

Zhengyuan Tu

List of Publications by Year in Descending Order

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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	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
39	Regulating electrodeposition morphology of lithium: towards commercially relevant secondary Li metal batteries. <i>Chemical Society Reviews</i> , 2020 , 49, 2701-2750	58.5	160
38	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
37	Stabilizing polymer electrolytes in high-voltage lithium batteries. <i>Nature Communications</i> , 2019 , 10, 3091	17.4	63
36	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
35	Fast ion transport at solid-solid interfaces in hybrid battery anodes. <i>Nature Energy</i> , 2018 , 3, 310-316	62.3	313
34	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	
33	Design Principles of Functional Polymer Separators for High-Energy, Metal-Based Batteries. <i>Small</i> , 2018 , 14, e1703001	11	111
32	Stabilizing Protic and Aprotic Liquid Electrolytes at High-Bandgap Oxide Interphases. <i>Chemistry of Materials</i> , 2018 , 30, 5655-5662	9.6	31
31	Cryo-STEM mapping of solid-liquid interfaces and dendrites in lithium-metal batteries. <i>Nature</i> , 2018 , 560, 345-349	50.4	390
30	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
29	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
28	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
27	Electrochemical Interphases for High-Energy Storage Using Reactive Metal Anodes. <i>Accounts of Chemical Research</i> , 2018 , 51, 80-88	24.3	114
26	Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 1004-1008	3.6	44
25	Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes. <i>Advanced Materials</i> , 2017 , 29, 1605512	24	151
24	Nanoporous Hybrid Electrolytes for High-Energy Batteries Based on Reactive Metal Anodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1602367	21.8	95

23	Designer interphases for the lithium-oxygen electrochemical cell. <i>Science Advances</i> , 2017 , 3, e1602809	14.3	76
22	Sodium Batteries: Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes (Adv. Mater. 12/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
21	Designing solid-liquid interphases for sodium batteries. <i>Nature Communications</i> , 2017 , 8, 898	17.4	212
20	Designing Artificial Solid-Electrolyte Interphases for Single-Ion and High-Efficiency Transport in Batteries. <i>Joule</i> , 2017 , 1, 394-406	27.8	146
19	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	
18	Electroless Formation of Hybrid Lithium Anodes for Fast Interfacial Ion Transport. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13070-13077	16.4	107
17	Electroless Formation of Hybrid Lithium Anodes for Fast Interfacial Ion Transport. <i>Angewandte Chemie</i> , 2017 , 129, 13250-13257	3.6	10
16	A stable room-temperature sodium-sulfur battery. <i>Nature Communications</i> , 2016 , 7, 11722	17.4	353
15	Design principles for electrolytes and interfaces for stable lithium-metal batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	990
14	Highly Conductive, Sulfonated, UV-Cross-Linked Separators for LiS Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 5147-5154	9.6	70
13	Nanostructured electrolytes for stable lithium electrodeposition in secondary batteries. <i>Accounts of Chemical Research</i> , 2015 , 48, 2947-56	24.3	161
12	Metal-Sulfur Battery Cathodes Based on PAN-Sulfur Composites. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12143-52	16.4	376
11	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
10	Stable lithium electrodeposition in salt-reinforced electrolytes. <i>Journal of Power Sources</i> , 2015 , 279, 413-418	8.9	94
9	Ionic-liquid-nanoparticle hybrid electrolytes: applications in lithium metal batteries. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 488-92	16.4	255
8	Nanoporous Polymer-Ceramic Composite Electrolytes for Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1300654	21.8	199
7	Stable lithium electrodeposition in liquid and nanoporous solid electrolytes. <i>Nature Materials</i> , 2014 , 13, 961-9	27	1096
6	25th anniversary article: polymer-particle composites: phase stability and applications in electrochemical energy storage. <i>Advanced Materials</i> , 2014 , 26, 201-34	24	210

5	Ionic-Liquid Nanoparticle Hybrid Electrolytes: Applications in Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2014 , 126, 498-502	3.6	66
4	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
3	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
2	Electronic structures and spectroscopy of sulfonated oligo(aryl ether ketones). <i>Computational and Theoretical Chemistry</i> , 2012 , 986, 1-5	2	1
1	Electronic structures and spectroscopic regularities of phenylene-modified SWCNTs. <i>Chemical Papers</i> , 2011 , 65,	1.9	1