

Krupa Ramasesha

List of Publications by Year in descending order

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21
papers

1,692
citations

623734

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713466

21
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docs citations

22
times ranked

2234
citing authors

#	ARTICLE	IF	CITATIONS
1	Dramatic Conformer-Dependent Reactivity of the Acetaldehyde Oxide Criegee Intermediate with Dimethylamine <i>via</i> a 1,2-Insertion Mechanism. <i>Journal of Physical Chemistry A</i> , 2022, 126, 710-719.	2.5	4
2	Ultrafast infrared transient absorption spectroscopy of gas-phase Ni(CO) ₄ photodissociation at 261 nm. <i>Journal of Chemical Physics</i> , 2022, 156, 144306.	3.0	4
3	Ultraviolet photodissociation of gas-phase iron pentacarbonyl probed with ultrafast infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 154, 134308.	3.0	15
4	Mode-Selective Vibrational Energy Transfer Dynamics in 1,3,5-Trinitroperhydro-1,3,5-triazine (RDX) Thin Films. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7788-7802.	2.5	4
5	A New Pathway for Intersystem Crossing: Unexpected Products in the O(³ P) + Cyclopentene Reaction. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9785-9801.	2.5	7
6	Sub-picosecond to Sub-nanosecond Vibrational Energy Transfer Dynamics in Pentaerythritol Tetranitrate. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6664-6669.	4.6	11
7	Ultrafast spectroscopic studies of vibrational energy transfer in energetic materials. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	7
8	Experimental and computational studies of Criegee intermediate reactions with NH ₃ and CH ₃ NH ₂ . <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14042-14052.	2.8	46
9	Ultrafast 2D IR spectroscopy of the excess proton in liquid water. <i>Science</i> , 2015, 350, 78-82.	12.6	264
10	Collective vibrations of water-solvated hydroxide ions investigated with broadband 2DIR spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 204508.	3.0	53
11	Attosecond band-gap dynamics in silicon. <i>Science</i> , 2014, 346, 1348-1352.	12.6	415
12	Water vibrations have strongly mixed intra- and intermolecular character. <i>Nature Chemistry</i> , 2013, 5, 935-940.	13.6	236
13	Experimental Evidence of Fermi Resonances in Isotopically Dilute Water from Ultrafast Broadband IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15319-15327.	2.6	66
14	A phenomenological approach to modeling chemical dynamics in nonlinear and two-dimensional spectroscopy. <i>Journal of Chemical Physics</i> , 2012, 136, 134507.	3.0	5
15	Proton Transfer in Concentrated Aqueous Hydroxide Visualized Using Ultrafast Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3957-3972.	2.5	45
16	A fast-scanning Fourier transform 2D IR interferometer. <i>Optics Communications</i> , 2011, 284, 1062-1066.	2.1	21
17	Ultrafast 2D IR anisotropy of water reveals reorientation during hydrogen-bond switching. <i>Journal of Chemical Physics</i> , 2011, 135, 054509.	3.0	72
18	Hydrogen Bond Rearrangements in Water Probed with Temperature-Dependent 2D IR. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1068-1072.	4.6	89

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19	Observation of a Zundel-like transition state during proton transfer in aqueous hydroxide solutions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15154-15159.	7.1	111
20	Structural Rearrangements in Water Viewed Through Two-Dimensional Infrared Spectroscopy. Accounts of Chemical Research, 2009, 42, 1239-1249.	15.6	177
21	Ultrafast N-H Vibrational Dynamics of Cyclic Doubly Hydrogen-Bonded Homo- and Heterodimers. Journal of Physical Chemistry B, 2008, 112, 13167-13171.	2.6	36