Zifeng Lin

List of Publications by Year
in descending order

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46 papers	5,886 citations	201385 27 h-index	223531 46 g-index
48 all docs	48 docs citations	48 times ranked	6141 citing authors

#	Article	IF	Citations
1	Molten Saltâ€Shielded Synthesis (MS³) of MXenes in Air. Energy and Environmental Materials, 2023, 6, .	7.3	25
2	Lithium storage properties of Ti3C2T (T â€¯=â€¯F, Cl, Br) MXenes. Chinese Chemical Letters, 2023, 34, 107426.	4.8	12
3	Molten salt synthesis and formation mechanisms of ternary Vâ€based MAX phases by Vâ€“Al alloy strategy. Journal of the American Ceramic Society, 2022, 105, 2277-2287.	1.9	6
4	Perovskiteâ€Type SrVO₃ as Highâ€Performance Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, e2107262.	11.1	29
5	Influence of aqueous solutions treatment on the Li+ storage properties of molten salt derived Ti3C2Cl MXene. Electrochemistry Communications, 2022, 136, 107236.	2.3	9
6	A Method for Deconvoluting and Quantifying the Realâ€Time Species Fluxes and Ionic Currents Using In Situ Electrochemical Quartz Crystal Microbalance. Advanced Materials Interfaces, 2022, 9, .	1.9	8
7	Achieving ultrahigh electrochemical performance by surface design and nanoconfined water manipulation. National Science Review, 2022, 9, .	4.6	9
8	Robust Highâ€Temperature Supercapacitors Based on SiC Nanowires. Advanced Functional Materials, 2021, 31, 2008901.	7.8	28
9	Boosting the performance of lithium metal capacitors with a Li composite anode. Journal of Materials Chemistry A, 2021, 9, 10722-10730.	5.2	9
10	Molten Salt Derived Nb₂CT_x MXene Anode for Liâ€ion Batteries. ChemElectroChem, 2021, 8, 957-962.	1.7	47
11	Electrochemical Lithium Storage Performance of Molten Salt Derived V2SnC MAX Phase. Nano-Micro Letters, 2021, 13, 158.	14.4	23
12	Li-ion storage properties of two-dimensional titanium-carbide synthesized via fast one-pot method in air atmosphere. Nature Communications, 2021, 12, 5085.	5.8	88
13	Tailoring the defects of two-dimensional borocarbonitride nanomesh for high energy density micro-supercapacitor. Energy Storage Materials, 2021, 42, 430-437.	9.5	25
14	An ultrahigh-energy-density lithium metal capacitor. Energy Storage Materials, 2021, 42, 154-163.	9.5	13
15	Double transition metal-containing M₂TiAlC₂ o-MAX phases as Li-ion batteries anodes: a theoretical screening. Materials Research Letters, 2021, 9, 516-522.	4.1	7
16	Photoirradiation-Induced Capacitance Enhancement in the h-WO₃/Bi₂WO₆ Submicron Rod Heterostructure under Simulated Solar Illumination and Its Postillumination Capacitance Enhancement Retainment from a Photocatalytic Memory Effect. ACS Applied Materials & Interfaces, 2021, 13, 57214-57229.	4.0	16
17	Carbon nanotubes enhance flexible MXene films for high-rate supercapacitors. Journal of Materials Science, 2020, 55, 1148-1156.	1.7	71
18	Electrochemical oxidation of methyl orange by a MagnÃ©li phase Ti4O7 anode. Chemosphere, 2020, 241, 125084.	4.2	60

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19	Dense organic molecules/graphene network anodes with superior volumetric and areal performance for asymmetric supercapacitors. Journal of Materials Chemistry A, 2020, 8, 461-469.	5.2	30
20	Effects of functional groups and anion size on the charging mechanisms in layered electrode materials. Energy Storage Materials, 2020, 33, 460-469.	9.5	36
21	Formation mechanism of Ti₄O₇ phase prepared by carbothermal reduction reaction. Journal of the American Ceramic Society, 2020, 103, 3871-3879.	1.9	14
22	Cold Sintered Metalâ€“Ceramic Nanocomposites for Highâ€Frequency Inductors. Advanced Electronic Materials, 2020, 6, 2000868.	2.6	18
23	Unraveling the Charge Storage Mechanism of Ti₃C₂T_x MXene Electrode in Acidic Electrolyte. ACS Energy Letters, 2020, 5, 2873-2880.	8.8	129
24	Computational Insights into Charge Storage Mechanisms of Supercapacitors. Energy and Environmental Materials, 2020, 3, 235-246.	7.3	49
25	Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. Energy and Environmental Science, 2020, 13, 2124-2133.	15.6	35
26	MXenes as High-Rate Electrodes for Energy Storage. Trends in Chemistry, 2020, 2, 654-664.	4.4	81
27	A general Lewis acidic etching route for preparing MXenes with enhanced electrochemical performance in non-aqueous electrolyte. Nature Materials, 2020, 19, 894-899.	13.3	870
28	Nanoporous carbon for electrochemical capacitive energy storage. Chemical Society Reviews, 2020, 49, 3005-3039.	18.7	391
29	2020 roadmap on two-dimensional materials for energy storage and conversion. Chinese Chemical Letters, 2019, 30, 2053-2064.	4.8	140
30	3D Macroscopic Architectures from Selfâ€Assembled MXene Hydrogels. Advanced Functional Materials, 2019, 29, 1903960.	7.8	360
31	3D rGO aerogel with superior electrochemical performance for K â€“ Ion battery. Energy Storage Materials, 2019, 19, 306-313.	9.5	70
32	Influences from solvents on charge storage in titanium carbide MXenes. Nature Energy, 2019, 4, 241-248.	19.8	363
33	Electrochemical study of pseudocapacitive behavior of Ti3C2Tx MXene material in aqueous electrolytes. Energy Storage Materials, 2019, 18, 456-461.	9.5	111
34	MXenes for Supercapacitor Application. , 2019, , 349-365.		3
35	Advanced analytical techniques to characterize materials for electrochemical capacitors. Current Opinion in Electrochemistry, 2018, 9, 18-25.	2.5	28
36	Materials for supercapacitors: When Li-ion battery power is not enough. Materials Today, 2018, 21, 419-436.	8.3	335

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37	Proton Ion Exchange Reaction in Li₃IrO₄: A Way to New H₃₊_xIrO₄ Phases Electrochemically Active in Both Aqueous and Nonaqueous Electrolytes. Advanced Energy Materials, 2018, 8, 1702855.	10.2	29
38	Tracking Ionic Rearrangements and Interpreting Dynamic Volumetric Changes in Twoâ€Dimensional Metal Carbide Supercapacitors: A Molecular Dynamics Simulation Study. ChemSusChem, 2018, 11, 1892-1899.	3.6	50
39	Large Intercalation Pseudocapacitance in 2D VO₂ (B): Breaking through the Kinetic Barrier. Advanced Materials, 2018, 30, e1803594.	11.1	50
40	Tracking Ionic Rearrangements and Interpreting Dynamic Volumetric Changes in Twoâ€Dimensional Metal Carbide Supercapacitors: A Molecular Dynamics Simulation Study. ChemSusChem, 2018, 11, 1889-1889.	3.6	3
41	Electrochemical double layer capacitors: What is next beyond the corner?. Current Opinion in Electrochemistry, 2017, 6, 115-119.	2.5	38
42	Enabling Flexible Heterostructures for Liâ€Ion Battery Anodes Based on Nanotube and Liquidâ€Phase Exfoliated 2D Gallium Chalcogenide Nanosheet Colloidal Solutions. Small, 2017, 13, 1701677.	5.2	71
43	Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. Nature Energy, 2017, 2, .	19.8	1,626
44	Capacitance of Ti3C2Tx MXene in ionic liquid electrolyte. Journal of Power Sources, 2016, 326, 575-579.	4.0	250
45	Electrochemical and in-situ X-ray diffraction studies of Ti 3 C 2 T x MXene in ionic liquid electrolyte. Electrochemistry Communications, 2016, 72, 50-53.	2.3	134
46	Graphene-Based Supercapacitors Using Eutectic Ionic Liquid Mixture Electrolyte. Electrochimica Acta, 2016, 206, 446-451.	2.6	63