

Li Tao

List of Publications by Year in descending order

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68
papers

11,093
citations

46918

47
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95083

68
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70
all docs

70
docs citations

70
times ranked

11268
citing authors

#	ARTICLE	IF	CITATIONS
1	Etched and doped Co ₉ S ₈ /graphene hybrid for oxygen electrocatalysis. Energy and Environmental Science, 2016, 9, 1320-1326.	15.6	774
2	<i>Operando</i> Identification of the Dynamic Behavior of Oxygen Vacancy-Rich Co ₃ O ₄ for Oxygen Evolution Reaction. Journal of the American Chemical Society, 2020, 142, 12087-12095.	6.6	736
3	Edge-rich and dopant-free graphene as a highly efficient metal-free electrocatalyst for the oxygen reduction reaction. Chemical Communications, 2016, 52, 2764-2767.	2.2	547
4	Defect Engineering on Electrode Materials for Rechargeable Batteries. Advanced Materials, 2020, 32, e1905923.	11.1	543
5	Coupling N ₂ and CO ₂ in H ₂ O to synthesize urea under ambient conditions. Nature Chemistry, 2020, 12, 717-724.	6.6	485
6	Plasma-Assisted Synthesis and Surface Modification of Electrode Materials for Renewable Energy. Advanced Materials, 2018, 30, e1705850.	11.1	476
7	Creating coordinatively unsaturated metal sites in metal-organic-frameworks as efficient electrocatalysts for the oxygen evolution reaction: Insights into the active centers. Nano Energy, 2017, 41, 417-425.	8.2	386
8	Defect Engineering for Fuel-Cell Electrocatalysts. Advanced Materials, 2020, 32, e1907879.	11.1	338
9	Efficient Metal-Free Electrocatalysts from N-Doped Carbon Nanomaterials: Mono-Doping and Co-Doping. Advanced Materials, 2019, 31, e1805121.	11.1	329
10	Sulfur-Doped Graphene Derived from Cycled Lithium-Sulfur Batteries as a Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2015, 54, 1888-1892.	7.2	328
11	Atomic-Scale CoO _x Species in Metal-Organic Frameworks for Oxygen Evolution Reaction. Advanced Functional Materials, 2017, 27, 1702546.	7.8	327
12	Electrochemical Oxidation of 5-Hydroxymethylfurfural on Nickel Nitride/Carbon Nanosheets: Reaction Pathway Determined by In Situ Sum Frequency Generation Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 15895-15903.	7.2	309
13	One-pot synthesis of nitrogen and sulfur co-doped graphene as efficient metal-free electrocatalysts for the oxygen reduction reaction. Chemical Communications, 2014, 50, 4839-4842.	2.2	302
14	Cobalt nanoparticle-embedded carbon nanotube/porous carbon hybrid derived from MOF-encapsulated Co ₃ O ₄ for oxygen electrocatalysis. Chemical Communications, 2016, 52, 9727-9730.	2.2	291
15	Combined anodic and cathodic hydrogen production from aldehyde oxidation and hydrogen evolution reaction. Nature Catalysis, 2022, 5, 66-73.	16.1	276
16	Plasma-engineered MoS ₂ thin-film as an efficient electrocatalyst for hydrogen evolution reaction. Chemical Communications, 2015, 51, 7470-7473.	2.2	263
17	3D Carbon Electrocatalysts In Situ Constructed by Defect-Rich Nanosheets and Polyhedrons from NaCl-Sealed Zeolitic Imidazolate Frameworks. Advanced Functional Materials, 2018, 28, 1705356.	7.8	233
18	Bridging the Surface Charge and Catalytic Activity of a Defective Carbon Electrocatalyst. Angewandte Chemie - International Edition, 2019, 58, 1019-1024.	7.2	224

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19	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the N-N Bond. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7297-7307.	7.2	204
20	Interface engineering of Pt and CeO ₂ nanorods with unique interaction for methanol oxidation. <i>Nano Energy</i> , 2018, 53, 604-612.	8.2	197
21	Defect-Rich High-Entropy Oxide Nanosheets for Efficient 5-Hydroxymethylfurfural Electrooxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20253-20258.	7.2	184
22	Sulfur-Doped Fe/N/C Nanosheets as Highly Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19379-19385.	4.0	172
23	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.	5.2	157
24	Charge Transfer Modulated Activity of Carbon-Based Electrocatalysts. <i>Advanced Energy Materials</i> , 2020, 10, 1901227.	10.2	156
25	Recent Advances on Non-precious Metal Porous Carbon-based Electrocatalysts for Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018, 5, 1775-1785.	1.7	146
26	Sandwiched Thin-Film Anode of Chemically Bonded Black Phosphorus/Graphene Hybrid for Lithium-Ion Battery. <i>Small</i> , 2017, 13, 1700758.	5.2	145
27	Defect-Based Single-Atom Electrocatalysts. <i>Small Methods</i> , 2019, 3, 1800406.	4.6	139
28	In situ evolution of highly dispersed amorphous CoO _x clusters for oxygen evolution reaction. <i>Nanoscale</i> , 2017, 9, 11969-11975.	2.8	138
29	Rational design of three-phase interfaces for electrocatalysis. <i>Nano Research</i> , 2019, 12, 2055-2066.	5.8	135
30	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.	5.2	131
31	Bridging Covalently Functionalized Black Phosphorus on Graphene for High-Performance Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36849-36856.	4.0	129
32	Coupling Glucose-Assisted Cu(I)/Cu(II) Redox with Electrochemical Hydrogen Production. <i>Advanced Materials</i> , 2021, 33, e2104791.	11.1	126
33	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.	1.6	100
34	In-situ evolution of active layers on commercial stainless steel for stable water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 277-285.	10.8	99
35	Chemically activated MoS ₂ for efficient hydrogen production. <i>Nano Energy</i> , 2019, 57, 535-541.	8.2	95
36	Advanced Exfoliation Strategies for Layered Double Hydroxides and Applications in Energy Conversion and Storage. <i>Advanced Functional Materials</i> , 2020, 30, 1909832.	7.8	94

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37	Defect Engineering on CeO ₂ -Based Catalysts for Heterogeneous Catalytic Applications. Small Structures, 2021, 2, 2100058.	6.9	94
38	One-step, room temperature generation of porous and amorphous cobalt hydroxysulfides from layered double hydroxides for superior oxygen evolution reactions. Journal of Materials Chemistry A, 2018, 6, 24311-24316.	5.2	88
39	Nonporous MOF-derived dopant-free mesoporous carbon as an efficient metal-free electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 9370-9374.	5.2	85
40	Defect-Enhanced Charge Separation and Transfer within Protection Layer/Semiconductor Structure of Photoanodes. Advanced Materials, 2018, 30, e1801773.	11.1	81
41	Ultrafine nano-sulfur particles anchored on in situ exfoliated graphene for lithium-sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 9412-9417.	5.2	80
42	Molecular doping of graphene as metal-free electrocatalyst for oxygen reduction reaction. Chemical Communications, 2014, 50, 10672.	2.2	78
43	N-, P- and S-tridoped graphene as metal-free electrocatalyst for oxygen reduction reaction. Journal of Electroanalytical Chemistry, 2015, 753, 21-27.	1.9	67
44	In situ growth of cobalt@cobalt-borate core-shell nanosheets as highly-efficient electrocatalysts for oxygen evolution reaction in alkaline/neutral medium. Nanoscale, 2017, 9, 16059-16065.	2.8	64
45	Enriched nucleation sites for Pt deposition on ultrathin WO ₃ nanosheets with unique interactions for methanol oxidation. Journal of Materials Chemistry A, 2018, 6, 23028-23033.	5.2	60
46	Low-temperature plasma technology for electrocatalysis. Chinese Chemical Letters, 2019, 30, 826-838.	4.8	57
47	Transforming Electrocatalytic Biomass Upgrading and Hydrogen Production from Electricity Input to Electricity Output. Angewandte Chemie - International Edition, 2022, 61, e202115636.	7.2	50
48	One-pot synthesis of nitrogen and sulfur co-doped graphene supported MoS ₂ as high performance anode materials for lithium-ion batteries. Electrochimica Acta, 2015, 177, 298-303.	2.6	47
49	Doping-Modulated Strain Enhancing the Phosphate Tolerance on PtFe Alloys for High-Temperature Proton Exchange Membrane Fuel Cells. Advanced Functional Materials, 2022, 32, .	7.8	45
50	Tailoring lattice strain in ultra-fine high-entropy alloys for active and stable methanol oxidation. Science China Materials, 2021, 64, 2454-2466.	3.5	43
51	Construction of Nickel-Based Dual Heterointerfaces towards Accelerated Alkaline Hydrogen Evolution via Boosting Multi-Step Elementary Reaction. Advanced Functional Materials, 2021, 31, 2104827.	7.8	42
52	Bridging the Surface Charge and Catalytic Activity of a Defective Carbon Electrocatalyst. Angewandte Chemie, 2019, 131, 1031-1036.	1.6	41
53	Carbon-coated MoS ₂ nanosheets as highly efficient electrocatalysts for the hydrogen evolution reaction. Nanotechnology, 2016, 27, 045402.	1.3	32
54	Defect-Rich High-Entropy Oxide Nanosheets for Efficient 5-Hydroxymethylfurfural Electrooxidation. Angewandte Chemie, 2021, 133, 20415-20420.	1.6	29

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55	Platinum Nanoparticles Supported on Nitrobenzene-Functionalized Multiwalled Carbon Nanotube as Efficient Electrocatalysts for Methanol Oxidation Reaction. <i>Electrochimica Acta</i> , 2015, 157, 46-53.	2.6	28
56	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, 5164-5166.	2.2	26
57	Advanced Cathode Electrocatalysts for Fuel Cells: Understanding, Construction, and Application of Carbon-Based and Platinum-Based Nanomaterials. , 2021, 3, 1610-1634.		26
58	Unveiling the Electrooxidation of Urea: Intramolecular Coupling of the N-N Bond. <i>Angewandte Chemie</i> , 2021, 133, 7373-7383.	1.6	24
59	Structurally ordered high-entropy intermetallic nanoparticles with enhanced C-C bond cleavage for ethanol oxidation. <i>SmartMat</i> , 2023, 4, .	6.4	23
60	Transforming Electrocatalytic Biomass Upgrading and Hydrogen Production from Electricity Input to Electricity Output. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	17
61	Neuron-inspired design of hierarchically porous carbon networks embedded with single-iron sites for efficient oxygen reduction. <i>Science China Chemistry</i> , 2022, 65, 1445-1452.	4.2	17
62	Silica-facilitated proton transfer for high-temperature proton-exchange membrane fuel cells. <i>Science China Chemistry</i> , 2021, 64, 2203-2211.	4.2	16
63	Defect Chemistry on Electrode Materials for Electrochemical Energy Storage and Conversion. <i>ChemNanoMat</i> , 2020, 6, 1589-1600.	1.5	15
64	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.	1.3	12
65	Fluorination-enabled interface of PtNi electrocatalysts for high-performance high-temperature proton exchange membrane fuel cells. <i>Science China Materials</i> , 2022, 65, 904-912.	3.5	11
66	In Situ Exfoliation and Pt Deposition of Antimonene for Formic Acid Oxidation via a Predominant Dehydrogenation Pathway. <i>Research</i> , 2020, 2020, 5487237.	2.8	10
67	FeP Modulated Adsorption with Hydrogen and Phosphate Species for Hydrogen Oxidation in High-Temperature Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2022, 32, 2106758.	7.8	9
68	Defect repair of tin selenide photocathode <i>via in situ</i> selenization: enhanced photoelectrochemical performance and environmental stability. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5342-5349.	5.2	8