## Xuewei Fu

List of Publications by Year in descending order

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XIIEWEL FU

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A review of the electrical and mechanical properties of carbon nanofiller-reinforced polymer composites. Journal of Materials Science, 2019, 54, 1036-1076.   | 1.7  | 210       |
| 2  | Advanced gel polymer electrolytes for safe and durable lithium metal batteries: Challenges, strategies, and perspectives. Energy Storage Materials, 2021, 34, 515-535.  | 9.5  | 165       |
| 3  | Fabrication, properties and applications of soy-protein-based materials: A review. International<br>Journal of Biological Macromolecules, 2018, 120, 475-490.   | 3.6  | 163       |
| 4  | A robust and ion-conductive protein-based binder enabling strong polysulfide anchoring for<br>high-energy lithium–sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 1835-1848.                             | 5.2  | 96        |
| 5  | Natural polypeptides treat pollution complex: Moisture-resistant multi-functional protein nanofabrics for sustainable air filtration. Nano Research, 2018, 11, 4265-4277.   | 5.8  | 78        |
| 6  | An Ultrarobust Composite Gel Electrolyte Stabilizing Ion Deposition for Longâ€Life Lithium Metal<br>Batteries. Advanced Functional Materials, 2019, 29, 1904547.  | 7.8  | 76        |
| 7  | Biomaterials for Highâ€Energy Lithiumâ€Based Batteries: Strategies, Challenges, and Perspectives.<br>Advanced Energy Materials, 2019, 9, 1901774.   | 10.2 | 73        |
| 8  | Morphology engineering of protein fabrics for advanced and sustainable filtration. Journal of<br>Materials Chemistry A, 2018, 6, 21585-21595.   | 5.2  | 69        |
| 9  | Strategies for Building Robust Traffic Networks in Advanced Energy Storage Devices: A Focus on<br>Composite Electrodes. Advanced Materials, 2019, 31, e1804204.   | 11.1 | 69        |
| 10 | Configurational and structural design of separators toward shuttling-free and dendrite-free<br>lithium-sulfur batteries: A review. Energy Storage Materials, 2022, 47, 629-648.                                       | 9.5  | 53        |
| 11 | A Nanoprotein-Functionalized Hierarchical Composite Air Filter. ACS Sustainable Chemistry and Engineering, 2018, 6, 11606-11613.  | 3.2  | 47        |
| 12 | Decoupled Ion Transport in a Protein-Based Solid Ion Conductor. Journal of Physical Chemistry<br>Letters, 2016, 7, 4304-4310.   | 2.1  | 38        |
| 13 | A Janus protein-based nanofabric for trapping polysulfides and stabilizing lithium metal in<br>lithium–sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 7377-7389.  | 5.2  | 38        |
| 14 | Let It Catch: A Shortâ€Branched Protein for Efficiently Capturing Polysulfides in Lithium–Sulfur<br>Batteries. Advanced Energy Materials, 2020, 10, 1903642.  | 10.2 | 37        |
| 15 | A protein-functionalized microfiber/protein nanofiber Bi-layered air filter with synergistically<br>enhanced filtration performance by a viable method. Separation and Purification Technology, 2019,<br>229, 115837. | 3.9  | 36        |
| 16 | Self-Assembled Protein Nanofilter for Trapping Polysulfides and Promoting Li <sup>+</sup> Transport<br>in Lithium–Sulfur Batteries. Journal of Physical Chemistry Letters, 2018, 9, 2450-2459.                        | 2.1  | 35        |
| 17 | A bio-surfactant for defect control: Multifunctional gelatin coated MWCNTs for conductive epoxy nanocomposites. Composites Science and Technology, 2018, 159, 216-224.  | 3.8  | 33        |
| 18 | A Janus nanofiber-based separator for trapping polysulfides and facilitating ion-transport in lithium–sulfur batteries. Nanoscale, 2019, 11, 18090-18098.   | 2.8  | 33        |

Xuewei Fu

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|----|--|-----|-----------|
| 19 | A polymeric nanocomposite interlayer as ion-transport-regulator for trapping polysulfides and stabilizing lithium metal. Energy Storage Materials, 2018, 15, 447-457.                                  | 9.5 | 27        |
| 20 | An ultra-durable gel electrolyte stabilizing ion deposition and trapping polysulfides for<br>lithium-sulfur batteries. Energy Storage Materials, 2020, 27, 25-34.                                      | 9.5 | 27        |
| 21 | Building Ion-Conduction Highways in Polymeric Electrolytes by Manipulating Protein Configuration.<br>ACS Applied Materials & Interfaces, 2018, 10, 4726-4736.  | 4.0 | 26        |
| 22 | MOFâ€Enabled Ionâ€Regulating Gel Electrolyte for Long ycling Lithium Metal Batteries Under High<br>Voltage. Small, 2022, 18, e2106225.   | 5.2 | 26        |
| 23 | A Bimodal Protein Fabric Enabled via In Situ Diffusion for High-Performance Air Filtration.<br>Environmental Science & Technology, 2020, 54, 12042-12050.  | 4.6 | 24        |
| 24 | Proteinâ€Engineered Functional Materials for Bioelectronics. Advanced Functional Materials, 2021, 31, 2006744.   | 7.8 | 24        |
| 25 | Core–Shell Hybrid Nanowires with Protein Enabling Fast Ion Conduction for Highâ€Performance<br>Composite Polymer Electrolytes. Small, 2018, 14, e1803564.  | 5.2 | 22        |
| 26 | Natural "relief―for lithium dendrites: Tailoring protein configurations for long-life lithium metal<br>anodes. Energy Storage Materials, 2021, 42, 22-33.  | 9.5 | 22        |
| 27 | A wet-processed, binder-free sulfur cathode integrated with a dual-functional separator for flexible<br>Li–S batteries. Nanoscale, 2020, 12, 5483-5493.  | 2.8 | 21        |
| 28 | Poly(Vinylidene Fluoride)â€Based Blends as New Binders for Lithiumâ€Ion Batteries. ChemElectroChem,<br>2018, 5, 2288-2294.   | 1.7 | 20        |
| 29 | A protein-enabled protective film with functions of self-adapting and anion-anchoring for stabilizing<br>lithium-metal batteries. Journal of Energy Chemistry, 2022, 64, 485-495.                      | 7.1 | 20        |
| 30 | Building bimodal structures by a wettability difference-driven strategy for high-performance protein<br>air-filters. Journal of Hazardous Materials, 2021, 415, 125742.                                | 6.5 | 17        |
| 31 | A protein-reinforced adhesive composite electrolyte. Polymer, 2016, 106, 43-52.  | 1.8 | 16        |
| 32 | A Multifunctional Protein Coating for Self-Assembled Porous Nanostructured Electrodes. ACS<br>Omega, 2017, 2, 1679-1686.   | 1.6 | 15        |
| 33 | Small Molecules Make a Big Difference: A Solventâ€Controlled Strategy for Building Robust Conductive<br>Network Structures in Highâ€Capacity Electrode Composites. Small Methods, 2018, 2, 1800066.    | 4.6 | 15        |
| 34 | Rational Design of Graphite Nanoplatelets Interlayers via a Surfactant-Controlled Strategy for<br>Enhancing Lithium–Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 15267-15277. | 3.2 | 15        |
| 35 | A critical study on a 3D scaffold-based lithium metal anode. Electrochimica Acta, 2019, 318, 220-227.  | 2.6 | 15        |
| 36 | A Super-breathable "Woven-like―Protein Nanofabric. ACS Applied Bio Materials, 2020, 3, 2958-2964.  | 2.3 | 13        |

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|----|--|-----|-----------|
| 37 | A UV-curable epoxy with "soft―segments for 3D-printable shape-memory materials. Journal of<br>Materials Science, 2018, 53, 12650-12661.  | 1.7 | 12        |
| 38 | "See―the invisibles: Inspecting battery separator defects via pressure drop. Energy Storage Materials,<br>2019, 16, 589-596.   | 9.5 | 12        |
| 39 | Dissipative Particle Dynamics Simulations of a Protein-Directed Self-Assembly of Nanoparticles. ACS Omega, 2019, 4, 10216-10224.   | 1.6 | 11        |
| 40 | Robust supramolecular composite hydrogels for sustainable and "visible―agriculture irrigation.<br>Journal of Materials Chemistry A, 2021, 9, 24613-24621.  | 5.2 | 11        |
| 41 | A Proteinâ€Based Janus Separator for Trapping Polysulfides and Regulating Ion Transport in<br>Lithiumâ^'Sulfur Batteries. ChemSusChem, 2021, 14, 2226-2236.  | 3.6 | 10        |
| 42 | A novel carbon aerogel enabling respiratory monitoring for bio-facial masks. Journal of Materials<br>Chemistry A, 2021, 9, 13143-13150.  | 5.2 | 9         |
| 43 | Tailoring bimodal protein fabrics for enhanced air filtration performance. Separation and Purification Technology, 2022, 290, 120913.  | 3.9 | 8         |
| 44 | Natural protein as novel additive of a commercial electrolyte for Long-Cycling lithium metal batteries. Chemical Engineering Journal, 2022, 437, 135283.   | 6.6 | 7         |
| 45 | Interface-tailored forces fluffing protein fiber membranes for high-performance filtration.<br>Separation and Purification Technology, 2021, 278, 119570.  | 3.9 | 6         |
| 46 | Inâ€Situ Synthesis of N, O, Pâ€Doped Hierarchical Porous Carbon from Polyâ€bis(phenoxy)phosphazene for<br>Polysulfideâ€Trapping Interlayer in Lithiumâ€Sulfur Batteries. Chemistry - A European Journal, 2021, 27,<br>9876-9884. | 1.7 | 5         |
| 47 | Decoupled Ion Transport in Protein-Based Solid Electrolyte through <i>Ab Initio</i> Calculations and Experiments, Journal of Physical Chemistry Letters, 2021, 12, 9429-9435   | 2.1 | 4         |