

Jeffrey A Cina

List of Publications by Year in descending order

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46
papers

1,516
citations

393982

19
h-index

301761

39
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46
all docs

46
docs citations

46
times ranked

926
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring a spectral filtering approach to electronic structure calculations. <i>Molecular Physics</i> , 2021, 119, e1827178.	0.8	0
2	Monitoring the evolution of intersite and interexciton coherence in electronic excitation transfer via wave-packet interferometry. <i>Journal of Chemical Physics</i> , 2020, 152, 244311.	1.2	6
3	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. <i>Journal of Chemical Physics</i> , 2019, 150, 064111.	1.2	11
4	Quantum dynamics and spectroscopy of dihalogens in solid matrices. II. Theoretical aspects and G-MCTDH simulations of time-resolved coherent Raman spectra of Schrödinger cat states of the embedded I2Kr18 cluster. <i>Journal of Chemical Physics</i> , 2019, 150, 064112.	1.2	10
5	Nuclear Wave-Packet Dynamics in Two-Dimensional Interferograms of Excitation-Transfer Systems. <i>Springer Series in Optical Sciences</i> , 2019, , 51-85.	0.5	3
6	Mixed quantum/semiclassical wave-packet dynamical method for condensed-phase molecular spectroscopy signals. <i>Journal of Chemical Physics</i> , 2017, 147, 224112.	1.2	11
7	Ultrafast transient absorption revisited: Phase-flips, spectral fingers, and other dynamical features. <i>Journal of Chemical Physics</i> , 2016, 144, 175102.	1.2	49
8	Broad-Band Pump-Probe Spectroscopy Quantifies Ultrafast Solvation Dynamics of Proteins and Molecules. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4722-4731.	2.1	49
9	Variational mixed quantum/semiclassical simulation of dihalogen guest and rare-gas solid host dynamics. <i>Journal of Chemical Physics</i> , 2014, 141, 034113.	1.2	9
10	How Fissors Works: Observing Vibrationally Adiabatic Conformational Change through Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6084-6095.	1.1	21
11	Studies of Impulsive Vibrational Influence on Ultrafast Electronic Excitation Transfer. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1683-1693.	1.1	14
12	Numerical Tests of a Fixed Vibrational Basis/Gaussian Bath Theory for Small Molecule Dynamics in Low-Temperature Media. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3980-3989.	1.1	8
13	Using wave-packet interferometry to monitor the external vibrational control of electronic excitation transfer. <i>Journal of Chemical Physics</i> , 2009, 131, 224101.	1.2	19
14	Calculations of nonlinear wave-packet interferometry signals in the pump-probe limit as tests for vibrational control over electronic excitation transfer. <i>Journal of Chemical Physics</i> , 2009, 131, 224302.	1.2	15
15	Wave-Packet Interferometry and Molecular State Reconstruction: Spectroscopic Adventures on the Left-Hand Side of the Schrödinger Equation. <i>Annual Review of Physical Chemistry</i> , 2008, 59, 319-342.	4.8	51
16	Semiclassical treatments for small-molecule dynamics in low-temperature crystals using fixed and adiabatic vibrational bases. <i>Journal of Chemical Physics</i> , 2007, 127, 114502.	1.2	13
17	Short-Time Fluorescence Stokes Shift Dynamics. <i>Advances in Chemical Physics</i> , 2007, , 171-228.	0.3	28
18	Time-Resolved Optical Tests for Electronic Geometric Phase Development. <i>Advances in Chemical Physics</i> , 2007, , 1-42.	0.3	14

#	ARTICLE	IF	CITATIONS
19	Nonlinear Wave-Packet Interferometry and Molecular State Reconstruction in a Vibrating and Rotating Diatomic Molecule. Journal of Physical Chemistry B, 2006, 110, 18879-18892.	1.2	25
20	Probing intermolecular communication via lattice phonons with time-resolved coherent anti-Stokes Raman scattering. Molecular Physics, 2006, 104, 1161-1178.	0.8	13
21	Bob, so far. A scientific biography of Robert A. Harris. Molecular Physics, 2006, 104, 1145-1159.	0.8	0
22	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
23	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
24	Molecular Wavepacket Decomposition by Nonlinear Interferometry. Bulletin of the Chemical Society of Japan, 2002, 75, 1135-1136.	2.0	2
25	Impulsive excitation of pseudo-rotation for geometric phase detection. Journal of Raman Spectroscopy, 2000, 31, 95-97.	1.2	3
26	Nonlinear wavepacket interferometry for polyatomic molecules. Journal of Chemical Physics, 2000, 113, 9488-9496.	1.2	41
27	What can short-pulse pump-probe spectroscopy tell us about Franck-Condon dynamics?. Journal of Chemical Physics, 1999, 110, 9793-9806.	1.2	54
28	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
29	Can chirp enhance cumulative pre-resonant impulsive stimulated Raman excitation?. Journal of Chemical Physics, 1996, 105, 3419-3430.	1.2	41
30	Theoretical Study of Time-Resolved Fluorescence Anisotropy from Coupled Chromophore Pairs. The Journal of Physical Chemistry, 1995, 99, 2568-2582.	2.9	81
31	On the measurement of superpositions of chiral amplitudes by polarized light scattering. Journal of Chemical Physics, 1994, 101, 3459-3463.	1.2	20
32	Aspects of impulsive stimulated scattering in molecular systems. Physical Review A, 1994, 50, 763-778.	1.0	10
33	Short time semiclassical dynamics of optical processes in condensed phases. Journal of Luminescence, 1994, 58, 89-94.	1.5	5
34	Electric-field optical activity, Rayleigh optical activity and the measurement of superpositions of chiral amplitudes. Faraday Discussions, 1994, 99, 369.	1.6	6
35	On the preparation and measurement of superpositions of chiral amplitudes. Journal of Chemical Physics, 1994, 100, 2531-2536.	1.2	73
36	Fluorescence-detected wave packet interferometry: Time resolved molecular spectroscopy with sequences of femtosecond phase-locked pulses. Journal of Chemical Physics, 1991, 95, 1487-1511.	1.2	539

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37	Phase-controlled optical pulses and the adiabatic electronic sign change. Physical Review Letters, 1991, 66, 1146-1149.	2.9	15
38	Optical impulsive excitation of molecular pseudorotation in Jahnâ€Teller systems. Journal of Chemical Physics, 1990, 93, 3844-3849.	1.2	17
39	Time development of geometric phases in the Longuetâ€Higgins model. Journal of Chemical Physics, 1989, 91, 6103-6112.	1.2	23
40	Molecular excitations and the quantum adiabatic phase for a nuclear spin. Molecular Physics, 1989, 67, 271-279.	0.8	3
41	Polaron formation in the acoustic chain. Journal of Chemical Physics, 1987, 87, 6700-6705.	1.2	22
42	Classical adiabatic angle and geometrical phase in spin precession. Chemical Physics Letters, 1986, 132, 393-395.	1.2	22
43	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
44	A simple electron gas treatment of the magnetic susceptibility tensor of the lowest $3\hat{\Sigma}^+u$ state of H ₂ . Journal of Chemical Physics, 1985, 82, 5018-5022.	1.2	9
45	An electron gas treatment of the potential curve and polarizability tensor of the lowest $3\hat{\Sigma}^+u$ state of H ₂ . Journal of Chemical Physics, 1984, 80, 329-333.	1.2	13
46	Thomasâ€Fermi theory in a weak, slowly varying vector potential. Journal of Chemical Physics, 1983, 79, 1381-1383.	1.2	47