

Xiao-Dong Zhu

List of Publications by Year in Descending Order

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Version: 2023-10-03

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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.

74
papers

2,637
citations

30
h-index

49
g-index

81
ext. papers

3,083
ext. citations

7.5
avg, IF

5.5
L-index

#	Paper	IF	Citations
74	Cobalt-iron oxide nanoparticles anchored on carbon nanotube paper to accelerate polysulfide conversion for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2022 , 909, 164805	5.7	1
73	Integrating Co ₃ O ₄ nanoparticles with MnO ₂ nanosheets as bifunctional electrocatalysts for water splitting. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 10356-10365	6.7	10
72	Controllable construction of Ag/MoSe ₂ hybrid architectures for efficient hydrogen evolution and advanced lithium anode. <i>Chemical Engineering Science</i> , 2021 , 233, 116404	4.4	5
71	Multi-dimensionally hierarchical self-supported Cu@Cu ₂ O@Co ₃ O ₄ heterostructure enabling superior lithium-ion storage and electrocatalytic oxygen evolution. <i>Chemical Engineering Journal</i> , 2021 , 405, 126699	14.7	9
70	Cobalt-iron oxide nanotubes decorated with polyaniline as advanced cathode hosts for Li-S batteries. <i>Electrochimica Acta</i> , 2021 , 390, 138873	6.7	3
69	Modulating CoFe ₂ O ₄ nanocube with oxygen vacancy and carbon wrapper towards enhanced electrocatalytic nitrogen reduction to ammonia. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120452	21.8	14
68	Stable anchoring and uniform distribution of SiO ₂ nanotubes on reduced graphene oxide through electrostatic self-assembly for ultra-high lithium storage performance. <i>Carbon</i> , 2020 , 167, 835-842	10.4	20
67	Novel confinement of Mn ₃ O ₄ nanoparticles on two-dimensional carbide enabling high-performance electrochemical synthesis of ammonia under ambient conditions. <i>Chemical Engineering Journal</i> , 2020 , 396, 125163	14.7	17
66	Mechanistic understanding of the role separators playing in advanced lithium-sulfur batteries. <i>Information Materials</i> , 2020 , 2, 483-508	23.1	121
65	A novel Nb and Cu co-doped SrCoO ₃ - δ cathode for intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10862-10870	6.7	10
64	Rational design of MXene@TiO nanoarray enabling dual lithium polysulfide chemisorption towards high-performance lithium-sulfur batteries. <i>Nanoscale</i> , 2020 , 12, 16678-16684	7.7	33
63	Hollow C@TiO ₂ array nanospheres as efficient sulfur hosts for lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5493-5497	5.8	2
62	Thin-carbon-layer-enveloped cobalt-iron oxide nanocages as a high-efficiency sulfur container for LiS batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20604-20611	13	16
61	Synergistically Coupling Black Phosphorus Quantum Dots with MnO Nanosheets for Efficient Electrochemical Nitrogen Reduction Under Ambient Conditions. <i>Small</i> , 2020 , 16, e1907091	11	25
60	Construction of Ag/WS ₂ Zero/Two-Dimensional Hybrid Architectures by Self-Assembly for High-Rate Lithium Storage. <i>ChemElectroChem</i> , 2019 , 6, 4560-4564	4.3	3
59	A general way to fabricate transition metal dichalcogenide/oxide-sandwiched MXene nanosheets as flexible film anodes for high-performance lithium storage. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2577-2582	5.8	18
58	MXene-supported CoO quantum dots for superior lithium storage and oxygen evolution activities. <i>Chemical Communications</i> , 2019 , 55, 1237-1240	5.8	69

57	Efficient polysulfides anchoring for Li-S batteries: Combined physical adsorption and chemical conversion in V ₂ O ₅ hollow spheres wrapped in nitrogen-doped graphene network. <i>Chemical Engineering Journal</i> , 2019 , 378, 122189	14.7	41
56	Self-Standing Hybrid Film of SnO ₂ Nanotubes and MXene as A High-Performance Anode Material for Thin Film Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2019 , 4, 12099-12103	1.8	8
55	From sand to fast and stable silicon anode: Synthesis of hollow Si@void@C yolk-shell microspheres by aluminothermic reduction for lithium storage. <i>Chinese Chemical Letters</i> , 2019 , 30, 610-617	8.1	12
54	Dandelion-like CoO mesoporous nanostructures supported by a Cu foam for efficient oxygen evolution and lithium storage. <i>Chemical Communications</i> , 2018 , 54, 5138-5141	5.8	18
53	Elaborate synthesis of black tin oxide-black titanium oxide core-shell nanotubes for ultrastable and fast lithium storage. <i>Chemical Communications</i> , 2018 , 54, 4790-4793	5.8	16
52	Smartly Designed Hierarchical MnO @Fe O /CNT Hybrid Films as Binder-free Anodes for Superior Lithium Storage. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 3027-3031	4.5	11
51	Direct Exfoliation of High-Quality, Atomically Thin MoSe ₂ Layers in Water. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700107	5.9	9
50	Delicate Ag/V ₂ O ₅ /TiO ₂ ternary nanostructures as a high-performance photocatalyst. <i>Journal of Solid State Chemistry</i> , 2018 , 258, 691-694	3.3	10
49	Exploring the synergy of 2D MXene-supported black phosphorus quantum dots in hydrogen and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21255-21260	13	100
48	LiS Batteries: Ultrathin MXene Nanosheets Decorated with TiO ₂ Quantum Dots as an Efficient Sulfur Host toward Fast and Stable LiS Batteries (Small 41/2018). <i>Small</i> , 2018 , 14, 1870190	11	3
47	Hybrid Architectures based on 2D MXenes and Low-Dimensional Inorganic Nanostructures: Methods, Synergies, and Energy-Related Applications. <i>Small</i> , 2018 , 14, e1803632	11	37
46	Ultrathin MXene Nanosheets Decorated with TiO Quantum Dots as an Efficient Sulfur Host toward Fast and Stable Li-S Batteries. <i>Small</i> , 2018 , 14, e1802443	11	89
45	V ₂ O ₅ nanoparticles confined in ThreeDimensionally organized, porous NitrogenDoped graphene frameworks: Flexible and FreeStanding cathodes for high performance lithium storage. <i>Carbon</i> , 2018 , 140, 218-226	10.4	24
44	High performance BaFe _{1-x} BixO _{3-δ} s cobalt-free cathodes for intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15808-15817	6.7	29
43	Hierarchically organized CNT@TiO ₂ @Mn ₃ O ₄ nanostructures for enhanced lithium storage performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17048-17055	13	32
42	First-Principles Study of the Geometric and Electronic Structures of Zinc Ferrite with Vacancy Defect. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 3753-3760	2.3	17
41	Facile and elegant self-organization of Ag nanoparticles and TiO ₂ nanorods on V ₂ O ₅ nanosheets as a superior cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4900-4907	13	53
40	h-BN Nanosheets as 2D Substrates to Load 0D Fe ₃ O ₄ Nanoparticles: A Hybrid Anode Material for Lithium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 828-33	4.5	42

39	Multi-dimensionally ordered, multi-functionally integrated r-GO@TiO ₂ (B)@Mn ₃ O ₄ yolk-shell superstructures for ultrafast lithium storage. <i>Nano Research</i> , 2016 , 9, 2057-2069	10	33
38	Understanding the sintering temperature effect on oxygen ion conductivity in doped ceria electrolytes. <i>Ionics</i> , 2016 , 22, 1699-1708	2.7	6
37	Molecular level distribution of black phosphorus quantum dots on nitrogen-doped graphene nanosheets for superior lithium storage. <i>Nano Energy</i> , 2016 , 30, 347-354	17.1	94
36	Boosting High-Rate Lithium Storage of V ₂ O ₅ Nanowires by Self-Assembly on N-Doped Graphene Nanosheets. <i>ChemElectroChem</i> , 2016 , 3, 1729-1729	4.3	2
35	Boosting High-Rate Lithium Storage of V ₂ O ₅ Nanowires by Self-Assembly on N-Doped Graphene Nanosheets. <i>ChemElectroChem</i> , 2016 , 3, 1730-1736	4.3	26
34	Delicate ternary heterostructures achieved by hierarchical co-assembly of Ag and Fe ₃ O ₄ nanoparticles on MoS ₂ nanosheets: morphological and compositional synergy in reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2726-2733	13	72
33	Hierarchical assembly of SnO ₂ nanowires on MnO ₂ nanosheets: a novel 1/2D hybrid architecture for high-capacity, reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6477-6483	13	58
32	Densification and grain growth behavior study of trivalent MO _{1.5} (M = Gd, Bi) doped ceria systems. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2815-2821	6	5
31	Creating a synergistic interplay between tubular MoS ₂ and particulate Fe ₃ O ₄ for improved lithium storage. <i>Chemical Communications</i> , 2015 , 51, 11888-91	5.8	37
30	Smart Hybridization of TiO ₂ Nanorods and Fe ₃ O ₄ Nanoparticles with Pristine Graphene Nanosheets: Hierarchically Nanoengineered Ternary Heterostructures for High-Rate Lithium Storage. <i>Advanced Functional Materials</i> , 2015 , 25, 3341-3350	15.6	164
29	Elaborately Designed Hierarchical Heterostructures Consisting of Carbon-Coated TiO ₂ (B) Nanosheets Decorated with Fe ₃ O ₄ Nanoparticles for Remarkable Synergy in High-Rate Lithium Storage. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500239	4.6	39
28	Densification Behavior and Space Charge Blocking Effect of Bi ₂ O ₃ and Gd ₂ O ₃ Co-doped CeO ₂ as Electrolyte for Solid Oxide Fuel Cells. <i>Electrochimica Acta</i> , 2015 , 161, 129-136	6.7	33
27	Scalable production of transition metal disulphide/graphite nanoflake composites for high-performance lithium storage. <i>RSC Advances</i> , 2014 , 4, 41543-41550	3.7	25
26	Coordination-driven hierarchical assembly of silver nanoparticles on MoS ₂ nanosheets for improved lithium storage. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1519-24	4.5	53
25	Flexible and robust MoS ₂ -graphene hybrid paper cross-linked by a polymer ligand: a high-performance anode material for thin film lithium-ion batteries. <i>Chemical Communications</i> , 2013 , 49, 10305-7	5.8	120
24	Densification of Sm _{0.2} Ce _{0.8} O _{1.9} with the addition of lithium oxide as sintering aid. <i>Journal of Power Sources</i> , 2013 , 222, 367-372	8.9	39
23	Sintering and electrochemical performance of Y ₂ O ₃ -doped barium zirconate with Bi ₂ O ₃ as sintering aids. <i>Journal of Power Sources</i> , 2013 , 232, 219-223	8.9	21
22	Enhanced electrochemical performances of CuCrO ₂ /CNTs nanocomposites anodes by in-situ hydrothermal synthesis for lithium ion batteries. <i>Materials Letters</i> , 2013 , 107, 147-149	3.3	16

21	Improved electrochemical performance of CuCrO ₂ anode with CNTs as conductive agent for lithium ion batteries. <i>Materials Letters</i> , 2013 , 97, 113-116	3.3	19
20	Influences of synthesis route and preparation process on the electrochemical properties of Fe-doped strontium cobaltite. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 313-319	2.6	6
19	Co-sintering anode and Y ₂ O ₃ stabilized ZrO ₂ thin electrolyte film for solid oxide fuel cell fabricated by co-tape casting. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10337-10345	6.7	27
18	Constrained sintering of Y ₂ O ₃ -stabilized ZrO ₂ electrolyte on anode substrate. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18365-18371	6.7	8
17	Chemical compatibility, thermal expansion matches and electrochemical performance of SrCo _{0.8} Fe _{0.2} O ₃ ∥La _{0.45} Ce _{0.55} O ₂ ∥ composite cathodes for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12549-12554	6.7	6
16	Effective Ag∥CuO sealant for planar solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2010 , 496, 96-99	5.7	18
15	Fabrication and evaluation of anode and thin Y ₂ O ₃ -stabilized ZrO ₂ film by co-tape casting and co-firing technique. <i>Journal of Power Sources</i> , 2010 , 195, 2644-2648	8.9	37
14	Preparation and performance of large-area La _{0.9} Sr _{0.1} Ga _{0.8} Mg _{0.2} O ₃ ∥ electrolyte for intermediate temperature solid oxide fuel cell. <i>Journal of Power Sources</i> , 2010 , 195, 7583-7586	8.9	13
13	Electrochemical properties of La _{0.8} Sr _{0.2} FeO ₃ ∥ La _{0.45} Ce _{0.55} O ₂ ∥ composite cathodes for intermediate temperature SOFC. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 2257-2260	2.6	6
12	Enhanced cycling stability of micro-sized LiCoO ₂ cathode by Li ₄ Ti ₅ O ₁₂ coating for lithium ion battery. <i>Materials Research Bulletin</i> , 2010 , 45, 456-459	5.1	28
11	Advanced electrochemical performance of Li ₄ Ti ₅ V _{0.05} O ₁₂ as a reversible anode material down to 0V. <i>Journal of Power Sources</i> , 2010 , 195, 285-288	8.9	102
10	Optimization on fabrication and performance of A-site-deficient La _{0.58} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ ∥ cathode for SOFC. <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 455-467	2.6	33
9	A review of recent developments in the surface modification of LiMn ₂ O ₄ as cathode material of power lithium-ion battery. <i>Ionics</i> , 2009 , 15, 779-784	2.7	138
8	Polymer electrolytes based on poly(vinylidene fluoride-co-hexafluoropropylene) with crosslinked poly(ethylene glycol) for lithium batteries. <i>Solid State Ionics</i> , 2009 , 180, 693-697	3.3	21
7	High-performance Li ₄ Ti ₅ V _x O ₁₂ (0 ≤ x ≤ 0.3) as an anode material for secondary lithium-ion battery. <i>Electrochimica Acta</i> , 2009 , 54, 7464-7470	6.7	145
6	Theoretical investigations on the geometric and electronic structures of polyacetylene molecule under the influence of external electric field. <i>EXPRESS Polymer Letters</i> , 2009 , 3, 684-691	3.4	4
5	Improved electrochemical performance of NiO∥La _{0.45} Ce _{0.55} O ₂ ∥ composite anodes for IT-SOFC through the introduction of a La _{0.45} Ce _{0.55} O ₂ ∥ interlayer. <i>Electrochimica Acta</i> , 2008 , 54, 862-867	6.7	13
4	Improved electrochemical performance of SrCo _{0.8} Fe _{0.2} O ₃ ∥La _{0.45} Ce _{0.55} O ₂ ∥ composite cathodes for IT-SOFC. <i>Electrochemistry Communications</i> , 2007 , 9, 431-435	5.1	32

- 3 Comparison of infiltrated ceramic fiber paper and mica base compressive seals for planar solid oxide fuel cells. *Journal of Power Sources*, **2007**, 168, 447-452 8.9 33
- 2 Characterization of electrical properties of GDC doped A-site deficient LSCF based composite cathode using impedance spectroscopy. *Journal of Power Sources*, **2007**, 168, 338-345 8.9 119
- 1 NiCo-Based Electrocatalysts for the Alkaline Oxygen Evolution Reaction: A Review. *ACS Catalysis*, 12485-12509 39