Tianyu Zhu

List of Publications by Year
in descending order

45 papers	1,678 citations	304743 22 h-index	289244 40 g-index
46 all docs	46 docs citations	46 times ranked	1828 citing authors

#	Article	IF	Citations
1	Lithium substituted poly(amic acid) as a water-soluble anode binder for high-temperature pre-lithiation. Journal of Power Sources, 2022, 521, 230889.	7.8	8
2	Singleâ€Crystal LiNi_xMn_yCo_{1â^'}_x_{â^'}_yO₂ Cathodes for Extreme Fast Charging. Small, 2022, 18, e2105833.	13.3	31
3	Correlation between the Stability of Substituted Cobaltocenium and Molecular Descriptors. Journal of Physical Chemistry A, 2022, 126, 80-87.	2.5	5
4	Synthesis of cationic cobaltocenophane monomers: Isomerization and ring-opening metathesis polymerization. Polymer, 2022, 242, 124544.	3.8	3
5	Stability Analysis of Substituted Cobaltocenium [Bis(cyclopentadienyl)cobalt(III)] Employing Chemistry-Informed Neural Networks. Journal of Chemical Theory and Computation, 2022, 18, 3099-3110.	5.3	3
6	Tough Antibacterial Metallopolymer Double-Network Hydrogels via Dual Polymerization. Chemistry of Materials, 2022, 34, 5663-5672.	6.7	18
7	Characterization of Amphiphilic Cobaltocenium Copolymers via Size Exclusion Chromatography with Online Laser-Light Scattering and Viscometric Detectors. Journal of Macromolecular Science - Physics, 2021, 60, 30-50.	1.0	2
8	Metallopolymer as a Solid Electrolyte for Rechargeable Zn-Metal Alkaline Batteries. , 2021, 3, 799-806.		9
9	Communicationâ€"Functional Conductive Polymer Binder for Practical Si-Based Electrodes. Journal of the Electrochemical Society, 2021, 168, 050533.	2.9	16
10	Mechanochemistry of Cationic Cobaltocenium Mechanophore. Journal of the American Chemical Society, 2021, 143, 11871-11878.	13.7	20
11	Biomass-derived polymeric binders in silicon anodes for battery energy storage applications. Green Chemistry, 2021, 23, 7890-7901.	9.0	26
12	Polymerizationâ€induced selfâ€assembly of metalloâ€polyelectrolyte block copolymers. Journal of Polymer Science, 2020, 58, 77-83.	3.8	12
13	Synthesis of site-specific charged metallopolymers via reversible addition-fragmentation chain transfer (RAFT) polymerization. Polymer, 2020, 187, 122095.	3.8	8
14	Rational Synthesis of Metallo-Cations Toward Redox- and Alkaline-Stable Metallo-Polyelectrolytes. Journal of the American Chemical Society, 2020, 142, 1083-1089.	13.7	91
15	Polymer compositions on kinetic resolution of secondary alcohols using polymer-supported silyl chlorides. Polymer Chemistry, 2020, 11, 5011-5018.	3.9	0
16	Review on core-shell structured cathode for intermediate temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 23160-23173.	7.1	34
17	A High Performing Znâ€Ion Battery Cathode Enabled by In Situ Transformation of V₂O₅ Atomic Layers. Angewandte Chemie, 2020, 132, 17152-17159.	2.0	33
18	Synthesis of Well-Defined Polyolefin Grafted SiO₂ Nanoparticles with Molecular Weight and Graft Density Control. ACS Macro Letters, 2020, 9, 1255-1260.	4.8	14

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19	N-Terminal Derivatization-Assisted Identification of Individual Amino Acids Using a Biological Nanopore Sensor. ACS Sensors, 2020, 5, 1707-1716.	7.8	21
20	A High Performing Znâ€Ion Battery Cathode Enabled by In Situ Transformation of V₂O₅ Atomic Layers. Angewandte Chemie - International Edition, 2020, 59, 17004-17011.	13.8	158
21	LaCrO3-Coated La0.6Sr0.4Co0.2Fe0.8O3â^'Î´ Coreâ€“Shell Structured Cathode with Enhanced Cr Tolerance for Intermediate-Temperature Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2020, 12, 29133-29142.	8.0	4
22	Metallo-Polyelectrolytes: Correlating Macromolecular Architectures with Properties and Applications. Trends in Chemistry, 2020, 2, 227-240.	8.5	19
23	Crosslinked metallo-polyelectrolytes with enhanced flexibility and dimensional stability for anion-exchange membranes. Polymer Chemistry, 2020, 11, 4542-4546.	3.9	15
24	Rational design and demonstration of a high-performance flexible Zn/V2O5 battery with thin-film electrodes and para-polybenzimidazole electrolyte membrane. Energy Storage Materials, 2020, 27, 418-425.	18.0	39
25	Polymerizationâ€induced selfâ€assembly of metalloâ€polyelectrolyte block copolymers. Journal of Polymer Science, 2020, 58, 77-83.	3.8	0
26	ROMPI-CDSA: ring-opening metathesis polymerization-induced crystallization-driven self-assembly of metallo-block copolymers. Chemical Science, 2019, 10, 9782-9787.	7.4	47
27	A Semisolid Electrolyte for Flexible Zn-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 6904-6910.	5.1	77
28	Artificial Cellulosome Complex from the Selfâ€Assembly of Niâ€NTAâ€Functionalized Polymeric Micelles and Cellulases. ChemBioChem, 2019, 20, 1394-1399.	2.6	20
29	Crystallization-Driven Self-Assembly of Metallo-Polyelectrolyte Block Copolymers with a Polycaprolactone Core-Forming Segment. ACS Macro Letters, 2019, 8, 835-840.	4.8	52
30	Generalizing metallocene mechanochemistry to ruthenocene mechanophores. Chemical Science, 2019, 10, 4959-4965.	7.4	59
31	Ultra-strong long-chain polyamide elastomers with programmable supramolecular interactions and oriented crystalline microstructures. Nature Communications, 2019, 10, 1315.	12.8	131
32	Gold Nanoparticles with Antibioticâ€Metallopolymers toward Broadâ€Spectrum Antibacterial Effects. Advanced Healthcare Materials, 2019, 8, e1800854.	7.6	55
33	InnenrÃ¼cktitelbild: Cationic Metalloâ€Polyelectrolytes for Robust Alkaline Anionâ€Exchange Membranes (Angew. Chem. 9/2018). Angewandte Chemie, 2018, 130, 2529-2529.	2.0	0
34	Renewable atom-efficient polyesters and thermosetting resins derived from high oleic soybean oil. Green Chemistry, 2018, 20, 1106-1113.	9.0	55
35	Charged Metallopolymer-Grafted Silica Nanoparticles for Antimicrobial Applications. Biomacromolecules, 2018, 19, 417-425.	5.4	34
36	Cationic Metalloâ€Polyelectrolytes for Robust Alkaline Anionâ€Exchange Membranes. Angewandte Chemie - International Edition, 2018, 57, 2388-2392.	13.8	163

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37	Cationic Metalloâ€Polyelectrolytes for Robust Alkaline Anionâ€Exchange Membranes. Angewandte Chemie, 2018, 130, 2412-2416.	2.0	20
38	Recyclable magnetic nanoparticles grafted with antimicrobial metallopolymer-antibiotic bioconjugates. Biomaterials, 2018, 178, 363-372.	11.4	33
39	Photoresponsive supramolecular polymers based on quadruple hydrogen-bonding and a photochromic azobenzene motif. Polymer Chemistry, 2018, 9, 5395-5401.	3.9	16
40	Ring-Closing Metathesis and Ring-Opening Metathesis Polymerization toward Main-Chain Ferrocene-Containing Polymers. Macromolecules, 2018, 51, 9131-9139.	4.8	30
41	Metallo-polyelectrolytes as a class of ionic macromolecules for functional materials. Nature Communications, 2018, 9, 4329.	12.8	83
42	Quantitative and Mechanistic Mechanochemistry in Ferrocene Dissociation. ACS Macro Letters, 2018, 7, 1174-1179.	4.8	84
43	Trio Act of Boronolectin with Antibiotic-Metal Complexed Macromolecules toward Broad-Spectrum Antimicrobial Efficacy. ACS Infectious Diseases, 2017, 3, 845-853.	3.8	29
44	Photoinduced Metal-Free Atom Transfer Radical Polymerization of Biomass-Based Monomers. Macromolecules, 2016, 49, 7709-7717.	4.8	63
45	Metallocene-Containing Homopolymers and Heterobimetallic Block Copolymers via Photoinduced RAFT Polymerization. ACS Macro Letters, 2016, 5, 1293-1300.	4.8	37