

Xi-Tian Zhang

List of Publications by Year in descending order

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94
all docs

94
docs citations

94
times ranked

6673
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitigating side reaction for high capacity retention in lithium-sulfur batteries. Chinese Chemical Letters, 2022, 33, 457-461.	9.0	22
2	Tailoring the Spatial Distribution and Content of Inorganic Nitrides in Solidâ€“Electrolyte Interphases for the Stable Li Anode in Liâ€“S Batteries. Energy and Environmental Materials, 2022, 5, 1180-1188.	12.8	26
3	Regulation of impedance matching feature and electronic structure of nitrogen-doped carbon nanotubes for high-performance electromagnetic wave absorption. Journal of Materials Science and Technology, 2022, 108, 1-9.	10.7	5
4	V₂CT_X catalyzes polysulfide conversion to enhance the redox kinetics of Liâ€“S batteries. Dalton Transactions, 2022, 51, 2560-2566.	3.3	6
5	Rational design of adsorption-catalysis functional separator for highly efficient Li-S batteries. Journal of Alloys and Compounds, 2022, 900, 163414.	5.5	2
6	Imbedding Li ₂ CO ₃ in Li-nafion film to protect Li anode from unexpected dendrites growth. Journal of Alloys and Compounds, 2022, 900, 163444.	5.5	8
7	Photothermal-effect-promoted interfacial OH^{âˆ’} filling and the conversion of carrier type in (Co_{1âˆ’x}Ni_x)₃C during water oxidation. Journal of Materials Chemistry A, 2022, 10, 8258-8267.	10.3	6
8	Computational screening of functionalized MXenes to catalyze the solid and non-solid conversion reactions in cathodes of lithiumâ€“sulfur batteries. Physical Chemistry Chemical Physics, 2022, 24, 8913-8922.	2.8	4
9	Shielding polysulfides enabled by a biomimetic artificial protective layer in lithium-sulfur batteries. Journal of Colloid and Interface Science, 2022, 625, 119-127.	9.4	4
10	Synergistic effect of cocatalytic NiSe₂ on stable 1T-MoS₂ for hydrogen evolution. RSC Advances, 2021, 11, 6842-6849.	3.6	7
11	Nb ₂ CT MXene: High capacity and ultra-long cycle capability for lithium-ion battery by regulation of functional groups. Journal of Energy Chemistry, 2021, 53, 387-395.	12.9	61
12	A strategy to achieve high loading and high energy density Li-S batteries. Journal of Energy Chemistry, 2021, 53, 340-346.	12.9	35
13	An effective strategy for shielding polysulfides and regulating lithium deposition in lithiumâ€“sulfur batteries. Journal of Power Sources, 2021, 489, 229500.	7.8	14
14	Electrolyte Structure of Lithium Polysulfides with Antiâ€“Reductive Solvent Shells for Practical Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2021, 60, 15503-15509.	13.8	108
15	Electrolyte Structure of Lithium Polysulfides with Antiâ€“Reductive Solvent Shells for Practical Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2021, 133, 15631-15637.	2.0	8
16	Partially contacted Ni _x Sy@N, S-codoped carbon yolk-shelled structures for efficient microwave absorption. Carbon, 2021, 182, 276-286.	10.3	47
17	Achieving dendrite-free lithium deposition on the anode of Lithiumâ€“Sulfur battery by LiF-rich regulation layer. Electrochimica Acta, 2021, 393, 138981.	5.2	16
18	One-step synthesis Nb ₂ CT MXene with excellent lithium-ion storage capacity. Journal of Alloys and Compounds, 2021, 889, 161542.	5.5	14

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19	Promoting effect of MXenes on 1T/2H-MoSe ₂ for hydrogen evolution. CrystEngComm, 2021, 23, 4752-4759.	2.6	13
20	Tuning Dielectric Loss of SiO ₂ @CNTs for Electromagnetic Wave Absorption. Nanomaterials, 2021, 11, 2636.	4.1	8
21	A Cobalt(II) Polymer Constructed by N,N'-Bis(3-Pyridinecarboxamide)-1,4-Benzene: Synthesis and Structural Characterization. Crystallography Reports, 2021, 66, 1286-1289.	0.6	2
22	Progress of Two-Dimensional Ti ₃ C ₂ T _x in Supercapacitors. ChemSusChem, 2020, 13, 1296-1329.	6.8	45
23	Three-dimensional architectures assembled with branched metal nanoparticle-encapsulated nitrogen-doped carbon nanotube arrays for absorption of electromagnetic wave. Journal of Alloys and Compounds, 2020, 821, 153267.	5.5	14
24	N-doped reduced graphene oxide aerogels containing pod-like N-doped carbon nanotubes and FeNi nanoparticles for electromagnetic wave absorption. Carbon, 2020, 159, 357-365.	10.3	185
25	First-principles study of high performance lithium/sodium storage of Ti ₃ C ₂ T ₂ nanosheets as electrode materials*. Chinese Physics B, 2020, 29, 016802.	1.4	8
26	3D Ti ₃ C ₂ T _x aerogel-modified separators for high-performance Li-S batteries. Journal of Alloys and Compounds, 2020, 816, 153155.	5.5	15
27	Molybdenum-doped CuO nanosheets on Ni foams with extraordinary specific capacitance for advanced hybrid supercapacitors. Journal of Materials Science, 2020, 55, 2492-2502.	3.7	74
28	Effect of Ti ₃ C ₂ T _x -PEDOT:PSS modified-separators on the electrochemical performance of Li-S batteries. RSC Advances, 2020, 10, 40276-40283.	3.6	5
29	Direct observation of chemical origins in crystalline (Ni _x Co _{1-x}) ₂ B oxygen evolution electrocatalysts. Catalysis Science and Technology, 2020, 10, 2165-2172.	4.1	10
30	Additive-free porous assemblies of Ti ₃ C ₂ T by freeze-drying for high performance supercapacitors. Chinese Chemical Letters, 2020, 31, 1034-1038.	9.0	10
31	A safe etching route to synthesize highly crystalline Nb ₂ C _{T_x} MXene for high performance asymmetric supercapacitor applications. Electrochimica Acta, 2020, 337, 135803.	5.2	99
32	General strategy for fabrication of N-doped carbon nanotube/reduced graphene oxide aerogels for dissipation and conversion of electromagnetic energy. Journal of Materials Chemistry C, 2020, 8, 7847-7857.	5.5	51
33	Novel Li _x Si _y /Nafion as an artificial SEI film to enable dendrite-free Li metal anodes and high stability Li-S batteries. Journal of Materials Chemistry A, 2020, 8, 8979-8988.	10.3	72
34	Flexible Ti ₃ C ₂ T _x /PEDOT:PSS films with outstanding volumetric capacitance for asymmetric supercapacitors. Dalton Transactions, 2019, 48, 1747-1756.	3.3	119
35	Metal organic framework-derived three-dimensional graphene-supported nitrogen-doped carbon nanotube spheres for electromagnetic wave absorption with ultralow filler mass loading. Carbon, 2019, 155, 233-242.	10.3	109
36	One-step synthesis of few-layer niobium carbide MXene as a promising anode material for high-rate lithium ion batteries. Dalton Transactions, 2019, 48, 14433-14439.	3.3	45

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37	Three dimensional graphene-supported nitrogen-doped carbon nanotube architectures for attenuation of electromagnetic energy. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11868-11878.	5.5	50
38	Large-Scale Synthesis of Three-Dimensional Reduced Graphene Oxide/Nitrogen-Doped Carbon Nanotube Heteronanostructures as Highly Efficient Electromagnetic Wave Absorbing Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39100-39108.	8.0	110
39	Ultrasmall FeNi ₃ N particles with an exposed active (110) surface anchored on nitrogen-doped graphene for multifunctional electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1083-1091.	10.3	89
40	Understanding the Different Diffusion Mechanisms of Hydrated Protons and Potassium Ions in Titanium Carbide MXene. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7087-7095.	8.0	36
41	The integration of Mo ₂ C-embedded nitrogen-doped carbon with Co encapsulated in nitrogen-doped graphene layers derived from metal-organic-frameworks as a multi-functional electrocatalyst. <i>Nanoscale</i> , 2019, 11, 12563-12572.	5.6	39
42	Current-density dependence of Li ₂ S/Li ₂ S ₂ growth in lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2019, 12, 2976-2982.	30.8	102
43	The surface engineering of cobalt carbide spheres through N, B co-doping achieved by room-temperature <i>in situ</i> anchoring effects for active and durable multifunctional electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14904-14915.	10.3	88
44	Dual effects of the carbon fibers/Ti ₃ C ₂ T _x interlayer on retarding shuttle of polysulfides for stable Lithium-Sulfur batteries. <i>Electrochimica Acta</i> , 2019, 312, 149-156.	5.2	50
45	Free-standing MXene film modified by amorphous FeOOH quantum dots for high-performance asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2019, 308, 1-8.	5.2	72
46	Towards full demonstration of high areal loading sulfur cathode in lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2019, 39, 17-22.	12.9	87
47	In situ polymerized Ti ₃ C ₂ T _x /PDA electrode with superior areal capacitance for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 778, 858-865.	5.5	63
48	One-pot synthesis of SL-MoS ₂ /C/Ti ₃ C ₂ T _x @C hierarchical superstructures for ultralong cycle-life Li-ion batteries. <i>Electrochimica Acta</i> , 2019, 295, 286-293.	5.2	8
49	Three-Dimensional Hierarchical MoS ₂ Nanosheets/Ultralong N-Doped Carbon Nanotubes as High-Performance Electromagnetic Wave Absorbing Material. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14108-14115.	8.0	170
50	Self-supported NiMo-based nanowire arrays as bifunctional electrocatalysts for full water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8479-8487.	10.3	134
51	Self-supported cobalt nitride porous nanowire arrays as bifunctional electrocatalyst for overall water splitting. <i>Electrochimica Acta</i> , 2018, 273, 229-238.	5.2	98
52	Role of the H-containing groups on the structural dynamics of Ti ₃ C ₂ T _x MXene. <i>Physica B: Condensed Matter</i> , 2018, 537, 155-161.	2.7	17
53	An ultra-small NiFe ₂ O ₄ hollow particle/graphene hybrid: fabrication and electromagnetic wave absorption property. <i>Nanoscale</i> , 2018, 10, 2697-2703.	5.6	184
54	Synthesis and characterization of three-dimensional MoS ₂ @carbon fibers hierarchical architecture with high capacity and high mass loading for Li-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 327-333.	9.4	27

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55	Self-assembled Ti ₃ C ₂ T _x /SCNT composite electrode with improved electrochemical performance for supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2018, 511, 128-134.	9.4	107
56	First-principle study of the Nb ₂ C/T ₂ systems as electrode materials for supercapacitors. <i>Computational Materials Science</i> , 2018, 143, 225-231.	3.0	26
57	Nickel Nanoparticle Encapsulated in Few-Layer Nitrogen-Doped Graphene Supported by Nitrogen-Doped Graphite Sheets as a High-Performance Electromagnetic Wave Absorbing Material. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1399-1407.	8.0	155
58	Growth of CoFe ₂ O ₄ hollow nanoparticles on graphene sheets for high-performance electromagnetic wave absorbers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12781-12787.	5.5	82
59	3D Ti ₃ C ₂ T _x aerogels with enhanced surface area for high performance supercapacitors. <i>Nanoscale</i> , 2018, 10, 20828-20835.	5.6	105
60	Fe-Ni-Mo Nitride Porous Nanotubes for Full Water Splitting and Zn-Air Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802327.	19.5	227
61	Hierarchical Hollow Spheres Assembled with Ultrathin CoMn Double Hydroxide Nanosheets as Trifunctional Electrocatalyst for Overall Water Splitting and Zn Air Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14641-14651.	6.7	51
62	Enhanced electromagnetic wave absorption induced by void spaces in hollow nanoparticles. <i>Nanoscale</i> , 2018, 10, 18742-18748.	5.6	88
63	Nitrogen-doped carbon nanosheets containing Fe ₃ C nanoparticles encapsulated in nitrogen-doped graphene shells for high-performance electromagnetic wave absorbing materials. <i>Carbon</i> , 2018, 140, 368-376.	10.3	93
64	Ti ₃ C ₂ T _x -foam as free-standing electrode for supercapacitor with improved electrochemical performance. <i>Ceramics International</i> , 2018, 44, 13901-13907.	4.8	31
65	Ag-Nanoparticle-Decorated 2D Titanium Carbide (MXene) with Superior Electrochemical Performance for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7442-7450.	6.7	120
66	Hollow N-Doped Carbon Polyhedron Containing CoNi Alloy Nanoparticles Embedded within Few-Layer N-Doped Graphene as High-Performance Electromagnetic Wave Absorbing Material. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24920-24929.	8.0	224
67	Rationally designing S/Ti ₃ C ₂ T _x as a cathode material with an interlayer for high-rate and long-cycle lithium-sulfur batteries. <i>Nanoscale</i> , 2018, 10, 16935-16942.	5.6	50
68	A facile and green template-engaged synthesis of PbSe nanotubes with the assistance of Vc. <i>CrystEngComm</i> , 2018, 20, 5570-5575.	2.6	4
69	Free-standing Ti ₃ C ₂ T _x electrode with ultrahigh volumetric capacitance. <i>RSC Advances</i> , 2017, 7, 11998-12005.	3.6	98
70	Highly Stable Three-Dimensional Porous Nickel-Iron Nitride Nanosheets for Full Water Splitting at High Current Densities. <i>Chemistry - A European Journal</i> , 2017, 23, 10187-10194.	3.3	61
71	Highly stable three-dimensional nickel-iron oxyhydroxide catalysts for oxygen evolution reaction at high current densities. <i>Electrochimica Acta</i> , 2017, 245, 770-779.	5.2	37
72	Bimetallic Ni-Mo nitride nanotubes as highly active and stable bifunctional electrocatalysts for full water splitting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13648-13658.	10.3	191

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73	Structural formation and charge storage mechanisms for intercalated two-dimensional carbides MXenes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9509-9518.	2.8	19
74	Performance evaluation of asymmetric supercapacitor based on Ti ₃ C ₂ T _x -paper. <i>Journal of Alloys and Compounds</i> , 2017, 729, 1165-1171.	5.5	26
75	Crystal Co ₃ B ($\chi = 1 \times 10^{-3}$) Synthesized by a Ball-Milling Method as High-Performance Electrocatalysts for the Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10266-10274.	6.7	76
76	New Ti ₃ C ₂ aerogel as promising negative electrode materials for asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2017, 364, 234-241.	7.8	205
77	N-Doped graphene-supported Co@CoO core-shell nanoparticles as high-performance bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12046-12053.	10.3	91
78	Hollow CoP nanoparticle/N-doped graphene hybrids as highly active and stable bifunctional catalysts for full water splitting. <i>Nanoscale</i> , 2016, 8, 10902-10907.	5.6	158
79	A bismuth oxide nanosheet-coated electrospun carbon nanofiber film: a free-standing negative electrode for flexible asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16635-16644.	10.3	124
80	Hierarchical nickel-cobalt phosphide yolk-shell spheres as highly active and stable bifunctional electrocatalysts for overall water splitting. <i>Nanoscale</i> , 2016, 8, 19129-19138.	5.6	140
81	Electrochemically activated-iron oxide nanosheet arrays on carbon fiber cloth as a three-dimensional self-supported electrode for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6048-6055.	10.3	66
82	Coupling Hollow Fe ₃ O ₄ Fe Nanoparticles with Graphene Sheets for High-Performance Electromagnetic Wave Absorbing Material. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3730-3735.	8.0	427
83	Nanostructured molybdenum phosphide/N,P dual-doped carbon nanotube composite as electrocatalysts for hydrogen evolution. <i>RSC Advances</i> , 2016, 6, 7370-7377.	3.6	30
84	Two-dimensional titanium carbide electrode with large mass loading for supercapacitor. <i>Journal of Power Sources</i> , 2015, 294, 354-359.	7.8	199
85	Ultrathin MoSe ₂ Nanosheets Decorated on Carbon Fiber Cloth as Binder-Free and High-Performance Electrocatalyst for Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14170-14175.	8.0	165
86	Facile fabrication of ZnO:S/ZnO hetero-nanostructures and their electronic structure investigation by electron energy loss spectroscopy. <i>CrystEngComm</i> , 2015, 17, 2250-2254.	2.6	4
87	Hierarchical nanosheet-based CoMoO ₄ NiMoO ₄ nanotubes for applications in asymmetric supercapacitors and the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22750-22758.	10.3	140
88	Quantitative investigation on the effect of hydrogenation on the performance of MnO ₂ /H-TiO ₂ composite electrodes for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3785-3793.	10.3	36
89	Controllable growth of ZnO ZnSe heterostructures for visible-light photocatalysis. <i>CrystEngComm</i> , 2014, 16, 1201-1206.	2.6	46
90	Rationally designed hierarchical ZnCo ₂ O ₄ /Ni(OH) ₂ nanostructures for high-performance pseudocapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20462-20469.	10.3	67

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91	Recognition of the Source Rock Using Biomarkers From Eocene Reservoir Oils. <i>Petroleum Science and Technology</i> , 2013, 31, 1689-1696.	1.5	1
92	Synthesis and transport properties of Si-doped $\text{In}_2\text{O}_3(\text{ZnO})_3$ superlattice nanobelts. <i>CrystEngComm</i> , 2011, 13, 3569.	2.6	10
93	Enhancement of near-band edge emission of Au/ZnO composite nanobelts by surface plasmon resonance. <i>CrystEngComm</i> , 2011, 13, 3678.	2.6	32
94	High-yield synthesis of $\text{In}_{2-x}\text{Ga}_x\text{O}_3(\text{ZnO})_3$ nanobelts with a planar superlattice structure. <i>CrystEngComm</i> , 2010, 12, 2047.	2.6	19