

Tatiana B Kouznetsova

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,555
citations

394421

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642732

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docs citations

23
times ranked

877
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulling Outward but Reacting Inward: Mechanically Induced Symmetry-Allowed Reactions of cis- and trans-Diester-Substituted Dichlorocyclopropanes. <i>Synlett</i> , 2022, 33, 885-889.	1.8	3
2	Distal conformational locks on ferrocene mechanophores guide reaction pathways for increased mechanochemical reactivity. <i>Nature Chemistry</i> , 2021, 13, 56-62.	13.6	67
3	Single-Molecule Activation and Quantification of Mechanically Triggered Palladium-Carbene Bond Dissociation. <i>Journal of the American Chemical Society</i> , 2021, 143, 1784-1789.	13.7	27
4	Mechanism Dictates Mechanics: A Molecular Substituent Effect in the Macroscopic Fracture of a Covalent Polymer Network. <i>Journal of the American Chemical Society</i> , 2021, 143, 3714-3718.	13.7	37
5	Substituent Effects in Mechanochemical Allowed and Forbidden Cyclobutene Ring-Opening Reactions. <i>Journal of the American Chemical Society</i> , 2021, 143, 3846-3855.	13.7	26
6	Single-Event Spectroscopy and Unravelling Kinetics of Covalent Domains Based on Cyclobutane Mechanophores. <i>Journal of the American Chemical Society</i> , 2021, 143, 5269-5276.	13.7	20
7	Understanding the Mechanochemistry of Ladder-Type Cyclobutane Mechanophores by Single Molecule Force Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 12328-12334.	13.7	26
8	Toughening hydrogels through force-triggered chemical reactions that lengthen polymer strands. <i>Science</i> , 2021, 374, 193-196.	12.6	124
9	A Latent Mechanoacid for Time-Stamped Mechanochromism and Chemical Signaling in Polymeric Materials. <i>Journal of the American Chemical Society</i> , 2020, 142, 99-103.	13.7	110
10	Enhanced polymer mechanical degradation through mechanochemically unveiled lactonization. <i>Nature Communications</i> , 2020, 11, 4987.	12.8	48
11	Mechanically Gated Degradable Polymers. <i>Journal of the American Chemical Society</i> , 2020, 142, 2105-2109.	13.7	85
12	Mechanochemical Ring-Opening of Allylic Epoxides. <i>Macromolecules</i> , 2019, 52, 6234-6240.	4.8	14
13	Substituent Effects and Mechanism in a Mechanochemical Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 12746-12750.	13.7	88
14	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
15	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
16	Mechanical gating of a mechanochemical reaction cascade. <i>Nature Communications</i> , 2016, 7, 13433.	12.8	107
17	Inducing and quantifying forbidden reactivity with single-molecule polymer mechanochemistry. <i>Nature Chemistry</i> , 2015, 7, 323-327.	13.6	182
18	Force-Rate Characterization of Two Spiropyran-Based Molecular Force Probes. <i>Journal of the American Chemical Society</i> , 2015, 137, 6148-6151.	13.7	183

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19	Accelerating a Mechanically Driven <i>anti</i> -Woodwardâ€“Hoffmann Ring Opening with a Polymer Lever Arm Effect. <i>Journal of Organic Chemistry</i> , 2015, 80, 11895-11898.	3.2	43
20	Catch and Release: Orbital Symmetry Guided Reaction Dynamics from a Freed â€œTension Trapped Transition Stateâ€•. <i>Journal of Organic Chemistry</i> , 2015, 80, 11773-11778.	3.2	14
21	Mechanistic Insights into the Sonochemical Activation of Multimechanophore Cyclopropanated Polybutadiene Polymers. <i>Macromolecules</i> , 2015, 48, 6396-6403.	4.8	61
22	Reactivity and Mechanism of a Mechanically Activated <i>anti</i> -Woodwardâ€“Hoffmannâ€“DePuy Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 11554-11557.	13.7	56
23	A backbone lever-arm effect enhances polymer mechanochemistry. <i>Nature Chemistry</i> , 2013, 5, 110-114.	13.6	179