Xinliang Li

List of Publications by Year
in descending order

95 papers	13,025 citations	28190 55 h-index	37111 96 g-index
97 all docs	97 docs citations	97 times ranked	7118 citing authors

#	Article	IF	Citations
1	Smallâ€Dipoleâ€Moleculeâ€Containing Electrolytes for Highâ€Voltage Aqueous Rechargeable Batteries. Advanced Materials, 2022, 34, e2106180.	11.1	58
2	Cathode Engineering for High Energy Density Aqueous Zn Batteries. Accounts of Materials Research, 2022, 3, 78-88.	5.9	32
3	Stabilizing Interface pH by Nâ€Modified Graphdiyne for Dendriteâ€Free and Highâ€Rate Aqueous Znâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	1.6	24
4	Stabilizing Interface pH by Nâ€Modified Graphdiyne for Dendriteâ€Free and Highâ€Rate Aqueous Znâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	124
5	Kinetic-energy-flux-constrained model using an artificial neural network for large-eddy simulation of compressible wall-bounded turbulence. Journal of Fluid Mechanics, 2022, 932, .	1.4	5
6	Twoâ€Electron Redox Chemistry Enabled Highâ€Performance Iodideâ€Ion Conversion Battery. Angewandte Chemie, 2022, 134, .	1.6	4
7	Twoâ€Electron Redox Chemistry Enabled Highâ€Performance Iodideâ€Ion Conversion Battery. Angewandte Chemie - International Edition, 2022, 61, .	7.2	34
8	Few-layer bismuth selenide cathode for low-temperature quasi-solid-state aqueous zinc metal batteries. Nature Communications, 2022, 13, 752.	5.8	49
9	Highly Thermally/Electrochemically Stable I^{â^'}/I₃^{â^'}Bonded Organic Salts with High I Content for Longâ€Life Liâ€“I₂Batteries. Advanced Energy Materials, 2022, 12, .	10.2	40
10	Building durable aqueous K-ion capacitors based on MXene family. , 2022, 1, e9120002.		131
11	Tellurium: A High-Performance Cathode for Magnesium Ion Batteries Based on a Conversion Mechanism. ACS Nano, 2022, 16, 5349-5357.	7.3	28
12	Helicity distributions and transfer in turbulent channel flows with streamwise rotation. Journal of Fluid Mechanics, 2022, 940, .	1.4	7
13	Bifunctional separators design for safe lithium-ion batteries: Suppressed lithium dendrites and fire retardance. Nano Energy, 2022, 97, 107204.	8.2	23
14	Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti₃C₂ MXenes. ACS Nano, 2022, 16, 813-822.	7.3	90
15	MXene chemistry, electrochemistry and energy storage applications. Nature Reviews Chemistry, 2022, 6, 389-404.	13.8	429
16	Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion batteries. Nano Energy, 2022, 98, 107278.	8.2	17
17	Effect of chemical reaction on mixing transition and turbulent statistics of cylindrical Richtmyerâ€“Meshkov instability. Journal of Fluid Mechanics, 2022, 941, .	1.4	9
18	Low Infrared Emissivity and Strong Stealth of Ti-Based MXenes. Research, 2022, 2022, .	2.8	17

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19	Accommodating diverse ions in Prussian blue analogs frameworks for rechargeable batteries: The electrochemical redox reactions. Nano Energy, 2021, 81, 105632.	8.2	88
20	Electrocatalytic Iodine Reduction Reaction Enabled by Aqueous Zincâ€Iodine Battery with Improved Power and Energy Densities. Angewandte Chemie, 2021, 133, 3835-3842.	1.6	32
21	Electrocatalytic Iodine Reduction Reaction Enabled by Aqueous Zincâ€Iodine Battery with Improved Power and Energy Densities. Angewandte Chemie - International Edition, 2021, 60, 3791-3798.	7.2	111
22	Effects of Anion Carriers on Capacitance and Selfâ€Discharge Behaviors of Zinc Ion Capacitors. Angewandte Chemie, 2021, 133, 1024-1034.	1.6	21
23	Effects of Anion Carriers on Capacitance and Selfâ€Discharge Behaviors of Zinc Ion Capacitors. Angewandte Chemie - International Edition, 2021, 60, 1011-1021.	7.2	122
24	Grafted MXene/polymer electrolyte for high performance solid zinc batteries with enhanced shelf life at low/high temperatures. Energy and Environmental Science, 2021, 14, 3492-3501.	15.6	152
25	Activating the I⁰/I⁺ redox couple in an aqueous I₂â€“Zn battery to achieve a high voltage plateau. Energy and Environmental Science, 2021, 14, 407-413.	15.6	129
26	Confining Aqueous Znâ€“Br Halide Redox Chemistry by Ti₃C₂T_X MXene. ACS Nano, 2021, 15, 1718-1726.	7.3	78
27	Halogenated Ti₃C₂ MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. ACS Nano, 2021, 15, 1077-1085.	7.3	183
28	Manipulating anion intercalation enables a high-voltage aqueous dual ion battery. Nature Communications, 2021, 12, 3106.	5.8	104
29	Metal-Iodine and Metal-Bromine Batteries: A Review. Bulletin of the Chemical Society of Japan, 2021, 94, 2036-2042.	2.0	27
30	Characteristics of wall-shear stress fluctuations in shock wave and turbulent boundary layer interaction. Journal of Turbulence, 2021, 22, 761-783.	0.5	4
31	Toward a Practical Zn Powder Anode: Ti₃C₂Tx MXene as a Lattice-Match Electrons/Ions Redistributor. ACS Nano, 2021, 15, 14631-14642.	7.3	137
32	Zinc/selenium conversion battery: a system highly compatible with both organic and aqueous electrolytes. Energy and Environmental Science, 2021, 14, 2441-2450.	15.6	93
33	Enhanced Redox Kinetics and Duration of Aqueous I₂/I^{â^’} Conversion Chemistry by MXene Confinement. Advanced Materials, 2021, 33, e2006897.	11.1	121
34	Aqueous Rechargeable Metalâ€Ion Batteries Working at Subzero Temperatures. Advanced Science, 2021, 8, 2002590.	5.6	89
35	Conversionâ€Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries. Advanced Materials, 2021, 33, e2105426.	11.1	48
36	Statistical characteristics of turbulent mixing in spherical and cylindrical converging Richtmyerâ€“Meshkov instabilities. Journal of Fluid Mechanics, 2021, 928, .	1.4	9

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37	Intrinsic voltage plateau of a Nb2CTx MXene cathode in an aqueous electrolyte induced by high-voltage scanning. Joule, 2021, 5, 2993-3005.	11.7	74
38	Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries. Materials Today, 2021, 51, 87-95.	8.3	10
39	Commencing mild Agâ€“Zn batteries with long-term stability and ultra-flat voltage platform. Energy Storage Materials, 2020, 25, 86-92.	9.5	68
40	Phase Transition Induced Unusual Electrochemical Performance of V₂CT_X MXene for Aqueous Zinc Hybrid-Ion Battery. ACS Nano, 2020, 14, 541-551.	7.3	179
41	Voltage issue of aqueous rechargeable metal-ion batteries. Chemical Society Reviews, 2020, 49, 180-232.	18.7	522
42	Scalable synthesis of 2D hydrogen-substituted graphdiyne on Zn substrate for high-yield N2 fixation. Nano Energy, 2020, 78, 105283.	8.2	38
43	Liquidâ€Free Allâ€Solidâ€State Zinc Batteries and Encapsulationâ€Free Flexible Batteries Enabled by Inâ€…Situ Constructed Polymer Electrolyte. Angewandte Chemie, 2020, 132, 24044-24052.	1.6	45
44	In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. Advanced Energy Materials, 2020, 10, 2001791.	10.2	128
45	A rechargeable Alâ€“N₂ battery for energy storage and highly efficient N₂ fixation. Energy and Environmental Science, 2020, 13, 2888-2895.	15.6	53
46	Vertically Aligned Sn⁴⁺ Preintercalated Ti₂CT_X MXene Sphere with Enhanced Zn Ion Transportation and Superior Cycle Lifespan. Advanced Energy Materials, 2020, 10, 2001394.	10.2	127
47	Initiating a wearable solid-state Mg hybrid ion full battery with high voltage, high capacity and ultra-long lifespan in air. Energy Storage Materials, 2020, 31, 451-458.	9.5	29
48	Wall-shear stress fluctuations in a supersonic turbulent boundary layer over an expansion corner. Journal of Turbulence, 2020, 21, 355-374.	0.5	5
49	Dendrites in Znâ€Based Batteries. Advanced Materials, 2020, 32, e2001854.	11.1	601
50	Liquidâ€Free Allâ€Solidâ€State Zinc Batteries and Encapsulationâ€Free Flexible Batteries Enabled by Inâ€…Situ Constructed Polymer Electrolyte. Angewandte Chemie - International Edition, 2020, 59, 23836-23844.	7.2	102
51	Aqueous Zincâ€“Tellurium Batteries with Ultraflat Discharge Plateau and High Volumetric Capacity. Advanced Materials, 2020, 32, e2001469.	11.1	104
52	Metalâ€Tellurium Batteries: A Rising Energy Storage System. Small Structures, 2020, 1, 2000005.	6.9	46
53	Phosphorene as Cathode Material for Highâ€Voltage, Antiâ€Selfâ€Discharge Zinc Ion Hybrid Capacitors. Advanced Energy Materials, 2020, 10, 2001024.	10.2	149
54	Highly Efficient Electrochemical Reduction of Nitrogen to Ammonia on Surface Termination Modified Ti₃C₂T_x MXene Nanosheets. ACS Nano, 2020, 14, 9089-9097.	7.3	137

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55	Initiating a Reversible Aqueous Zn/Sulfur Battery through a â€œLiquid Filmâ€• Advanced Materials, 2020, 32, e2003070.	11.1	88
56	Initiating Hexagonal MoO₃ for Superbâ€Stable and Fast NH₄⁺ Storage Based on Hydrogen Bond Chemistry. Advanced Materials, 2020, 32, e1907802.	11.1	186
57	Metalâ€Tuned Acetylene Linkages in Hydrogen Substituted Graphdiyne Boosting the Electrochemical Oxygen Reduction. Small, 2020, 16, e1907341.	5.2	39
58	A zinc battery with ultra-flat discharge plateau through phase transition mechanism. Nano Energy, 2020, 71, 104583.	8.2	75
59	Dual channels of helicity cascade in turbulent flows. Journal of Fluid Mechanics, 2020, 894, .	1.4	19
60	Study on turbulence drag reduction of riblet plate in hypersonic turbulent flows. International Journal of Modern Physics C, 2020, 31, 2050046.	0.8	5
61	Ni₃S₂/Ni nanosheet arrays for high-performance flexible zinc hybrid batteries with evident two-stage charge and discharge processes. Journal of Materials Chemistry A, 2019, 7, 18915-18924.	5.2	55
62	Electromagnetic interference shielding properties of polymer derived SiC-Si3N4 composite ceramics. Journal of Materials Science and Technology, 2019, 35, 2832-2839.	5.6	38
63	Ultra-light, high flexible and efficient CNTs/Ti3C2-sodium alginate foam for electromagnetic absorption application. Journal of Materials Science and Technology, 2019, 35, 2859-2867.	5.6	60
64	Achieving Both High Voltage and High Capacity in Aqueous Zincâ€Ion Battery for Record High Energy Density. Advanced Functional Materials, 2019, 29, 1906142.	7.8	285
65	Do Zinc Dendrites Exist in Neutral Zinc Batteries: A Developed Electrohealing Strategy to In Situ Rescue Inâ€Service Batteries. Advanced Materials, 2019, 31, e1903778.	11.1	494
66	Achieving Highâ€Voltage and Highâ€Capacity Aqueous Rechargeable Zinc Ion Battery by Incorporating Twoâ€Species Redox Reaction. Advanced Energy Materials, 2019, 9, 1902446.	10.2	341
67	A Flexible Solidâ€State Aqueous Zinc Hybrid Battery with Flat and Highâ€Voltage Discharge Plateau. Advanced Energy Materials, 2019, 9, 1902473.	10.2	136
68	Commencing an Acidic Battery Based on a Copper Anode with Ultrafast Protonâ€Regulated Kinetics and Superior Dendriteâ€Free Property. Advanced Materials, 2019, 31, e1905873.	11.1	77
69	Lightweight Ti₂CT_x MXene/Poly(vinyl alcohol) Composite Foams for Electromagnetic Wave Shielding with Absorption-Dominated Feature. ACS Applied Materials & Interfaces, 2019, 11, 10198-10207.	4.0	488
70	2D carbide MXene Ti2CTX as a novel high-performance electromagnetic interference shielding material. Carbon, 2019, 146, 210-217.	5.4	161
71	A Wholly Degradable, Rechargeable Znâ€“Ti₃C₂ MXene Capacitor with Superior Anti-Self-Discharge Function. ACS Nano, 2019, 13, 8275-8283.	7.3	224
72	Ultralight Cellular Foam from Cellulose Nanofiber/Carbon Nanotube Self-Assemblies for Ultrabroad-Band Microwave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 22628-22636.	4.0	99

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73	Activating Câ€Coordinated Iron of Iron Hexacyanoferrate for Zn Hybridâ€Ion Batteries with 10 000â€Cycle Lifespan and Superior Rate Capability. Advanced Materials, 2019, 31, e1901521.	11.1	363
74	Anisotropic MXene Aerogels with a Mechanically Tunable Ratio of Electromagnetic Wave Reflection to Absorption. Advanced Optical Materials, 2019, 7, 1900267.	3.6	245
75	A Usage Scenario Independent â€œAir Chargeableâ€•Flexible Zinc Ion Energy Storage Device. Advanced Energy Materials, 2019, 9, 1900509.	10.2	80
76	Constructing a tunable heterogeneous interface in bimetallic metal-organic frameworks derived porous carbon for excellent microwave absorption performance. Carbon, 2019, 148, 421-429.	5.4	100
77	Thermal stability and dielectric properties of 2D Ti ₂ C MXenes via annealing under a gas mixture of Ar and H ₂ atmosphere. Functional Composites and Structures, 2019, 1, 015002.	1.6	19
78	Interface evolution of a C/ZnO absorption agent annealed at elevated temperature for tunable electromagnetic properties. Journal of the American Ceramic Society, 2019, 102, 5305-5315.	1.9	28
79	Hydrated hybrid vanadium oxide nanowires as the superior cathode for aqueous Zn battery. Materials Today Energy, 2019, 14, 100361.	2.5	67
80	Environmental Stability of MXenes as Energy Storage Materials. Frontiers in Materials, 2019, 6, .	1.2	65
81	Mesoporous carbon hollow microspheres with red blood cell like morphology for efficient microwave absorption at elevated temperature. Carbon, 2018, 132, 343-351.	5.4	280
82	Recent Progress of <scp>MX</scp>eneâ€Based Nanomaterials in Flexible Energy Storage and Electronic Devices. Energy and Environmental Materials, 2018, 1, 183-195.	7.3	135
83	Broadband Microwave Absorbing Composites with a Multi-Scale Layered Structure Based on Reduced Graphene Oxide Film as the Frequency Selective Surface. Materials, 2018, 11, 1771.	1.3	21
84	Ultralight MXene-Coated, Interconnected SiCnws Three-Dimensional Lamellar Foams for Efficient Microwave Absorption in the X-Band. ACS Applied Materials & Interfaces, 2018, 10, 34524-34533.	4.0	172
85	Effects of alumina hollow microspheres on the properties of water-borne polyurethane films. Journal of Materials Research, 2018, 33, 2486-2493.	1.2	5
86	Selfâ€Assembly Coreâ€“Shell Grapheneâ€Bridged Hollow MXenes Spheres 3D Foam with Ultrahigh Specific EM Absorption Performance. Advanced Functional Materials, 2018, 28, 1803938.	7.8	561
87	Carbon Hollow Microspheres with a Designable Mesoporous Shell for High-Performance Electromagnetic Wave Absorption. ACS Applied Materials & Interfaces, 2017, 9, 6332-6341.	4.0	428
88	Three-dimensional reduced graphene oxide foam modified with ZnO nanowires for enhanced microwave absorption properties. Carbon, 2017, 116, 50-58.	5.4	525
89	Laminated and Two-Dimensional Carbon-Supported Microwave Absorbers Derived from MXenes. ACS Applied Materials & Interfaces, 2017, 9, 20038-20045.	4.0	323
90	Numerical analysis of shock wave and supersonic turbulent boundary interaction between adiabatic and cold walls. Journal of Turbulence, 2017, 18, 569-588.	0.5	17

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91	Ti₃C₂MXenes modified with in situ grown carbon nanotubes for enhanced electromagnetic wave absorption properties. Journal of Materials Chemistry C, 2017, 5, 4068-4074.	2.7	345
92	Flexible and Thermostable Graphene/SiC Nanowire Foam Composites with Tunable Electromagnetic Wave Absorption Properties. ACS Applied Materials & Interfaces, 2017, 9, 11803-11810.	4.0	315
93	A controllable heterogeneous structure and electromagnetic wave absorption properties of Ti₂CT_xMXene. Journal of Materials Chemistry C, 2017, 5, 7621-7628.	2.7	177
94	Effect of TiO2 addition on the properties of Ti3Si(Al)C2 based ceramics fabricated by reactive melt infiltration. Ceramics International, 2016, 42, 11982-11988.	2.3	5
95	Ti₃C₂ MXenes with Modified Surface for High-Performance Electromagnetic Absorption and Shielding in the X-Band. ACS Applied Materials & Interfaces, 2016, 8, 21011-21019.	4.0	775