

# Zifeng Lin

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. <i>Nature Energy</i> , 2017, 2, .   | 19.8 | 1,626     |
| 2  | A general Lewis acidic etching route for preparing MXenes with enhanced electrochemical performance in non-aqueous electrolyte. <i>Nature Materials</i> , 2020, 19, 894-899.                        | 13.3 | 870       |
| 3  | Nanoporous carbon for electrochemical capacitive energy storage. <i>Chemical Society Reviews</i> , 2020, 49, 3005-3039.   | 18.7 | 391       |
| 4  | Influences from solvents on charge storage in titanium carbide MXenes. <i>Nature Energy</i> , 2019, 4, 241-248.   | 19.8 | 363       |
| 5  | 3D Macroscopic Architectures from Self-Assembled MXene Hydrogels. <i>Advanced Functional Materials</i> , 2019, 29, 1903960.   | 7.8  | 360       |
| 6  | Materials for supercapacitors: When Li-ion battery power is not enough. <i>Materials Today</i> , 2018, 21, 419-436.   | 8.3  | 335       |
| 7  | Capacitance of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene in ionic liquid electrolyte. <i>Journal of Power Sources</i> , 2016, 326, 575-579.   | 4.0  | 250       |
| 8  | 2020 roadmap on two-dimensional materials for energy storage and conversion. <i>Chinese Chemical Letters</i> , 2019, 30, 2053-2064.   | 4.8  | 140       |
| 9  | Electrochemical and in-situ X-ray diffraction studies of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene in ionic liquid electrolyte. <i>Electrochemistry Communications</i> , 2016, 72, 50-53. | 2.3  | 134       |
| 10 | Unraveling the Charge Storage Mechanism of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Electrode in Acidic Electrolyte. <i>ACS Energy Letters</i> , 2020, 5, 2873-2880.                     | 8.8  | 129       |
| 11 | Electrochemical study of pseudocapacitive behavior of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene material in aqueous electrolytes. <i>Energy Storage Materials</i> , 2019, 18, 456-461.    | 9.5  | 111       |
| 12 | Li-ion storage properties of two-dimensional titanium-carbide synthesized via fast one-pot method in air atmosphere. <i>Nature Communications</i> , 2021, 12, 5085.                                 | 5.8  | 88        |
| 13 | MXenes as High-Rate Electrodes for Energy Storage. <i>Trends in Chemistry</i> , 2020, 2, 654-664.   | 4.4  | 81        |
| 14 | Enabling Flexible Heterostructures for Li-ion Battery Anodes Based on Nanotube and Liquid-Phase Exfoliated 2D Gallium Chalcogenide Nanosheet Colloidal Solutions. <i>Small</i> , 2017, 13, 1701677. | 5.2  | 71        |
| 15 | Carbon nanotubes enhance flexible MXene films for high-rate supercapacitors. <i>Journal of Materials Science</i> , 2020, 55, 1148-1156.   | 1.7  | 71        |
| 16 | 3D rGO aerogel with superior electrochemical performance for K <sup>+</sup> Ion battery. <i>Energy Storage Materials</i> , 2019, 19, 306-313.   | 9.5  | 70        |
| 17 | Graphene-Based Supercapacitors Using Eutectic Ionic Liquid Mixture Electrolyte. <i>Electrochimica Acta</i> , 2016, 206, 446-451.  | 2.6  | 63        |
| 18 | Electrochemical oxidation of methyl orange by a Magn@li phase Ti <sub>4</sub> O <sub>7</sub> anode. <i>Chemosphere</i> , 2020, 241, 125084.   | 4.2  | 60        |

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|----|---|------|-----------|
| 19 | Tracking Ionic Rearrangements and Interpreting Dynamic Volumetric Changes in Two-Dimensional Metal Carbide Supercapacitors: A Molecular Dynamics Simulation Study. <i>ChemSusChem</i> , 2018, 11, 1892-1899.  | 3.6  | 50        |
| 20 | Large Intercalation Pseudocapacitance in 2D VO <sub>2</sub> (B): Breaking through the Kinetic Barrier. <i>Advanced Materials</i> , 2018, 30, e1803594.  | 11.1 | 50        |
| 21 | Computational Insights into Charge Storage Mechanisms of Supercapacitors. <i>Energy and Environmental Materials</i> , 2020, 3, 235-246.   | 7.3  | 49        |
| 22 | Molten Salt Derived Nb <sub>2</sub> CT <sub>x</sub> MXene Anode for Li-ion Batteries. <i>ChemElectroChem</i> , 2021, 8, 957-962.  | 1.7  | 47        |
| 23 | Electrochemical double layer capacitors: What is next beyond the corner?. <i>Current Opinion in Electrochemistry</i> , 2017, 6, 115-119.  | 2.5  | 38        |
| 24 | Effects of functional groups and anion size on the charging mechanisms in layered electrode materials. <i>Energy Storage Materials</i> , 2020, 33, 460-469.   | 9.5  | 36        |
| 25 | Extra lithium-ion storage capacity enabled by liquid-phase exfoliated indium selenide nanosheets conductive network. <i>Energy and Environmental Science</i> , 2020, 13, 2124-2133.   | 15.6 | 35        |
| 26 | Dense organic molecules/graphene network anodes with superior volumetric and areal performance for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 461-469.  | 5.2  | 30        |
| 27 | Proton Ion Exchange Reaction in Li <sub>3</sub> IrO <sub>4</sub> : A Way to New H <sub>3</sub> IrO <sub>4</sub> Phases Electrochemically Active in Both Aqueous and Nonaqueous Electrolytes. <i>Advanced Energy Materials</i> , 2018, 8, 1702855.   | 10.2 | 29        |
| 28 | Perovskite-type SrVO <sub>3</sub> as High-Performance Anode Materials for Lithium-ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2107262.  | 11.1 | 29        |
| 29 | Advanced analytical techniques to characterize materials for electrochemical capacitors. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 18-25.   | 2.5  | 28        |
| 30 | Robust High-Temperature Supercapacitors Based on SiC Nanowires. <i>Advanced Functional Materials</i> , 2021, 31, 2008901.   | 7.8  | 28        |
| 31 | Tailoring the defects of two-dimensional borocarbonitride nanomesh for high energy density micro-supercapacitor. <i>Energy Storage Materials</i> , 2021, 42, 430-437.   | 9.5  | 25        |
| 32 | Molten Salt-Shielded Synthesis (MS <sup>3</sup> ) of MXenes in Air. <i>Energy and Environmental Materials</i> , 2023, 6, .  | 7.3  | 25        |
| 33 | Electrochemical Lithium Storage Performance of Molten Salt Derived V <sub>2</sub> SnC MAX Phase. <i>Nano-Micro Letters</i> , 2021, 13, 158.   | 14.4 | 23        |
| 34 | Cold Sintered Metal-Ceramic Nanocomposites for High-Frequency Inductors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000868.   | 2.6  | 18        |
| 35 | Photoirradiation-Induced Capacitance Enhancement in the h-WO <sub>3</sub> /Bi <sub>2</sub> WO <sub>6</sub> Submicron Rod Heterostructure under Simulated Solar Illumination and Its Postillumination Capacitance Enhancement Retainment from a Photocatalytic Memory Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 57214-57229. | 4.0  | 16        |
| 36 | Formation mechanism of Ti <sub>4</sub> O <sub>7</sub> phase prepared by carbothermal reduction reaction. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3871-3879.   | 1.9  | 14        |

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|----|--|-----|-----------|
| 37 | An ultrahigh-energy-density lithium metal capacitor. <i>Energy Storage Materials</i> , 2021, 42, 154-163.  | 9.5 | 13        |
| 38 | Lithium storage properties of Ti <sub>3</sub> C <sub>2</sub> T (T = F, Cl, Br) MXenes. <i>Chinese Chemical Letters</i> , 2023, 34, 107426.   | 4.8 | 12        |
| 39 | Boosting the performance of lithium metal capacitors with a Li composite anode. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10722-10730.  | 5.2 | 9         |
| 40 | Influence of aqueous solutions treatment on the Li <sup>+</sup> storage properties of molten salt derived Ti <sub>3</sub> C <sub>2</sub> Cl MXene. <i>Electrochemistry Communications</i> , 2022, 136, 107236. | 2.3 | 9         |
| 41 | Achieving ultrahigh electrochemical performance by surface design and nanoconfined water manipulation. <i>National Science Review</i> , 2022, 9, .   | 4.6 | 9         |
| 42 | A Method for Deconvoluting and Quantifying the Real-Time Species Fluxes and Ionic Currents Using In Situ Electrochemical Quartz Crystal Microbalance. <i>Advanced Materials Interfaces</i> , 2022, 9, .        | 1.9 | 8         |
| 43 | Double transition metal-containing M <sub>2</sub> TiAlC <sub>2</sub> -MAX phases as Li-ion batteries anodes: a theoretical screening. <i>Materials Research Letters</i> , 2021, 9, 516-522.                    | 4.1 | 7         |
| 44 | Molten salt synthesis and formation mechanisms of ternary V-based MAX phases by V-Al alloy strategy. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2277-2287.                                    | 1.9 | 6         |
| 45 | Tracking Ionic Rearrangements and Interpreting Dynamic Volumetric Changes in Two-Dimensional Metal Carbide Supercapacitors: A Molecular Dynamics Simulation Study. <i>ChemSusChem</i> , 2018, 11, 1889-1889.   | 3.6 | 3         |
| 46 | MXenes for Supercapacitor Application. , 2019, , 349-365.  |     | 3         |