

# Tianyu Zhu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1971841/publications.pdf>

Version: 2024-02-01

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	Cationic Metallo-Polyelectrolytes for Robust Alkaline Anion-Exchange Membranes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2388-2392.	13.8	163
2	A High Performing Zn-Ion Battery Cathode Enabled by In Situ Transformation of $V_2O_5$ Atomic Layers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17004-17011.	13.8	158
3	Ultra-strong long-chain polyamide elastomers with programmable supramolecular interactions and oriented crystalline microstructures. <i>Nature Communications</i> , 2019, 10, 1315.	12.8	131
4	Rational Synthesis of Metallo-Cations Toward Redox- and Alkaline-Stable Metallo-Polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2020, 142, 1083-1089.	13.7	91
5	Quantitative and Mechanistic Mechanochemistry in Ferrocene Dissociation. <i>ACS Macro Letters</i> , 2018, 7, 1174-1179.	4.8	84
6	Metallo-polyelectrolytes as a class of ionic macromolecules for functional materials. <i>Nature Communications</i> , 2018, 9, 4329.	12.8	83
7	A Semisolid Electrolyte for Flexible Zn-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 6904-6910.	5.1	77
8	Photoinduced Metal-Free Atom Transfer Radical Polymerization of Biomass-Based Monomers. <i>Macromolecules</i> , 2016, 49, 7709-7717.	4.8	63
9	Generalizing metallocene mechanochemistry to ruthenocene mechanophores. <i>Chemical Science</i> , 2019, 10, 4959-4965.	7.4	59
10	Renewable atom-efficient polyesters and thermosetting resins derived from high oleic soybean oil. <i>Green Chemistry</i> , 2018, 20, 1106-1113.	9.0	55
11	Gold Nanoparticles with Antibiotic-Metallopolymers toward Broad-Spectrum Antibacterial Effects. <i>Advanced Healthcare Materials</i> , 2019, 8, e1800854.	7.6	55
12	Crystallization-Driven Self-Assembly of Metallo-Polyelectrolyte Block Copolymers with a Polycaprolactone Core-Forming Segment. <i>ACS Macro Letters</i> , 2019, 8, 835-840.	4.8	52
13	ROMPI-CDSA: ring-opening metathesis polymerization-induced crystallization-driven self-assembly of metallo-block copolymers. <i>Chemical Science</i> , 2019, 10, 9782-9787.	7.4	47
14	Rational design and demonstration of a high-performance flexible Zn/V <sub>2</sub> O <sub>5</sub> battery with thin-film electrodes and para-polybenzimidazole electrolyte membrane. <i>Energy Storage Materials</i> , 2020, 27, 418-425.	18.0	39
15	Metallocene-Containing Homopolymers and Heterobimetallic Block Copolymers via Photoinduced RAFT Polymerization. <i>ACS Macro Letters</i> , 2016, 5, 1293-1300.	4.8	37
16	Charged Metallopolymer-Grafted Silica Nanoparticles for Antimicrobial Applications. <i>Biomacromolecules</i> , 2018, 19, 417-425.	5.4	34
17	Review on core-shell structured cathode for intermediate temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 23160-23173.	7.1	34
18	Recyclable magnetic nanoparticles grafted with antimicrobial metallopolymer-antibiotic bioconjugates. <i>Biomaterials</i> , 2018, 178, 363-372.	11.4	33

#	ARTICLE	IF	CITATIONS
19	A High Performing Zn <sup>2+</sup> /K <sup>+</sup> Battery Cathode Enabled by In Situ Transformation of V <sub>2</sub> O <sub>5</sub> Atomic Layers. <i>Angewandte Chemie</i> , 2020, 132, 17152-17159.	2.0	33
20	Single-Crystal LiNi <sub>x</sub> Mn <sub>y</sub> Co <sub>1-x-y</sub> PO <sub>4</sub> Cathodes for Extreme Fast Charging. <i>Small</i> , 2022, 18, e2105833.	11.0	41
21	Ring-Closing Metathesis and Ring-Opening Metathesis Polymerization toward Main-Chain Ferrocene-Containing Polymers. <i>Macromolecules</i> , 2018, 51, 9131-9139.	4.8	30
22	Trio Act of Boronolactin with Antibiotic-Metal Complexed Macromolecules toward Broad-Spectrum Antimicrobial Efficacy. <i>ACS Infectious Diseases</i> , 2017, 3, 845-853.	3.8	29
23	Biomass-derived polymeric binders in silicon anodes for battery energy storage applications. <i>Green Chemistry</i> , 2021, 23, 7890-7901.	9.0	26
24	N-Terminal Derivatization-Assisted Identification of Individual Amino Acids Using a Biological Nanopore Sensor. <i>ACS Sensors</i> , 2020, 5, 1707-1716.	7.8	21
25	Cationic Metallo-Polyelectrolytes for Robust Alkaline Anion-Exchange Membranes. <i>Angewandte Chemie</i> , 2018, 130, 2412-2416.	2.0	20
26	Artificial Cellulosome Complex from the Self-Assembly of Ni-NTA-Functionalized Polymeric Micelles and Cellulases. <i>ChemBioChem</i> , 2019, 20, 1394-1399.	2.6	20
27	Mechanochemistry of Cationic Cobaltocenium Mechanophore. <i>Journal of the American Chemical Society</i> , 2021, 143, 11871-11878.	13.7	20
28	Metallo-Polyelectrolytes: Correlating Macromolecular Architectures with Properties and Applications. <i>Trends in Chemistry</i> , 2020, 2, 227-240.	8.5	19
29	Tough Antibacterial Metallopolymer Double-Network Hydrogels via Dual Polymerization. <i>Chemistry of Materials</i> , 2022, 34, 5663-5672.	6.7	18
30	Photoresponsive supramolecular polymers based on quadruple hydrogen-bonding and a photochromic azobenzene motif. <i>Polymer Chemistry</i> , 2018, 9, 5395-5401.	3.9	16
31	Communication-Functional Conductive Polymer Binder for Practical Si-Based Electrodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 050533.	2.9	16
32	Crosslinked metallo-polyelectrolytes with enhanced flexibility and dimensional stability for anion-exchange membranes. <i>Polymer Chemistry</i> , 2020, 11, 4542-4546.	3.9	15
33	Synthesis of Well-Defined Polyolefin Grafted SiO <sub>2</sub> Nanoparticles with Molecular Weight and Graft Density Control. <i>ACS Macro Letters</i> , 2020, 9, 1255-1260.	4.8	14
34	Polymerization-Induced self-assembly of metallo-polyelectrolyte block copolymers. <i>Journal of Polymer Science</i> , 2020, 58, 77-83.	3.8	12
35	Metallopolymer as a Solid Electrolyte for Rechargeable Zn-Metal Alkaline Batteries. , 2021, 3, 799-806.		9
36	Synthesis of site-specific charged metallopolymers via reversible addition-fragmentation chain transfer (RAFT) polymerization. <i>Polymer</i> , 2020, 187, 122095.	3.8	8

#	ARTICLE	IF	CITATIONS
37	Lithium substituted poly(amic acid) as a water-soluble anode binder for high-temperature pre-lithiation. <i>Journal of Power Sources</i> , 2022, 521, 230889.	7.8	8
38	Correlation between the Stability of Substituted Cobaltocenium and Molecular Descriptors. <i>Journal of Physical Chemistry A</i> , 2022, 126, 80-87.	2.5	5
39	LaCrO <sub>3</sub> -Coated La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> Core-Shell Structured Cathode with Enhanced Cr Tolerance for Intermediate-Temperature Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 29133-29142.	8.0	4
40	Synthesis of cationic cobaltocenophane monomers: Isomerization and ring-opening metathesis polymerization. <i>Polymer</i> , 2022, 242, 124544.	3.8	3
41	Stability Analysis of Substituted Cobaltocenium [Bis(cyclopentadienyl)cobalt(III)] Employing Chemistry-Informed Neural Networks. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 3099-3110.	5.3	3
42	Characterization of Amphiphilic Cobaltocenium Copolymers via Size Exclusion Chromatography with Online Laser-Light Scattering and Viscometric Detectors. <i>Journal of Macromolecular Science - Physics</i> , 2021, 60, 30-50.	1.0	2
43	Innenrücktitelbild: Cationic Metallo-Polyelectrolytes for Robust Alkaline Anion-Exchange Membranes ( <i>Angew. Chem.</i> 9/2018). <i>Angewandte Chemie</i> , 2018, 130, 2529-2529.	2.0	0
44	Polymer compositions on kinetic resolution of secondary alcohols using polymer-supported silyl chlorides. <i>Polymer Chemistry</i> , 2020, 11, 5011-5018.	3.9	0
45	Polymerization-induced self-assembly of metallo-polyelectrolyte block copolymers. <i>Journal of Polymer Science</i> , 2020, 58, 77-83.	3.8	0