

Junpeng Wang

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,247
citations

471509

17
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

834
citing authors

#	ARTICLE	IF	CITATIONS
1	Inducing and quantifying forbidden reactivity with single-molecule polymer mechanochemistry. <i>Nature Chemistry</i> , 2015, 7, 323-327.	13.6	182
2	Olefin metathesis-based chemically recyclable polymers enabled by fused-ring monomers. <i>Nature Chemistry</i> , 2021, 13, 743-750.	13.6	115
3	Mechanical gating of a mechanochemical reaction cascade. <i>Nature Communications</i> , 2016, 7, 13433.	12.8	107
4	Relative Mechanical Strengths of Weak Bonds in Sonochemical Polymer Mechanochemistry. <i>Journal of the American Chemical Society</i> , 2015, 137, 10826-10832.	13.7	104
5	Mechanochemical Strengthening of a Multi-mechanophore Benzocyclobutene Polymer. <i>ACS Macro Letters</i> , 2015, 4, 834-837.	4.8	96
6	A Remote Stereochemical Lever Arm Effect in Polymer Mechanochemistry. <i>Journal of the American Chemical Society</i> , 2014, 136, 15162-15165.	13.7	89
7	A Polymer with "Locked" Degradability: Superior Backbone Stability and Accessible Degradability Enabled by Mechanophore Installation. <i>Journal of the American Chemical Society</i> , 2020, 142, 2100-2104.	13.7	88
8	Counting Secondary Loops Is Required for Accurate Prediction of End-Linked Polymer Network Elasticity. <i>ACS Macro Letters</i> , 2018, 7, 244-249.	4.8	60
9	Reactivity and Mechanism of a Mechanically Activated <i>anti</i> -Woodward-Hoffmann-DePuy Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 11554-11557.	13.7	56
10	Understanding the Structure-Polymerization Thermodynamics Relationships of Fused-Ring Cyclooctenes for Developing Chemically Recyclable Polymers. <i>Journal of the American Chemical Society</i> , 2022, 144, 928-934.	13.7	51
11	Accelerating a Mechanically Driven <i>anti</i> -Woodward-Hoffmann Ring Opening with a Polymer Lever Arm Effect. <i>Journal of Organic Chemistry</i> , 2015, 80, 11895-11898.	3.2	43
12	A Theoretical Study on C [∞] COOH Homolytic Bond Dissociation Enthalpies. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6263-6272.	2.5	42
13	Degradable Vinyl Random Copolymers via Photocontrolled Radical Ring-Opening Cascade Copolymerization**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	35
14	Single-Molecule Observation of a Mechanically Activated <i>Cis</i> -to- <i>Trans</i> Cyclopropane Isomerization. <i>Journal of the American Chemical Society</i> , 2016, 138, 10410-10412.	13.7	34
15	Counting loops in sidechain-crosslinked polymers from elastic solids to single-chain nanoparticles. <i>Chemical Science</i> , 2019, 10, 5332-5337.	7.4	33
16	Overcoming the Low Driving Force in Forming Depolymerizable Polymers through Monomer Isomerization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25493-25498.	13.8	28
17	Combined Constant-Force and Constant-Velocity Single-Molecule Force Spectroscopy of the Conrotatory Ring Opening Reaction of Benzocyclobutene. <i>ChemPhysChem</i> , 2017, 18, 1486-1489.	2.1	21
18	Catch and Release: Orbital Symmetry Guided Reaction Dynamics from a Freed "Tension Trapped Transition State". <i>Journal of Organic Chemistry</i> , 2015, 80, 11773-11778.	3.2	14

#	ARTICLE	IF	CITATIONS
19	Mechanochemical Ring-Opening of Allylic Epoxides. <i>Macromolecules</i> , 2019, 52, 6234-6240.	4.8	14
20	Degradable Vinyl Random Copolymers via Photocontrolled Radical Ring-Opening Cascade Copolymerization**. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	10
21	Conjugated molecule based 2D perovskites for high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21910-21917.	10.3	8
22	Depolymerizable semi-fluorinated polymers for sustainable functional materials. <i>Polymer Chemistry</i> , 2022, 13, 2608-2614.	3.9	7
23	Regulating the Thermodynamics and Thermal Properties of Depolymerizable Polycyclooctenes through Substituent Effects. <i>Macromolecular Rapid Communications</i> , 2023, 44, .	3.9	6
24	Overcoming the Low Driving Force in Forming Depolymerizable Polymers through Monomer Isomerization. <i>Angewandte Chemie</i> , 0, , .	2.0	2
25	Turnaround in use of enol ether opens the door to degradable plastics. <i>Trends in Chemistry</i> , 2022, 4, 258-259.	8.5	2
26	Solvent-Dependent Light-Induced Structures in <i>Gem</i> -Dichlorocyclopropanated Polybutadiene Solutions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6995-7001.	2.6	0