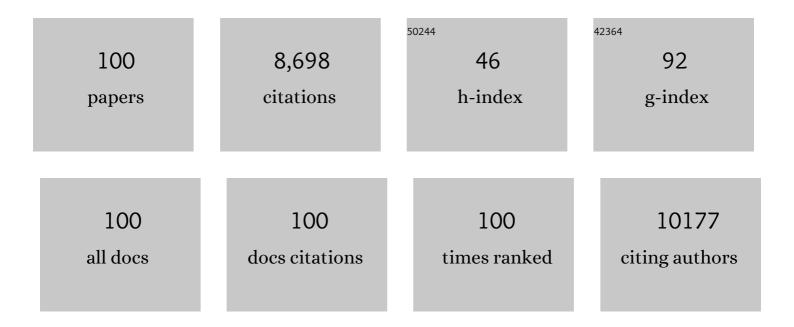
Zhaoxiang Wang

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Localizedâ€domains staging structure and evolution in lithiated graphite. , 2023, 5, . | | 21 |
| 2 | <scp>Antiâ€perovskite</scp> materials for energy storage batteries. InformaÄnÃ-Materiály, 2022, 4, . | 8.5 | 32 |
| 3 | Controlled Lithium Deposition. Frontiers in Energy Research, 2022, 10, . | 1.2 | 3 |
| 4 | Configurationâ€dependent anionic redox in cathode materials. , 2022, 1, . | | 28 |
| 5 | Feasibility to Improve the Stability of Lithium-Rich Layered Oxides by Surface Doping. ACS Applied Materials & Interfaces, 2022, 14, 18353-18359. | 4.0 | 21 |
| 6 | Electrolyte and current collector designs for stable lithium metal anodes. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 953-964. | 2.4 | 12 |
| 7 | Anionic redox reaction and structural evolution of Ni-rich layered oxide cathode material. Nano Energy, 2022, 98, 107335. | 8.2 | 27 |
| 8 | Polymer electrolytes based on interactions between [solvent-Li+] complex and solvent-modified polymer. Energy Storage Materials, 2022, 51, 443-452. | 9.5 | 62 |
| 9 | Regulating Anion Redox and Cation Migration to Enhance the Structural Stability of Li-Rich Layered Oxides. ACS Applied Materials & Interfaces, 2021, 13, 12159-12168. | 4.0 | 32 |
| 10 | Iron carbide allured lithium metal storage in carbon nanotube cavities. Energy Storage Materials, 2021, 36, 459-465. | 9.5 | 39 |
| 11 | Synergy Effect of Trimethyl Borate on Protecting High-Voltage Cathode Materials in Dual-Additive Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 21459-21466. | 4.0 | 21 |
| 12 | Competitive Solvation Enhanced Stability of Lithium Metal Anode in Dual-Salt Electrolyte. Nano Letters, 2021, 21, 3310-3317. | 4.5 | 95 |
| 13 | Anionic Effect on Enhancing the Stability of a Solid Electrolyte Interphase Film for Lithium Deposition on Graphite. Nano Letters, 2021, 21, 5316-5323. | 4.5 | 46 |
| 14 | Cationic disordering modulated electrochemical performances of layer-structured Li2MoO3. Materials Today Physics, 2021, 21, 100561. | 2.9 | 4 |
| 15 | Phase Diagram Determined Lithium Plating/Stripping Behaviors on Lithiophilic Substrates. ACS Energy Letters, 2021, 6, 4118-4126. | 8.8 | 65 |
| 16 | Understanding the dropping of lithium plating potential in carbonate electrolyte. Nano Energy, 2020, 70, 104486. | 8.2 | 42 |
| 17 | Stacking Faults Hinder Lithium Insertion in Li ₂ RuO ₃ . Advanced Energy Materials, 2020, 10, 2002631. | 10.2 | 22 |
| 18 | Superiority of native vacancies in activating anionic redox in P2-type Na2/3[Mn7/9Mg1/9â–¡1/9]O2. Nano Energy, 2020, 78, 105172. | 8.2 | 40 |

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| 19 | Self-charging flexible solar capacitors based on integrated perovskite solar cells and quasi-solid-state supercapacitors fabricated at low temperature. Journal of Power Sources, 2020, 479, 229046. | 4.0 | 25 |
| 20 | Europium-Doped Ceria Nanowires as Anode for Solid Oxide Fuel Cells. Frontiers in Chemistry, 2020, 8, 348. | 1.8 | 11 |
| 21 | Impact of hydrogen on lithium storage on graphene edges. Applied Surface Science, 2020, 515, 145886. | 3.1 | 5 |
| 22 | Eliminating Transition Metal Migration and Anionic Redox to Understand Voltage Hysteresis of Lithiumâ€Rich Layered Oxides. Advanced Energy Materials, 2020, 10, 1903634. | 10.2 | 45 |
| 23 | Insights into Lithium and Sodium Storage in Porous Carbon. Nano Letters, 2020, 20, 3836-3843. | 4.5 | 86 |
| 24 | Minimizing carbon particle size to improve lithium deposition on natural graphite. Carbon, 2019, 155, 9-15. | 5.4 | 26 |
| 25 | Interface Engineering to Eliminate Hysteresis of Carbon-Based Planar Heterojunction Perovskite Solar Cells via CuSCN Incorporation. ACS Applied Materials & Interfaces, 2019, 11, 28431-28441. | 4.0 | 60 |
| 26 | Li–Ti Cation Mixing Enhanced Structural and Performance Stability of Liâ€Rich Layered Oxide. Advanced Energy Materials, 2019, 9, 1901530. | 10.2 | 76 |
| 27 | Extended "Adsorption–Insertion―Model: A New Insight into the Sodium Storage Mechanism of Hard Carbons. Advanced Energy Materials, 2019, 9, 1901351. | 10.2 | 284 |
| 28 | Sodium Storage Mechanism: Extended "Adsorption–Insertion―Model: A New Insight into the Sodium Storage Mechanism of Hard Carbons (Adv. Energy Mater. 32/2019). Advanced Energy Materials, 2019, 9, 1970125. | 10.2 | 4 |
| 29 | Improved lithium deposition on silver plated carbon fiber paper. Nano Energy, 2019, 66, 104144. | 8.2 | 38 |
| 30 | Atomic Scale Recognition of Structure in the Intercalation of Sodium by Aberration-Corrected Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 2120-2121. | 0.2 | 0 |
| 31 | Atomistic understanding of structural evolution, ion transport and oxygen stability in layered NaFeO ₂ . Journal of Materials Chemistry A, 2019, 7, 2619-2625. | 5.2 | 13 |
| 32 | LiFSI to improve lithium deposition in carbonate electrolyte. Energy Storage Materials, 2019, 23, 350-357. | 9.5 | 65 |
| 33 | Trimethyl Borate as Film-Forming Electrolyte Additive To Improve High-Voltage Performances. ACS Applied Materials & Interfaces, 2019, 11, 17435-17443. | 4.0 | 77 |
| 34 | Lithium Plating and Stripping on Carbon Nanotube Sponge. Nano Letters, 2019, 19, 494-499. | 4.5 | 101 |
| 35 | Native Vacancy Enhanced Oxygen Redox Reversibility and Structural Robustness. Advanced Energy Materials, 2019, 9, 1803087. | 10.2 | 70 |
| 36 | Iron migration and oxygen oxidation during sodium extraction from NaFeO2. Nano Energy, 2018, 47, 519-526. | 8.2 | 111 |

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| 37 | Another Strategy, Detouring Potential Decay by Fast Completion of Cation Mixing. Advanced Energy Materials, 2018, 8, 1703092. | 10.2 | 30 |
| 38 | Reduction Depth Dependent Structural Reversibility of Sn ₃ (PO ₄) ₂ . ACS Applied Energy Materials, 2018, 1, 129-133. | 2.5 | 8 |
| 39 | Surface Doping to Enhance Structural Integrity and Performance of Liâ€Rich Layered Oxide. Advanced Energy Materials, 2018, 8, 1802105. | 10.2 | 228 |
| 40 | First-principles calculations on lithium and sodium adsorption on graphene edges. Electrochimica Acta, 2018, 282, 205-212. | 2.6 | 14 |
| 41 | Vacancy-induced MnO ₆ distortion and its impacts on structural transition of Li ₂ MnO ₃ . Physical Chemistry Chemical Physics, 2017, 19, 7025-7031. | 1.3 | 29 |
| 42 | Design and Properties Prediction of <i>AM</i> CO ₃ F by First-Principles Calculations. ACS Applied Materials & Interfaces, 2017, 9, 13255-13261. | 4.0 | 5 |
| 43 | Structural stability and stabilization of Li ₂ MoO ₃ . Physical Chemistry Chemical Physics, 2017, 19, 17538-17543. | 1.3 | 20 |
| 44 | Controlled deposition of Li metal. Nano Energy, 2017, 32, 241-246. | 8.2 | 70 |
| 45 | Reversible conversion of MoS2 upon sodium extraction. Nano Energy, 2017, 41, 217-224. | 8.2 | 60 |
| 46 | Li ₂ C ₂ , a High apacity Cathode Material for Lithium Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 644-648. | 7.2 | 29 |
| 47 | Enhanced electrochemical performance of Ti-doped Li1.2Mn0.54Co0.13Ni0.13O2 for lithium-ion batteries. Journal of Power Sources, 2016, 317, 74-80. | 4.0 | 134 |
| 48 | Ternary Porous Sulfur/Dual-Carbon Architectures for Lithium/Sulfur Batteries Obtained Continuously and on a Large Scale via an Industry-Oriented Spray-Pyrolysis/Sublimation Method. ACS Applied Materials & Interfaces, 2016, 8, 25251-25260. | 4.0 | 15 |
| 49 | LiCoO2-catalyzed electrochemical oxidation of Li2CO3. Nano Research, 2016, 9, 3903-3913. | 5.8 | 29 |
| 50 | Reversible reduction of Li ₂ CO ₃ . Journal of Materials Chemistry A, 2015, 3, 14173-14177. | 5.2 | 80 |
| 51 | Novel Large‣cale Synthesis of a C/S Nanocomposite with Mixed Conducting Networks through a Spray Drying Approach for Li–S Batteries. Advanced Energy Materials, 2015, 5, 1500046. | 10.2 | 96 |
| 52 | Anti-P2 structured Na0.5NbO2and its negative strain effect. Energy and Environmental Science, 2015, 8, 2753-2759. | 15.6 | 14 |
| 53 | Lithium Storage in Heatâ€Treated SnF ₂ /Polyacrylonitrile Anode. Chemistry - A European Journal, 2015, 21, 8491-8496. | 1.7 | 7 |
| 54 | Gelatin-pyrolyzed mesoporous carbon as a high-performance sodium-storage material. Journal of Materials Chemistry A, 2015, 3, 7849-7854. | 5.2 | 97 |

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| 55 | Selecting Substituent Elements for Li-Rich Mn-Based Cathode Materials by Density Functional Theory (DFT) Calculations. Chemistry of Materials, 2015, 27, 3456-3461. | 3.2 | 149 |
| 56 | Workfunction, a new viewpoint to understand the electrolyte/electrode interface reaction. Journal of Materials Chemistry A, 2015, 3, 23420-23425. | 5.2 | 21 |
| 57 | Transitionâ€Metal atalyzed Oxidation of Metallic Sn in NiO/SnO ₂ Nanocomposite. Chemistry - A European Journal, 2014, 20, 5487-5491. | 1.7 | 30 |
| 58 | Feasibility of Using Li ₂ MoO ₃ in Constructing Li-Rich High Energy Density Cathode Materials. Chemistry of Materials, 2014, 26, 3256-3262. | 3.2 | 106 |
| 59 | Atomic-Scale Clarification of Structural Transition of MoS ₂ upon Sodium Intercalation. ACS Nano, 2014, 8, 11394-11400. | 7.3 | 355 |
| 60 | Molybdenum Substitution for Improving the Charge Compensation and Activity of Li ₂ MnO ₃ . Chemistry - A European Journal, 2014, 20, 8723-8730. | 1.7 | 33 |
| 61 | Tuning charge–discharge induced unit cell breathing in layer-structured cathode materials for lithium-ion batteries. Nature Communications, 2014, 5, 5381. | 5.8 | 180 |
| 62 | High performance pure sulfur honeycomb-like architectures synthesized by a cooperative self-assembly strategy for lithium–sulfur batteries. RSC Advances, 2014, 4, 36513-36516. | 1.7 | 8 |
| 63 | Carbon-coated hierarchically porous silicon as anode material for lithium ion batteries. RSC Advances, 2014, 4, 15314. | 1.7 | 35 |
| 64 | Improved electron/Li-ion transport and oxygen stability of Mo-doped Li2MnO3. Journal of Materials Chemistry A, 2014, 2, 4811. | 5.2 | 101 |
| 65 | Structural and electrochemical stability of Li-rich layer structured Li2MoO3 in air. Journal of Power Sources, 2014, 258, 314-320. | 4.0 | 41 |
| 66 | Polypyrrole–NiO composite as high-performance lithium storage material. Electrochimica Acta, 2013, 105, 162-169. | 2.6 | 40 |
| 67 | Surface modification of Li1.2Mn0.54Co0.13Ni0.13O2 with conducting polypyrrole. Journal of Power Sources, 2013, 231, 44-49. | 4.0 | 91 |
| 68 | Highly Ordered Mesoporous Crystalline MoSe ₂ Material with Efficient Visibleâ€Lightâ€Driven Photocatalytic Activity and Enhanced Lithium Storage Performance. Advanced Functional Materials, 2013, 23, 1832-1838. | 7.8 | 285 |
| 69 | A Conductive Polypyrroleâ€Coated, Sulfur–Carbon Nanotube Composite for Use in Lithium–Sulfur Batteries. ChemPlusChem, 2013, 78, 318-324. | 1.3 | 57 |
| 70 | Lithium storage in nitrogen-rich mesoporous carbon materials. Energy and Environmental Science, 2012, 5, 7950. | 15.6 | 593 |
| 71 | New Insight into the Atomic Structure of Electrochemically Delithiated O3-Li _(1–<i>x</i>) CoO ₂ (0 ≤i>x ≤0.5) Nanoparticles. Nano Letters, 2012, 1 6192-6197. | 12,5 | 128 |
| 72 | Mechanism of Lithium Storage in MoS ₂ and the Feasibility of Using Li ₂ S/Mo Nanocomposites as Cathode Materials for Lithium–Sulfur Batteries. Chemistry - an Asian Journal, 2012, 7, 1013-1017. | 1.7 | 158 |

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| 73 | Lithium storage performance in ordered mesoporous MoS2 electrode material. Microporous and Mesoporous Materials, 2012, 151, 418-423. | 2.2 | 173 |
| 74 | Capacitive Energy Storage on Fe/Li ₃ PO ₄ Grain Boundaries. Journal of Physical Chemistry C, 2011, 115, 3803-3808. | 1.5 | 44 |
| 75 | Atomic-scale investigation on lithium storage mechanism in TiNb2O7,. Energy and Environmental Science, 2011, 4, 2638. | 15.6 | 256 |
| 76 | Polypyrrole-iron-oxygen coordination complex as high performance lithium storage material. Energy and Environmental Science, 2011, 4, 3442. | 15.6 | 62 |
| 77 | Nano-CaCO3 templated mesoporous carbon as anode material for Li-ion batteries. Electrochimica Acta, 2011, 56, 6464-6468. | 2.6 | 73 |
| 78 | Electrode reactions of manganese oxides for secondary lithium batteries. Electrochemistry Communications, 2010, 12, 1520-1523. | 2.3 | 242 |
| 79 | Research on Advanced Materials for Liâ€ion Batteries. Advanced Materials, 2009, 21, 4593-4607. | 11.1 | 1,633 |
| 80 | lodine ion transport in solid electrolyte LiI(C3H5NO)2: a first-principles identification. Ionics, 2007, 12, 343-347. | 1.2 | 13 |
| 81 | Origin of Solid Electrolyte Interphase on Nanosized LiCoO[sub 2]. Electrochemical and Solid-State Letters, 2006, 9, A328. | 2.2 | 63 |
| 82 | Ab initiostudies on the stability and electronic structure ofLiCoO2(003) surfaces. Physical Review B, 2005, 71, . | 1.1 | 29 |
| 83 | First-principles investigation of the structural, magnetic, and electronic properties of olivineLiFePO4. Physical Review B, 2005, 71, . | 1.1 | 57 |
| 84 | First-principles study of Li ion diffusion inLiFePO4. Physical Review B, 2004, 69, . | 1.1 | 250 |
| 85 | SPECTROSCOPIC STUDIES OF SOLID-ELECTROLYTE INTERPHASE ON POSITIVE AND NEGATIVE ELECTRODES FOR LITHIUM ION BATTERIES. , 2004, , 140-197. | | 2 |
| 86 | New Binary Room-Temperature Molten Salt Electrolyte Based on Urea and LiTFSI. Journal of Physical Chemistry B, 2001, 105, 9966-9969. | 1.2 | 85 |
| 87 | Nano-SnSb alloy deposited on MCMB as an anode material for lithium ion batteries. Journal of Materials Chemistry, 2001, 11, 1502-1505. | 6.7 | 98 |
| 88 | Spectroscopic studies on interactions and microstructures in propylene carbonate?LiTFSI electrolytes. Journal of Raman Spectroscopy, 2001, 32, 900-905. | 1.2 | 70 |
| 89 | Polymer-in-salt electrolytes based on PAN-LiTFSI. , 2000, , . | | Ο |
| 90 | Crystallization mechanism in amorphous material of 0.5LiMnO2-0.5B2O3. Journal of Materials Science, 2000, 35, 1695-1698. | 1.7 | 5 |

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| 91 | Lithium insertion/extraction in pyrolyzed phenolic resin. Journal of Power Sources, 1999, 81-82, 328-334. | 4.0 | 19 |
| 92 | A new possible mechanism of lithium insertion and extraction in low-temperature pyrolytic carbon electrode. Carbon, 1999, 37, 685-692. | 5.4 | 34 |
| 93 | Studies of Stannic Oxide as an Anode Material for Lithiumâ€ion Batteries. Journal of the Electrochemical Society, 1998, 145, 59-62. | 1.3 | 156 |
| 94 | Ion Association and Salvation Studies of LiClO4/Ethylene Carbonate Electrolyte by Raman and Infrared Spectroscopy. Journal of the Electrochemical Society, 1998, 145, 3346-3350. | 1.3 | 57 |
| 95 | Dispersion effects of Raman lines in carbons. Journal of Applied Physics, 1998, 84, 227-231. | 1.1 | 44 |
| 96 | Characterizations of crystalline structure and electrical properties of pyrolyzed polyfurfuryl alcohol. Journal of Applied Physics, 1997, 82, 5705-5710. | 1.1 | 36 |
| 97 | Competition Between the Plasticizer and Polymer on Associating with Li +  lons in Polyacrylonitrileâ€Based Electrolytes. Journal of the Electrochemical Society, 1997, 144, 778-786. | 1.3 | 55 |
| 98 | Experimental Evidence of the Interaction Between Polyacrylonitrile and Ethylene Carbonate Plasticizer by Raman Spectroscopy. Journal of Raman Spectroscopy, 1996, 27, 609-613. | 1.2 | 5 |
| 99 | Raman Spectroscopic Investigation of the Dissociation of Dimethylsulphoxide Induced by Polyacrylonitrile. Journal of Raman Spectroscopy, 1996, 27, 901-906. | 1.2 | 5 |
| 100 | A Vibrational Spectroscopic Study on the Interaction Between Lithium Salt and Ethylene Carbonate Plasticizer for PANâ€Based Electrolytes. Journal of the Electrochemical Society, 1996, 143, 1510-1514. | 1.3 | 47 |