctional electrocatalyst for rechargeable zinc-air battery. <i>Journal of Power Sources</i> , 2021 , 506, 230221	8.9	1
61	Nanowire-structured FeP-CoP arrays as highly active and stable bifunctional electrocatalyst synergistically promoting high-current overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2021 , 600, 811-819	9.3	4
60	Electronic/mass transport increased hollow porous Cu ₃ P/MoP nanospheres with strong electronic interaction for promoting oxygen reduction in Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120415	21.8	6
59	Dissolution-regrowth of hierarchical Fe-Dy oxide modulates the electronic structure of nickel-organic frameworks as highly active and stable water splitting electrocatalysts. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 1745-1753	11.3	11
58	Oxygen defect-rich double-layer hierarchical porous Co ₃ O ₄ arrays as high-efficient oxygen evolution catalyst for overall water splitting. <i>Journal of Energy Chemistry</i> , 2020 , 47, 299-306	12	37
57	Self-Exfoliated Synthesis of Transition Metal Phosphate Nanolayers for Selective Aerobic Oxidation of Ethyl Lactate to Ethyl Pyruvate. <i>ACS Catalysis</i> , 2020 , 10, 3958-3967	13.1	5
56	Exploring the effect of Ni/Cr contents on the sheet-like NiCr-oxide-decorated CNT composites as highly active and stable catalysts for urea electrooxidation. <i>Clean Energy</i> , 2020 , 4, 58-66	4.7	1
55	Dissolution reconstruction of electron-transfer enhanced hierarchical NiS-MoO nanospheres as a promising industrialized hydrogen evolution catalyst beyond Pt/C. <i>Journal of Colloid and Interface Science</i> , 2020 , 567, 339-346	9.3	16
54	Rational design of highly selective nitrogen-doped Fe ₂ O ₃ -CNTs catalyst towards H ₂ O ₂ generation in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 6128-6137	6.7	15
53	Electron-transfer enhanced MoO ₂ -Ni heterostructures as a highly efficient pH-universal catalyst for hydrogen evolution. <i>Science China Chemistry</i> , 2020 , 63, 841-849	7.9	25
52	Rugae-like Ni ₂ P-CoP nanoarrays as a bi-functional catalyst for hydrogen generation: NaBH ₄ hydrolysis and water reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118584	21.8	49
51	Template synthesis of two-dimensional ternary nickel-cobalt-nitrogen co-doped porous carbon film: Promoting the conductivity and more active sites for oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2020 , 564, 276-285	9.3	20
50	Synergistic catalytic effect of N-doped carbon embedded with CoFe-rich CoFe ₂ O ₄ clusters as highly efficient catalyst towards oxygen reduction. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153015	5.7	16
49	In-situ growth and electronic structure modulation of urchin-like NiBe oxyhydroxide on nickel foam as robust bifunctional catalysts for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 22427-22436	6.7	11
48	Metal-Organic Framework (MOF)-Derived Electron-Transfer Enhanced Homogeneous PdO-Rich CoO as a Highly Efficient Bifunctional Catalyst for Sodium Borohydride Hydrolysis and 4-Nitrophenol Reduction. <i>Chemistry - A European Journal</i> , 2020 , 26, 16923-16931	4.8	11
47	Oxygen-Evolution Catalysts Based on Iron-Mediated Nickel Metal-Organic Frameworks. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6334-6342	5.6	24
46	Hierarchically structured rugae-like RuP ₃ CoP arrays as robust catalysts synergistically promoting hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8865-8872	13	32

45	Electrochemical Conversion of CO ₂ to 2-Bromoethanol in a Membraneless Cell. <i>ACS Energy Letters</i> , 2019 , 4, 600-605	20.1	6
44	Temperature effect on crystallinity and chemical states of nickel hydroxide as alternative superior catalyst for urea electrooxidation. <i>Electrochimica Acta</i> , 2019 , 301, 47-54	6.7	34
43	Design and Mechanistic Study of Highly Durable Carbon-Coated Cobalt Diphosphide Core-Shell Nanostructure Electrocatalysts for the Efficient and Stable Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20752-20761	9.5	14
42	Well-dispersed iron oxide stabilized Fe N ₄ active sites in porous N-doped carbon spheres as alternative superior catalyst for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 12127-12137	6.7	17
41	Palladium nanoclusters decorated partially decomposed porous ZIF-67 polyhedron with ultrahigh catalytic activity and stability on hydrogen generation. <i>Renewable Energy</i> , 2019 , 136, 1064-1070	8.1	38
40	MoS ₂ -coated NbS ₂ nanoflakes grown on glass carbon: an advanced electrocatalyst for the hydrogen evolution reaction. <i>Nanoscale</i> , 2018 , 10, 3444-3450	7.7	17
39	Ceria-Induced Strategy To Tailor Pt Atomic Clusters on Cobalt-Nickel Oxide and the Synergetic Effect for Superior Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7451-7457	8.3	27
38	A hybrid catalyst of Pt/CoNiO ₂ on carbon nanotubes and its synergetic effect towards remarkable ethanol electro-oxidation in alkaline media. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 229-236	5.8	13
37	A simple and rapid dual-cycle amplification strategy for microRNA based on graphene oxide and exonuclease III-assisted fluorescence recovery. <i>Analytical Methods</i> , 2018 , 10, 3777-3782	3.2	4
36	Two-dimensional nickel hydroxide nanosheets with high-content of nickel(III) species towards superior urea electro-oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 829, 81-87	4.1	23
35	Efficient electrochemical transformation of CO to C ₂ C ₄ chemicals on benzimidazole-functionalized copper surfaces. <i>Chemical Communications</i> , 2018 , 54, 11324-11327	5.8	27
34	Symmetrical synergy of hybrid Co ₉ S ₈ -MoS _x electrocatalysts for hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 32, 470-478	17.1	81
33	Scalable Approach To Construct Free-Standing and Flexible Carbon Networks for Lithium-Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8047-8054	9.5	66
32	Surface-reconstructed Cu electrode via a facile electrochemical anodization-reduction process for low overpotential CO ₂ reduction. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 708-712	4.3	6
31	A mesoporous titanium glycolate with exceptional adsorption capacity to remove multiple heavy metal ions in water. <i>RSC Advances</i> , 2017 , 7, 30199-30204	3.7	8
30	Microwave-assisted Synthesis of Pd Oxide-rich Pd Particles on Nitrogen/Sulfur Co-Doped Graphene with Remarkably Enhanced Ethanol Electrooxidation. <i>Fuel Cells</i> , 2017 , 17, 115-122	2.9	14
29	Structurally Deformed MoS ₂ for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2017 , 29, 1703863	24	79
28	Facile Synthesis of Polyhedral Pd Nanocrystals as a Highly Active and Methanol-Tolerant Electrocatalyst for Oxygen Reduction. <i>ChemistrySelect</i> , 2017 , 2, 9291-9297	1.8	7

27	Symmetric synergy of hybrid CoS ₂ /WS ₂ electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15552-15558	13	63
26	Bioinspired Dimensional Transition: Structurally Deformed MoS ₂ for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction (Adv. Mater. 44/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
25	High-Sulfur-Vacancy Amorphous Molybdenum Sulfide as a High Current Electrocatalyst in Hydrogen Evolution. <i>Small</i> , 2016 , 12, 5530-5537	11	138
24	Low overpotential and high current CO ₂ reduction with surface reconstructed Cu foam electrodes. <i>Nano Energy</i> , 2016 , 27, 121-129	17.1	78
23	Microwave-Assisted Synthesis of Highly Dispersed PtCu Nanoparticles on Three-Dimensional Nitrogen-Doped Graphene Networks with Remarkably Enhanced Methanol Electrooxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33673-33680	9.5	63
22	Highly acid-durable carbon coated Co ₃ O ₄ nanoarrays as efficient oxygen evolution electrocatalysts. <i>Nano Energy</i> , 2016 , 25, 42-50	17.1	126
21	Activating basal-plane catalytic activity of two-dimensional MoS ₂ monolayer with remote hydrogen plasma. <i>Nano Energy</i> , 2016 , 30, 846-852	17.1	88
20	Rugae-like FeP nanocrystal assembly on a carbon cloth: an exceptionally efficient and stable cathode for hydrogen evolution. <i>Nanoscale</i> , 2015 , 7, 10974-81	7.7	107
19	CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. <i>Nano Energy</i> , 2015 , 15, 634-641	17.1	290
18	Inkjet printing for direct micropatterning of a superhydrophobic surface: toward biomimetic fog harvesting surfaces. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2844-2852	13	234
17	Microwave-assisted self-doping of TiO ₂ photonic crystals for efficient photoelectrochemical water splitting. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 691-6	9.5	88
16	Novel flower-like titanium phosphate microstructures and their application in lead ion removal from drinking water. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6718-6722	13	32
15	Preparation of graphene-like iron oxide nanofilm/silica composite with enhanced adsorption and efficient photocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8332	13	14
14	Self-assembly of highly dispersed Pt and PtRu nanoparticles on perylene diimide derivatives functionalized carbon nanotubes as enhanced catalysts for methanol electro-oxidation. <i>Journal of Power Sources</i> , 2013 , 240, 536-543	8.9	42
13	Preparation of Pd-decorated fullerenols on carbon nanotubes with excellent electrocatalytic properties in alkaline media. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8105	13	36
12	Removal of multifold heavy metal contaminations in drinking water by porous magnetic Fe ₂ O ₃ @AlO(OH) superstructure. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 473-477	13	85
11	Enhanced electrocatalytic performance for methanol oxidation of Pt nanoparticles on Mn ₃ O ₄ -modified multi-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 11167-11175	6.7	49
10	Dihydronaphthyl-based [60]fullerene bisadducts for efficient and stable polymer solar cells. <i>Chemical Communications</i> , 2012 , 48, 425-7	5.8	113

9	A linear molecule functionalized multi-walled carbon nanotubes with well dispersed PtRu nanoparticles for ethanol electro-oxidation. <i>Applied Catalysis B: Environmental</i> , 2012 , 121-122, 57-64	21.8	38
8	High electrocatalytic activity of PtRu nanoparticles supported on starch-functionalized multi-walled carbon nanotubes for ethanol oxidation. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4257		53
7	A facile and novel approach toward synthetic polypyrrole oligomers functionalization of multi-walled carbon nanotubes as PtRu catalyst support for methanol electro-oxidation. <i>Journal of Power Sources</i> , 2010 , 195, 4634-4640	8.9	73
6	Methanol electro-oxidation on Ni@Pd core-shell nanoparticles supported on multi-walled carbon nanotubes in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3249-3257	6.7	289
5	Highly dispersed Pd nanoparticles on 2-aminophenoxazin-3-one functionalized MWCNTs surface for methanol electro-oxidation in alkaline media. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 171, 109-115	3.1	24
4	Preparation of Pt/CeO ₂ /HCSs anode electrocatalysts for direct methanol fuel cells. <i>Electrochimica Acta</i> , 2010 , 55, 8998-9003	6.7	38
3	Electrocatalytic oxidation of methanol at 2-aminophenoxazin-3-one-functionalized multiwalled carbon nanotubes supported PtRu nanoparticles. <i>Electrochimica Acta</i> , 2009 , 54, 7114-7120	6.7	40
2	Selective Conversion of Carbon Dioxide to Formate with High Current Densities. <i>Journal of Molecular and Engineering Materials</i> , 2150001	1.3	
1	Construction of a self-supporting Ni ₂ P/WO ₃ heterostructure for highly efficient hydrogen evolution under both caustic and acidic conditions. <i>Sustainable Energy and Fuels</i> ,	5.8	2