## Xi-Tian Zhang

List of Publications by Year in descending order

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94 papers 6,532 citations

47006 47 h-index 79 g-index

94 all docs 94
docs citations

94 times ranked 6673 citing authors

#	Article	IF	CITATIONS
1	Coupling Hollow Fe <sub>3</sub> O <sub>4</sub> –Fe Nanoparticles with Graphene Sheets for High-Performance Electromagnetic Wave Absorbing Material. ACS Applied Materials & Lamp; Interfaces, 2016, 8, 3730-3735.	8.0	427
2	Feâ€Niâ€Mo Nitride Porous Nanotubes for Full Water Splitting and Znâ€Air Batteries. Advanced Energy Materials, 2018, 8, 1802327.	19.5	227
3	Hollow N-Doped Carbon Polyhedron Containing CoNi Alloy Nanoparticles Embedded within Few-Layer N-Doped Graphene as High-Performance Electromagnetic Wave Absorbing Material. ACS Applied Materials & Diterfaces, 2018, 10, 24920-24929.	8.0	224
4	New Ti 3 C 2 aerogel as promising negative electrode materials for asymmetric supercapacitors. Journal of Power Sources, 2017, 364, 234-241.	7.8	205
5	Two-dimensional titanium carbide electrode with large mass loading for supercapacitor. Journal of Power Sources, 2015, 294, 354-359.	7.8	199
6	Bimetallic Ni–Mo nitride nanotubes as highly active and stable bifunctional electrocatalysts for full water splitting. Journal of Materials Chemistry A, 2017, 5, 13648-13658.	10.3	191
7	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
8	An ultra-small NiFe <sub>2</sub> O <sub>4</sub> hollow particle/graphene hybrid: fabrication and electromagnetic wave absorption property. Nanoscale, 2018, 10, 2697-2703.	5.6	184
9	Three-Dimensional Hierarchical MoS <sub>2</sub> Nanosheets/Ultralong N-Doped Carbon Nanotubes as High-Performance Electromagnetic Wave Absorbing Material. ACS Applied Materials & Samp; Interfaces, 2018, 10, 14108-14115.	8.0	170
10	Ultrathin MoSe <sub>2</sub> Nanosheets Decorated on Carbon Fiber Cloth as Binder-Free and High-Performance Electrocatalyst for Hydrogen Evolution. ACS Applied Materials & Samp; Interfaces, 2015, 7, 14170-14175.	8.0	165
11	Hollow CoP nanopaticle/N-doped graphene hybrids as highly active and stable bifunctional catalysts for full water splitting. Nanoscale, 2016, 8, 10902-10907.	5.6	158
12	Nickel Nanoparticle Encapsulated in Few-Layer Nitrogen-Doped Graphene Supported by Nitrogen-Doped Graphite Sheets as a High-Performance Electromagnetic Wave Absorbing Material. ACS Applied Materials & Acs Applied & Acs Applied Materials & Acs Applied &	8.0	155
13	Hierarchical nanosheet-based CoMoO <sub>4</sub> â€"NiMoO <sub>4</sub> nanotubes for applications in asymmetric supercapacitors and the oxygen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 22750-22758.	10.3	140
14	Hierarchical nickel–cobalt phosphide yolk–shell spheres as highly active and stable bifunctional electrocatalysts for overall water splitting. Nanoscale, 2016, 8, 19129-19138.	5.6	140
15	Self-supported NiMo-based nanowire arrays as bifunctional electrocatalysts for full water splitting. Journal of Materials Chemistry A, 2018, 6, 8479-8487.	10.3	134
16	A bismuth oxide nanosheet-coated electrospun carbon nanofiber film: a free-standing negative electrode for flexible asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 16635-16644.	10.3	124
17	Ag-Nanoparticle-Decorated 2D Titanium Carbide (MXene) with Superior Electrochemical Performance for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 7442-7450.	6.7	120
18	Flexible Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /PEDOT:PSS films with outstanding volumetric capacitance for asymmetric supercapacitors. Dalton Transactions, 2019, 48, 1747-1756.	3.3	119

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19	Large-Scale Synthesis of Three-Dimensional Reduced Graphene Oxide/Nitrogen-Doped Carbon Nanotube Heteronanostructures as Highly Efficient Electromagnetic Wave Absorbing Materials. ACS Applied Materials & Interfaces, 2019, 11, 39100-39108.	8.0	110
20	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
21	Electrolyte Structure of Lithium Polysulfides with Antiâ€Reductive Solvent Shells for Practical Lithium–Sulfur Batteries. Angewandte Chemie - International Edition, 2021, 60, 15503-15509.	13.8	108
22	Self-assembled Ti3C2Tx/SCNT composite electrode with improved electrochemical performance for supercapacitor. Journal of Colloid and Interface Science, 2018, 511, 128-134.	9.4	107
23	3D Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> aerogels with enhanced surface area for high performance supercapacitors. Nanoscale, 2018, 10, 20828-20835.	5.6	105
24	Current-density dependence of Li <sub>2</sub> S/Li <sub>2</sub> S <sub>2</sub> growth in lithiumâ€"sulfur batteries. Energy and Environmental Science, 2019, 12, 2976-2982.	30.8	102
25	A safe etching route to synthesize highly crystalline Nb2CTx MXene for high performance asymmetric supercapacitor applications. Electrochimica Acta, 2020, 337, 135803.	5.2	99
26	Free-standing Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> electrode with ultrahigh volumetric capacitance. RSC Advances, 2017, 7, 11998-12005.	3.6	98
27	Self-supported cobalt nitride porous nanowire arrays as bifunctional electrocatalyst for overall water splitting. Electrochimica Acta, 2018, 273, 229-238.	5.2	98
28	Nitrogen-doped carbon nanosheets containing Fe3C nanoparticles encapsulated in nitrogen-doped graphene shells for high-performance electromagnetic wave absorbing materials. Carbon, 2018, 140, 368-376.	10.3	93
29	N-Doped graphene-supported Co@CoO core–shell nanoparticles as high-performance bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2016, 4, 12046-12053.	10.3	91
30	Ultrasmall FeNi <sub>3</sub> N particles with an exposed active (110) surface anchored on nitrogen-doped graphene for multifunctional electrocatalysts. Journal of Materials Chemistry A, 2019, 7, 1083-1091.	10.3	89
31	Enhanced electromagnetic wave absorption induced by void spaces in hollow nanoparticles. Nanoscale, 2018, 10, 18742-18748.	5.6	88
32	The surface engineering of cobalt carbide spheres throughÂN, B co-doping achieved by room-temperature <i>in situ</i> anchoring effects for active and durable multifunctional electrocatalysts. Journal of Materials Chemistry A, 2019, 7, 14904-14915.	10.3	88
33	Towards full demonstration of high areal loading sulfur cathode in lithium–sulfur batteries. Journal of Energy Chemistry, 2019, 39, 17-22.	12.9	87
34	Growth of CoFe <sub>2</sub> O <sub>4</sub> hollow nanoparticles on graphene sheets for high-performance electromagnetic wave absorbers. Journal of Materials Chemistry C, 2018, 6, 12781-12787.	5.5	82
35	Crystal Co <sub><i>x</i></sub> B ( <i>x</i> ) = $1$ â $\in$ "3) Synthesized by a Ball-Milling Method as High-Performance Electrocatalysts for the Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2017, 5, 10266-10274.	6.7	76
36	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

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37	Free-standing MXene film modified by amorphous FeOOH quantum dots for high-performance asymmetric supercapacitor. Electrochimica Acta, 2019, 308, 1-8.	5.2	72
38	Novel Li <sub>x</sub> SiS <sub>y</sub> /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
39	Rationally designed hierarchical ZnCo <sub>2</sub> O <sub>4</sub> /Ni(OH) <sub>2</sub> nanostructures for high-performance pseudocapacitor electrodes. Journal of Materials Chemistry A, 2014, 2, 20462-20469.	10.3	67
40	Electrochemically activated-iron oxide nanosheet arrays on carbon fiber cloth as a three-dimensional self-supported electrode for efficient water oxidation. Journal of Materials Chemistry A, 2016, 4, 6048-6055.	10.3	66
41	In situ polymerized Ti3C2Tx/PDA electrode with superior areal capacitance for supercapacitors. Journal of Alloys and Compounds, 2019, 778, 858-865.	5.5	63
42	Highly Stable Threeâ€Dimensional Porous Nickelâ€Iron Nitride Nanosheets for Full Water Splitting at High Current Densities. Chemistry - A European Journal, 2017, 23, 10187-10194.	3.3	61
43	Nb2CT 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
44	Hierarchical Hollow Spheres Assembled with Ultrathin CoMn Double Hydroxide Nanosheets as Trifunctional Electrocatalyst for Overall Water Splitting and Zn Air Battery. ACS Sustainable Chemistry and Engineering, 2018, 6, 14641-14651.	6.7	51
45	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
46	Rationally designing S/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> as a cathode material with an interlayer for high-rate and long-cycle lithium–sulfur batteries. Nanoscale, 2018, 10, 16935-16942.	5.6	50
47	Three dimensional graphene-supported nitrogen-doped carbon nanotube architectures for attenuation of electromagnetic energy. Journal of Materials Chemistry C, 2019, 7, 11868-11878.	5.5	50
48	Dual effects of the carbon fibers/Ti3C2Tx interlayer on retarding shuttle of polysulfides for stable Lithium-Sulfur batteries. Electrochimica Acta, 2019, 312, 149-156.	5.2	50
49	Partially contacted NixSy@N, S-codoped carbon yolk-shelled structures for efficient microwave absorption. Carbon, 2021, 182, 276-286.	10.3	47
50	Controllable growth of ZnO–ZnSe heterostructures for visible-light photocatalysis. CrystEngComm, 2014, 16, 1201-1206.	2.6	46
51	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
52	Progress of Twoâ€Dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub><i>x</i></sub> in Supercapacitors. ChemSusChem, 2020, 13, 1296-1329.	6.8	45
53	The integration of Mo <sub>2</sub> C-embedded nitrogen-doped carbon with Co encapsulated in nitrogen-doped graphene layers derived from metal–organic-frameworks as a multi-functional electrocatalyst. Nanoscale, 2019, 11, 12563-12572.	5.6	39
54	Highly stable three-dimensional nickel–iron oxyhydroxide catalysts for oxygen evolution reaction at high current densities. Electrochimica Acta, 2017, 245, 770-779.	5.2	37

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55	Quantitative investigation on the effect of hydrogenation on the performance of MnO2/H-TiO2 composite electrodes for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 3785-3793.	10.3	36
56	Understanding the Different Diffusion Mechanisms of Hydrated Protons and Potassium Ions in Titanium Carbide MXene. ACS Applied Materials & Samp; Interfaces, 2019, 11, 7087-7095.	8.0	36
57	A strategy to achieve high loading and high energy density Li-S batteries. Journal of Energy Chemistry, 2021, 53, 340-346.	12.9	35
58	Enhancement of near-band edge emission of Au/ZnO composite nanobelts by surface plasmon resonance. CrystEngComm, 2011, 13, 3678.	2.6	32
59	Ti3C2Tx-foam as free-standing electrode for supercapacitor with improved electrochemical performance. Ceramics International, 2018, 44, 13901-13907.	4.8	31
60	Nanostructured molybdenum phosphide/N,P dual-doped carbon nanotube composite as electrocatalysts for hydrogen evolution. RSC Advances, 2016, 6, 7370-7377.	3.6	30
61	Synthesis and characterization of three-dimensional MoS2@carbon fibers hierarchical architecture with high capacity and high mass loading for Li-ion batteries. Journal of Colloid and Interface Science, 2018, 510, 327-333.	9.4	27
62	Performance evaluation of asymmetric supercapacitor based on Ti3C2Tx-paper. Journal of Alloys and Compounds, 2017, 729, 1165-1171.	5.5	26
63	First-principle study of the Nb+1C T2 systems as electrode materials for supercapacitors. Computational Materials Science, 2018, 143, 225-231.	3.0	26
64	Tailoring the Spatial Distribution and Content of Inorganic Nitrides in Solid–Electrolyte Interphases for the Stable Li Anode in Li–S Batteries. Energy and Environmental Materials, 2022, 5, 1180-1188.	12.8	26
65	Mitigating side reaction for high capacity retention in lithium-sulfur batteries. Chinese Chemical Letters, 2022, 33, 457-461.	9.0	22
66	High-yield synthesis of In2â^'xGaxO3(ZnO)3 nanobelts with a planar superlattice structure. CrystEngComm, 2010, 12, 2047.	2.6	19
67	Structural formation and charge storage mechanisms for intercalated two-dimensional carbides MXenes. Physical Chemistry Chemical Physics, 2017, 19, 9509-9518.	2.8	19
68	Role of the H-containing groups on the structural dynamics of Ti $3$ C $2$ T $\times$ MXene. Physica B: Condensed Matter, 2018, 537, 155-161.	2.7	17
69	Achieving dendrite-free lithium deposition on the anode of Lithium–Sulfur battery by LiF-rich regulation layer. Electrochimica Acta, 2021, 393, 138981.	5.2	16
70	3D Ti3C2Tx aerogel-modified separators for high-performance Li–S batteries. Journal of Alloys and Compounds, 2020, 816, 153155.	5 <b>.</b> 5	15
71	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 <b>.</b> 5	14
72	An effective strategy for shielding polysulfides and regulating lithium deposition in lithium–sulfur batteries. Journal of Power Sources, 2021, 489, 229500.	7.8	14

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73	One-step synthesis Nb2CT MXene with excellent lithium-ion storage capacity. Journal of Alloys and Compounds, 2021, 889, 161542.	5.5	14
74	Promoting effect of MXenes on 1T/2H–MoSe <sub>2</sub> for hydrogen evolution. CrystEngComm, 2021, 23, 4752-4759.	2.6	13
75	Synthesis and transport properties of Si-doped In2O3(ZnO)3 superlattice nanobelts. CrystEngComm, 2011, 13, 3569.	2.6	10
76	Direct observation of chemical origins in crystalline (Ni <sub>x</sub> Co <sub>1â^'x</sub> ) <sub>2</sub> B oxygen evolution electrocatalysts. Catalysis Science and Technology, 2020, 10, 2165-2172.	4.1	10
77	Additive-free porous assemblies of Ti3C2T by freeze-drying for high performance supercapacitors. Chinese Chemical Letters, 2020, 31, 1034-1038.	9.0	10
78	One-pot synthesis of SL-MoS2/C/Ti3C2Tx@C hierarchical superstructures for ultralong cycle-life Li-ion batteries. Electrochimica Acta, 2019, 295, 286-293.	5.2	8
79	First-principles study of high performance lithium/sodium storage of Ti <sub>3</sub> C <sub>2</sub> T <sub>2</sub> nanosheets as electrode materials*. Chinese Physics B, 2020, 29, 016802.	1.4	8
80	Electrolyte Structure of Lithium Polysulfides with Antiâ€Reductive Solvent Shells for Practical Lithium–Sulfur Batteries. Angewandte Chemie, 2021, 133, 15631-15637.	2.0	8
81	Tuning Dielectric Loss of SiO2@CNTs for Electromagnetic Wave Absorption. Nanomaterials, 2021, 11, 2636.	4.1	8
82	Imbedding Li2CO3 in Li-nafion film to protect Li anode from unexpected dendrites growth. Journal of Alloys and Compounds, 2022, 900, 163444.	5.5	8
83	Synergistic effect of cocatalytic NiSe <sub>2</sub> on stable 1T-MoS <sub>2</sub> for hydrogen evolution. RSC Advances, 2021, 11, 6842-6849.	3.6	7
84	V <sub>2</sub> CT <sub><i>X</i></sub> catalyzes polysulfide conversion to enhance the redox kinetics of Liâ€"S batteries. Dalton Transactions, 2022, 51, 2560-2566.	3.3	6
85	Photothermal-effect-promoted interfacial OH <sup>â"</sup> filling and the conversion of carrier type in (Co <sub>1â"<i>x</i></sub> Ni <sub><i>x</i></sub> ) <sub>3</sub> C during water oxidation. Journal of Materials Chemistry A, 2022, 10, 8258-8267.	10.3	6
86	Effect of Ti3C2Tx–PEDOT:PSS modified-separators on the electrochemical performance of Li–S batteries. RSC Advances, 2020, 10, 40276-40283.	3.6	5
87	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
88	Facile fabrication of ZnO:S/ZnO hetero-nanostructures and their electronic structure investigation by electron energy loss spectroscopy. CrystEngComm, 2015, 17, 2250-2254.	2.6	4
89	A facile and green template-engaged synthesis of PbSe nanotubes with the assistance of Vc. CrystEngComm, 2018, 20, 5570-5575.	2.6	4
90	Computational screening of functionalized MXenes to catalyze the solid and non-solid conversion reactions in cathodes of lithium–sulfur batteries. Physical Chemistry Chemical Physics, 2022, 24, 8913-8922.	2.8	4

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91	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
92	Rational design of adsorption-catalysis functional separator for highly efficient Li-S batteries. Journal of Alloys and Compounds, 2022, 900, 163414.	5.5	2
93	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
94	Recognition of the Source Rock Using Biomarkers From Eocene Reservoir Oils. Petroleum Science and Technology, 2013, 31, 1689-1696.	1.5	1