

Xiaolong Zhang

List of Publications by Year in descending order

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43
papers

4,435
citations

201674

27
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265206

42
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44
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44
times ranked

5842
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Aluminum-Graphite Dual-Ion Battery. <i>Advanced Energy Materials</i> , 2016, 6, 1502588.	19.5	1,079
2	Nanostructured Mn-based oxides for electrochemical energy storage and conversion. <i>Chemical Society Reviews</i> , 2015, 44, 699-728.	38.1	740
3	$\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Porous Nanorods as High-Rate and Long-Life Cathodes for Li-Ion Batteries. <i>Nano Letters</i> , 2013, 13, 2822-2825.	9.1	257
4	Formation of lattice-dislocated bismuth nanowires on copper foam for enhanced electrocatalytic CO_2 reduction at low overpotential. <i>Energy and Environmental Science</i> , 2019, 12, 1334-1340.	30.8	230
5	In situ incorporation of FeS nanoparticles/carbon nanosheets composite with an interconnected porous structure as a high-performance anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3697-3703.	10.3	153
6	Electrochemical reduction of CO_2 on defect-rich Bi derived from Bi_2S_3 with enhanced formate selectivity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4714-4720.	10.3	144
7	Controllable Synthesis of Few-Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO_2 Reduction Performance. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13283-13287.	13.8	141
8	Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ cathode for rechargeable lithium ion batteries: Nano vs micro, ordered phase (P4332) vs disordered phase (Fd $\bar{3}m$). <i>Nano Research</i> , 2013, 6, 679-687.	10.4	126
9	Photochemical intermolecular dearomative cycloaddition of bicyclic azaarenes with alkenes. <i>Science</i> , 2021, 371, 1338-1345.	12.6	119
10	Facile polymer-assisted synthesis of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ with a hierarchical micro-nano structure and high rate capability. <i>RSC Advances</i> , 2012, 2, 5669.	3.6	111
11	Uniform Incorporation of Flocculent Molybdenum Disulfide Nanostructure into Three-Dimensional Porous Graphene as an Anode for High-Performance Lithium Ion Batteries and Hybrid Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4691-4699.	8.0	99
12	Electrocatalytic carbon dioxide reduction: from fundamental principles to catalyst design. <i>Materials Today Advances</i> , 2020, 7, 100074.	5.2	95
13	A Dual-Ion Battery Constructed with Aluminum Foil Anode and Mesocarbon Microbead Cathode via an Alloying/Intercalation Process in an Ionic Liquid Electrolyte. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600605.	3.7	93
14	Mechanistic understanding of the electrocatalytic CO_2 reduction reaction - New developments based on advanced instrumental techniques. <i>Nano Today</i> , 2020, 31, 100835.	11.9	80
15	Porous $0.2\text{Li}_{0.2}\text{MnO}_3 \cdot 0.8\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ nanorods as cathode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1636-1640.	10.3	71
16	Porous tremella-like MoS_2 /polyaniline hybrid composite with enhanced performance for lithium-ion battery anodes. <i>Electrochimica Acta</i> , 2015, 167, 132-138.	5.2	70
17	Atomic nickel cluster decorated defect-rich copper for enhanced C_2 product selectivity in electrocatalytic CO_2 reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120030.	20.2	66
18	Solvothermal synthesis of $\text{Na}_2\text{Ti}_3\text{O}_7$ nanowires embedded in 3D graphene networks as an anode for high-performance sodium-ion batteries. <i>Electrochimica Acta</i> , 2016, 211, 430-436.	5.2	63

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19	Stannate derived bimetallic nanoparticles for electrocatalytic CO ₂ reduction. Journal of Materials Chemistry A, 2018, 6, 7851-7858.	10.3	61
20	In-situ assembly of three-dimensional MoS ₂ nanoleaves/carbon nanofiber composites derived from bacterial cellulose as flexible and binder-free anodes for enhanced lithium-ion batteries. Electrochimica Acta, 2016, 211, 404-410.	5.2	60
21	Manganese Dioxide/Carbon Nanotubes Composite with Optimized Microstructure via Room Temperature Solution Approach for High Performance Lithium-Ion Battery Anodes. Electrochimica Acta, 2016, 187, 465-472.	5.2	49
22	Selective electrochemical hydrogenation of furfural to 2-methylfuran over a single atom Cu catalyst under mild pH conditions. Green Chemistry, 2021, 23, 3028-3038.	9.0	43
23	Controllable Synthesis of Few-Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO ₂ Reduction Performance. Angewandte Chemie, 2018, 130, 13467-13471.	2.0	42
24	Advanced Composite 2D Energy Materials by Simultaneous Anodic and Cathodic Exfoliation. Advanced Energy Materials, 2018, 8, 1702794.	19.5	41
25	Phosphomolybdic Acid-Assisted Growth of Ultrathin Bismuth Nanosheets for Enhanced Electrocatalytic Reduction of CO ₂ to Formate. ChemSusChem, 2019, 12, 1091-1100.	6.8	38
26	Ordered spinel LiNi _{0.5} Mn _{1.5} O ₄ nanorods for high-rate lithium-ion batteries. Journal of Electroanalytical Chemistry, 2013, 688, 113-117.	3.8	31
27	Two-Dimensional Electrocatalysts for Efficient Reduction of Carbon Dioxide. ChemSusChem, 2020, 13, 59-77.	6.8	31
28	Electrocatalytic CO ₂ Reduction to Formate on Cu Based Surface Alloys with Enhanced Selectivity. ACS Sustainable Chemistry and Engineering, 2019, 7, 19453-19462.	6.7	29
29	Uniform Ultrasmall Manganese Monoxide Nanoparticle/Carbon Nanocomposite as a High-Performance Anode for Lithium Storage. Electrochimica Acta, 2016, 196, 634-641.	5.2	26
30	Cobalt selenide nanoflake decorated reduced graphene oxide nanocomposite for efficient glucose electro-oxidation in alkaline medium. Journal of Materials Chemistry A, 2017, 5, 19289-19296.	10.3	26
31	Bismuth Vanadate with Electrostatically Anchored 3D Carbon Nitride Nano-networks as Efficient Photoanodes for Water Oxidation. ChemSusChem, 2018, 11, 2510-2516.	6.8	25
32	Catalytic multicomponent reaction involving a ketyl-type radical. , 2022, 1, 464-474.		22
33	Identification of a new substrate effect that enhances the electrocatalytic activity of dendritic tin in CO ₂ reduction. Physical Chemistry Chemical Physics, 2018, 20, 5936-5941.	2.8	20
34	Dual Quantum Dot-Decorated Bismuth Vanadate Photoanodes for Highly Efficient Solar Water Oxidation. ChemSusChem, 2019, 12, 1240-1245.	6.8	19
35	Cd-Enhanced Ethanol Selectivity in Electrocatalytic CO ₂ Reduction at Sulfide-Derived Cu ⁺ /Cd. ChemSusChem, 2021, 14, 2924-2934.	6.8	18
36	Al-Active Difluoroboron Complexes with N ₂ O-Bidentate Ligands: Rapid Construction by Copper-Catalyzed C-H Activation. Advanced Science, 2021, 8, e2101814.	11.2	18

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37	Ultra-small Cu nanoparticles embedded in N-doped carbon arrays for electrocatalytic CO ₂ reduction reaction in dimethylformamide. Nano Research, 2018, 11, 3678-3690.	10.4	17
38	The Origin of the Electrocatalytic Activity for CO ₂ Reduction Associated with Metal-Organic Frameworks. ChemSusChem, 2020, 13, 2552-2556.	6.8	17
39	Intergrown LiNi _{0.5} Mn _{1.5} O ₄ ·LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ composite nanorods as high-energy density cathode materials for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 13742.	10.3	16
40	Unique Layer-Doping-Induced Regulation of Charge Behavior in Metal-Free Carbon Nitride Photoanodes for Enhanced Performance. ChemSusChem, 2020, 13, 328-333.	6.8	16
41	Electrohydrogenation of Carbon Dioxide using a Ternary Pd/Cu ₂ O-Cu Catalyst. ChemSusChem, 2019, 12, 4471-4479.	6.8	15
42	Oxomolybdate anchored on copper for electrocatalytic hydrogen production over the entire pH range. Applied Catalysis B: Environmental, 2019, 249, 227-234.	20.2	14
43	Size Controllable Metal Nanoparticles Anchored on Nitrogen Doped Carbon for Electrocatalytic Energy Conversion. ChemElectroChem, 2019, 6, 1508-1513.	3.4	4