

David J Hoffman

List of Publications by Year in descending order

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12
papers

116
citations

1307594

7
h-index

1281871

11
g-index

12
all docs

12
docs citations

12
times ranked

97
citing authors

#	ARTICLE	IF	CITATIONS
1	Free Volume Element Sizes and Dynamics in Polystyrene and Poly(methyl methacrylate) Measured with Ultrafast Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 3583-3594.	13.7	20
2	CLS Next Gen: Accurate Frequency–Frequency Correlation Functions from Center Line Slope Analysis of 2D Correlation Spectra Using Artificial Neural Networks. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5979-5992.	2.5	18
3	Amorphous polymer dynamics and free volume element size distributions from ultrafast IR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13949-13958.	7.1	18
4	Direct observation of dynamic crossover in fragile molecular glass formers with 2D IR vibrational echo spectroscopy. <i>Journal of Chemical Physics</i> , 2017, 146, 124505.	3.0	15
5	Quasi-rotating frame: accurate line shape determination with increased efficiency in noncollinear 2D optical spectroscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 1143.	2.1	11
6	Critical Slowing of Density Fluctuations Approaching the Isotropic–Nematic Transition in Liquid Crystals: 2D IR Measurements and Mode Coupling Theory. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7003-7015.	2.6	10
7	Long Vibrational Lifetime R-Selenocyanate Probes for Ultrafast Infrared Spectroscopy: Properties and Synthesis. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8907-8918.	2.6	7
8	Fast dynamics of a hydrogen-bonding glass forming liquid: Chemical exchange-induced spectral diffusion in 2D IR spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 150, 124507.	3.0	6
9	Pulse-shaped chopping: Eliminating and characterizing heat effects in ultrafast infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 204201.	3.0	6
10	Discontinuity in Fast Dynamics at the Glass Transition of <i>ortho</i> -Terphenyl. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10417-10428.	2.6	3
11	Reorientation-induced Stokes shifts caused by directional interactions in electronic spectroscopy: Fast dynamics of poly(methyl methacrylate). <i>Journal of Chemical Physics</i> , 2019, 150, 194201.	3.0	2
12	Distinguishing steric and electrostatic molecular probe orientational ordering via their effects on reorientation-induced spectral diffusion. <i>Journal of Chemical Physics</i> , 2021, 154, 244104.	3.0	0