

Xin Guo

List of Publications by Year in descending order

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papers

7,696
citations

53660

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all docs

68
docs citations

68
times ranked

8853
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible sodium-ion capacitors boosted by high electrochemically-reactive and structurally-stable Sb ₂ S ₃ nanowire/Ti ₃ C ₂ T _x MXene film anodes. Nano Research, 2023, 16, 5592-5600.	5.8	20
2	2D Material-Based Heterostructures for Rechargeable Batteries. Advanced Energy Materials, 2022, 12, 2100864.	10.2	91
3	Dense SnS ₂ nanoplates vertically anchored on a graphene aerogel for pseudocapacitive sodium storage. Materials Chemistry Frontiers, 2022, 6, 325-332.	3.2	22
4	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism. Science Advances, 2022, 8, eabm1899.	4.7	26
5	MXene-Based Aerogel Anchored with Antimony Single Atoms and Quantum Dots for High-Performance Potassium-Ion Batteries. Nano Letters, 2022, 22, 1225-1232.	4.5	64
6	Recent advances in seawater in salt electrolytes for aqueous rechargeable monovalent-ion (Li ⁺ , Na ⁺) Tj ETQq0 0.0 rgBT /Overlock 10	7.1	21
7	High Modulation Depth Enabled by Mo ₂ Ti ₂ C ₃ T _x MXene for Q-Switched Pulse Generation in a Mid-Infrared Fiber Laser. Nanomaterials, 2022, 12, 1343.	1.9	11
8	Catalytic Mechanism of Oxygen Vacancies in Perovskite Oxides for Lithium-Sulfur Batteries. Advanced Materials, 2022, 34, e2202222.	11.1	78
9	Synergy of MXene with Se Infiltrated Porous N-Doped Carbon Nanofibers as Janus Electrodes for High-Performance Sodium/Lithium-Selenium Batteries. Advanced Energy Materials, 2022, 12, .	10.2	38
10	The Rise of Prussian Blue Analogs: Challenges and Opportunities for High-Performance Cathode Materials in Potassium-Ion Batteries. Small Structures, 2021, 2, 2000054.	6.9	91
11	Nanoengineering of 2D MXene-Based Materials for Energy Storage Applications. Small, 2021, 17, e1902085.	5.2	398
12	Ultraefficiently Calming Cytokine Storm Using Ti ₃ C ₂ T _x MXene. Small Methods, 2021, 5, 2001108.	4.6	29
13	A universal strategy towards high-energy aqueous multivalent-ion batteries. Nature Communications, 2021, 12, 2857.	5.8	126
14	Nanoconfined SnO ₂ /SnSe ₂ heterostructures in N-doped carbon nanotubes for high-performance sodium-ion batteries. Chemical Engineering Journal, 2021, 418, 129501.	6.6	48
15	Achieving High-Performance 3D K ⁺ -Pre-intercalated Ti ₃ C ₂ T _x MXene for Potassium-Ion Hybrid Capacitors via Regulating Electrolyte Solvation Structure. Angewandte Chemie - International Edition, 2021, 60, 26246-26253.	7.2	50
16	Constructing Atomic Heterometallic Sites in Ultrathin Nickel-Incorporated Cobalt Phosphide Nanosheets via a Boron-Assisted Strategy for Highly Efficient Water Splitting. Nano Letters, 2021, 21, 823-832.	4.5	91
17	A Dual-Protective Artificial Interface for Stable Lithium Metal Anodes. Advanced Energy Materials, 2021, 11, 2102242.	10.2	35
18	MXene-Based Dendrite-Free Potassium Metal Batteries. Advanced Materials, 2020, 32, e1906739.	11.1	244

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19	Na ⁺ Ion Batteries Approaching Old and New Challenges. <i>Advanced Energy Materials</i> , 2020, 10, 2002055.	10.2	229
20	A Stable Conversion and Alloying Anode for Potassium Ion Batteries: A Combined Strategy of Encapsulation and Confinement. <i>Advanced Functional Materials</i> , 2020, 30, 2001588.	7.8	104
21	Antimony-based nanomaterials for high-performance potassium ion batteries. <i>EcoMat</i> , 2020, 2, e12027.	6.8	35
22	Polyolefin-Based Janus Separator for Rechargeable Sodium Batteries. <i>Angewandte Chemie</i> , 2020, 132, 16868-16877.	1.6	5
23	Polyolefin-Based Janus Separator for Rechargeable Sodium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16725-16734.	7.2	102
24	A Robust Transition-Metal Sulfide Anode Material Enabled by Truss Structures. <i>CheM</i> , 2020, 6, 334-336.	5.8	10
25	Boosting Sodium Storage in Two-Dimensional Phosphorene/Ti ₃ C ₂ T _x MXene Nanoarchitectures with Stable Fluorinated Interphase. <i>ACS Nano</i> , 2020, 14, 3651-3659.	7.3	155
26	Interface Engineering of MXene Composite Separator for High-Performance Li-Se and Na-Se Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000446.	10.2	94
27	Boosting Performance of Na-S Batteries Using Sulfur-Doped Ti ₃ C ₂ T _x MXene Nanosheets with a Strong Affinity to Sodium Polysulfides. <i>ACS Nano</i> , 2019, 13, 11500-11509.	7.3	220
28	Two-dimensional Sb@TiO ₂ ^x nanoplates as a high-performance anode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2553-2559.	5.2	42
29	High-Performance Quasi-Solid-State MXene-Based Li-I Batteries. <i>ACS Central Science</i> , 2019, 5, 365-373.	5.3	78
30	WO ₃ nanolayer coated 3D-graphene/sulfur composites for high performance lithium/sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4596-4603.	5.2	47
31	A versatile functionalized ionic liquid to boost the solution-mediated performances of lithium-oxygen batteries. <i>Nature Communications</i> , 2019, 10, 602.	5.8	138
32	Ultrathin Porous NiCo ₂ O ₄ Nanosheets for Lithium-Oxygen Batteries: An Excellent Performance Deriving from an Enhanced Solution Mechanism. <i>ACS Applied Energy Materials</i> , 2019, 2, 4215-4223.	2.5	18
33	Yolk-shell N-doped carbon coated FeS ₂ nanocages as a high-performance anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14051-14059.	5.2	84
34	Porous Mo ₂ C nanorods as an efficient catalyst for the hydrogen evolution reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 132, 230-235.	1.9	32
35	Structuring Al ³⁺ -doped LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ by 3D-birdnest-shaped MnO ₂ . <i>Functional Materials Letters</i> , 2019, 12, 1950051.	0.7	4
36	A nitrogen, sulphur dual-doped hierarchical porous carbon with interconnected conductive polyaniline coating for high-performance sodium-selenium batteries. <i>Energy Storage Materials</i> , 2019, 19, 251-260.	9.5	60

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37	Rational design of free-standing 3D porous MXene/rGO hybrid aerogels as polysulfide reservoirs for high-energy lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6507-6513.	5.2	226
38	Porous Cryo-Dried MXene for Efficient Capacitive Deionization. <i>Joule</i> , 2018, 2, 778-787.	11.7	326
39	Highly Reversible Lithium Polysulfide Semiliquid Battery with Nitrogen-Rich Carbon Fiber Electrodes. <i>Energy Technology</i> , 2018, 6, 251-256.	1.8	11
40	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. <i>Nature Catalysis</i> , 2018, 1, 985-992.	16.1	1,236
41	2D Metal Carbides and Nitrides (MXenes) as High-Performance Electrode Materials for Lithium-Based Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801897.	10.2	341
42	Cobalt-doped MnO ₂ ultrathin nanosheets with abundant oxygen vacancies supported on functionalized carbon nanofibers for efficient oxygen evolution. <i>Nano Energy</i> , 2018, 54, 129-137.	8.2	182
43	MXene-Directed Dual Amphiphilicity at Liquid, Solid, and Gas Interfaces. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3850-3854.	1.7	4
44	MXene encapsulated titanium oxide nanospheres for ultra-stable and fast sodium storage. <i>Energy Storage Materials</i> , 2018, 14, 306-313.	9.5	119
45	Entrapping polysulfides by using ultrathin hollow carbon sphere-functionalized separators in high-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16610-16616.	5.2	76
46	A novel lithium-ion hybrid capacitor based on an aerogel-like MXene wrapped Fe ₂ O ₃ nanosphere anode and a 3D nitrogen sulphur dual-doped porous carbon cathode. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1811-1821.	3.2	65
47	Recent developments of aprotic lithium-oxygen batteries: functional materials determine the electrochemical performance. <i>Science Bulletin</i> , 2017, 62, 442-452.	4.3	54
48	Porous Carbon Composites for Next Generation Rechargeable Lithium Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700283.	10.2	263
49	Sb ₂ O ₃ /MXene(Ti ₃ C ₂ T _x) hybrid anode materials with enhanced performance for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12445-12452.	5.2	245
50	A multi-functional gel co-polymer bridging liquid electrolyte and solid cathode nanoparticles: An efficient route to Li-O ₂ batteries with improved performance. <i>Energy Storage Materials</i> , 2017, 7, 1-7.	9.5	30
51	Fe ₃ C@nitrogen doped CNT arrays aligned on nitrogen functionalized carbon nanofibers as highly efficient catalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19672-19679.	5.2	109
52	Confined Sulfur in 3D MXene/Reduced Graphene Oxide Hybrid Nanosheets for Lithium-Sulfur Battery. <i>Chemistry - A European Journal</i> , 2017, 23, 12613-12619.	1.7	167
53	Ruthenium decorated hierarchically ordered macro-mesoporous carbon for lithium oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9774-9780.	5.2	42
54	Immobilizing Polysulfides with MXene-Functionalized Separators for Stable Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29427-29433.	4.0	234

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55	3D Metal Carbide@Mesoporous Carbon Hybrid Architecture as a New Polysulfide Reservoir for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 8746-8756.	7.8	210
56	Organic sodium terephthalate@graphene hybrid anode materials for sodium-ion batteries. <i>RSC Advances</i> , 2016, 6, 57098-57102.	1.7	49
57	Ultrathin $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanosheets as Anode Materials for Lithium and Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16718-16726.	4.0	87
58	Bifunctional effects of carbon coating on high-capacity $\text{Li}_{1.2}\text{Ni}_{0.13}\text{Co}_{0.13}\text{Mn}_{0.54}\text{O}_2$ cathode for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1027-1035.	1.2	13
59	A bulky and flexible electrocatalyst for efficient hydrogen evolution based on the growth of MoS_2 nanoparticles on carbon nanofiber foam. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5041-5046.	5.2	100
60	Solid-state synthesis and electrochemical performance of Ce-doped $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 174, 369-375.	2.6	54
61	Diethylenetriamine (DETA)-assisted anchoring of Co_3O_4 nanorods on carbon nanotubes as efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1761-1768.	5.2	79
62	Composition dependent activity of Cu^{Pt} nanocrystals for electrochemical reduction of CO_2 . <i>Chemical Communications</i> , 2015, 51, 1345-1348.	2.2	101
63	Ternary polyaniline-graphene- TiO_2 hybrid with enhanced activity for visible-light photo-electrocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1068-1075.	5.2	68
64	Morphologies and structures of carbon coated on $\text{Li}_4\text{Ti}_5\text{O}_{12}$ and their effects on lithium storage performance. <i>Electrochimica Acta</i> , 2014, 130, 470-476.	2.6	48
65	Cu_2O Decorated with Cocatalyst MoS_2 for Solar Hydrogen Production with Enhanced Efficiency under Visible Light. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14238-14245.	1.5	138
66	Solid-state synthesis and electrochemical performance of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ /graphene composite for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 109, 33-38.	2.6	78
67	Synthesis and Electrochemical Property of Flowerlike LiFePO_4 by Poly(ethylene glycol)-assisted Hydrothermal Process. <i>Chinese Journal of Chemical Physics</i> , 2013, 26, 337-340.	0.6	1
68	Sleeping Lion or Sick Man? Machine Learning Approaches to Deciphering Heterogeneous Images of Chinese in North America. <i>Annals of the American Association of Geographers</i> , 0, , 1-19.	1.5	0