

# Xiu-Lin Yang

## List of Publications by Citations

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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	CoP nanosheet assembly grown on carbon cloth: A highly efficient electrocatalyst for hydrogen generation. <i>Nano Energy</i> , <b>2015</b> , 15, 634-641	17.1	290
79	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> , <b>2010</b> , 35, 3249-3257	6.7	289
78	Inkjet printing for direct micropatterning of a superhydrophobic surface: toward biomimetic fog harvesting surfaces. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2844-2852	13	234
77	High-Sulfur-Vacancy Amorphous Molybdenum Sulfide as a High Current Electrocatalyst in Hydrogen Evolution. <i>Small</i> , <b>2016</b> , 12, 5530-5537	11	138
76	Highly acid-durable carbon coated Co <sub>3</sub> O <sub>4</sub> nanoarrays as efficient oxygen evolution electrocatalysts. <i>Nano Energy</i> , <b>2016</b> , 25, 42-50	17.1	126
75	Dihydronaphthyl-based [60]fullerene bisadducts for efficient and stable polymer solar cells. <i>Chemical Communications</i> , <b>2012</b> , 48, 425-7	5.8	113
74	Rugae-like FeP nanocrystal assembly on a carbon cloth: an exceptionally efficient and stable cathode for hydrogen evolution. <i>Nanoscale</i> , <b>2015</b> , 7, 10974-81	7.7	107
73	Microwave-assisted self-doping of TiO <sub>2</sub> photonic crystals for efficient photoelectrochemical water splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 691-6	9.5	88
72	Activating basal-plane catalytic activity of two-dimensional MoS <sub>2</sub> monolayer with remote hydrogen plasma. <i>Nano Energy</i> , <b>2016</b> , 30, 846-852	17.1	88
71	Removal of multifold heavy metal contaminations in drinking water by porous magnetic Fe <sub>2</sub> O <sub>3</sub> @AlO(OH) superstructure. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 473-477	13	85
70	Symmetrical synergy of hybrid Co <sub>9</sub> S <sub>8</sub> -MoS <sub>x</sub> electrocatalysts for hydrogen evolution reaction. <i>Nano Energy</i> , <b>2017</b> , 32, 470-478	17.1	81
69	Structurally Deformed MoS for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703863	24	79
68	Low overpotential and high current CO <sub>2</sub> reduction with surface reconstructed Cu foam electrodes. <i>Nano Energy</i> , <b>2016</b> , 27, 121-129	17.1	78
67	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> , <b>2010</b> , 195, 4634-4640	8.9	73
66	Scalable Approach To Construct Free-Standing and Flexible Carbon Networks for Lithium-Sulfur Battery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 8047-8054	9.5	66
65	Microwave-Assisted Synthesis of Highly Dispersed PtCu Nanoparticles on Three-Dimensional Nitrogen-Doped Graphene Networks with Remarkably Enhanced Methanol Electrooxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33673-33680	9.5	63
64	Symmetric synergy of hybrid CoS <sub>2</sub> /WS <sub>2</sub> electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 15552-15558	13	63

63	High electrocatalytic activity of PtRu nanoparticles supported on starch-functionalized multi-walled carbon nanotubes for ethanol oxidation. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 4257		53
62	Enhanced electrocatalytic performance for methanol oxidation of Pt nanoparticles on Mn <sub>3</sub> O <sub>4</sub> -modified multi-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 11167-11175	6.7	49
61	Rugae-like Ni <sub>2</sub> P-CoP nanoarrays as a bi-functional catalyst for hydrogen generation: NaBH <sub>4</sub> hydrolysis and water reduction. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 265, 118584	21.8	49
60	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> , <b>2013</b> , 240, 536-543	8.9	42
59	Electrocatalytic oxidation of methanol at 2-aminophenoxazin-3-one-functionalized multiwalled carbon nanotubes supported PtRu nanoparticles. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 7114-7120	6.7	40
58	A linear molecule functionalized multi-walled carbon nanotubes with well dispersed PtRu nanoparticles for ethanol electro-oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 121-122, 57-64	21.8	38
57	Preparation of Pt/CeO <sub>2</sub> /HCSs anode electrocatalysts for direct methanol fuel cells. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8998-9003	6.7	38
56	Palladium nanoclusters decorated partially decomposed porous ZIF-67 polyhedron with ultrahigh catalytic activity and stability on hydrogen generation. <i>Renewable Energy</i> , <b>2019</b> , 136, 1064-1070	8.1	38
55	Oxygen defect-rich double-layer hierarchical porous Co <sub>3</sub> O <sub>4</sub> arrays as high-efficient oxygen evolution catalyst for overall water splitting. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 47, 299-306	12	37
54	Preparation of Pd-decorated fullerenols on carbon nanotubes with excellent electrocatalytic properties in alkaline media. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 8105	13	36
53	Temperature effect on crystallinity and chemical states of nickel hydroxide as alternative superior catalyst for urea electrooxidation. <i>Electrochimica Acta</i> , <b>2019</b> , 301, 47-54	6.7	34
52	Hierarchically structured rugae-like RuP <sub>3</sub> @CoP arrays as robust catalysts synergistically promoting hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 8865-8872	13	32
51	Novel flower-like titanium phosphate microstructures and their application in lead ion removal from drinking water. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6718-6722	13	32
50	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> , <b>2018</b> , 6, 7451-7457	8.3	27
49	Efficient electrochemical transformation of CO to C <sub>2</sub> C <sub>4</sub> chemicals on benzimidazole-functionalized copper surfaces. <i>Chemical Communications</i> , <b>2018</b> , 54, 11324-11327	5.8	27
48	Electron-transfer enhanced MoO <sub>2</sub> -Ni heterostructures as a highly efficient pH-universal catalyst for hydrogen evolution. <i>Science China Chemistry</i> , <b>2020</b> , 63, 841-849	7.9	25
47	Oxygen-Evolution Catalysts Based on Iron-Mediated Nickel Metal-Organic Frameworks. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6334-6342	5.6	24
46	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> , <b>2010</b> , 171, 109-115	3.1	24

45	Two-dimensional nickel hydroxide nanosheets with high-content of nickel(III) species towards superior urea electro-oxidation. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 829, 81-87	4.1	23
44	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> , <b>2020</b> , 564, 276-285	9.3	20
43	Well-dispersed iron oxide stabilized Fe N4 active sites in porous N-doped carbon spheres as alternative superior catalyst for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 12127-12137	6.7	17
42	MoS-coated NbS nanoflakes grown on glass carbon: an advanced electrocatalyst for the hydrogen evolution reaction. <i>Nanoscale</i> , <b>2018</b> , 10, 3444-3450	7.7	17
41	Dissolution reconstruction of electron-transfer enhanced hierarchical NiS-MoO nanosponges as a promising industrialized hydrogen evolution catalyst beyond Pt/C. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 567, 339-346	9.3	16
40	Synergistic catalytic effect of N-doped carbon embedded with CoFe-rich CoFe2O4 clusters as highly efficient catalyst towards oxygen reduction. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 819, 153015	5.7	16
39	Rational design of highly selective nitrogen-doped Fe2O3-CNTs catalyst towards H2O2 generation in alkaline media. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 6128-6137	6.7	15
38	Microwave-assisted Synthesis of Pd Oxide-rich Pd Particles on Nitrogen/Sulfur Co-Doped Graphene with Remarkably Enhanced Ethanol Electrooxidation. <i>Fuel Cells</i> , <b>2017</b> , 17, 115-122	2.9	14
37	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 &amp; Interfaces</i> , <b>2019</b> , 11, 20752-20761	9.5	14
36	Preparation of graphene-like iron oxide nanofilm/silica composite with enhanced adsorption and efficient photocatalytic properties. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 8332	13	14
35	Interface Engineering of Needle-Like P-Doped MoS /CoP Arrays as Highly Active and Durable Bifunctional Electrocatalyst for Overall Water Splitting. <i>ChemSusChem</i> , <b>2021</b> , 14, 1565-1573	8.3	14
34	A hybrid catalyst of Pt/CoNiO2 on carbon nanotubes and its synergetic effect towards remarkable ethanol electro-oxidation in alkaline media. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 229-236	5.8	13
33	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> , <b>2020</b> , 41, 1745-1753	11.3	11
32	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> , <b>2020</b> , 45, 22427-22436	6.7	11
31	Metal-Organic Framework (MOF)-Derived Electron-Transfer Enhanced Homogeneous PdO-Rich Co O as a Highly Efficient Bifunctional Catalyst for Sodium Borohydride Hydrolysis and 4-Nitrophenol Reduction. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 16923-16931	4.8	11
30	Shaggy-like Ru-clusters decorated core-shell metal-organic framework-derived CoOx@NPC as high-efficiency catalyst for NaBH4 hydrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 7772-7781	6.7	10
29	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> , <b>2021</b> , 591, 221-228	9.3	9
28	A mesoporous titanium glycolate with exceptional adsorption capacity to remove multiple heavy metal ions in water. <i>RSC Advances</i> , <b>2017</b> , 7, 30199-30204	3.7	8

27	Facile Synthesis of Polyhedral Pd Nanocrystals as a Highly Active and Methanol-Tolerant Electrocatalyst for Oxygen Reduction. <i>ChemistrySelect</i> , <b>2017</b> , 2, 9291-9297	1.8	7
26	Surface-reconstructed Cu electrode via a facile electrochemical anodization-reduction process for low overpotential CO <sub>2</sub> reduction. <i>Journal of Saudi Chemical Society</i> , <b>2017</b> , 21, 708-712	4.3	6
25	Electrochemical Conversion of CO <sub>2</sub> to 2-Bromoethanol in a Membraneless Cell. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 600-605	20.1	6
24	Hierarchical Core-Shell N-Doped Carbon@FeP <sub>4</sub> -CoP Arrays as Robust Bifunctional Electrocatalysts for Overall Water Splitting at High Current Density. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100065	4.6	6
23	Electronic/mass transport increased hollow porous Cu <sub>3</sub> P/MoP nanospheres with strong electronic interaction for promoting oxygen reduction in Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 297, 120415	21.8	6
22	Unusual Activity of Rationally Designed Cobalt Phosphide/Oxide Heterostructure Composite for Hydrogen Production in Alkaline Medium.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	6
21	Self-Exfoliated Synthesis of Transition Metal Phosphate Nanolayers for Selective Aerobic Oxidation of Ethyl Lactate to Ethyl Pyruvate. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3958-3967	13.1	5
20	A simple and rapid dual-cycle amplification strategy for microRNA based on graphene oxide and exonuclease III-assisted fluorescence recovery. <i>Analytical Methods</i> , <b>2018</b> , 10, 3777-3782	3.2	4
19	Interfacial Electronic Coupling of NC@WO <sub>3</sub> -W C Decorated Ru Clusters as a Reversible Catalyst toward Electrocatalytic Hydrogen Oxidation and Evolution Reactions. <i>ChemSusChem</i> , <b>2021</b> , 14, 2992-3000	8.3	4
18	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> , <b>2021</b> , 600, 811-819	9.3	4
17	Interface engineering of porous Fe <sub>2</sub> P-WO <sub>2.92</sub> catalyst with oxygen vacancies for highly active and stable large-current oxygen evolution and overall water splitting. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 65, 574-582	12	4
16	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> , <b>2022</b> , 607, 826-835	9.3	3
15	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> , <b>2022</b> , 2107-2116	6.4	3
14	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> , <b>2022</b> , 615, 577-586	9.3	2
13	Construction of a self-supporting Ni <sub>2</sub> P/WO <sub>3</sub> heterostructure for highly efficient hydrogen evolution under both caustic and acidic conditions. <i>Sustainable Energy and Fuels</i> ,	5.8	2
12	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> , <b>2020</b> , 4, 58-66	4.7	1
11	Bioinspired Dimensional Transition: Structurally Deformed MoS <sub>2</sub> for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction (Adv. Mater. 44/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	1
10	Interface engineering of Co <sub>2</sub> N <sub>0.67</sub> /CoMoO <sub>4</sub> heterostructure nanosheets as a highly active electrocatalyst for overall water splitting and Zn-H <sub>2</sub> O cell. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 134795	14.7	1

9	Designing coral-like Fe <sub>2</sub> O <sub>3</sub> -regulated Se-rich CoSe <sub>2</sub> heterostructure as a highly active and stable oxygen evolution electrocatalyst for overall water splitting. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 904, 115928	4.1	1
8	High selectivity of CO <sub>2</sub> conversion to formate by porous copper hollow fiber: Microstructure and pressure effects. <i>Electrochimica Acta</i> , <b>2021</b> , 365, 137343	6.7	1
7	Synergistically catalytic enhanced of Zn <sub>Ni</sub> /Co <sub>Ni</sub> dual active sites as highly efficient and durable bifunctional electrocatalyst for rechargeable zinc-air battery. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230221	8.9	1
6	Electron-transfer enhanced sponge-like CrP-Re <sub>2</sub> P as a robust bifunctional electrocatalyst for high-current overall water splitting and Zn <sub>Ni</sub> /ZnO cell. <i>Electrochimica Acta</i> , <b>2021</b> , 139598	6.7	0
5	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> , <b>2021</b> , 608, 2066-2074	9.3	0
4	Well-Dispersed Ru-Clusters Decorating Nanobox-Structured CoP Synergistically Catalyze the NaBH <sub>4</sub> Hydrolysis and Electro-Reductive H <sub>2</sub> Evolution. <i>ChemCatChem</i> , <b>2021</b> , 13, 3628-3635	5.2	0
3	Bottom-Up Synthesized All-Thermal-Catalyst Aerogels for Heat-Regenerative Air Filtration. <i>Nano Letters</i> , <b>2021</b> , 21, 8160-8165	11.5	0
2	Latexin deficiency attenuates adipocyte differentiation and protects mice against obesity and metabolic disorders induced by high-fat diet.. <i>Cell Death and Disease</i> , <b>2022</b> , 13, 175	9.8	0
1	Selective Conversion of Carbon Dioxide to Formate with High Current Densities. <i>Journal of Molecular and Engineering Materials</i> , 2150001	1.3	