

Timothy J Kucharski

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

1,186
citations

933447

10
h-index

1125743

13
g-index

14
all docs

14
docs citations

14
times ranked

1100
citing authors

#	ARTICLE	IF	CITATIONS
1	Templated assembly of photoswitches significantly increases the energy-storage capacity of solar thermal fuels. <i>Nature Chemistry</i> , 2014, 6, 441-447.	13.6	261
2	Chemical solutions for the closed-cycle storage of solar energy. <i>Energy and Environmental Science</i> , 2011, 4, 4449.	30.8	242
3	A molecular force probe. <i>Nature Nanotechnology</i> , 2009, 4, 302-306.	31.5	168
4	The physical chemistry of mechanoresponsive polymers. <i>Journal of Materials Chemistry</i> , 2011, 21, 8237.	6.7	109
5	Experimentally realized mechanochemistry distinct from force-accelerated scission of loaded bonds. <i>Science</i> , 2017, 357, 299-303.	12.6	93
6	Method to Derive Restoring Forces of Strained Molecules from Kinetic Measurements. <i>Journal of the American Chemical Society</i> , 2009, 131, 1407-1409.	13.7	86
7	Kinetics of Thiol/Disulfide Exchange Correlate Weakly with the Restoring Force in the Disulfide Moiety. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7040-7043.	13.8	80
8	Model studies of force-dependent kinetics of multi-barrier reactions. <i>Nature Communications</i> , 2013, 4, 2538.	12.8	55
9	Strain-Dependent Acceleration of a Paradigmatic S_N2 Reaction Accurately Predicted by the Force Formalism. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2820-2825.	4.6	40
10	Localized corrosion of low-carbon steel at the nanoscale. <i>Npj Materials Degradation</i> , 2019, 3, .	5.8	31
11	Macrocyclic Disulfides for Studies of Sensitized Photolysis of the $S-S$ Bond. <i>Chemistry - A European Journal</i> , 2009, 15, 5212-5214.	3.3	10
12	Fundamentals of Molecular Photoactuation. , 2012, , 83-106.		6
13	Pyrazine-N,N'-dioxide/tetracyanoethylene electron donor-acceptor bonding and the effect of donor steric demand and symmetry on the cocrystal assembly. <i>Tetrahedron Letters</i> , 2006, 47, 4569-4572.	1.4	4
14	Steel Corrosion Mechanisms during Pipeline Operation: In Situ Characterization. <i>Microscopy and Microanalysis</i> , 2016, 22, 1564-1565.	0.4	1