

Zhiyi Lu

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.

62

papers

8,853

citations

38

h-index

64

g-index

64

ext. papers

10,448

ext. citations

11.5

avg, IF

6.14

L-index

#	Paper	IF	Citations
62	Ligand Defect Density Regulation in Metal-Organic Frameworks by Functional Group Engineering on Linkers.. <i>Nano Letters</i> , 2022 ,	11.5	5
61	Oxygen vacancies promoted heterogeneous catalytic ozonation of atrazine by defective 4A zeolite. <i>Journal of Cleaner Production</i> , 2022 , 336, 130376	10.3	2
60	Tafel Analysis Guided Optimization of Zn-O-C Catalysts for the Selective 2-Electron Oxygen Reduction Reaction in Neutral Media.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3409-3416	6.4	1
59	Atomically dispersed lewis acid sites meet poly(ionic liquid)s networks for solvent-free and co-catalyst-free conversion of CO ₂ to cyclic carbonates. <i>Applied Catalysis B: Environmental</i> , 2022 , 313, 121463	21.8	5
58	Fast and Stable Electrochemical Production of H ₂ O ₂ by Electrode Architecture Engineering. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7120-7129	8.3	8
57	Organic wastewater treatment by a single-atom catalyst and electrolytically produced HO. <i>Nature Sustainability</i> , 2021 , 4, 233-241	22.1	105
56	Transformation from a non-radical to a radical pathway the amorphization of a Ni(OH) catalyst as a peroxymonosulfate activator for the ultrafast degradation of organic pollutants. <i>Nanoscale</i> , 2021 , 13, 7700-7708	7.7	0
55	The Critical Role of Additive Sulfate for Stable Alkaline Seawater Oxidation on Nickel-Based Electrodes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22740-22744	16.4	11
54	Enhanced interface interaction in Cu ₂ S@Ni core-shell nanorod arrays as hydrogen evolution reaction electrode for alkaline seawater electrolysis. <i>Journal of Power Sources</i> , 2021 , 506, 230235	8.9	8
53	Atomically Dispersed High-Density Al-N Sites in Porous Carbon for Efficient Photodriven CO Cycloaddition. <i>Advanced Materials</i> , 2021 , 33, e2103186	24	12
52	The Critical Role of Additive Sulfate for Stable Alkaline Seawater Oxidation on Nickel-Based Electrodes. <i>Angewandte Chemie</i> , 2021 , 133, 22922	3.6	2
51	Bubble Consumption Dynamics in Electrochemical Oxygen Reduction. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 473-478	2.2	0
50	Ammonia Thermal Treatment toward Topological Defects in Porous Carbon for Enhanced Carbon Dioxide Electroreduction. <i>Advanced Materials</i> , 2020 , 32, e2001300	24	60
49	Recent Progress on Carbonaceous Material Engineering for Electrochemical Hydrogen Peroxide Generation. <i>Transactions of Tianjin University</i> , 2020 , 26, 188-196	2.9	18
48	Common-Ion Effect Triggered Highly Sustained Seawater Electrolysis with Additional NaCl Production. <i>Research</i> , 2020 , 2020, 2872141	7.8	9
47	Atomically dispersed Lewis acid sites boost 2-electron oxygen reduction activity of carbon-based catalysts. <i>Nature Communications</i> , 2020 , 11, 5478	17.4	38
46	Improved Oxygen Reduction Reaction Activity of Nanostructured CoS ₂ through Electrochemical Tuning. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8605-8614	6.1	21

45	Large-Scale, Low-Cost, and High-Efficiency Water-Splitting System for Clean H ₂ Generation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3971-3977	9.5	23
44	Nitrogen-doped tungsten carbide nanoarray as an efficient bifunctional electrocatalyst for water splitting in acid. <i>Nature Communications</i> , 2018 , 9, 924	17.4	391
43	High-efficiency oxygen reduction to hydrogen peroxide catalysed by oxidized carbon materials. <i>Nature Catalysis</i> , 2018 , 1, 156-162	36.5	632
42	Superwetting Electrodes for Gas-Involving Electrocatalysis. <i>Accounts of Chemical Research</i> , 2018 , 51, 1590-1598	24.3	235
41	Reversible and selective ion intercalation through the top surface of few-layer MoS ₂ . <i>Nature Communications</i> , 2018 , 9, 5289	17.4	70
40	Shell-Protective Secondary Silicon Nanostructures as Pressure-Resistant High-Volumetric-Capacity Anodes for Lithium-Ion Batteries. <i>Nano Letters</i> , 2018 , 18, 7060-7065	11.5	78
39	Lithium Electrochemical Tuning for Electrocatalysis. <i>Advanced Materials</i> , 2018 , 30, e1800978	24	34
38	Identifying the Active Surfaces of Electrochemically Tuned LiCoO ₂ for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6270-6276	16.4	115
37	Transition-Metal Single Atoms in a Graphene Shell as Active Centers for Highly Efficient Artificial Photosynthesis. <i>Chem</i> , 2017 , 3, 950-960	16.2	249
36	Cobalt-Embedded Nitrogen-Doped Carbon Nanotubes as High-Performance Bifunctional Oxygen Catalysts. <i>Energy Technology</i> , 2017 , 5, 1265-1271	3.5	23
35	Superaerophobic RuO ₄ -Based Nanostructured Electrode for High-Performance Chlorine Evolution Reaction. <i>Small</i> , 2017 , 13, 1602240	11	55
34	One-Step Scalable Production of Co _{1-x} S/Graphene Nanocomposite as High-Performance Bifunctional Electrocatalyst. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 569-575	3.1	16
33	High-Performance Water Electrolysis System with Double Nanostructured Superaerophobic Electrodes. <i>Small</i> , 2016 , 12, 2492-8	11	84
32	Binary nickel/iron nitride nanoarrays as bifunctional electrocatalysts for overall water splitting. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 630-634	6.8	119
31	Ternary NiFeMn layered double hydroxides as highly-efficient oxygen evolution catalysts. <i>Chemical Communications</i> , 2016 , 52, 908-11	5.8	230
30	A 3D porous Ni-Cu alloy film for high-performance hydrazine electrooxidation. <i>Nanoscale</i> , 2016 , 8, 1479-84	8.4	59
29	Superaerophilic Carbon-Nanotube-Array Electrode for High-Performance Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2016 , 28, 7155-61	24	159
28	Dehydrated layered double hydroxides: Alcohothermal synthesis and oxygen evolution activity. <i>Nano Research</i> , 2016 , 9, 3152-3161	10	24

27	Bifunctional non-noble metal oxide nanoparticle electrocatalysts through lithium-induced conversion for overall water splitting. <i>Nature Communications</i> , 2015 , 6, 7261	17.4	855
26	Room-temperature synthetic NiFe layered double hydroxide with different anions intercalation as an excellent oxygen evolution catalyst. <i>RSC Advances</i> , 2015 , 5, 55131-55135	3.7	62
25	Trinary Layered Double Hydroxides as High-Performance Bifunctional Materials for Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2015 , 5, 1500245	21.8	265
24	Hierarchical nanoarray materials for advanced nickel/zinc batteries. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 184-187	6.8	72
23	Morphology and Phase Evolution of CoAl Layered Double Hydroxides in an Alkaline Environment with Enhanced Pseudocapacitive Performance. <i>ChemElectroChem</i> , 2015 , 2, 679-683	4.3	12
22	Under-Water Superaerophobic Pine-Shaped Pt Nanoarray Electrode for Ultrahigh-Performance Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2015 , 25, 1737-1744	15.6	283
21	Nanoarray based Superaerophobic Surfaces for gas evolution reaction electrodes. <i>Materials Horizons</i> , 2015 , 2, 294-298	14.4	111
20	Ultrahigh hydrogen evolution performance of under-water "superaerophobic" MoS ₂ nanostructured electrodes. <i>Advanced Materials</i> , 2014 , 26, 2683-7, 2615	24	604
19	Electrochemical tuning of MoS ₂ nanoparticles on three-dimensional substrate for efficient hydrogen evolution. <i>ACS Nano</i> , 2014 , 8, 4940-7	16.7	487
18	Green sacrificial template fabrication of hierarchical MoO ₃ nanostructures. <i>CrystEngComm</i> , 2014 , 16, 3935	3.3	12
17	A 3D Nanoporous NiMo Electrocatalyst with Negligible Overpotential for Alkaline Hydrogen Evolution. <i>ChemElectroChem</i> , 2014 , 1, 1089-1089	4.3	1
16	Three-dimensional NiFe layered double hydroxide film for high-efficiency oxygen evolution reaction. <i>Chemical Communications</i> , 2014 , 50, 6479-82	5.8	634
15	A 3D Nanoporous NiMo Electrocatalyst with Negligible Overpotential for Alkaline Hydrogen Evolution. <i>ChemElectroChem</i> , 2014 , 1, 1138-1144	4.3	94
14	Electrochemical tuning of layered lithium transition metal oxides for improvement of oxygen evolution reaction. <i>Nature Communications</i> , 2014 , 5, 4345	17.4	350
13	Transition metal oxides/hydroxides nanoarrays for aqueous electrochemical energy storage systems. <i>Science China Materials</i> , 2014 , 57, 59-69	7.1	40
12	Electrochemical tuning of vertically aligned MoS ₂ nanofilms and its application in improving hydrogen evolution reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19701-6	11.5	747
11	In situ fabrication of porous MoS ₂ thin-films as high-performance catalysts for electrochemical hydrogen evolution. <i>Chemical Communications</i> , 2013 , 49, 7516-8	5.8	111
10	V ₂ O ₅ nanostructure arrays: controllable synthesis and performance as cathodes for lithium ion batteries. <i>RSC Advances</i> , 2013 , 3, 19937	3.7	14

9	NiTi layered double hydroxide thin films for advanced pseudocapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10655	13	62
8	Ultrathin Co ₃ O ₄ nanosheet arrays with high supercapacitive performance. <i>Scientific Reports</i> , 2013 , 3, 3537	4.9	165
7	One-step scalable preparation of N-doped nanoporous carbon as a high-performance electrocatalyst for the oxygen reduction reaction. <i>Nano Research</i> , 2013 , 6, 293-301	10	137
6	Hierarchical Ni _{0.25} Co _{0.75} (OH) ₂ nanoarrays for a high-performance supercapacitor electrode prepared by an in situ conversion process. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8327	13	68
5	High pseudocapacitive cobalt carbonate hydroxide films derived from CoAl layered double hydroxides. <i>Nanoscale</i> , 2012 , 4, 3640-3	7.7	131
4	Hierarchical Co ₃ O ₄ nanosheet@nanowire arrays with enhanced pseudocapacitive performance. <i>RSC Advances</i> , 2012 , 2, 1663-1668	3.7	103
3	Hierarchical Co ₃ O ₄ @Ni-Co-O supercapacitor electrodes with ultrahigh specific capacitance per area. <i>Nano Research</i> , 2012 , 5, 369-378	10	136
2	Stable ultrahigh specific capacitance of NiO nanorod arrays. <i>Nano Research</i> , 2011 , 4, 658-665	10	152
1	Beta-phased Ni(OH) ₂ nanowall film with reversible capacitance higher than theoretical Faradic capacitance. <i>Chemical Communications</i> , 2011 , 47, 9651-3	5.8	244