Jeffrey A Cina

List of Publications by Year
in descending order

46	1,516	393982	301761
papers	citations	19 h-index	39 g-index

46	46	46	926
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorescenceâ€detected wave packet interferometry: Time resolved molecular spectroscopy with sequences of femtosecond phaseâ€locked pulses. Journal of Chemical Physics, 1991, 95, 1487-1511.	1.2	539
2	Theoretical Study of Time-Resolved Fluorescence Anisotropy from Coupled Chromophore Pairs. The Journal of Physical Chemistry, 1995, 99, 2568-2582.	2.9	81
3	On the preparation and measurement of superpositions of chiral amplitudes. Journal of Chemical Physics, 1994, 100, 2531-2536.	1.2	73
4	What can short-pulse pump-probe spectroscopy tell us about Franck-Condon dynamics?. Journal of Chemical Physics, 1999, 110, 9793-9806.	1.2	54
5	Wave-Packet Interferometry and Molecular State Reconstruction: Spectroscopic Adventures on the Left-Hand Side of the SchrÃ¶dinger Equation. Annual Review of Physical Chemistry, 2008, 59, 319-342.	4.8	51
6	Vibrational Coherence Transfer and Trapping as Sources for Long-Lived Quantum Beats in Polarized Emission from Energy Transfer Complexes. Journal of Physical Chemistry A, 2004, 108, 11196-11208.	1.1	50
7	Ultrafast transient absorption revisited: Phase-flips, spectral fingers, and other dynamical features. Journal of Chemical Physics, 2016, 144, 175102.	1.2	49
8	Broad-Band Pumpâ€“Probe Spectroscopy Quantifies Ultrafast Solvation Dynamics of Proteins and Molecules. Journal of Physical Chemistry Letters, 2016, 7, 4722-4731.	2.1	49
9	Thomasâ€“Fermi theory in a weak, slowly varying vector potential. Journal of Chemical Physics, 1983, 79, 1381-1383.	1.2	47
10	Can chirp enhance cumulative preâ€resonant impulsive stimulated Raman excitation?. Journal of Chemical Physics, 1996, 105, 3419-3430.	1.2	41
11	Nonlinear wavepacket interferometry for polyatomic molecules. Journal of Chemical Physics, 2000, 113, 9488-9496.	1.2	41
12	Wave packet interferometry for short-time electronic energy transfer: Multidimensional optical spectroscopy in the time domain. Journal of Chemical Physics, 2003, 118, 46-61.	1.2	32
13	Short-Time Fluorescence Stokes Shift Dynamics. Advances in Chemical Physics, 2007, , 171-228.	0.3	28
14	Nonlinear Wave-Packet Interferometry and Molecular State Reconstruction in a Vibrating and Rotating Diatomic Moleculeâ€. Journal of Physical Chemistry B, 2006, 110, 18879-18892.	1.2	25
15	Time development of geometric phases in the Longuetâ€Higgins model. Journal of Chemical Physics, 1989, 91, 6103-6112.	1.2	23
16	Classical adiabatic angle and geometrical phase in spin precession. Chemical Physics Letters, 1986, 132, 393-395.	1.2	22
17	Polaron formation in the acoustic chain. Journal of Chemical Physics, 1987, 87, 6700-6705.	1.2	22
18	How Fissors Works: Observing Vibrationally Adiabatic Conformational Change through Femtosecond Stimulated Raman Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 6084-6095.	1.1	21

#	Article	IF	Citations
19	On the measurement of superpositions of chiral amplitudes by polarized light scattering. Journal of Chemical Physics, 1994, 101, 3459-3463.	1.2	20
20	Using wave-packet interferometry to monitor the external vibrational control of electronic excitation transfer. Journal of Chemical Physics, 2009, 131, 224101.	1.2	19
21	The Relaxation Dynamics and Short-Time Optical Response of a Multimode Open System. Journal of Physical Chemistry A, 1998, 102, 7382-7392.	1.1	18
22	Optical impulsive excitation of molecular pseudorotation in Jahnâ€“Teller systems. Journal of Chemical Physics, 1990, 93, 3844-3849.	1.2	17
23	Phase-controlled optical pulses and the adiabatic electronic sign change. Physical Review Letters, 1991, 66, 1146-1149.	2.9	15
24	Calculations of nonlinear wave-packet interferometry signals in the pump-probe limit as tests for vibrational control over electronic excitation transfer. Journal of Chemical Physics, 2009, 131, 224302.	1.2	15
25	Time-Resolved Optical Tests for Electronic Geometric Phase Development. Advances in Chemical Physics, 2007, , 1-42.	0.3	14
26	Studies of Impulsive Vibrational Influence on Ultrafast Electronic Excitation Transfer. Journal of Physical Chemistry A, 2012, 116, 1683-1693.	1.1	14
27	An electron gas treatment of the potential curve and polarizability tensor of the lowest 3Î£+u state of H2. Journal of Chemical Physics, 1984, 80, 329-333.	1.2	13
28	Probing intermolecular communication via lattice phonons with time-resolved coherent anti-Stokes Raman scatteringâ€. Molecular Physics, 2006, 104, 1161-1178.	0.8	13
29	Semiclassical treatments for small-molecule dynamics in low-temperature crystals using fixed and adiabatic vibrational bases. Journal of Chemical Physics, 2007, 127, 114502.	1.2	13
30	Mixed quantum/semiclassical wave-packet dynamical method for condensed-phase molecular spectroscopy signals. Journal of Chemical Physics, 2017, 147, 224112.	1.2	11
31	Quantum dynamics and spectroscopy of dihalogens in solid matrices. I. Efficient simulation of the photodynamics of the embedded I2Kr18 cluster using the G-MCTDH method. Journal of Chemical Physics, 2019, 150, 064111.	1.2	11
32	Aspects of impulsive stimulated scattering in molecular systems. Physical Review A, 1994, 50, 763-778.	1.0	10
33	Quantum dynamics and spectroscopy of dihalogens in solid matrices. II. Theoretical aspects and G-MCTDH simulations of time-resolved coherent Raman spectra of SchrÃ¶dinger cat states of the embedded I2Kr18 cluster. Journal of Chemical Physics, 2019, 150, 064112.	1.2	10
34	A simple electron gas treatment of the magnetic susceptibility tensor of the lowest 3Î£+u state of H2. Journal of Chemical Physics, 1985, 82, 5018-5022.	1.2	9
35	Variational mixed quantum/semiclassical simulation of dihalogen guest and rare-gas solid host dynamics. Journal of Chemical Physics, 2014, 141, 034113.	1.2	9
36	Numerical Tests of a Fixed Vibrational Basis/Gaussian Bath Theory for Small Molecule Dynamics in Low-Temperature Media. Journal of Physical Chemistry A, 2011, 115, 3980-3989.	1.1	8

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37	Electric-field optical activity, Rayleigh optical activity and the measurement of superpositions of chiral amplitudes. Faraday Discussions, 1994, 99, 369.	1.6	6
38	Monitoring the evolution of intersite and interexciton coherence in electronic excitation transfer via wave-packet interferometry. Journal of Chemical Physics, 2020, 152, 244311.	1.2	6
39	Short time semiclassical dynamics of optical processes in condensed phases. Journal of Luminescence, 1994, 58, 89-94.	1.5	5
40	Molecular excitations and the quantum adiabatic phase for a nuclear spin. Molecular Physics, 1989, 67, 271-279.	0.8	3
41	Impulsive excitation of pseudo-rotation for geometric phase detection. Journal of Raman Spectroscopy, 2000, 31, 95-97.	1.2	3
42	Nuclear Wave-Packet Dynamics in Two-Dimensional Interferograms of Excitation-Transfer Systems. Springer Series in Optical Sciences, 2019, , 51-85.	0.5	3
43	Molecular Wavepacket Decomposition by Nonlinear Interferometry. Bulletin of the Chemical Society of Japan, 2002, 75, 1135-1136.	2.0	2
44	Optical Hartmannâ€“Hahn resonance and the spatial correlation of inhomogeneous broadening in molecular solids. Journal of Chemical Physics, 1986, 85, 2450-2457.	1.2	1
45	Bob, so far. A scientific biography of Robert A. Harris. Molecular Physics, 2006, 104, 1145-1159.	0.8	0
46	Exploring a spectral filtering approach to electronic structure calculations. Molecular Physics, 2021, 119, e1827178.	0.8	0