

Li Tao

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5509631/li-tao-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

67
papers

6,897
citations

42
h-index

70
g-index

70
ext. papers

8,808
ext. citations

12.5
avg, IF

6.34
L-index

#	Paper	IF	Citations
67	Combined anodic and cathodic hydrogen production from aldehyde oxidation and hydrogen evolution reaction. <i>Nature Catalysis</i> , 2022 , 5, 66-73	36.5	29
66	Transform electrocatalytic biomass upgrading and hydrogen production from electricity input to electricity output.. <i>Angewandte Chemie - International Edition</i> , 2021 , e202115636	16.4	7
65	Tailoring lattice strain in ultra-fine high-entropy alloys for active and stable methanol oxidation. <i>Science China Materials</i> , 2021 , 64, 2454-2466	7.1	9
64	Defect-Rich High-Entropy Oxide Nanosheets for Efficient 5-Hydroxymethylfurfural Electrooxidation. <i>Angewandte Chemie</i> , 2021 , 133, 20415-20420	3.6	5
63	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the N-N Bond. <i>Angewandte Chemie</i> , 2021 , 133, 7373-7383	3.6	13
62	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the N-N Bond. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7297-7307	16.4	49
61	Defect-Rich High-Entropy Oxide Nanosheets for Efficient 5-Hydroxymethylfurfural Electrooxidation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20253-20258	16.4	21
60	Coupling Glucose-Assisted Cu(I)/Cu(II) Redox with Electrochemical Hydrogen Production. <i>Advanced Materials</i> , 2021 , 33, e2104791	24	15
59	Atomically Dispersed Fe on Nanosheet-linked, Defect-rich, Highly N-Doped 3D Porous Carbon for Efficient Oxygen Reduction. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 453-458	2.2	8
58	Identification of the Dynamic Behavior of Oxygen Vacancy-Rich CoO for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12087-12095	16.4	279
57	Coupling N and CO in HO to synthesize urea under ambient conditions. <i>Nature Chemistry</i> , 2020 , 12, 717-726	17.4	146
56	Defect Engineering for Fuel-Cell Electrocatalysts. <i>Advanced Materials</i> , 2020 , 32, e1907879	24	170
55	Advanced Exfoliation Strategies for Layered Double Hydroxides and Applications in Energy Conversion and Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 1909832	15.6	47
54	Defect repair of tin selenide photocathode via in situ selenization: enhanced photoelectrochemical performance and environmental stability. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5342-5349	13	4
53	Defect Engineering on Electrode Materials for Rechargeable Batteries. <i>Advanced Materials</i> , 2020 , 32, e1905923	24	270
52	In Situ Exfoliation and Pt Deposition of Antimonene for Formic Acid Oxidation via a Predominant Dehydrogenation Pathway. <i>Research</i> , 2020 , 2020, 5487237	7.8	5
51	Defect Chemistry on Electrode Materials for Electrochemical Energy Storage and Conversion. <i>ChemNanoMat</i> , 2020 , 6, 1589-1600	3.5	10

50	Charge Transfer Modulated Activity of Carbon-Based Electrocatalysts. <i>Advanced Energy Materials</i> , 2020 , 10, 1901227	21.8	93
49	Electrochemical Oxidation of 5-Hydroxymethylfurfural on Nickel Nitride/Carbon Nanosheets: Reaction Pathway Determined by In Situ Sum Frequency Generation Vibrational Spectroscopy. <i>Angewandte Chemie</i> , 2019 , 131, 16042-16050	3.6	47
48	Electrochemical Oxidation of 5-Hydroxymethylfurfural on Nickel Nitride/Carbon Nanosheets: Reaction Pathway Determined by In Situ Sum Frequency Generation Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15895-15903	16.4	141
47	Rational design of three-phase interfaces for electrocatalysis. <i>Nano Research</i> , 2019 , 12, 2055-2066	10	86
46	Low-temperature plasma technology for electrocatalysis. <i>Chinese Chemical Letters</i> , 2019 , 30, 826-838	8.1	28
45	In-situ evolution of active layers on commercial stainless steel for stable water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 277-285	21.8	64
44	Chemically activated MoS ₂ for efficient hydrogen production. <i>Nano Energy</i> , 2019 , 57, 535-541	17.1	55
43	Defect-Based Single-Atom Electrocatalysts. <i>Small Methods</i> , 2019 , 3, 1800406	12.8	94
42	Bridging the Surface Charge and Catalytic Activity of a Defective Carbon Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1019-1024	16.4	162
41	Efficient Metal-Free Electrocatalysts from N-Doped Carbon Nanomaterials: Mono-Doping and Co-Doping. <i>Advanced Materials</i> , 2019 , 31, e1805121	24	205
40	Bridging the Surface Charge and Catalytic Activity of a Defective Carbon Electrocatalyst. <i>Angewandte Chemie</i> , 2019 , 131, 1031-1036	3.6	29
39	Recent Advances on Non-precious Metal Porous Carbon-based Electrocatalysts for Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018 , 5, 1775-1785	4.3	114
38	3D Carbon Electrocatalysts In Situ Constructed by Defect-Rich Nanosheets and Polyhedrons from NaCl-Sealed Zeolitic Imidazolate Frameworks. <i>Advanced Functional Materials</i> , 2018 , 28, 1705356	15.6	180
37	Plasma-Assisted Synthesis and Surface Modification of Electrode Materials for Renewable Energy. <i>Advanced Materials</i> , 2018 , 30, e1705850	24	323
36	Defect-Enhanced Charge Separation and Transfer within Protection Layer/Semiconductor Structure of Photoanodes. <i>Advanced Materials</i> , 2018 , 30, e1801773	24	51
35	One-step, room temperature generation of porous and amorphous cobalt hydroxysulfides from layered double hydroxides for superior oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24311-24316	13	62
34	Enriched nucleation sites for Pt deposition on ultrathin WO ₃ nanosheets with unique interactions for methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23028-23033	13	49
33	Carbon-Based, Metal-Free Electrocatalysts for Renewable Energy Technologies 2018 , 313-334		

32	Interface engineering of Pt and CeO ₂ nanorods with unique interaction for methanol oxidation. <i>Nano Energy</i> , 2018 , 53, 604-612	17.1	131
31	Ultrafine nano-sulfur particles anchored on in situ exfoliated graphene for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9412-9417	13	68
30	Creating coordinatively unsaturated metal sites in metal-organic-frameworks as efficient electrocatalysts for the oxygen evolution reaction: Insights into the active centers. <i>Nano Energy</i> , 2017 , 41, 417-425	17.1	274
29	In situ growth of cobalt@cobalt-borate core-shell nanosheets as highly-efficient electrocatalysts for oxygen evolution reaction in alkaline/neutral medium. <i>Nanoscale</i> , 2017 , 9, 16059-16065	7.7	57
28	In situ evolution of highly dispersed amorphous CoO clusters for oxygen evolution reaction. <i>Nanoscale</i> , 2017 , 9, 11969-11975	7.7	110
27	Atomic-Scale CoO _x Species in Metal-Organic Frameworks for Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2017 , 27, 1702546	15.6	279
26	Sandwiched Thin-Film Anode of Chemically Bonded Black Phosphorus/Graphene Hybrid for Lithium-Ion Battery. <i>Small</i> , 2017 , 13, 1700758	11	112
25	In situ confined synthesis of molybdenum oxide decorated nickel-iron alloy nanosheets from MoO ₄ ²⁻ intercalated layered double hydroxides for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 87-91	13	122
24	Bridging Covalently Functionalized Black Phosphorus on Graphene for High-Performance Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36849-36856	9.5	106
23	Etched and doped Co ₉ S ₈ /graphene hybrid for oxygen electrocatalysis. <i>Energy and Environmental Science</i> , 2016 , 9, 1320-1326	35.4	652
22	Directional coalescence growth of ultralong Au ₉₃ Pt ₇ alloy nanowires and their superior electrocatalytic performance in ethanol oxidation. <i>Chemical Communications</i> , 2016 , 52, 5164-6	5.8	25
21	Carbon-coated MoS ₂ nanosheets as highly efficient electrocatalysts for the hydrogen evolution reaction. <i>Nanotechnology</i> , 2016 , 27, 045402	3.4	29
20	Edge-rich and dopant-free graphene as a highly efficient metal-free electrocatalyst for the oxygen reduction reaction. <i>Chemical Communications</i> , 2016 , 52, 2764-7	5.8	443
19	Sulfur-Doped Fe/N/C Nanosheets as Highly Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19379-85	9.5	135
18	Cobalt nanoparticle-embedded carbon nanotube/porous carbon hybrid derived from MOF-encapsulated Co ₃ O ₄ for oxygen electrocatalysis. <i>Chemical Communications</i> , 2016 , 52, 9727-30	5.8	254
17	Nonporous MOF-derived dopant-free mesoporous carbon as an efficient metal-free electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9370-9374	13	68
16	Electropolymerized supermolecule derived N, P co-doped carbon nanofiber networks as a highly efficient metal-free electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13726-13730	13	109
15	N-, P- and S-tridoped graphene as metal-free electrocatalyst for oxygen reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 753, 21-27	4.1	54

14	Plasma-engineered MoS ₂ thin-film as an efficient electrocatalyst for hydrogen evolution reaction. <i>Chemical Communications</i> , 2015 , 51, 7470-3	5.8	207
13	Sulfur-doped graphene derived from cycled lithium-sulfur batteries as a metal-free electrocatalyst for the oxygen reduction reaction. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1888-92	16.4	293
12	Sulfur-Doped Graphene Derived from Cycled Lithium-Sulfur Batteries as a Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2015 , 127, 1908-1912	3.6	50
11	One-pot synthesis of nitrogen and sulfur co-doped graphene supported MoS ₂ as high performance anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015 , 177, 298-303	6.7	41
10	Platinum Nanoparticles Supported on Nitrobenzene-Functionalized Multiwalled Carbon Nanotube as Efficient Electrocatalysts for Methanol Oxidation Reaction. <i>Electrochimica Acta</i> , 2015 , 157, 46-53	6.7	27
9	Molecular doping of graphene as metal-free electrocatalyst for oxygen reduction reaction. <i>Chemical Communications</i> , 2014 , 50, 10672-5	5.8	73
8	One-pot synthesis of nitrogen and sulfur co-doped graphene as efficient metal-free electrocatalysts for the oxygen reduction reaction. <i>Chemical Communications</i> , 2014 , 50, 4839-42	5.8	266
7	Silica-facilitated proton transfer for high-temperature proton-exchange membrane fuel cells. <i>Science China Chemistry</i> , 1	7.9	3
6	FeP Modulated Adsorption with Hydrogen and Phosphate Species for Hydrogen Oxidation in High-Temperature Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2106758	15.6	2
5	Doping-Modulated Strain Enhancing the Phosphate Tolerance on PtFe Alloys for High-Temperature Proton Exchange Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2109244	15.6	7
4	Fluorination-enabled interface of PtNi electrocatalysts for high-performance high-temperature proton exchange membrane fuel cells. <i>Science China Materials</i> , 1	7.1	1
3	Advanced Cathode Electrocatalysts for Fuel Cells: Understanding, Construction, and Application of Carbon-Based and Platinum-Based Nanomaterials 1610-1634		9
2	Construction of Nickel-Based Dual Heterointerfaces towards Accelerated Alkaline Hydrogen Evolution via Boosting Multi-Step Elementary Reaction. <i>Advanced Functional Materials</i> , 2104827	15.6	4
1	Defect Engineering on CeO ₂ -Based Catalysts for Heterogeneous Catalytic Applications. <i>Small Structures</i> , 2100058	8.7	14