PrzemysÅ‚aw Dopieralski

List of Publications by Year
in descending order

22 papers	381 citations	933447 10 h-index	752698 20 g-index
23 all docs	23 docs citations	23 times ranked	456 citing authors

#	Article	IF	Citations
1	The Janus-faced role of external forces in mechanochemical disulfide bond cleavage. Nature Chemistry, 2013, 5, 685-691.	13.6	82
2	Unexpected mechanochemical complexity in the mechanistic scenarios of disulfide bond reduction in alkaline solution. Nature Chemistry, 2017, 9, 164-170.	13.6	60
3	On the role of polymer chains in transducing external mechanical forces to benzocyclobutene mechanophores. Journal of Materials Chemistry, 2011, 21, 8309.	6.7	55
4	Forceâ€Transformed Freeâ€Energy Surfaces and Trajectoryâ€Shooting Simulations Reveal the Mechanoâ€Stereochemistry of Cyclopropane Ringâ€Opening Reactions. Angewandte Chemie - International Edition, 2011, 50, 7105-7108.	13.8	44
5	On the Intramolecular Hydrogen Bond in Solution: Carâ€“Parrinello and Path Integral Molecular Dynamics Perspective. Journal of Chemical Theory and Computation, 2011, 7, 3505-3513.	5.3	32
6	Unclicking the Click: Metalâ€Assisted Mechanochemical Cycloreversion of Triazoles Is Possible. Angewandte Chemie - International Edition, 2017, 56, 7745-7749.	13.8	21
7	Forceâ€Induced Reversal of Î²â€Eliminations: Stressed Disulfide Bonds in Alkaline Solution. Angewandte Chemie - International Edition, 2016, 55, 1304-1308.	13.8	16
8	The Effect of Tensile Stress on the Conformational Free Energy Landscape of Disulfide Bonds. PLoS ONE, 2014, 9, e108812.	2.5	14
9	Theoretical study on the polarizability and hyperpolarizability of hydrogen bonded complexes of nitropyridines with hydrogen fluoride. Computational and Theoretical Chemistry, 2009, 916, 72-75.	1.5	12
10	Dynamical Nonplanarity of Benzene. Evidences from the Carâ€“Parrinello Molecular Dynamics Study. Journal of Physical Chemistry Letters, 2011, 2, 2881-2884.	4.6	12
11	Rotation around the glycosidic bond as driving force of proton transfer in protonated 2â€²-deoxyriboadenosine monophosphate (dAMP). Chemical Physics Letters, 2010, 490, 221-225.	2.6	6
12	Entropy versus aromaticity in the conformational dynamics of aromatic rings. Journal of Molecular Modeling, 2013, 19, 4073-4077.	1.8	5
13	Forceâ€Induced Reversal of Î²â€Eliminations: Stressed Disulfide Bonds in Alkaline Solution. Angewandte Chemie, 2016, 128, 1326-1330.	2.0	3
14	Ab initio molecular dynamics study of overtone excitations in formic acid and its water complex. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	3
15	Mechanochemical disulfide reduction reveals imprints of noncovalent sulfurâ‹¯oxygen chalcogen bonds in protein-inspired mimics in aqueous solution. Physical Chemistry Chemical Physics, 2020, 22, 25112-25117.	2.8	3
16	Unclicking the Click: Metalâ€Assisted Mechanochemical Cycloreversion of Triazoles Is Possible. Angewandte Chemie, 2017, 129, 7853-7857.	2.0	2
17	About the Aromaticity of symm-Triaminotrinitrobenzene. Journal of Physical Chemistry A, 2019, 123, 2244-2251.	2.5	2
18	The influence of structure on the methyl group dynamics of polymorphic complexes: 6,6â€²-dimethyl-2,2â€²-dipyridyl with halo derivatives of benzoquinone acids. CrystEngComm, 2020, 22, 6811-6821.	2.6	2

#	ARTICLE	IF	CITATIONS
19	Quantum delocalization of benzene in the ring puckering coordinates. International Journal of Quantum Chemistry, 2014, 114, 534-542.	2.0	1
20	Impact of Deuteration and Temperature on Furan Ring Dynamics. Molecules, 2021, 26, 2889.	3.8	0
21	Temperature driven interchange of the effective size of proton with deuterium. Chemical Physics Letters, 2021, 778, 138775.	2.6	0
22	Computational Mechanochemistry. , 2016, , 233-243.		0