

Zhengyuan Tu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40
papers

6,187
citations

28
h-index

42
g-index

42
ext. papers

7,171
ext. citations

17.3
avg, IF

6.38
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 40 | Stable lithium electrodeposition in liquid and nanoporous solid electrolytes. <i>Nature Materials</i> , 2014 , 13, 961-9 | 27 | 1096 |
| 39 | Design principles for electrolytes and interfaces for stable lithium-metal batteries. <i>Nature Energy</i> , 2016 , 1, | 62.3 | 990 |
| 38 | Cryo-STEM mapping of solid-liquid interfaces and dendrites in lithium-metal batteries. <i>Nature</i> , 2018 , 560, 345-349 | 50.4 | 390 |
| 37 | Metal-Sulfur Battery Cathodes Based on PAN-Sulfur Composites. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12143-52 | 16.4 | 376 |
| 36 | A stable room-temperature sodium-sulfur battery. <i>Nature Communications</i> , 2016 , 7, 11722 | 17.4 | 353 |
| 35 | Fast ion transport at solid-solid interfaces in hybrid battery anodes. <i>Nature Energy</i> , 2018 , 3, 310-316 | 62.3 | 313 |
| 34 | Ionic-liquid-nanoparticle hybrid electrolytes: applications in lithium metal batteries. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 488-92 | 16.4 | 255 |
| 33 | Designing solid-liquid interphases for sodium batteries. <i>Nature Communications</i> , 2017 , 8, 898 | 17.4 | 212 |
| 32 | 25th anniversary article: polymer-particle composites: phase stability and applications in electrochemical energy storage. <i>Advanced Materials</i> , 2014 , 26, 201-34 | 24 | 210 |
| 31 | Nanoporous Polymer-Ceramic Composite Electrolytes for Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1300654 | 21.8 | 199 |
| 30 | Nanostructured electrolytes for stable lithium electrodeposition in secondary batteries. <i>Accounts of Chemical Research</i> , 2015 , 48, 2947-56 | 24.3 | 161 |
| 29 | Regulating electrodeposition morphology of lithium: towards commercially relevant secondary Li metal batteries. <i>Chemical Society Reviews</i> , 2020 , 49, 2701-2750 | 58.5 | 160 |
| 28 | Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes. <i>Advanced Materials</i> , 2017 , 29, 1605512 | 24 | 151 |
| 27 | Designing Artificial Solid-Electrolyte Interphases for Single-Ion and High-Efficiency Transport in Batteries. <i>Joule</i> , 2017 , 1, 394-406 | 27.8 | 146 |
| 26 | Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 992-996 | 16.4 | 139 |
| 25 | Electrochemical Interphases for High-Energy Storage Using Reactive Metal Anodes. <i>Accounts of Chemical Research</i> , 2018 , 51, 80-88 | 24.3 | 114 |
| 24 | Design Principles of Functional Polymer Separators for High-Energy, Metal-Based Batteries. <i>Small</i> , 2018 , 14, e1703001 | 11 | 111 |

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| 23 | Electroless Formation of Hybrid Lithium Anodes for Fast Interfacial Ion Transport. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13070-13077 | 16.4 | 107 |
| 22 | Nanoporous Hybrid Electrolytes for High-Energy Batteries Based on Reactive Metal Anodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1602367 | 21.8 | 95 |
| 21 | Stable lithium electrodeposition in salt-reinforced electrolytes. <i>Journal of Power Sources</i> , 2015 , 279, 413-418 | 8.9 | 94 |
| 20 | Designer interphases for the lithium-oxygen electrochemical cell. <i>Science Advances</i> , 2017 , 3, e1602809 | 14.3 | 76 |
| 19 | Highly Conductive, Sulfonated, UV-Cross-Linked Separators for Li ⁺ Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 5147-5154 | 9.6 | 70 |
| 18 | Ionic-Liquid Nanoparticle Hybrid Electrolytes: Applications in Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2014 , 126, 498-502 | 3.6 | 66 |
| 17 | Stabilizing polymer electrolytes in high-voltage lithium batteries. <i>Nature Communications</i> , 2019 , 10, 30917.4 | 17.4 | 63 |
| 16 | Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 1004-1008 | 3.6 | 44 |
| 15 | Confining electrodeposition of metals in structured electrolytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6620-6625 | 11.5 | 42 |
| 14 | A Dendrite-Free Lithium Metal Battery Model Based on Nanoporous Polymer/Ceramic Composite Electrolytes and High-Energy Electrodes. <i>Small</i> , 2015 , 11, 2631-5 | 11 | 41 |
| 13 | Stabilizing Protic and Aprotic Liquid Electrolytes at High-Bandgap Oxide Interphases. <i>Chemistry of Materials</i> , 2018 , 30, 5655-5662 | 9.6 | 31 |
| 12 | Synthesis and Properties of Poly-Ether/Ethylene Carbonate Electrolytes with High Oxidative Stability. <i>Chemistry of Materials</i> , 2019 , 31, 8466-8472 | 9.6 | 20 |
| 11 | Fabrication of poly(lactide-co-glycolide) scaffold filled with fibrin gel, mesenchymal stem cells, and poly(ethylene oxide)-b-poly(L-lysine)/TGF- β plasmid DNA complexes for cartilage restoration in vivo. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 3097-108 | 5.4 | 20 |
| 10 | Nanoscale Elemental Mapping of Intact Solid-Liquid Interfaces and Reactive Materials in Energy Devices Enabled by Cryo-FIB/SEM. <i>ACS Energy Letters</i> , 2020 , 5, 1224-1232 | 20.1 | 13 |
| 9 | Influence of the molecular weight of poly(lactide-co-glycolide) on the in vivo cartilage repair by a construct of poly(lactide-co-glycolide)/fibrin gel/mesenchymal stem cells/transforming growth factor- β . <i>Tissue Engineering - Part A</i> , 2014 , 20, 1-11 | 3.9 | 13 |
| 8 | Electroless Formation of Hybrid Lithium Anodes for Fast Interfacial Ion Transport. <i>Angewandte Chemie</i> , 2017 , 129, 13250-13257 | 3.6 | 10 |
| 7 | Sodium Batteries: Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes (Adv. Mater. 12/2017). <i>Advanced Materials</i> , 2017 , 29, | 24 | 1 |
| 6 | Probing the Native Structure and Chemistry of Dendrites and SEI Layers in Li-Metal Batteries by Cryo-FIB Lift-Out and Cryo-STEM. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1518-1519 | 0.5 | 1 |

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| 5 | High-resolution Electron Imaging and Spectroscopy of Reactive Materials and Liquid-Solid Interfaces in Energy Storage Devices. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2028-2029 | 0.5 | 1 |
| 4 | Electronic structures and spectroscopy of sulfonated oligo(aryl ether ketones). <i>Computational and Theoretical Chemistry</i> , 2012 , 986, 1-5 | 2 | 1 |
| 3 | Electronic structures and spectroscopic regularities of phenylene-modified SWCNTs. <i>Chemical Papers</i> , 2011 , 65, | 1.9 | 1 |
| 2 | Titelbild: Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries (Angew. Chem. 4/2018). <i>Angewandte Chemie</i> , 2018 , 130, 863-863 | 3.6 | |
| 1 | Revealing the Nanoscale Structure and Chemistry of Intact Solid-Liquid Interfaces in Electrochemical Energy Storage Devices by Cryo-FIB Lift-Out and Cryo-STEM. <i>Microscopy and Microanalysis</i> , 2017 , 23, 2004-2005 | 0.5 | |