

# Shaul Mukamel

## List of Publications by Year in descending order

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741  
papers

35,730  
citations

2671

95  
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7511

151  
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744  
all docs

744  
docs citations

744  
times ranked

13316  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonequilibrium fluctuations, fluctuation theorems, and counting statistics in quantum systems. <i>Reviews of Modern Physics</i> , 2009, 81, 1665-1702.	16.4	1,067
2	MULTIDIMENSIONAL FEMTOSECOND CORRELATION SPECTROSCOPIES OF ELECTRONIC AND VIBRATIONAL EXCITATIONS. <i>Annual Review of Physical Chemistry</i> , 2000, 51, 691-729.	4.8	796
3	Two-dimensional femtosecond vibrational spectroscopy of liquids. <i>Journal of Chemical Physics</i> , 1993, 99, 9496-9511.	1.2	559
4	Density Matrix Analysis and Simulation of Electronic Excitations in Conjugated and Aggregated Molecules. <i>Chemical Reviews</i> , 2002, 102, 3171-3212.	23.0	519
5	Using coherence to enhance function in chemical and biophysical systems. <i>Nature</i> , 2017, 543, 647-656.	13.7	477
6	Coherent Multidimensional Optical Spectroscopy of Excitons in Molecular Aggregates; Quasiparticle versus Supermolecule Perspectives. <i>Chemical Reviews</i> , 2009, 109, 2350-2408.	23.0	446
7	Exciton-migration and three-pulse femtosecond optical spectroscopies of photosynthetic antenna complexes. <i>Journal of Chemical Physics</i> , 1998, 108, 7763-7774.	1.2	380
8	Electronic Coherence and Collective Optical Excitations of Conjugated Molecules. <i>Science</i> , 1997, 277, 781-787.	6.0	345
9	Experimental Determination of the Quantum-Mechanical State of a Molecular Vibrational Mode Using Fluorescence Tomography. <i>Physical Review Letters</i> , 1995, 74, 884-887.	2.9	294
10	Nonlinear susceptibilities of molecular aggregates: Enhancement of $\chi^{(3)}$ by size. <i>Physical Review A</i> , 1989, 40, 5783-5801.	1.0	270
11	Superradiance in molecular aggregates. <i>Journal of Chemical Physics</i> , 1989, 91, 683-700.	1.2	260
12	Femtosecond Optical Spectroscopy: A Direct Look at Elementary Chemical Events. <i>Annual Review of Physical Chemistry</i> , 1990, 41, 647-681.	4.8	257
13	Many-Body Approaches for Simulating Coherent Nonlinear Spectroscopies of Electronic and Vibrational Excitons. <i>Chemical Reviews</i> , 2004, 104, 2073-2098.	23.0	256
14	Dielectric friction and the transition from adiabatic to nonadiabatic electron transfer. I. Solvation dynamics in Liouville space. <i>Journal of Chemical Physics</i> , 1988, 88, 3263-3280.	1.2	250
15	Collisionless Multiphoton Dissociation of SF <sub>6</sub> : A Statistical Thermodynamic Process. <i>Physical Review Letters</i> , 1977, 38, 1131-1134.	2.9	249
16	Off-resonant transient birefringence in liquids. <i>Journal of Chemical Physics</i> , 1993, 99, 2410-2428.	1.2	248
17	Roadmap of ultrafast x-ray atomic and molecular physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 032003.	0.6	240
18	Photosynthetic reaction center as a quantum heat engine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2746-2751.	3.3	234

#	ARTICLE	IF	CITATIONS
19	Nonlinear optical signals and spectroscopy with quantum light. <i>Reviews of Modern Physics</i> , 2016, 88, .	16.4	234
20	Quantum Extension of the Jarzynski Relation: Analogy with Stochastic Dephasing. <i>Physical Review Letters</i> , 2003, 90, 170604.	2.9	233
21	Femtosecond pump-probe spectroscopy of polyatomic molecules in condensed phases. <i>Physical Review A</i> , 1990, 41, 6485-6504.	1.0	224
22	Energy gap law for vibrational relaxation of a molecule in a dense medium. <i>Journal of Chemical Physics</i> , 1975, 63, 200-207.	1.2	221
23	Nonlinear optics of semiconductor and molecular nanostructures; a common perspective. <i>Reviews of Modern Physics</i> , 1998, 70, 145-174.	16.4	221
24	Some features of vibrational relaxation of a diatomic molecule in a dense medium. <i>Journal of Chemical Physics</i> , 1974, 60, 3929-3934.	1.2	219
25	Stilbenoid Dimers: Dissection of a Paracyclophane Chromophore. <i>Journal of the American Chemical Society</i> , 1998, 120, 9188-9204.	6.6	214
26	Through-Space Charge Transfer and Nonlinear Optical Properties of Substituted Paracyclophane. <i>Journal of the American Chemical Society</i> , 2000, 122, 11956-11962.	6.6	207
27	Direct evidence of quantum transport in photosynthetic light-harvesting complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20908-20912.	3.3	203
28	Two-Dimensional Raman Spectroscopy of Vibrational Interactions in Liquids. <i>Physical Review Letters</i> , 1997, 79, 2702-2705.	2.9	200
29	Localized Electronic Excitations in Phenylacetylene Dendrimers. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3310-3315.	1.2	198
30	Time-resolved fluorescence and hole-burning line shapes of solvated molecules: Longitudinal dielectric relaxation and vibrational dynamics. <i>Journal of Chemical Physics</i> , 1987, 87, 5840-5857.	1.2	191
31	Optical control of molecular dynamics: Molecular cannons, reflectrons, and wavepacket focusers. <i>Journal of Chemical Physics</i> , 1993, 99, 6562-6578.	1.2	190
32	Polarons, localization, and excitonic coherence in superradiance of biological antenna complexes. <i>Journal of Chemical Physics</i> , 1997, 107, 3876-3893.	1.2	190
33	Multiple Exciton Coherence Sizes in Photosynthetic Antenna Complexes viewed by Pump-Probe Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7332-7342.	1.2	188
34	Density-matrix representation of nonadiabatic couplings in time-dependent density functional (TDDFT) theories. <i>Journal of Chemical Physics</i> , 2000, 112, 3572-3579.	1.2	183
35	Temperature-dependent superradiant decay of excitons in small aggregates. <i>Physical Review Letters</i> , 1990, 65, 211-214.	2.9	182
36	Electronic dephasing, vibrational relaxation, and solvent friction in molecular nonlinear optical line shapes. <i>Journal of Chemical Physics</i> , 1988, 89, 5160-5176.	1.2	180

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37	Electrostatic DFT Map for the Complete Vibrational Amide Band of NMA. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9747-9759.	1.1	180
38	Selectivity in coherent transient Raman measurements of vibrational dephasing in liquids. <i>Journal of Chemical Physics</i> , 1985, 83, 2116-2128.	1.2	177
39	Eigenstate-free, Green function, calculation of molecular absorption and fluorescence line shapes. <i>Journal of Chemical Physics</i> , 1986, 85, 5908-5923.	1.2	171
40	Multidimensional Attosecond Resonant X-Ray Spectroscopy of Molecules: Lessons from the Optical Regime. <i>Annual Review of Physical Chemistry</i> , 2013, 64, 101-127.	4.8	170
41	Vibrational Sum-Frequency Generation Spectroscopy at the Water/Lipid Interface: Molecular Dynamics Simulation Study. <i>Journal of the American Chemical Society</i> , 2010, 132, 6434-6442.	6.6	167
42	Optical multidimensional coherent spectroscopy. <i>Physics Today</i> , 2013, 66, 44-49.	0.3	167
43	Simulation of the intermolecular vibrational spectra of liquid water and water clusters. <i>Journal of Chemical Physics</i> , 1993, 98, 4413-4421.	1.2	165
44	Photon echoes of polyatomic molecules in condensed phases. <i>Journal of Chemical Physics</i> , 1991, 94, 179-190.	1.2	159
45	Cavity Femtochemistry: Manipulating Nonadiabatic Dynamics at Avoided Crossings. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2050-2054.	2.1	158
46	Multidimensional femtosecond correlation spectroscopies of electronic and vibrational excitons. <i>Journal of Chemical Physics</i> , 1999, 110, 5011-5028.	1.2	155
47	Vibrational relaxation in jet-cooled alkyl benzenes. II. Fluorescence spectra. <i>Journal of Chemical Physics</i> , 1980, 72, 5049-5061.	1.2	154
48	Coherent Multidimensional Vibrational Spectroscopy of Biomolecules: Concepts, Simulations, and Challenges. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3750-3781.	7.2	152
49	Multiphoton molecular dissociation in intense laser fields. <i>Journal of Chemical Physics</i> , 1976, 65, 5204-5225.	1.2	149
50	Efficient Fluoride-Selective Fluorescent Host: A Experiment and Theory. <i>Journal of Organic Chemistry</i> , 2004, 69, 943-950.	1.7	146
51	Collisional broadening of spectral line shapes in two-photon and multiphoton processes. <i>Physics Reports</i> , 1982, 93, 1-60.	10.3	145
52	Photon echoes and related four-wave-mixing spectroscopies using phase-locked pulses. <i>Journal of Chemical Physics</i> , 1992, 96, 5618-5629.	1.2	145
53	Two-Dimensional Raman Echoes: A Femtosecond View of Molecular Structure and Vibrational Coherence. <i>Accounts of Chemical Research</i> , 1999, 32, 145-154.	7.6	144
54	Collective Solvent Coordinates for the Infrared Spectrum of HOD in D2O Based on an ab Initio Electrostatic Map. <i>Journal of Physical Chemistry A</i> , 2005, 109, 64-82.	1.1	142

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55	Coherent low-frequency motions of hydrogen bonded acetic acid dimers in the liquid phase. Journal of Chemical Physics, 2004, 121, 902-913.	1.2	138
56	Statistical reduction for strongly driven simple quantum systems. Physical Review A, 1978, 17, 1988-1998.	1.0	137
57	Simulation Protocols for Coherent Femtosecond Vibrational Spectra of Peptides. Journal of Physical Chemistry B, 2006, 110, 3362-3374.	1.2	135
58	Theory of vibrational overtone line shapes of polyatomic molecules. Journal of Chemical Physics, 1979, 70, 463.	1.2	132
59	Bacteriochlorophyll and Carotenoid Excitonic Couplings in the LH2 System of Purple Bacteria. Journal of Physical Chemistry B, 2000, 104, 9540-9553.	1.2	127
60	Catching Conical Intersections in the Act: Monitoring Transient Electronic Coherences by Attosecond Stimulated X-Ray Raman Signals. Physical Review Letters, 2015, 115, 193003.	2.9	127
61	Non-markovian theory of molecular relaxation. I. Vibrational relaxation and dephasing in condensed phases. Chemical Physics, 1979, 37, 33-47.	0.9	126
62	Multidimensional femtosecond spectroscopies of molecular aggregates and semiconductor nanostructures: The nonlinear exciton equations. Journal of Chemical Physics, 1998, 109, 9587-9601.	1.2	124
63	Cooperative nonlinear optical response of molecular aggregates: Crossover to bulk behavior. Physical Review Letters, 1991, 66, 1197-1200.	2.9	123
64	Two-Dimensional Real-Space Analysis of Optical Excitations in Acceptor-Substituted Carotenoids. Journal of the American Chemical Society, 1997, 119, 11408-11419.	6.6	123
65	Nonimpact unified theory of four-wave mixing and two-photon processes. Physical Review A, 1983, 28, 3480-3492.	1.0	122
66	The Brownian oscillator model for solvation effects in spontaneous light emission and their relationship to electron transfer. Journal of the American Chemical Society, 1994, 116, 11039-11047.	6.6	121
67	Non-adiabatic dynamics of molecules in optical cavities. Journal of Chemical Physics, 2016, 144, 054309.	1.2	121
68	Molecular theory of solvation and dielectric response in polar fluids. Journal of Chemical Physics, 1987, 87, 1272-1283.	1.2	120
69	Tunneling versus sequential long-range electron transfer: Analogy with pump-probe spectroscopy. Journal of Chemical Physics, 1989, 91, 6973-6988.	1.2	120
70	Intermolecular forces, spontaneous emission, and superradiance in a dielectric medium: Polariton-mediated interactions. Physical Review A, 1989, 40, 7065-7080.	1.0	119
71	Real-time path-integral approach to quantum coherence and dephasing in nonadiabatic transitions and nonlinear optical response. Physical Review E, 1993, 47, 118-136.	0.8	119
72	A model for isotope separation via molecular multiphoton photodissociation. Chemical Physics Letters, 1976, 40, 150-156.	1.2	118

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73	Oligophenylenevinylene Phane Dimers: Probing the Effect of Contact Site on the Optical Properties of Bichromophoric Pairs. <i>Journal of the American Chemical Society</i> , 2000, 122, 1289-1297.	6.6	116
74	Two-Quantum Many-Body Coherences in Two-Dimensional Fourier-Transform Spectra of Exciton Resonances in Semiconductor Quantum Wells. <i>Physical Review Letters</i> , 2010, 104, 117401.	2.9	115
75	Exciton Hamiltonian for the Bacteriochlorophyll System in the LH2 Antenna Complex of Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 2000, 104, 4519-4528.	1.2	114
76	Exciton Delocalization in the B850 Light-Harvesting Complex: Comparison of Different Measures. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5515-5524.	1.2	114
77	Collective coordinates for nuclear spectral densities in energy transfer and femtosecond spectroscopy of molecular aggregates. <i>Journal of Chemical Physics</i> , 1996, 105, 4565-4583.	1.2	113
78	The origin of vibrational mode couplings in various secondary structural motifs of polypeptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 506-510.	3.3	113
79	Two-Dimensional Electronic Double-Quantum Coherence Spectroscopy. <i>Accounts of Chemical Research</i> , 2009, 42, 1375-1384.	7.6	113
80	Raman excitation profiles of polyatomic molecules in condensed phases. A stochastic theory. <i>Journal of Chemical Physics</i> , 1986, 85, 462-474.	1.2	112
81	Three-Dimensional Nonlinear Optical Chromophores Based on Through-Space Delocalization. <i>Journal of the American Chemical Society</i> , 2002, 124, 13480-13485.	6.6	112
82	On the semiclassical calculation of molecular absorption and fluorescence spectra. <i>Journal of Chemical Physics</i> , 1982, 77, 173-181.	1.2	111
83	Radiative decay and energy transfer in molecular aggregates: The role of intermolecular dephasing. <i>Physical Review A</i> , 1988, 37, 3835-3846.	1.0	111
84	Classical chaos and fluctuation-dissipation relations for nonlinear response. <i>Physical Review E</i> , 1996, 53, R1-R4.	0.8	109
85	Solvent Reorganization in Long-Range Electron Transfer: Density Matrix Approach. <i>Journal of Physical Chemistry A</i> , 1998, 102, 1241-1251.	1.1	108
86	Simulating Coherent Multidimensional Spectroscopy of Nonadiabatic Molecular Processes: From the Infrared to the X-ray Regime. <i>Chemical Reviews</i> , 2017, 117, 12165-12226.	23.0	107
87	Cooperative radiative dynamics in molecular aggregates. <i>Journal of Chemical Physics</i> , 1991, 94, 7534-7544.	1.2	106
88	Lindblad equations for strongly coupled populations and coherences in photosynthetic complexes. <i>Journal of Chemical Physics</i> , 2009, 130, 204512.	1.2	105
89	Nonlinear optical response of conjugated polymers: Electron-hole anharmonic-oscillator picture. <i>Physical Review Letters</i> , 1992, 69, 65-68.	2.9	104
90	Femtosecond photon echoes in molecular aggregates. <i>Journal of Chemical Physics</i> , 1997, 107, 8759-8780.	1.2	101

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91	Roadmap on quantum light spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 072002.	0.6	101
92	Solvation structure and the time-resolved Stokes shift in non-Debye solvents. <i>Journal of Chemical Physics</i> , 1990, 93, 932-946.	1.2	99
93	Signatures of $\hat{I}^2$ -Peptide Unfolding in Two-Dimensional Vibrational Echo Spectroscopy: A Simulation Study. <i>Journal of the American Chemical Society</i> , 2001, 123, 3114-3124.	6.6	99
94	Stochastic theory of resonance Raman line shapes of polyatomic molecules in condensed phases. <i>Journal of Chemical Physics</i> , 1985, 82, 5398-5408.	1.2	97
95	Two-Dimensional Double-Quantum Spectra Reveal Collective Resonances in an Atomic Vapor. <i>Physical Review Letters</i> , 2012, 108, 193201.	2.9	97
96	Molecular Structure and Modeling of Water-Air and Ice-Air Interfaces Monitored by Sum-Frequency Generation. <i>Chemical Reviews</i> , 2020, 120, 3633-3667.	23.0	97
97	UV-Light-Induced Vibrational Coherences: The Key to Understand Kasha Rule Violation in <i>trans</i> -Azobenzene. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1534-1541.	2.1	96
98	Origin of spectral holes in pump-probe studies of homogeneously broadened lines. <i>Physical Review A</i> , 1984, 29, 1973-1983.	1.0	95
99	Anharmonic oscillator modeling of nonlinear susceptibilities and its application to conjugated polymers. <i>Journal of Chemical Physics</i> , 1994, 100, 2366-2384.	1.2	95
100	Interrogation of Vibrational Structure and Line Broadening of Liquid Water by Raman-Induced Kerr Effect Measurements within the Multimode Brownian Oscillator Model. <i>The Journal of Physical Chemistry</i> , 1996, 100, 10380-10388.	2.9	95
101	Excitonic couplings and electronic coherence in bridged naphthalene dimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 13003-13008.	3.3	95
102	Photofragmentation of linear triatomics. <i>Journal of Chemical Physics</i> , 1976, 65, 4035-4048.	1.2	93
103	Multistate quantum Fokker-Planck approach to nonadiabatic wave packet dynamics in pump-probe spectroscopy. <i>Journal of Chemical Physics</i> , 1994, 101, 3049-3061.	1.2	93
104	Superexchange versus sequential long range electron transfer; density matrix pathways in Liouville space. <i>Chemical Physics</i> , 1995, 197, 367-388.	0.9	93
105	Reaction Dynamics of a Photochromic Fluorescing Dithienylethene. <i>Journal of Physical Chemistry A</i> , 2001, 105, 1741-1749.	1.1	93
106	Electronic Coherence and Nonlinear Susceptibilities of Conjugated Polyenes. <i>Science</i> , 1994, 266, 250-254.	6.0	92
107	Lifetimes for resonance fluorescence and near resonance Raman scattering. <i>Journal of Chemical Physics</i> , 1975, 62, 3609.	1.2	91
108	Size Scaling of Third-Order Off-Resonant Polarizabilities. <i>Electronic Coherence in Organic Oligomers</i> . <i>Journal of the American Chemical Society</i> , 2000, 122, 452-459.	6.6	91

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109	Exciton-scaling and optical excitations of self-similar phenylacetylene dendrimers. <i>Journal of Chemical Physics</i> , 1999, 110, 8161-8175.	1.2	90
110	Coherent Multidimensional Optical Probes for Electron Correlations and Exciton Dynamics: From NMR to X-rays. <i>Accounts of Chemical Research</i> , 2009, 42, 553-562.	7.6	90
111	Reaction dynamics of photochromic dithienylethene derivatives. <i>Chemical Physics</i> , 1999, 246, 115-125.	0.9	89
112	Time-resolved x-ray spectroscopies: Nonlinear response functions and Liouville-space pathways. <i>Physical Review A</i> , 2001, 63, .	1.0	88
113	Optically Excited Entangled States in Organic Molecules Illuminate the Dark. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2046-2052.	2.1	88
114	Entangled Two-Photon Absorption Spectroscopy. <i>Accounts of Chemical Research</i> , 2018, 51, 2207-2214.	7.6	88
115	Probing intermolecular couplings in liquid water with two-dimensional infrared photon echo spectroscopy. <i>Journal of Chemical Physics</i> , 2008, 128, 191103.	1.2	86
116	Impulsive pump-probe and photon-echo spectroscopies of dye molecules in condensed phases. <i>Physical Review A</i> , 1990, 42, 6920-6923.	1.0	85
117	Design strategies for pulse sequences in multidimensional optical spectroscopies. <i>Journal of Chemical Physics</i> , 2001, 115, 4989-5004.	1.2	85
118	Vibrational Exciton Couplings for the Amide I, II, III, and A Modes of Peptides. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11032-11046.	1.2	85
119	Optical Stark Spectroscopy of a Brownian Oscillator in Intense Fields. <i>Journal of the Physical Society of Japan</i> , 1994, 63, 66-77.	0.7	85
120	Superoperator nonequilibrium Green's function theory of many-body systems; applications to charge transfer and transport in open junctions. <i>Physics Reports</i> , 2008, 465, 191-222.	10.3	84
121	Core and valence excitations in resonant X-ray spectroscopy using restricted excitation window time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2012, 137, 194306.	1.2	83
122	Novel photochemistry of molecular polaritons in optical cavities. <i>Faraday Discussions</i> , 2016, 194, 259-282.	1.6	83
123	Analysis of Absorption Spectra of Zinc Porphyrin, Zinc meso-Tetraphenylporphyrin, and Halogenated Derivatives. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10285-10293.	1.1	81
124	Coherent Multidimensional Optical Spectroscopy. <i>Accounts of Chemical Research</i> , 2009, 42, 1207-1209.	7.6	81
125	Ultrafast Nonlinear Optical Signals Viewed from the Molecule's Perspective. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2010, , 223-263.	2.3	81
126	Collective electronic oscillators for nonlinear optical response of conjugated molecules. <i>Chemical Physics Letters</i> , 1996, 259, 55-61.	1.2	80



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127	Krylov-space algorithms for time-dependent Hartree–Fock and density functional computations. <i>Journal of Chemical Physics</i> , 2000, 113, 36-43.	1.2	79
128	Unified theory of photon echoes: The passage from inhomogeneous to homogeneous line broadening. <i>Chemical Physics Letters</i> , 1985, 114, 426-429.	1.2	78
129	Four-wave mixing and luminescence of confined excitons in molecular aggregates and nanostructures. many-body green function approach. <i>Physics Reports</i> , 1995, 263, 213-309.	10.3	78
130	Suppression of population transport and control of exciton distributions by entangled photons. <i>Nature Communications</i> , 2013, 4, 1782.	5.8	78
131	Molecular fluorescence and near resonance Raman yield as a probe for solvation dynamics. <i>Journal of Chemical Physics</i> , 1987, 86, 6085-6107.	1.2	76
132	Size-consistent quasiparticle representation of nonlinear optical susceptibilities in many-electron systems. <i>Journal of Chemical Physics</i> , 1996, 104, 444-459.	1.2	76
133	Stochastic Liouville equation simulation of multidimensional vibrational line shapes of trialanine. <i>Journal of Chemical Physics</i> , 2004, 121, 10577-10598.	1.2	76
134	Effective temporal resolution in pump-probe spectroscopy with strongly chirped pulses. <i>Physical Review A</i> , 2010, 82, .	1.0	76
135	Infrared analogs of heteronuclear nuclear magnetic resonance coherence transfer experiments in peptides. <i>Journal of Chemical Physics</i> , 2002, 116, 6803-6816.	1.2	75
136	Nonlinear response of vibrational excitons: Simulating the two-dimensional infrared spectrum of liquid water. <i>Journal of Chemical Physics</i> , 2009, 130, 204110.	1.2	75
137	Exciton-scattering mechanism for enhanced nonlinear response of molecular nanostructures. <i>Physical Review A</i> , 1992, 46, 452-464.	1.0	74
138	Multidimensional femtosecond spectroscopies of vibrational motions in liquids: Semiclassical expansion. <i>Journal of Chemical Physics</i> , 1998, 108, 5812-5825.	1.2	74
139	Superradiance Coherence Sizes in Single-Molecule Spectroscopy of LH2 Antenna Complexes. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3954-3962.	1.2	74
140	Stochastic theory of time-resolved four-wave mixing in interacting media. <i>Physical Review A</i> , 1991, 44, 2124-2129.	1.0	73
141	Coherent Ultrafast Core-Hole Correlation Spectroscopy: X-Ray Analogues of Multidimensional NMR. <i>Physical Review Letters</i> , 2007, 99, 163001.	2.9	73
142	Recursive density-matrix-spectral-moment algorithm for molecular nonlinear polarizabilities. <i>Journal of Chemical Physics</i> , 1996, 105, 8914-8928.	1.2	72
143	2D-IR Experiments and Simulations of the Coupling between Amide-I and Ionizable Side Chains in Proteins: Application to the Villin Headpiece. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11260-11273.	1.2	72
144	Dielectric friction and the transition from adiabatic to nonadiabatic electron transfer in condensed phases. II. Application to non-Debye solvents. <i>Journal of Chemical Physics</i> , 1988, 88, 4300-4311.	1.2	71

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145	A Quantum Chemical Interpretation of Two-Dimensional Electronic Spectroscopy of Light-Harvesting Complexes. <i>Journal of the American Chemical Society</i> , 2017, 139, 7558-7567.	6.6	71
146	Transient gratings, four-wave mixing and polariton effects in nonlinear optics. <i>Physics Reports</i> , 1991, 205, 1-58.	10.3	69
147	Ultrafast Nonlinear Spectroscopic Techniques in the Gas Phase and Their Density Matrix Representation. <i>Journal of Physical Chemistry A</i> , 2002, 106, 697-718.	1.1	69
148	Stochastic Liouville equations for hydrogen-bonding fluctuations and their signatures in two-dimensional vibrational spectroscopy of water. <i>Journal of Chemical Physics</i> , 2005, 123, 114504.	1.2	69
149	Collisional perturbations of time-resolved photon scattering from molecular levels. <i>Physical Review A</i> , 1975, 12, 947-958.	1.0	68
150	Structure, dynamics, and the electronic absorption of benzene-argon clusters. <i>Journal of Chemical Physics</i> , 1992, 96, 116-135.	1.2	68
151	Simulations of two-dimensional femtosecond infrared photon echoes of glycine dipeptide. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 125-135.	1.2	67
152	Probing valence electronic wave-packet dynamics by all x-ray stimulated Raman spectroscopy: A simulation study. <i>Physical Review A</i> , 2007, 76, .	1.0	67
153	Solvation Effects in Four-Wave Mixing and Spontaneous Raman and Fluorescence Lineshapes of Polyatomic Molecules. <i>Advances in Chemical Physics</i> , 2007, , 165-230.	0.3	66
154	Two-dimensional stimulated resonance Raman spectroscopy of molecules with broadband x-ray pulses. <i>Journal of Chemical Physics</i> , 2012, 136, 174117.	1.2	66
155	Quantum Confined Fano Interference. <i>Physical Review Letters</i> , 1997, 78, 1363-1366.	2.9	65
156	Semiclassical dynamics in Liouville space: Application to molecular electronic spectroscopy. <i>Journal of Chemical Physics</i> , 1988, 88, 5735-5748.	1.2	64
157	Excitons in confined geometries: Size scaling of nonlinear susceptibilities. <i>Journal of Chemical Physics</i> , 1991, 95, 7526-7540.	1.2	64
158	Linear and nonlinear infrared signatures of local $\beta$ - and $3_{10}$ -helical structures in alanine polypeptides. <i>Journal of Chemical Physics</i> , 2003, 118, 3651-3659.	1.2	64
159	Heat fluctuations and coherences in a quantum heat engine. <i>Physical Review A</i> , 2012, 86, .	1.0	63
160	Chemical Bonding and Size Scaling of Nonlinear Polarizabilities of Conjugated Polymers. <i>Physical Review Letters</i> , 1996, 77, 4656-4659.	2.9	62
161	Simulations of energy funneling and time- and frequency-gated fluorescence in dendrimers. <i>Journal of Chemical Physics</i> , 2001, 114, 2419-2429.	1.2	62
162	Control of Intrachromophore Excitonic Coherence in Electroluminescent Conjugated Dendrimers. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7647-7653.	1.2	62

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163	Electronic density-matrix algorithm for nonadiabatic couplings in molecular dynamics simulations. <i>International Journal of Quantum Chemistry</i> , 2001, 85, 225-238.	1.0	61
164	Pulse shaping and coherent Raman spectroscopy in condensed phases. <i>Journal of Chemical Physics</i> , 1991, 94, 997-1005.	1.2	60
165	Correlated line broadening in multidimensional vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2002, 117, 11089-11101.	1.2	60
166	Machine Learning Protocol for Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6026-6031.	2.1	60
167	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. <i>Nature Chemistry</i> , 2021, 13, 343-349.	6.6	59
168	Molecular photodissociation. <i>Journal of Chemical Physics</i> , 1974, 60, 4760-4777.	1.2	58
169	Ultraviolet Spectroscopy of Protein Backbone Transitions in Aqueous Solution: Combined QM and MM Simulations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8270-8277.	1.2	58
170	Communication: Comment on the effective temporal and spectral resolution of impulsive stimulated Raman signals. <i>Journal of Chemical Physics</i> , 2011, 134, 161101.	1.2	58
171	Monitoring molecular nonadiabatic dynamics with femtosecond X-ray diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6538-6547.	3.3	58
172	Manipulating nonadiabatic conical intersection dynamics by optical cavities. <i>Chemical Science</i> , 2020, 11, 1290-1298.	3.7	58
173	Nonlinear response functions for birefringence and dichroism measurements in condensed phases. <i>Journal of Chemical Physics</i> , 1993, 98, 5314-5326.	1.2	57
174	Two-dimensional optical spectroscopy of excitons in semiconductor quantum wells: Liouville-space pathway analysis. <i>Physical Review B</i> , 2007, 75, .	1.1	57
175	Multidimensional Infrared Signatures of Intramolecular Hydrogen Bonding in Malonaldehyde. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9113-9131.	1.1	56
176	Nonlinear optical spectroscopy of single, few, and many molecules: Nonequilibrium Green's function QED approach. <i>Physical Review A</i> , 2008, 77, 22110.	1.0	56
177	Double-quantum resonances and exciton-scattering in coherent 2D spectroscopy of photosynthetic complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8525-8530.	3.3	56
178	Stochastic simulation of chemical exchange in two dimensional infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2006, 125, 014507.	1.2	55
179	Unravelling Coherent Dynamics and Energy Dissipation in Photosynthetic Complexes by 2D Spectroscopy. <i>Biophysical Journal</i> , 2008, 94, 3613-3619.	0.2	55
180	A neural network protocol for electronic excitations of <i>N</i> -methylacetamide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11612-11617.	3.3	55

#	ARTICLE	IF	CITATIONS
181	A Machine Learning Protocol for Predicting Protein Infrared Spectra. <i>Journal of the American Chemical Society</i> , 2020, 142, 19071-19077.	6.6	55
182	High-order echoes in vibrational spectroscopy of liquids. <i>Chemical Physics Letters</i> , 1995, 240, 304-314.	1.2	54
183	Extracting single and two-exciton couplings in photosynthetic complexes by coherent two-dimensional electronic spectra. <i>Chemical Physics</i> , 2009, 357, 79-84.	0.9	54
184	Nonlinear spectroscopy with entangled photons: Manipulating quantum pathways of matter. <i>Physical Review A</i> , 2009, 79, 33832.	1.0	54
185	Fluctuations in intramolecular line shapes—random matrix theory. <i>Chemical Physics Letters</i> , 1984, 105, 134-139.	1.2	53
186	Trees to trap photons. <i>Nature</i> , 1997, 388, 425-427.	13.7	53
187	Two-Dimensional Infrared Spectroscopy as a Probe of the Solvent Electrostatic Field for a Twelve Residue Peptide. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5930-5937.	1.2	53
188	Isolating excitonic Raman coherence in semiconductors using two-dimensional correlation spectroscopy. <i>Journal of Chemical Physics</i> , 2008, 129, 234711.	1.2	53
189	Fluorescence of supercooled molecules as a probe for intramolecular vibrational redistribution rates. <i>Journal of Chemical Physics</i> , 1980, 73, 4156-4166.	1.2	52
190	Multidimensional pump-probe spectroscopy with entangled twin-photon states. <i>Physical Review A</i> , 2009, 79, 63409.	1.0	52
191	Two-dimensional infrared spectroscopy of vibrational polaritons of molecules in an optical cavity. <i>Journal of Chemical Physics</i> , 2016, 144, 124115.	1.2	52
192	Manipulating molecules with quantum light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3278-3280.	3.3	52
193	Superexchange and electron transfer in the photosynthetic reaction center. <i>Chemical Physics Letters</i> , 1989, 160, 410-416.	1.2	50
194	Simulation of the femtosecond optical response of a solute in water. <i>Physical Review Letters</i> , 1992, 68, 1842-1845.	2.9	50
195	Photon echoes in impulsive optical spectroscopy of phonons. <i>Journal of Chemical Physics</i> , 1995, 102, 2365-2371.	1.2	50
196	Time-resolved broadband Raman spectroscopies: A unified six-wave-mixing representation. <i>Journal of Chemical Physics</i> , 2013, 139, 124113.	1.2	50
197	Unified description of electron transfer and nonlinear optical spectroscopy. <i>Accounts of Chemical Research</i> , 1989, 22, 301-308.	7.6	49
198	Biexciton states and two-photon absorption in molecular monolayers. <i>Journal of Chemical Physics</i> , 1991, 95, 1400-1409.	1.2	49

#	ARTICLE	IF	CITATIONS
199	Multitime correlation functions for single molecule kinetics with fluctuating bottlenecks. <i>Journal of Chemical Physics</i> , 2002, 116, 4240-4251.	1.2	49
200	Coherent infrared multidimensional spectra of the OH stretching band in liquid water simulated by direct nonlinear exciton propagation. <i>Journal of Chemical Physics</i> , 2009, 130, 184501.	1.2	49
201	Excitons and Disorder in Molecular Nanotubes: A 2D Electronic Spectroscopy Study and First Comparison to a Microscopic Model. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8179-8189.	1.1	49
202	Quantum heat engines: A thermodynamic analysis of power and efficiency. <i>Europhysics Letters</i> , 2012, 99, 50005.	0.7	49
203	Simulating Valence-to-Core X-ray Emission Spectroscopy of Transition Metal Complexes with Time-Dependent Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5804-5809.	2.3	49
204	Resonance Raman scattering from a multilevel, thermally relaxing system. <i>Journal of Chemical Physics</i> , 1977, 66, 2462-2479.	1.2	48
205	Optical coherence and theoretical study of the excitation dynamics of a highly symmetric cyclophane-linked oligophenylenevinylene dimer. <i>Journal of Chemical Physics</i> , 2006, 124, 194904.	1.2	47
206	Transport and correlated fluctuations in the nonlinear optical response of excitons. <i>Europhysics Letters</i> , 2007, 80, 17005.	0.7	47
207	Monitoring nonadiabatic avoided crossing dynamics in molecules by ultrafast X-ray diffraction. <i>Structural Dynamics</i> , 2017, 4, 054101.	0.9	47
208	On the nature of intramolecular dephasing processes in polyatomic molecules. <i>Chemical Physics</i> , 1978, 31, 327-333.	0.9	46
209	Four-wave mixing using partially coherent fields in systems with spatial correlations. <i>Physical Review A</i> , 1986, 33, 1099-1108.	1.0	46
210	A classical theory of pump-probe photodissociation for arbitrary pulse durations. <i>Journal of Chemical Physics</i> , 1990, 93, 3063-3071.	1.2	46
211	Two-exciton spectroscopy of photosynthetic antenna complexes: Collective oscillator analysis. <i>Journal of Chemical Physics</i> , 1996, 105, 8586-8601.	1.2	46
212	Some anisotropy effects in molecular photoejection spectroscopy. <i>Journal of Chemical Physics</i> , 1974, 61, 5348-5357.	1.2	45
213	Coherent third-order spectroscopic probes of molecular chirality. <i>Journal of Chemical Physics</i> , 2005, 122, 134305.	1.2	45
214	Simulation of Nonlinear Electronic Spectroscopy in the Condensed Phase. <i>Advances in Chemical Physics</i> , 2007, , 435-516.	0.3	45
215	Probing the Conical Intersection Dynamics of the RNA Base Uracil by UV-Pump Stimulated-Raman-Probe Signals; Ab Initio Simulations. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1172-1188.	2.3	45
216	On the quasiadiabatic description of the dynamics of electronically adiabatic chemical reactions. <i>Journal of Chemical Physics</i> , 1977, 66, 3759-3766.	1.2	44

#	ARTICLE	IF	CITATIONS
217	Non-Markovian theory of collisional dephasing in near resonance light scattering. <i>Journal of Chemical Physics</i> , 1979, 71, 2884.	1.2	44
218	Magnetic Resonance Analogies in Multidimensional Vibrational Spectroscopy. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 989-999.	2.0	44
219	Resonant Enhancement and Dissipation in Nonequilibrium van der Waals Forces. <i>Physical Review Letters</i> , 2003, 91, 233202.	2.9	44
220	Infrared photon echo signatures of hydrogen bond connectivity in the cyclic decapeptide antamanide. <i>Journal of Chemical Physics</i> , 2003, 118, 9971-9980.	1.2	44
221	Modeling the high-energy electronic state manifold of adenine: Calibration for nonlinear electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 142, 212443.	1.2	44
222	Visualizing conical intersection passages via vibronic coherence maps generated by stimulated ultrafast X-ray Raman signals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24069-24075.	3.3	44
223	Wigner spectrograms for femtosecond pulse-shaped heterodyne and autocorrelation measurements. <i>IEEE Journal of Quantum Electronics</i> , 1996, 32, 1278-1288.	1.0	43
224	Effective bridge spectral density for long-range biological energy and charge transfer. <i>Journal of Chemical Physics</i> , 1996, 104, 5821-5833.	1.2	43
225	N-H Stretching Excitations in Adenosine-Thymidine Base Pairs in Solution: Pair Geometries, Infrared Line Shapes, and Ultrafast Vibrational Dynamics. <i>Journal of Physical Chemistry A</i> , 2013, 117, 594-606.	1.1	43
226	Self-broadening and exciton line shifts in gases: Beyond the local-field approximation. <i>Physical Review A</i> , 1994, 49, 146-155.	1.0	42
227	Reduced electronic density matrices, effective Hamiltonians, and nonlinear susceptibilities of conjugated polyenes. <i>Journal of Chemical Physics</i> , 1995, 103, 9355-9362.	1.2	42
228	Origin, scaling, and saturation of second order polarizabilities in donor/acceptor polyenes. <i>Chemical Physics Letters</i> , 1998, 287, 75-82.	1.2	42
229	Optical response functions for condensed systems with linear and quadratic electron-vibration coupling. <i>Journal of Chemical Physics</i> , 1998, 109, 7949-7960.	1.2	42
230	Watching energy transfer in metalloporphyrin heterodimers using stimulated X-ray Raman spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15597-15601.	3.3	42
231	A coherent nonlinear optical signal induced by electron correlations. <i>Journal of Chemical Physics</i> , 2007, 127, 221105.	1.2	41
232	Sensitivity of 2D IR Spectra to Peptide Helicity: A Concerted Experimental and Simulation Study of an Octapeptide. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12037-12049.	1.2	41
233	On the derivation of rate equations for collisionless molecular multiphoton processes. <i>Journal of Chemical Physics</i> , 1979, 71, 2012.	1.2	40
234	Stochastic reduction for molecular multiphoton processes. <i>Journal of Chemical Physics</i> , 1979, 70, 5834-5847.	1.2	40

#	ARTICLE	IF	CITATIONS
235	Direct vs redistributed fluorescence of supercooled molecules: The onset of intramolecular vibrational redistribution. <i>Journal of Chemical Physics</i> , 1985, 82, 2867-2876.	1.2	40
236	Exciton coherence—size and phonon—mediated optical nonlinearities in restricted geometries. <i>Journal of Chemical Physics</i> , 1991, 95, 7828-7845.	1.2	40
237	Wigner spectrogram representations of heterodyne-detected four-wave-mixing and fluorescence up-conversion. <i>Journal of Chemical Physics</i> , 1997, 107, 4165-4171.	1.2	40
238	Ab initio simulation of the two-dimensional vibrational spectrum of dicarbonylacetylacetonato rhodium(I). <i>Journal of Chemical Physics</i> , 2003, 118, 1347-1355.	1.2	40
239	Discriminating early stage A <sup>1</sup> 242 monomer structures using chirality-induced 2DIR spectroscopy in a simulation study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15687-15692.	3.3	40
240	Comprehensive Experimental and Computational Spectroscopic Study of Hexacyanoferrate Complexes in Water: From Infrared to X-ray Wavelengths. <i>Journal of Physical Chemistry B</i> , 2018, 122, 5075-5086.	1.2	40
241	Two-dimensional UV spectroscopy: a new insight into the structure and dynamics of biomolecules. <i>Chemical Science</i> , 2019, 10, 9907-9921.	3.7	40
242	Nonlinear Susceptibilities of Donor-Acceptor Conjugated Systems: Coupled-Oscillator Representation. <i>Journal of the American Chemical Society</i> , 1995, 117, 4945-4964.	6.6	39
243	Probing the Two-Exciton Manifold of Light-Harvesting Antenna Complexes Using Femtosecond Four-Wave Mixing. <i>Journal of Physical Chemistry B</i> , 1997, 101, 809-816.	1.2	39
244	X-ray four-wave mixing in molecules. <i>Journal of Chemical Physics</i> , 2002, 116, 1877-1891.	1.2	39
245	Low-temperature zero phonon lineshapes with various Brownian oscillator spectral densities. <i>Chemical Physics</i> , 2002, 281, 1-10.	0.9	39
246	Simulation Study of Chiral Two-Dimensional Ultraviolet Spectroscopy of the Protein Backbone. <i>Journal of the American Chemical Society</i> , 2010, 132, 7769-7775.	6.6	39
247	Spectral Diffusion at the Water/Lipid Interface Revealed by Two-Dimensional Fourth-Order Optical Spectroscopy: A Classical Simulation Study. <i>Journal of the American Chemical Society</i> , 2011, 133, 3276-3279.	6.6	39
248	Comment on "Coherence and Uncertainty in Nanostructured Organic Photovoltaics". <i>Journal of Physical Chemistry A</i> , 2013, 117, 10563-10564.	1.1	39
249	Spectral lineshapes in nonlinear electronic spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30925-30936.	1.3	39
250	Reduced equations of motion for semiclassical dynamics in phase space. <i>Journal of Chemical Physics</i> , 1987, 86, 3441-3454.	1.2	38
251	Melting and the electronic absorption of benzene-argon clusters. <i>Physical Review Letters</i> , 1991, 66, 2340-2343.	2.9	38
252	Superoperator representation of nonlinear response: Unifying quantum field and mode coupling theories. <i>Physical Review E</i> , 2003, 68, 021111.	0.8	38

#	ARTICLE	IF	CITATIONS
253	<i>Ab initio</i> simulations of two-dimensional electronic spectra: The SOS//QM/MM approach. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 85-93.	1.0	38
254	Monitoring conical intersections in the ring opening of furan by attosecond stimulated X-ray Raman spectroscopy. <i>Structural Dynamics</i> , 2016, 3, 023601.	0.9	38
255	Molecular mechanism of water reorientational slowing down in concentrated ionic solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10023-10028.	3.3	38
256	Nonlinear optics using the multipolar Hamiltonian: The Bloch-Maxwell equations and local fields. <i>Physical Review A</i> , 1989, 39, 1899-1914.	1.0	37
257	Simulation of three-pulse echo and fluorescence depolarization in photosynthetic aggregates. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1998, 356, 405-419.	1.6	37
258	Scaling of Fluorescence Stokes Shift and Superradiance Coherence Size in Disordered Molecular Aggregates. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10294-10299.	1.1	37
259	Excitonic Funneling in Extended Dendrimers with Nonlinear and Random Potentials. <i>Physical Review Letters</i> , 2000, 85, 282-285.	2.9	37
260	Peptide Secondary Structure Determination by Three-Pulse Coherent Vibrational Spectroscopies: A Simulation Study. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18034-18045.	1.2	37
261	Waiting time distributions of electron transfers through quantum dot Aharonov-Bohm interferometers. <i>Europhysics Letters</i> , 2009, 85, 57008.	0.7	37
262	Two-dimensional near-ultraviolet spectroscopy of aromatic residues in amyloid fibrils: a first principles study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2394-2400.	1.3	37
263	Theory of molecular photofragmentation. <i>Journal of Chemical Physics</i> , 1976, 65, 3735-3750.	1.2	36
264	Exciton transport in molecular aggregates probed by time and frequency gated optical spectroscopy. <i>Journal of Chemical Physics</i> , 2000, 112, 7953-7963.	1.2	36
265	Tracing exciton dynamics in molecular nanotubes with 2D electronic spectroscopy. <i>Chemical Physics Letters</i> , 2009, 469, 130-134.	1.2	36
266	Monitoring Nonadiabatic Dynamics of the RNA Base Uracil by UV Pump-IR Probe Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1933-1942.	2.1	36
267	Stimulated Raman Spectroscopy with Entangled Light: Enhanced Resolution and Pathway Selection. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2843-2849.	2.1	36
268	On the selective elimination of intramolecular vibrational redistribution using strong resonant laser fields. <i>Chemical Physics Letters</i> , 1985, 117, 489-494.	1.2	35
269	Quantum electrodynamics of molecular nanostructures. <i>Journal of Chemical Physics</i> , 1993, 98, 7046-7058.	1.2	35
270	Dissecting coherent vibrational spectra of small proteins into secondary structural elements by sensitivity analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7443-7448.	3.3	35



#	ARTICLE	IF	CITATIONS
271	Modelling Time-Resolved Two-Dimensional Electronic Spectroscopy of the Primary Photoisomerization Event in Rhodopsin. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8396-8405.	1.2	35
272	Monitoring Nonadiabatic Electron-Nuclear Dynamics in Molecules by Attosecond Streaking of Photoelectrons. <i>Physical Review Letters</i> , 2016, 117, 043201.	2.9	35
273	Pyrene, a Test Case for Deep-Ultraviolet Molecular Photophysics. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3481-3487.	2.1	35
274	Coherent stimulated x-ray Raman spectroscopy: Attosecond extension of resonant inelastic x-ray Raman scattering. <i>Physical Review B</i> , 2009, 79, .	1.1	34
275	Manipulation of two-photon-induced fluorescence spectra of chromophore aggregates with entangled photons: A simulation study. <i>Physical Review A</i> , 2012, 86, .	1.0	34
276	Broadband infrared and Raman probes of excited-state vibrational molecular dynamics: simulation protocols based on loop diagrams. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12348.	1.3	34
277	Disentangling Peptide Configurations via Two-Dimensional Electronic Spectroscopy: Ab Initio Simulations Beyond the Frenkel Exciton Hamiltonian. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 767-771.	2.1	34
278	Analysis of fluorescence line shapes and Raman excitation profiles of tetrademethylâ€”carotene. <i>Journal of Chemical Physics</i> , 1988, 88, 651-665.	1.2	33
279	Interplay of multiple vibrational spectral densities in femtosecond nonlinear spectroscopy of liquids. <i>Journal of Chemical Physics</i> , 1996, 105, 8543-8555.	1.2	33
280	Excitonic Interactions and Stark Spectroscopy of Light Harvesting Systems. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8893-8908.	1.2	33
281	Stochastic-trajectories and nonPoisson kinetics in single-molecule spectroscopy. <i>Journal of Chemical Physics</i> , 1999, 111, 7416-7425.	1.2	33
282	Semiclassical simulations of multidimensional Raman echoes. <i>Journal of Chemical Physics</i> , 1999, 110, 1711-1725.	1.2	33
283	Disentangling multidimensional femtosecond spectra of excitons by pulse shaping with coherent control. <i>Journal of Chemical Physics</i> , 2004, 120, 8373-8378.	1.2	33
284	Pump-probe spectroscopy using quantum light with two-photon coincidence detection. <i>Physical Review A</i> , 2016, 93, .	1.0	33
285	Nonlinear Polarizabilities of Donorâ””Acceptor Substituted Conjugated Polyenes. <i>The Journal of Physical Chemistry</i> , 1996, 100, 11080-11085.	2.9	32
286	Excited electronic states of carotenoids: Time-dependent density-matrix-response algorithm. <i>International Journal of Quantum Chemistry</i> , 1998, 70, 711-727.	1.0	32
287	Two-exciton states and spectroscopy of phenylacetylene dendrimers. <i>Journal of Chemical Physics</i> , 1999, 111, 4158-4168.	1.2	32
288	Charge and bonding redistribution in octatetraene driven by a strong laser field: Time-dependent Hartreeâ€”Fock simulation. <i>Journal of Chemical Physics</i> , 2003, 119, 4722-4730.	1.2	32

#	ARTICLE	IF	CITATIONS
289	Electrostatic interactions in phospholipid membranes revealed by coherent 2D IR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15323-15327.	3.3	32
290	Two-Dimensional Ultraviolet (2DUV) Spectroscopic Tools for Identifying Fibrillation Propensity of Protein Residue Sequences. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9666-9669.	7.2	32
291	Loss and gain signals in broadband stimulated-Raman spectra: Theoretical analysis. <i>Physical Review A</i> , 2013, 88, .	1.0	32
292	Cooperative Conical Intersection Dynamics of Two Pyrazine Molecules in an Optical Cavity. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5555-5562.	2.1	32
293	Universality in the Critical Broadening of Spectral Lines in Simple Fluids. <i>Physical Review Letters</i> , 1983, 50, 590-594.	2.9	31
294	Probing Electron Correlations in Molecules by Two-Dimensional Coherent Optical Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 3509-3515.	6.6	31
295	Frequency Distribution of the Amide-I Vibration Sorted by Residues in Amyloid Fibrils Revealed by 2D-IR Measurements and Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3322-3330.	1.2	31
296	Simulations of the Two-Dimensional Electronic Spectroscopy of the Photosystem II Reaction Center. <i>Journal of Physical Chemistry A</i> , 2013, 117, 34-41.	1.1	31
297	Femtosecond Stimulated Raman Spectroscopy of the Cyclobutane Thymine Dimer Repair Mechanism: A Computational Study. <i>Journal of the American Chemical Society</i> , 2014, 136, 14801-14810.	6.6	31
298	On the origin of oscillations in two-dimensional spectra of excitonically-coupled molecular systems. <i>New Journal of Physics</i> , 2015, 17, 072002.	1.2	31
299	Multiple Decay Mechanisms and 2D-UV Spectroscopic Fingerprints of Singlet Excited Solvated Adenine-Uracil Monophosphate. <i>Chemistry - A European Journal</i> , 2016, 22, 7497-7507.	1.7	31
300	Imaging conical intersection dynamics during azobenzene photoisomerization by ultrafast X-ray diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	31
301	Exciton confinement in organic dendrimer quantum wells for opto-electronic applications. <i>Journal of Chemical Physics</i> , 2002, 116, 455-459.	1.2	30
302	Two-dimensional vibrational optical probes for peptide fast folding investigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18934-18938.	3.3	30
303	Statistics and fluctuation theorem for boson and fermion transport through mesoscopic junctions. <i>Physical Review B</i> , 2007, 76, .	1.1	30
304	Stimulated coherent anti-Stokes Raman spectroscopy (CARS) resonances originate from double-slit interference of two-photon Stokes pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4825-4829.	3.3	30
305	Communications: Signatures of quasiparticle entanglement in multidimensional nonlinear optical spectroscopy of aggregates. <i>Journal of Chemical Physics</i> , 2010, 132, 241105.	1.2	30
306	N-H Stretching Modes of Adenosine Monomer in Solution Studied by Ultrafast Nonlinear Infrared Spectroscopy and Ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7636-7644.	1.1	30

#	ARTICLE	IF	CITATIONS
307	Nonlinear Spectroscopy of Core and Valence Excitations Using Short X-Ray Pulses: Simulation Challenges. <i>Topics in Current Chemistry</i> , 2014, 368, 273-345.	4.0	30
308	Multidimensional resonant nonlinear spectroscopy with coherent broadband x-ray pulses. <i>Physica Scripta</i> , 2016, T169, 014002.	1.2	30
309	X-Ray Sum Frequency Diffraction for Direct Imaging of Ultrafast Electron Dynamics. <i>Physical Review Letters</i> , 2018, 120, 243902.	2.9	30
310	Optical-Cavity Manipulation of Conical Intersections and Singlet Fission in Pentacene Dimers. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2052-2056.	2.1	30
311	Resonance fluorescence involving optically active continua. <i>Journal of Chemical Physics</i> , 1974, 61, 227-243.	1.2	29
312	Polaritons and retarded interactions in nonlinear optical susceptibilities. <i>Journal of Chemical Physics</i> , 1989, 91, 989-1007.	1.2	29
313	Intramolecular and solvent dynamics in femtosecond pump-probe spectroscopy. <i>Journal of Chemical Physics</i> , 1990, 93, 3863-3873.	1.2	29
314	Vibrational-exciton relaxation probed by three-pulse echoes in polypeptides. <i>Chemical Physics</i> , 2001, 266, 285-294.	0.9	29
315	Simulation of two-dimensional infrared spectroscopy of amyloid fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14233-14236.	3.3	29
316	Sum-over-states versus quasiparticle pictures of coherent correlation spectroscopy of excitons in semiconductors: Femtosecond analogs of multidimensional NMR. <i>Physical Review B</i> , 2007, 75, .	1.1	29
317	Revealing exciton-exciton couplings in semiconductors using multidimensional four-wave mixing signals. <i>Physical Review B</i> , 2008, 77, .	1.1	29
318	Ultrafast double-quantum-coherence spectroscopy of excitons with entangled photons. <i>Physical Review A</i> , 2010, 82, 138201-138207.	1.0	29
319	Time-, frequency-, and wavevector-resolved x-ray diffraction from single molecules. <i>Journal of Chemical Physics</i> , 2014, 140, 204311.	1.2	29
320	Probing deactivation pathways of DNA nucleobases by two-dimensional electronic spectroscopy: first principles simulations. <i>Faraday Discussions</i> , 2015, 177, 345-362.	1.6	29
321	Aggregation-Induced Intersystem Crossing: Rational Design for Phosphorescence Manipulation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2238-2244.	1.2	29
322	Effective dephasing theory of the optical Anderson transition as probed by four-wave mixing spectroscopy. <i>Journal of Chemical Physics</i> , 1986, 85, 1950-1965.	1.2	28
323	What is the solvent longitudinal time scale controlling electron transfer rates?. <i>Journal of Chemical Physics</i> , 1988, 88, 1465-1466.	1.2	28
324	Femtosecond pump-probe spectroscopy of conjugated polymers: Coherent and sequential contributions. <i>Physical Review Letters</i> , 1992, 68, 2456-2459.	2.9	28

#	ARTICLE	IF	CITATIONS
325	Cooperative radiative decay in the nonlinear optical response of excitonic nanostructures. <i>Physical Review B</i> , 1993, 48, 2470-2478.	1.1	28
326	Energy transfer, spectral diffusion, and fluorescence of molecular aggregates: Brownian oscillator analysis. <i>Chemical Physics Letters</i> , 1995, 242, 17-26.	1.2	28
327	Femtosecond Spectroscopic Signatures of Electronic Correlations in Conjugated Polyenes and Semiconductor Nanostructures. <i>Physical Review Letters</i> , 1996, 77, 3471-3474.	2.9	28
328	Effective Frenkel Hamiltonian for optical nonlinearities in semiconductors: Application to magnetoexcitons. <i>Physical Review B</i> , 1998, 58, 4496-4516.	1.1	28
329	A Mechanical Force Accompanies Fluorescence Resonance Energy Transfer (FRET). <i>Journal of Physical Chemistry A</i> , 2003, 107, 3633-3638.	1.1	28
330	Two-dimensional electronic correlation spectroscopy of the $\tilde{n}^{\text{I}}\tilde{\epsilon}^{\text{I}}$ and $\tilde{\epsilon}^{\text{I}}\tilde{\epsilon}^{\text{I}}$ protein backbone transitions: A simulation study. <i>Chemical Physics</i> , 2007, 341, 29-36.	0.9	28
331	Spectroscopic fingerprints of DNA/RNA pyrimidine nucleobases in third-order nonlinear electronic spectra. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	28
332	Stochastic reduction for dynamics of reactions with complex formation. <i>Journal of Chemical Physics</i> , 1977, 67, 2007.	1.2	27
333	Nonlinear susceptibilities and coherent and spontaneous Raman spectroscopy of polyatomic molecules in condensed phases. <i>Journal of Chemical Physics</i> , 1986, 85, 1738-1752.	1.2	27
334	Simulation algorithms for multidimensional nonlinear response of classical many-body systems. <i>Journal of Chemical Physics</i> , 2003, 119, 9344-9354.	1.2	27
335	Correlated hydrogen bonding fluctuations and vibrational cross peaks in N-methyl acetamide: Simulation based on a complete electrostatic density functional theory map. <i>Journal of Chemical Physics</i> , 2006, 125, 194510.	1.2	27
336	Two-dimensional vibrational lineshapes of amide III, II, I and A bands in a helical peptide. <i>Journal of Molecular Liquids</i> , 2008, 141, 149-154.	2.3	27
337	Exciton Delocalization and Transport in Photosystem I of Cyanobacteria <i>Synechococcus elongatus</i> : Simulation Study of Coherent Two-Dimensional Optical Signals. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6097-6108.	1.2	27
338	Two-dimensional stimulated ultraviolet resonance Raman spectra of tyrosine and tryptophan: a simulation study. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 544-559.	1.2	27
339	On the Resolution Limit of Femtosecond Stimulated Raman Spectroscopy: Modelling Fifth-Order Signals with Overlapping Pulses. <i>ChemPhysChem</i> , 2015, 16, 3438-3443.	1.0	27
340	Two-Dimensional Electronic Spectroscopy of Benzene, Phenol, and Their Dimer: An Efficient First-Principles Simulation Protocol. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3755-3771.	2.3	27
341	X-ray circular dichroism signals: a unique probe of local molecular chirality. <i>Chemical Science</i> , 2017, 8, 5969-5978.	3.7	27
342	Time-resolved light scattering from a collisionally perturbed molecular resonance. <i>Journal of Chemical Physics</i> , 1976, 64, 3971-3975.	1.2	26

#	ARTICLE	IF	CITATIONS
343	Single-atom versus coherent pressure-induced extra resonances in four-photon processes. <i>Optics Letters</i> , 1983, 8, 145.	1.7	26
344	Time- and frequency-resolved fluorescence line shapes as a probe of solvation dynamics. <i>Chemical Physics Letters</i> , 1987, 135, 23-29.	1.2	26
345	Generalized semiconductor Bloch equations: Local fields and transient gratings. <i>Physical Review B</i> , 1991, 44, 11253-11259.	1.1	26
346	Spin versus Boson Baths in Nonlinear Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1998, 102, 6614-6634.	1.1	26
347	Probing single molecule kinetics by photon arrival trajectories. <i>Journal of Chemical Physics</i> , 2002, 116, 9802-9810.	1.2	26
348	Simulation of x-ray absorption near edge spectra of electronically excited ruthenium tris-2,2'-bipyridine. <i>Journal of Chemical Physics</i> , 2004, 121, 12323.	1.2	26
349	Double-quantum-coherence attosecond x-ray spectroscopy of spatially separated, spectrally overlapping core-electron transitions. <i>Physical Review A</i> , 2008, 78, .	1.0	26
350	Monitoring polariton dynamics in the LHCII photosynthetic antenna in a microcavity by two-photon coincidence counting. <i>Journal of Chemical Physics</i> , 2018, 148, 074302.	1.2	26
351	Polaron and size effects in optical line shapes of molecular aggregates. <i>Journal of Chemical Physics</i> , 1991, 95, 1588-1607.	1.2	25
352	Semiclassical theory of molecular nonlinear optical polarization. <i>Journal of Chemical Physics</i> , 1995, 102, 9327-9344.	1.2	25
353	Two-dimensional correlation spectroscopies of localized vibrations. <i>Chemical Physics</i> , 2001, 266, 311-322.	0.9	25
354	Size scaling of intramolecular charge transfer driven optical properties of substituted polyenes and polyynes. <i>Journal of Chemical Physics</i> , 2003, 119, 7519-7524.	1.2	25
355	Multipoint Fluorescence Quenching-Time Statistics for Single Molecules with Anomalous Diffusion. <i>Journal of Physical Chemistry A</i> , 2004, 108, 15-24.	1.1	25
356	Multidimensional phase-sensitive single-molecule spectroscopy with time-and-frequency-gated fluorescence detection. <i>Physical Review A</i> , 2011, 83, .	1.0	25
357	Coherent nonlinear optical studies of elementary processes in biological complexes: diagrammatic techniques based on the wave function versus the density matrix. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 3709-3727.	1.6	25
358	Entangled Valence Electron-Hole Dynamics Revealed by Stimulated Attosecond X-ray Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2326-2331.	2.1	25
359	Monitoring the Folding of Trp-Cage Peptide by Two-Dimensional Infrared (2DIR) Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4661-4669.	1.2	25
360	Nonadiabatic Dynamics May Be Probed through Electronic Coherence in Time-Resolved Photoelectron Spectroscopy. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 740-752.	2.3	25

#	ARTICLE	IF	CITATIONS
361	Transient X-ray Absorption Spectral Fingerprints of the S <sub>1</sub> Dark State in Uracil. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7172-7178.	2.1	25
362	Genuine Dynamics vs Cross Phase Modulation Artifacts in Femtosecond Stimulated Raman Spectroscopy. <i>ACS Photonics</i> , 2019, 6, 492-500.	3.2	25
363	Probing Molecular Chirality by Orbital-Angular-Momentum-Carrying X-ray Pulses. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4180-4186.	2.3	25
364	Exploring the capabilities of optical pump X-ray probe NEXAFS spectroscopy to track photo-induced dynamics mediated by conical intersections. <i>Faraday Discussions</i> , 2019, 221, 245-264.	1.6	25
365	Manipulating Two-Photon-Absorption of Cavity Polaritons by Entangled Light. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8177-8182.	2.1	25
366	Line broadening in rigid and nonrigid clusters and molecular electronic spectra. The spectral density formalism. <i>Journal of Chemical Physics</i> , 1984, 80, 5487-5495.	1.2	24
367	Solvation dynamics and vibrational relaxation in resonance Raman and fluorescence lineshapes of tetrademethyl- $\beta$ -carotene. <i>Chemical Physics Letters</i> , 1987, 134, 87-95.	1.2	24
368	Exciton-Wave Packet Dynamics in Molecular Aggregates Studied with Pump-Probe Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3976-3983.	1.2	24
369	Liouville-space pathways for spectral diffusion in photon statistics from single molecules. <i>Physical Review A</i> , 2005, 71, .	1.0	24
370	Simulation of Single Molecule Inelastic Electron Tunneling Signals in Paraphenylene-Vinylene Oligomers and Distyrylbenzene[2.2]paracyclophanes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6329-6338.	1.1	24
371	Nonlinear spectroscopy with time- and frequency-gated photon counting: A superoperator diagrammatic approach. <i>Physical Review A</i> , 2012, 86, .	1.0	24
372	Weak Exciton Scattering in Molecular Nanotubes Revealed by Double-Quantum Two-Dimensional Electronic Spectroscopy. <i>Physical Review Letters</i> , 2012, 108, 067401.	2.9	24
373	Two-photon spectroscopy of excitons with entangled photons. <i>Journal of Chemical Physics</i> , 2013, 139, 244110.	1.2	24
374	Polariton-Assisted Cooperativity of Molecules in Microcavities Monitored by Two-Dimensional Infrared Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4448-4454.	2.1	24
375	Quantum phase-sensitive diffraction and imaging using entangled photons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11673-11678.	3.3	24
376	Note on superradiance of excitonic molecules. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 147, 155-160.	0.9	23
377	Path integral formulation of retardation effects in nonlinear optics. <i>Journal of Chemical Physics</i> , 1994, 100, 2953-2974.	1.2	23
378	The coupled electronic oscillators vs the sum-over-states pictures for the optical response of octatetraene. <i>Journal of Chemical Physics</i> , 1996, 104, 5406-5414.	1.2	23

#	ARTICLE	IF	CITATIONS
379	Density-matrix-spectroscopic algorithm for excited-state adiabatic surfaces and molecular dynamics of a protonated Schiff base. <i>Journal of Chemical Physics</i> , 1999, 110, 8328-8337.	1.2	23
380	Ground-state density-matrix algorithm for excited-state adiabatic surfaces: application to polyenes. <i>Chemical Physics Letters</i> , 1999, 302, 77-84.	1.2	23
381	Electronic versus vibrational optical nonlinearities of push-pull polymers. <i>Chemical Physics Letters</i> , 2000, 319, 261-264.	1.2	23
382	Generalized coherent state representation of Bose-Einstein condensates. <i>Physical Review A</i> , 2003, 67, .	1.0	23
383	Many-body theory of current-induced fluorescence in molecular junctions. <i>Physical Review B</i> , 2006, 73, .	1.1	23
384	Simulation and visualization of attosecond stimulated x-ray Raman spectroscopy signals in trans-N-methylacetamide at the nitrogen and oxygen K-edges. <i>Journal of Chemical Physics</i> , 2011, 134, 124101.	1.2	23
385	Multidimensional x-ray spectroscopy of valence and core excitations in cysteine. <i>Journal of Chemical Physics</i> , 2013, 138, 144303.	1.2	23
386	Tracking Conformational Dynamics of Polypeptides by Nonlinear Electronic Spectroscopy of Aromatic Residues: A First-Principles Simulation Study. <i>ChemPhysChem</i> , 2014, 15, 3282-3290.	1.0	23
387	Energy flow between spectral components in 2D broadband stimulated Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10454-10461.	1.3	23
388	Communication: The origin of many-particle signals in nonlinear optical spectroscopy of non-interacting particles. <i>Journal of Chemical Physics</i> , 2016, 145, 041102.	1.2	23
389	Manipulating Impulsive Stimulated Raman Spectroscopy with a Chirped Probe Pulse. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 966-974.	2.1	23
390	Photoinduced molecular chirality probed by ultrafast resonant X-ray spectroscopy. <i>Structural Dynamics</i> , 2017, 4, 044006.	0.9	23
391	Multidimensional photon correlation spectroscopy of cavity polaritons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1451-1456.	3.3	23
392	Towards Accurate Simulation of Two-Dimensional Electronic Spectroscopy. <i>Topics in Current Chemistry</i> , 2018, 376, 24.	3.0	23
393	Hong-Ou-Mandel interferometry and spectroscopy using entangled photons. <i>Communications Physics</i> , 2021, 4, .	2.0	23
394	Reduced Equations of Motion for Molecular Multiphoton Processes. <i>Physical Review Letters</i> , 1979, 42, 168-171.	2.9	22
395	Optical response of conjugated polyenes. Electrons, holes and intermediate excitons. <i>Chemical Physics Letters</i> , 1992, 192, 417-424.	1.2	22
396	Generalized sum rules for optical nonlinearities of many-electron systems. <i>Journal of Chemical Physics</i> , 1995, 103, 7640-7644.	1.2	22

#	ARTICLE	IF	CITATIONS
397	Coherent Three-Pulse Spectroscopy of Coupled Vibrations in a Rigid Dipeptide: A Density Functional Theory Simulations. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5967-5985.	1.2	22
398	All-forward semiclassical simulations of nonlinear response functions. <i>Journal of Chemical Physics</i> , 2004, 121, 36.	1.2	22
399	Reaction operators for the relative coordinates treatment of atom-diatom collinear collisions. <i>Molecular Physics</i> , 1976, 31, 1-22.	0.8	21
400	Spectral lineshapes of molecular clusters. <i>Chemical Physics Letters</i> , 1984, 107, 239-244.	1.2	21
401	Nonlinear optical response in condensed phases: A microscopic theory using the multipolar Hamiltonian. <i>Physical Review A</i> , 1990, 41, 3812-3821.	1.0	21
402	Quasiparticle exciton representation of frequency dispersed optical nonlinearities of conjugated polyenes. <i>Journal of Chemical Physics</i> , 1992, 97, 8019-8036.	1.2	21
403	Probing exciton dynamics using Raman resonances in femtosecond x-ray four-wave mixing. <i>Physical Review A</i> , 2003, 67, .	1.0	21
404	Quasiparticle density-matrix representation of nonlinear time-dependent density-functional response functions. <i>Physical Review A</i> , 2003, 67, .	1.0	21
405	Ligand effects on the X-ray absorption of a nickel porphyrin complex: a simulation study. <i>Chemical Physics</i> , 2004, 299, 225-231.	0.9	21
406	Stochastic Liouville Equations for Coherent Multidimensional Spectroscopy of Excitons. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14212-14220.	1.2	21
407	Probing Multiple Core-Hole Interactions in the Nitrogen K-Edge of DNA Base Pairs by Multidimensional Attosecond X-ray Spectroscopy. A Simulation Study. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11449-11461.	1.1	21
408	Bidimensional electronic spectroscopy on indole in gas phase and in water from first principles. <i>Computational and Theoretical Chemistry</i> , 2014, 1040-1041, 295-303.	1.1	21
409	Microscopic theory of the transient grating experiment. <i>Journal of Chemical Physics</i> , 1985, 83, 4353-4359.	1.2	20
410	Extra resonances in four-wave mixing as a probe of exciton dynamics: The steady-state analog of the transient grating. <i>Journal of Chemical Physics</i> , 1986, 84, 1228-1242.	1.2	20
411	Intramolecular dephasing and vibrational redistribution in the dispersed fluorescence of ultracold molecules: Application to anthracene. <i>Journal of Chemical Physics</i> , 1987, 87, 2021-2035.	1.2	20
412	Coherent control of cross-peaks in chirality-induced two-dimensional optical signals of excitons. <i>Journal of Chemical Physics</i> , 2006, 125, 224504.	1.2	20
413	Probing molecular chirality via excitonic nonlinear response. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 5051-5066.	0.6	20
414	Geometry and excitation energy fluctuations of NMA in aqueous solution with CHARMM, AMBER, OPLS, and GROMOS force fields: Implications for protein ultraviolet spectra simulation. <i>Chemical Physics Letters</i> , 2008, 452, 78-83.	1.2	20



#	ARTICLE	IF	CITATIONS
415	Single-Electron Counting Spectroscopy: Simulation Study of Porphyrin in a Molecular Junction. Nano Letters, 2008, 8, 1137-1141.	4.5	20
416	A unified description of sum frequency generation, parametric down conversion and two-photon fluorescence. Molecular Physics, 2009, 107, 265-280.	0.8	20
417	Investigation of electronic coupling in semiconductor double quantum wells using coherent optical two-dimensional Fourier transform spectroscopy. Solid State Communications, 2009, 149, 361-366.	0.9	20
418	Simulation of Two-Dimensional Ultraviolet Spectroscopy of Amyloid Fibrils. Journal of Physical Chemistry B, 2010, 114, 12150-12156.	1.2	20
419	Collective two-particle resonances induced by photon entanglement. Physical Review A, 2011, 83, .	1.0	20
420	Time Resolved Photoelectron Spectroscopy of Thioflavin T Photoisomerization: A Simulation Study. Journal of Physical Chemistry A, 2013, 117, 6096-6104.	1.1	20
421	Probing electronic and vibrational dynamics in molecules by time-resolved photoelectron, Auger-electron, and X-ray photon scattering spectroscopy. Faraday Discussions, 2015, 177, 405-428.	1.6	20
422	First Principles Nonadiabatic Excited-State Molecular Dynamics in NWChem. Journal of Chemical Theory and Computation, 2020, 16, 6418-6427.	2.3	20
423	Investigations of Molecular Optical Properties Using Quantum Light and Hongâ€™Ouâ€™Mandel Interferometry. Journal of the American Chemical Society, 2021, 143, 9070-9081.	6.6	20
424	Sequential decay involving multiple continua. Molecular Physics, 1974, 27, 1543-1552.	0.8	19
425	Semiclassical calculation of electronic spectra of supercooled anharmonic molecules. Journal of Chemical Physics, 1983, 78, 7498-7500.	1.2	19
426	Exciton Coherence and Electron Energy Loss Spectroscopy of Conjugated Molecules. Physical Review Letters, 2001, 86, 995-998.	2.9	19
427	Multiple quantum coherences in liquid state NMR and nonlinear optics: collective vs local origin. Chemical Physics Letters, 2002, 357, 327-335.	1.2	19
428	Conformations and Photophysics of a Stilbene Dimerâ€™. Journal of Physical Chemistry A, 2003, 107, 8029-8034.	1.1	19
429	Semiclassical mode-coupling factorizations of coherent nonlinear optical response. Journal of Chemical Physics, 2003, 119, 7979-7987.	1.2	19
430	Many-body effects in molecular photoionization in intense laser fields; time-dependent Hartreeâ€™Fock simulations. Journal of Chemical Physics, 2004, 120, 669-676.	1.2	19
431	Time-domain chirally-sensitive three-pulse coherent probes of vibrational excitons in proteins. Chemical Physics, 2005, 318, 50-70.	0.9	19
432	Controlling stimulated coherent spectroscopy and microscopy by a position-dependent phase. Physical Review A, 2013, 87, .	1.0	19

#	ARTICLE	IF	CITATIONS
433	Detecting electronic coherence by multidimensional broadband stimulated x-ray Raman signals. <i>Physical Review A</i> , 2015, 92, .	1.0	19
434	X-ray linear and non-linear spectroscopy of the ESCA molecule. <i>Journal of Chemical Physics</i> , 2019, 151, 114110.	1.2	19
435	Comment on nonstatistical behavior in laser chemistry and chemical activation. <i>Journal of Chemical Physics</i> , 1977, 66, 5235-5236.	1.2	18
436	Line broadening in a strong radiation field: Application to electron-phonon systems. <i>Journal of Chemical Physics</i> , 1980, 73, 5322-5329.	1.2	18
437	The interplay between coherent and stochastic effects in deeply inelastic collisions of heavy ions. <i>Nuclear Physics A</i> , 1981, 366, 339-364.	0.6	18
438	Anharmonic molecular spectra—self-consistent mode coupling, nonlinear maps, and quantum chaos. <i>Journal of Chemical Physics</i> , 1983, 79, 5457-5468.	1.2	18
439	Criterion for the observation of the critical contribution to vibrational bands in fluids. <i>Journal of Chemical Physics</i> , 1984, 80, 6328-6329.	1.2	18
440	Quantum transport and localization in disordered media: Liouville space dynamics with frequency-dependent dephasing. <i>Chemical Physics</i> , 1988, 128, 99-123.	0.9	18
441	Optical properties of Wannier excitons in the linear and weakly nonlinear regime. <i>Physical Review B</i> , 1990, 42, 2959-2976.	1.1	18
442	Semiclassical Green function calculation of four wave mixing in polarizable clusters and liquids. <i>Journal of Chemical Physics</i> , 1994, 101, 7388-7398.	1.2	18
443	Photophysical Probes of a Protein/Semiconductor Electrode Interface. <i>Journal of the American Chemical Society</i> , 1995, 117, 546-547.	6.6	18
444	Collective Electronic Oscillators for Second-Order Polarizabilities of Push~Pull Carotenoids. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5692-5703.	1.1	18
445	Self-consistent density matrix algorithm for electronic structure and excitations of molecules and aggregates. <i>Journal of Chemical Physics</i> , 2003, 119, 12194-12204.	1.2	18
446	Coherent Two Dimensional Infrared Spectroscopy of a Cyclic Decapeptide Antamanide. A Simulation Study of the Amide-I and A Bands. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12479-12490.	1.2	18
447	Monitoring Long-Range Electron Transfer Pathways in Proteins by Stimulated Attosecond Broadband X-ray Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3656-3661.	2.1	18
448	A continued fraction resummation form of bath relaxation effect in the spin-boson model. <i>Journal of Chemical Physics</i> , 2015, 142, 084103.	1.2	18
449	Study of double core hole excitations in molecules by X-ray double-quantum-coherence signals: a multi-configuration simulation. <i>Chemical Science</i> , 2016, 7, 5922-5933.	3.7	18
450	X-ray Raman optical activity of chiral molecules. <i>Chemical Science</i> , 2019, 10, 898-908.	3.7	18

#	ARTICLE	IF	CITATIONS
451	Polariton ring currents and circular dichroism of Mg-porphyrin in a chiral cavity. <i>Chemical Science</i> , 2022, 13, 1037-1048.	3.7	18
452	Collision broadening in two-photon spectroscopy. <i>Physical Review A</i> , 1976, 13, 1402-1410.	1.0	17
453	Franck-Condon approach to collisional dephasing of spectral lines in liquids. <i>Journal of Chemical Physics</i> , 1982, 76, 834-842.	1.2	17
454	Nonimpact theory of resonance Raman line shapes in strong radiation fields. <i>Physical Review A</i> , 1982, 26, 341-355.	1.0	17
455	Theory of carrier motion in dynamically disordered systems. <i>Journal of Chemical Physics</i> , 1987, 86, 2249-2263.	1.2	17
456	Time-dependent self-consistent field approximation for semiclassical dynamics using gaussian wavepackets in phase space. <i>Chemical Physics Letters</i> , 1987, 134, 291-295.	1.2	17
457	Optical activity of electronically delocalized molecular aggregates: Nonlocal response formulation. <i>Journal of Chemical Physics</i> , 1996, 105, 7995-8010.	1.2	17
458	Electronic-oscillator analysis of femtosecond four-wave mixing in conjugated polyenes. <i>Physical Review B</i> , 1997, 55, 4960-4977.	1.1	17
459	Nonlinear optical response functions for a chromophore with linear and quadratic electron-vibration coupling. <i>Journal of Chemical Physics</i> , 1999, 110, 1017-1024.	1.2	17
460	Stacking Effect of Polyfluorene on the Chemical Shift and Electron Transport. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2686-2692.	1.2	17
461	Dephasing-Induced Vibronic Resonances in Difference Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8132-8143.	1.2	17
462	Partially-time-ordered Schwinger-Keldysh loop expansion of coherent nonlinear optical susceptibilities. <i>Physical Review A</i> , 2008, 77, .	1.0	17
463	Two-dimensional stimulated resonance Raman spectroscopy study of the Trp-cage peptide folding. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19457.	1.3	17
464	Double-core excitations in formamide can be probed by X-ray double-quantum-coherence spectroscopy. <i>Journal of Chemical Physics</i> , 2013, 138, 144301.	1.2	17
465	Multidimensional spectroscopy with entangled light: loop vs ladder delay scanning protocols. <i>New Journal of Physics</i> , 2014, 16, 033013.	1.2	17
466	Nonlinear response theory in chemical kinetics. <i>Journal of Chemical Physics</i> , 2014, 140, 034111.	1.2	17
467	Stimulated Raman signals at conical intersections: <i>Ab initio</i> surface hopping simulation protocol with direct propagation of the nuclear wave function. <i>Journal of Chemical Physics</i> , 2015, 143, 044117.	1.2	17
468	Non-linear non-local molecular electrodynamics with nano-optical fields. <i>Journal of Chemical Physics</i> , 2015, 143, 164107.	1.2	17

#	ARTICLE	IF	CITATIONS
469	Tunable photonic cavity coupled to a voltage-biased double quantum dot system: Diagrammatic nonequilibrium Green's function approach. <i>Physical Review B</i> , 2016, 94, .	1.1	17
470	Femtosecond covariance spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5383-5386.	3.3	17
471	Conical Intersection Passages of Molecules Probed by X-ray Diffraction and Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12300-12309.	2.1	17
472	Reduced equations of motion for collision-induced intersystem crossing. <i>Chemical Physics Letters</i> , 1979, 60, 310-314.	1.2	16
473	Dressed-cluster and hydrodynamic expansions for line broadening in simple fluids. <i>Physical Review A</i> , 1982, 26, 617-630.	1.0	16
474	Self-consistent mode-coupling theory of quantum percolation. <i>Physical Review B</i> , 1986, 33, 7708-7714.	1.1	16
475	The optical dielectric function of polarizable liquids. <i>Journal of Chemical Physics</i> , 1993, 99, 6062-6070.	1.2	16
476	Cooperative ultrafast nonlinear optical response of molecular nanostructures. <i>Journal of Chemical Physics</i> , 1994, 100, 2465-2480.	1.2	16
477	Density-matrix "electronic-oscillator representation of optical spectroscopy of semiconductor nanocrystals. <i>Journal of Chemical Physics</i> , 1997, 106, 3837-3853.	1.2	16
478	Multidimensional attosecond photoelectron spectroscopy with shaped pulses and quantum optical fields. <i>Physical Review A</i> , 2010, 81, .	1.0	16
479	Three-dimensional attosecond resonant stimulated X-ray Raman spectroscopy of electronic excitations in core-ionized glycine. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24323-24331.	1.3	16
480	Wigner "Lindblad Equations for Quantum Friction. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1632-1637.	2.1	16
481	Attosecond X-ray Diffraction Triggered by Core or Valence Ionization of a Dipeptide. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 329-338.	2.3	16
482	Monitoring molecular vibronic coherences in a bichromophoric molecule by ultrafast X-ray spectroscopy. <i>Chemical Science</i> , 2021, 12, 5286-5294.	3.7	16
483	Machine learning recognition of protein secondary structures based on two-dimensional spectroscopic descriptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2202713119.	3.3	16
484	Isotope effects in photofragmentation of linear triatomics. <i>Chemical Physics Letters</i> , 1977, 45, 211-216.	1.2	15
485	Charge "transfer excitons and $\tilde{\nu}(2)$ of molecular monolayers. <i>Journal of Chemical Physics</i> , 1992, 96, 9201-9211.	1.2	15
486	Intermolecular electronic coherences and local field effects in optical spectra of PPV-oligomer dimers. <i>Chemical Physics</i> , 1996, 210, 171-193.	0.9	15

#	ARTICLE	IF	CITATIONS
487	Real space analysis of the nonlocal optical response of PPV oligomers. Journal of Chemical Physics, 1996, 104, 7086-7098.	1.2	15
488	Real-space analysis of electronic excitations in free-base (H2P) and magnesium (MgP) porphins. Chemical Physics Letters, 1998, 297, 357-364.	1.2	15
489	Pump-Probe Simulation Study of the Two-Exciton Manifold of Dendrimers. Journal of Physical Chemistry A, 2002, 106, 7521-7529.	1.1	15
490	Cooperative effects in photon statistics of molecular dimers with spectral diffusion. Journal of Chemical Physics, 2006, 124, 124103.	1.2	15
491	Time-Frequency and Coordinate-Momentum Wigner Wavepackets in Nonlinear Spectroscopy. Advances in Chemical Physics, 2007, , 345-372.	0.3	15
492	Probing interactions between core-electron transitions by ultrafast two-dimensional x-ray coherent correlation spectroscopy. Journal of Chemical Physics, 2008, 128, 184307.	1.2	15
493	Background-Free Nonlinear Microspectroscopy with Vibrational Molecular Interferometry. Physical Review Letters, 2011, 107, 253902.	2.9	15
494	Reconstruction of the wave functions of coupled nanoscopic emitters using a coherent optical technique. Physical Review B, 2012, 86, .	1.1	15
495	Preface: Special Topic on Multidimensional Spectroscopy. Journal of Chemical Physics, 2015, 142, 212101.	1.2	15
496	Two-Dimensional Impulsively Stimulated Resonant Raman Spectroscopy of Molecular Excited States. Physical Review X, 2020, 10, .	2.8	15
497	Unveiling the spatial distribution of molecular coherences at conical intersections by covariance X-ray diffraction signals. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
498	An Ab Initio Multiple Cloning Method for Non-Adiabatic Excited-State Molecular Dynamics in NWChem. Journal of Chemical Theory and Computation, 2021, 17, 3629-3643.	2.3	15
499	Interference effects in directional photodissociation. Chemical Physics Letters, 1974, 29, 169-173.	1.2	14
500	On the theory of unimolecular reactions: Application of mean first passage time to reaction rates. Journal of Chemical Physics, 1978, 68, 3244-3253.	1.2	14
501	Real-space coupled-oscillator approach to the radiative decay of conjugated polymers. Physical Review B, 1995, 52, 2528-2538.	1.1	14
502	Femtosecond pump-probe spectroscopy of intermolecular vibrations in molecular dimers. Journal of Chemical Physics, 1995, 103, 1981-1984.	1.2	14
503	Quadratic Brownian-oscillator model for solvation dynamics in optical response. Journal of Chemical Physics, 2001, 114, 10430-10435.	1.2	14
504	Real Space Analysis of Excitonic Interactions and Coherence Length in Helical Aggregates. Journal of Physical Chemistry A, 2002, 106, 3524-3530.	1.1	14

#	ARTICLE	IF	CITATIONS
505	Time-resolved x-ray Raman spectroscopy of photoexcited polydiacetylene oligomer: A simulation study. <i>Journal of Chemical Physics</i> , 2003, 118, 3065-3078.	1.2	14
506	Exciton dynamics in a disordered conjugated polymer: Three-pulse photon-echo and transient grating experiments. <i>Chemical Physics</i> , 2008, 349, 244-249.	0.9	14
507	Chirality-Based Signatures of Local Protein Environments in Two-Dimensional Optical Spectroscopy of Two Species Photosynthetic Complexes of Green Sulfur Bacteria: Simulation Study. <i>Biophysical Journal</i> , 2008, 95, 4896-4907.	0.2	14
508	Deep UV Resonance Raman Spectroscopy of $\beta$ -Sheet Amyloid Fibrils: A QM/MM Simulation. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13955-13962.	1.2	14
509	Multidimensional measures of response and fluctuations in stochastic dynamical systems. <i>Physical Review A</i> , 2012, 86, .	1.0	14
510	Photon statistics of intense entangled photon pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 175502.	0.6	14
511	Nonlinear spectroscopy of trapped ions. <i>Physical Review A</i> , 2014, 90, .	1.0	14
512	Minimal Model of Quantum Kinetic Clusters for the Energy-Transfer Network of a Light-Harvesting Protein Complex. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1240-1245.	2.1	14
513	Giant photon gain in large-scale quantum dot-circuit QED systems. <i>Physical Review B</i> , 2016, 94, .	1.1	14
514	The highly excited-state manifold of guanine: calibration for nonlinear electronic spectroscopy simulations. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	0.5	14
515	Two-dimensional electronic spectroscopy as a tool for tracking molecular conformations in DNA/RNA aggregates. <i>Faraday Discussions</i> , 2018, 207, 233-250.	1.6	14
516	Signatures of electronic and nuclear coherences in ultrafast molecular x-ray and electron diffraction. <i>Structural Dynamics</i> , 2021, 8, 014101.	0.9	14
517	<sc>iSPECTRON</sc>: A simulation interface for linear and nonlinear spectra with ab-initio quantum chemistry software. <i>Journal of Computational Chemistry</i> , 2021, 42, 644-659.	1.5	14
518	Transport of excitations in disordered systems: Self-consistent density resummation. <i>Physical Review B</i> , 1984, 30, 4426-4440.	1.1	13
519	Anharmonic oscillator representation of nonlinear optical susceptibilities of a charged soliton, a neutral soliton, and a polaron in conjugated polymers. <i>Journal of Chemical Physics</i> , 1995, 103, 7144-7155.	1.2	13
520	Two-Exciton Collective Photon Echoes in Disordered Molecular Nanostructures. <i>Physical Review Letters</i> , 1995, 74, 4895-4898.	2.9	13
521	Linear and nonlinear optical response of dimethyl-amino-nitro-stilbene (DANS): coupled oscillator representation versus sum-over-states picture. <i>Chemical Physics</i> , 1996, 210, 353-366.	0.9	13
522	Electronic Structure-Factor, Density Matrices, and Electron Energy Loss Spectroscopy of Conjugated Oligomers. <i>Journal of Physical Chemistry A</i> , 2001, 105, 1988-2004.	1.1	13

#	ARTICLE	IF	CITATIONS
523	Multidimensional spectroscopic probes of single molecule fluctuations. <i>Journal of Chemical Physics</i> , 2002, 117, 9465-9477.	1.2	13
524	Coherent femtosecond multidimensional probes of molecular vibrations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13717-13718.	3.3	13
525	Manipulating stimulated coherent anti-Stokes Raman spectroscopy signals by broad-band and narrow-band pulses. <i>Journal of Chemical Physics</i> , 2009, 131, 194510.	1.2	13
526	Interplay of slow bath fluctuations and energy transfer in 2D spectroscopy of the FMOLight-harvesting complex: benchmarking of simulation protocols. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 108-114.	1.3	13
527	The proton momentum distribution in strongly H-bonded phases of water: A critical test of electrostatic models. <i>Journal of Chemical Physics</i> , 2011, 135, 144502.	1.2	13
528	Geometry determination of complexes in a molecular liquid mixture using electronâ€“vibrationâ€“vibration two-dimensional infrared spectroscopy with a vibrational transition density cube method. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14023.	1.3	13
529	Photon coincidence counting in parametric down-conversion: Interference of field-matter quantum pathways. <i>Physical Review A</i> , 2012, 86, .	1.0	13
530	Signatures of the Protein Folding Pathway in Two-Dimensional Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1341-1346.	2.1	13
531	On the Simulation of Twoâ€“dimensional Electronic Spectroscopy of Indoleâ€“containing Peptides. <i>Photochemistry and Photobiology</i> , 2017, 93, 1368-1380.	1.3	13
532	Hybrid femtosecond/picosecond pureâ€“rotational coherent antiâ€“Stokes Raman scattering with chirped probe pulses. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1881-1886.	1.2	13
533	Phase Cycling RT-TDDFT Simulation Protocol for Nonlinear XUV and X-ray Molecular Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1072-1078.	2.1	13
534	STM Imaging of Electron Migration in Real Space and Time: A Simulation Study. <i>Nano Letters</i> , 2019, 19, 7006-7012.	4.5	13
535	Manipulating Core Excitations in Molecules by X-Ray Cavities. <i>Physical Review Letters</i> , 2021, 126, 053201.	2.9	13
536	A Machine-Learning Protocol for Ultraviolet Protein-Backbone Absorption Spectroscopy under Environmental Fluctuations. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6171-6178.	1.2	13
537	Interferometric spectroscopy with quantum light: Revealing out-of-time-ordering correlators. <i>Journal of Chemical Physics</i> , 2021, 154, 210901.	1.2	13
538	Potential of the $A_1^1\Sigma_u^+$ state of He <sub>2</sub> . <i>Molecular Physics</i> , 1971, 22, 1107-1117.	0.8	12
539	Nonimpact theory of absorption line broadening in strong radiation fields. <i>Physical Review A</i> , 1982, 26, 271-281.	1.0	12
540	A pure-dephasing model for overtone lineshapes. <i>Chemical Physics Letters</i> , 1984, 108, 161-165.	1.2	12

#	ARTICLE	IF	CITATIONS
541	Anderson localization in Liouville space: The effective dephasing approximation. <i>Physical Review B</i> , 1988, 37, 1874-1883.	1.1	12
542	Radiative decay in semiconductor quantum dots at finite temperatures. <i>Chemical Physics Letters</i> , 1992, 189, 119-127.	1.2	12
543	Time-dependent density-matrix functional in Liouville space and the optical response of many-electron systems. <i>Physical Review A</i> , 1995, 52, 3601-3621.	1.0	12
544	Electronic screening in second order optical polarizabilities of elongated Donor/Acceptor polyenes. <i>Chemical Physics</i> , 1999, 245, 145-163.	0.9	12
545	First-Principles Simulation of Amide and Aromatic Side Chain Ultraviolet Spectroscopy of a Cyclic Dipeptide. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11579-11583.	1.1	12
546	Reversible Switching among Three Adsorbate Configurations in a Single [2.2]Paracyclophane-Based Molecule. <i>Nano Letters</i> , 2008, 8, 208-213.	4.5	12
547	Multidimensional optical spectroscopy of a single molecule in a current-carrying state. <i>Journal of Chemical Physics</i> , 2010, 133, 244106.	1.2	12
548	Probing Amyloid Fibril Growth by Two-Dimensional Near-Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6321-6328.	1.2	12
549	Resolving the Electron Transfer Kinetics in the Bacterial Reaction Center by Pulse Polarized 2-D Photon Echo Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1798-1805.	2.1	12
550	Tracking the Mechanism of Fibril Assembly by Simulated Two-Dimensional Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 342-350.	1.1	12
551	Multiple Core and Vibronic Coupling Effects in Attosecond Stimulated X-Ray Raman Spectroscopy. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5479-5489.	2.3	12
552	Cascading and local-field effects in non-linear optics revisited: A quantum-field picture based on exchange of photons. <i>Journal of Chemical Physics</i> , 2014, 140, 044313.	1.2	12
553	Coherent (photon) vs incoherent (current) detection of multidimensional optical signals from single molecules in open junctions. <i>Journal of Chemical Physics</i> , 2015, 142, 212445.	1.2	12
554	Stochastic Liouville equations for femtosecond stimulated Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 142, 024115.	1.2	12
555	Comment on "Self-Referenced Coherent Diffraction X-Ray Movie of Å...ngstrom- and Femtosecond-Scale Atomic Motion". <i>Physical Review Letters</i> , 2017, 119, 069301.	2.9	12
556	Stimulated X-ray Resonant Raman Spectroscopy of Conical Intersections in Thiophenol. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4292-4297.	2.1	12
557	Enhancing Circular Dichroism Signals with Vector Beams. <i>Physical Review Letters</i> , 2021, 126, 123001.	2.9	12
558	Excited-State Energy Surfaces in Molecules Revealed by Impulsive Stimulated Raman Excitation Profiles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9239-9247.	2.1	12



#	ARTICLE	IF	CITATIONS
559	Ultrafast Valence-Electron Dynamics in Oxazole Monitored by X-ray Diffraction Following a Stimulated X-ray Raman Excitation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9800-9806.	2.1	12
560	Imaging Purely Nuclear Quantum Dynamics in Molecules by Combined X-ray and Electron Diffraction. <i>Journal of the American Chemical Society</i> , 2022, 144, 7796-7804.	6.6	12
561	On the density expansion of spectral lineshapes. <i>Optics Communications</i> , 1982, 40, 421-424.	1.0	11
562	Phonon and fracton vibrational modes in disordered harmonic structures: A self-consistent theory. <i>Physical Review B</i> , 1986, 34, 6582-6585.	1.1	11
563	Self-consistent mode-coupling theory of electrical conductivity and incoherent excitation transport in disordered media. <i>Journal of Chemical Physics</i> , 1987, 86, 1323-1339.	1.2	11
564	Nonlocal electrodynamics of arrays of quantum dots. <i>Physical Review B</i> , 1995, 52, 1936-1947.	1.1	11
565	Bosonized squeezed-state coupled-cluster approach to electron correlations in nonlinear spectroscopy. <i>Journal of Chemical Physics</i> , 1999, 111, 4383-4396.	1.2	11
566	Simulation of conductance and current-induced fluorescence of conjugated chromophores. <i>Chemical Physics Letters</i> , 2007, 450, 144-150.	1.2	11
567	Quantum field, interference, and entanglement effects in nonlinear optical spectroscopy. <i>Procedia Chemistry</i> , 2011, 3, 132-151.	0.7	11
568	Coherent Control Protocol for Separating Energy-Transfer Pathways in Photosynthetic Complexes by Chiral Multidimensional Signals. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4624-4629.	1.1	11
569	Exploring the Aggregation Propensity of $\hat{I}^3S$ -Crystallin Protein Variants Using Two-Dimensional Spectroscopic Tools. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14294-14301.	1.2	11
570	2D optical photon echo spectroscopy of a self-assembled quantum dot. <i>Annalen Der Physik</i> , 2013, 525, 31-42.	0.9	11
571	Study of the $\hat{I}^3D$ -Crystallin Protein Using Two-Dimensional Infrared (2DIR) Spectroscopy: Experiment and Simulation. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15436-15443.	1.2	11
572	Frequency-domain stimulated and spontaneous light emission signals at molecular junctions. <i>Journal of Chemical Physics</i> , 2014, 141, 074107.	1.2	11
573	Electroluminescence in Molecular Junctions: A Diagrammatic Approach. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4304-4315.	2.3	11
574	Linear and nonlinear frequency- and time-domain spectroscopy with multiple frequency combs. <i>Journal of Chemical Physics</i> , 2017, 147, 094304.	1.2	11
575	Multidimensional four-wave mixing signals detected by quantum squeezed light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11
576	Soft X-ray Spectroscopy Simulations with Multiconfigurational Wave Function Theory: Spectrum Completeness, Sub-eV Accuracy, and Quantitative Reproduction of Line Shapes. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1003-1016.	2.3	11

#	ARTICLE	IF	CITATIONS
577	Quantum-beat spectroscopy with coherent and incoherent radiation fields. <i>Chemical Physics Letters</i> , 1984, 107, 398-404.	1.2	10
578	Femtosecond four wave mixing spectroscopy of conjugated polymers. <i>Journal of Chemical Physics</i> , 1993, 99, 1597-1606.	1.2	10
579	Radiative decay of topologically disordered excitons. <i>Journal of Chemical Physics</i> , 1993, 99, 3604-3613.	1.2	10
580	Nonlocal electrostatics of weakly confined excitons in semiconductor nanostructures. <i>Journal of Chemical Physics</i> , 1994, 101, 9719-9735.	1.2	10
581	Dominant electronic oscillators in the optical nonlinearities of conjugated polyenes. <i>Chemical Physics Letters</i> , 1995, 240, 296-303.	1.2	10
582	Complete Determination of Relaxation Parameters From Two-Dimensional Raman Spectroscopy. <i>Laser Chemistry</i> , 1999, 19, 109-116.	0.5	10
583	Simulation of frequency- and wave-vector-resolved femtosecond resonant x-ray emission of molecular chains. <i>Physical Review A</i> , 2001, 64, .	1.0	10
584	Infrared Signatures of Proton Transfer in Guanine-Cytosine and Adenine-Thymine Base Pairs: DFT Study. <i>Israel Journal of Chemistry</i> , 2004, 44, 185-191.	1.0	10
585	Anomalous lineshapes and aging effects in two-dimensional correlation spectroscopy. <i>Journal of Chemical Physics</i> , 2007, 127, 154107.	1.2	10
586	Conductance Bistability in a Single Porphyrin Molecule in a STM Junction: A Many-Body Simulation Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9516-9521.	1.5	10
587	Simulation of X-ray Absorption Near Edge Spectra of Organometallic Compounds in the Ground and Optically Excited States. <i>Journal of Physical Chemistry A</i> , 2007, 111, 805-816.	1.1	10
588	Controlling multidimensional off-resonant-Raman and infrared vibrational spectroscopy by finite pulse band shapes. <i>Journal of Chemical Physics</i> , 2009, 130, 054110.	1.2	10
589	Dissecting biexciton wave functions of self-assembled quantum dots by double-quantum-coherence optical spectroscopy. <i>Physical Review B</i> , 2012, 86, .	1.1	10
590	Nonlinear fluctuations and dissipation in matter revealed by quantum light. <i>Physical Review A</i> , 2015, 91, .	1.0	10
591	Two-Dimensional Near Ultraviolet (2DNUV) Spectroscopic Probe of Structural-Dependent Exciton Dynamics in a Protein. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1314-1322.	1.2	10
592	Time-and-frequency-gated photon coincidence counting; a novel multidimensional spectroscopy tool. <i>Physica Scripta</i> , 2016, 91, 083004.	1.2	10
593	Modeling the Ultrafast Response of Two-Magnon Raman Excitations in Antiferromagnets on the Femtosecond Timescale. <i>Annalen Der Physik</i> , 2019, 531, 1900439.	0.9	10
594	Multidimensional four-wave-mixing spectroscopy with squeezed light. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	10

#	ARTICLE	IF	CITATIONS
595	Selective Enhancement of Spectroscopic Features by Quantum Optimal Control. <i>Physical Review Letters</i> , 2021, 126, 163202.	2.9	10
596	Vibrational Hyper-Raman Molecular Spectroscopy with Entangled Photons. <i>ACS Photonics</i> , 2021, 8, 2722-2727.	3.2	10
597	Distinguishability and "which pathway" information in multidimensional interferometric spectroscopy with a single entangled photon-pair. <i>Science Advances</i> , 2021, 7, eabj4566.	4.7	10
598	Quantum vs classical calculation of nonlinear spectra—reduced dynamics and intramolecular entropy. <i>Journal of Chemical Physics</i> , 1983, 79, 2126-2133.	1.2	9
599	Coherence Domains in the Radiative Dynamics of Molecular Aggregates. <i>Molecular Crystals and Liquid Crystals</i> , 1991, 194, 331-336.	0.7	9
600	Exciton transport and degenerate four wave mixing in topologically disordered systems. <i>Journal of Chemical Physics</i> , 1993, 98, 5899-5911.	1.2	9
601	Electronic excitations of polyaniline; test of the independent chromophore approximation. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 2893-2903.	1.3	9
602	Chemical imaging of single 4,7,12,15-tetrakis[2.2]paracyclophane by spatially resolved vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2007, 127, 244711.	1.2	9
603	Trapping photon-dressed Dirac electrons in a quantum dot studied by coherent two dimensional photon echo spectroscopy. <i>Journal of Chemical Physics</i> , 2012, 136, 194106.	1.2	9
604	Nonlinear light scattering in molecules triggered by an impulsive x-ray Raman process. <i>Physical Review A</i> , 2013, 87, 53826.	1.0	9
605	Indistinguishability and correlations of photons generated by quantum emitters undergoing spectral diffusion. <i>Scientific Reports</i> , 2014, 4, 3996.	1.6	9
606	Non-local real-space analysis of chiral optical signals. <i>Chemical Science</i> , 2016, 7, 6824-6831.	3.7	9
607	Diffraction-Detected Sum Frequency Generation: Novel Ultrafast X-ray Probe of Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3392-3396.	2.1	9
608	Diffraction Imaging of Conical Intersections Amplified by Resonant Infrared Fields. <i>Journal of the American Chemical Society</i> , 2021, 143, 13806-13815.	6.6	9
609	Manipulating valence and core electronic excitations of a transition-metal complex using UV/Vis and X-ray cavities. <i>Chemical Science</i> , 2021, 12, 8088-8095.	3.7	9
610	Femtosecond X-ray Spectroscopy Directly Quantifies Transient Excited-State Mixed Valency. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 378-386.	2.1	9
611	Transport and percolation in disordered systems? A self-consistent time-local approach. <i>Journal of Statistical Physics</i> , 1984, 36, 677-686.	0.5	8
612	Spectroscopic investigations of the nonlinear response of poly (4-BCMU) films. <i>Chemical Physics Letters</i> , 1994, 228, 73-78.	1.2	8

#	ARTICLE	IF	CITATIONS
613	Level Correlations and Dephasing-Induced Resonances in Molecular Aggregates. <i>Physica Status Solidi (B): Basic Research</i> , 1995, 189, 67-73.	0.7	8
614	Intraband terahertz emission from coupled semiconductor quantum wells: A model study using the exciton representation. <i>Physical Review B</i> , 1999, 60, 2599-2609.	1.1	8
615	Quartic Interband Exciton Couplings in Pump-Probe Spectroscopy of Light Harvesting Complexes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10295-10300.	1.2	8
616	Computational studies on electron and proton transfer in phenol-imidazole-base triads. <i>Journal of Computational Chemistry</i> , 2010, 31, 393-402.	1.5	8
617	Photon entanglement signatures in difference-frequency-generation. <i>Optics Express</i> , 2009, 17, 1093.	1.7	8
618	Multidimensional scattering of attosecond x-ray pulses detected by photon-coincidence. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124037.	0.6	8
619	Understanding excitation energy transfer in metalloporphyrin heterodimers with different linkers, bonding structures, and geometries through stimulated X-ray Raman spectroscopy. <i>Journal of Modern Optics</i> , 2014, 61, 558-567.	0.6	8
620	Coherent control of long-range photoinduced electron transfer by stimulated X-ray Raman processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10001-10006.	3.3	8
621	Fluorescence spectroscopy of vibronic polaritons of molecular aggregates in optical microcavities. <i>Chemical Physics Letters</i> , 2017, 683, 653-657.	1.2	8
622	Stimulated X-ray Raman and Absorption Spectroscopy of Iron-Sulfur Dimers. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6664-6671.	2.1	8
623	Frequency-, Time-, and Wavevector-Resolved Ultrafast Incoherent Diffraction of Noisy X-ray Pulses. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5805-5814.	2.1	8
624	Stimulated X-ray Raman Imaging of Conical Intersections. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 33-39.	2.1	8
625	Interferometric two-photon-absorption spectroscopy with three entangled photons. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	8
626	High Temporal and Spectral Resolution of Stimulated X-Ray Raman Signals with Stochastic Free-Electron-Laser Pulses. <i>Physical Review X</i> , 2021, 11, .	2.8	8
627	Optical Cavity Manipulation and Nonlinear UV Molecular Spectroscopy of Conical Intersections in Pyrazine. <i>Journal of the American Chemical Society</i> , 2022, 144, 7758-7767.	6.6	8
628	Non-Markovian dephasing of two-level resonance fluorescence in a strong radiation field. <i>Physical Review A</i> , 1984, 29, 1914-1921.	1.0	7
629	Gauge invariant formulation of molecular electrodynamics and the multipolar Hamiltonian. <i>Chemical Physics</i> , 1995, 198, 133-143.	0.9	7
630	Excited-State Molecular Dynamics Simulations of Conjugated Oligomers Using the Electronic Density Matrix. <i>Journal of Physical Chemistry A</i> , 2001, 105, 7057-7071.	1.1	7

#	ARTICLE	IF	CITATIONS
631	Collective many-body resonances in condensed phase nonlinear spectroscopy. <i>Journal of Chemical Physics</i> , 2002, 116, 5007.	1.2	7
632	Probing Ring Currents in Mg-Porphyrins by Pump-Probe Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11095-11100.	1.1	7
633	Two-dimensional x-ray correlation spectroscopy of remote core states. <i>Structural Dynamics</i> , 2014, 1, 014101.	0.9	7
634	Resonant Stimulated X-ray Raman Spectroscopy of Mixed-Valence Manganese Complexes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5925-5931.	2.1	7
635	Photoisomerization transition state manipulation by entangled two-photon absorption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	7
636	Time-Resolved Optical Pump-Resonant X-ray Probe Spectroscopy of 4-Thiouracil: A Simulation Study. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 3075-3088.	2.3	7
637	Comment on: A quantum analog to the classical quasiperiodic motion. <i>Journal of Chemical Physics</i> , 1983, 78, 5843-5844.	1.2	6
638	Eigenstate-free calculation of Raman line shapes in anharmonic molecules. <i>Journal of Chemical Physics</i> , 1985, 82, 5291-5292.	1.2	6
639	Optical Stark spectroscopy of molecular aggregates. <i>Journal of Chemical Physics</i> , 1996, 104, 5415-5423.	1.2	6
640	Communication: Atomic force detection of single-molecule nonlinear optical vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 161107.	1.2	6
641	Utilizing Microcavities To Suppress Third-Order Cascades in Fifth-Order Raman Spectra. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3387-3391.	2.1	6
642	Impulsive UV-pump/X-ray probe study of vibrational dynamics in glycine. <i>Scientific Reports</i> , 2018, 8, 15466.	1.6	6
643	Electrical Double Layer Probed by Surface-Specific Vibrational Technique. <i>CheM</i> , 2018, 4, 1484-1485.	5.8	6
644	Flux-Conserving Diagrammatic Formulation of Optical Spectroscopy of Open Quantum Systems. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29015-29023.	1.5	6
645	Monitoring aromatic ring-currents in Mg-porphyrin by time-resolved circular dichroism. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26605-26613.	1.3	6
646	Ultrafast spectroscopy and diffraction from XUV to x-ray. <i>Journal of Chemical Physics</i> , 2020, 153, 100401.	1.2	6
647	In Silico Ultrafast Nonlinear Spectroscopy Meets Experiments: The Case of Perylene Bisimide Dye. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7134-7145.	2.3	6
648	Nonlinear quantum interferometric spectroscopy with entangled photon pairs. <i>Journal of Chemical Physics</i> , 2022, 156, 094202.	1.2	6

#	ARTICLE	IF	CITATIONS
649	Quantum Susceptibilities in Time-Domain Sampling of Electric Field Fluctuations. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	6
650	Electronic coherences in nonadiabatic molecular photophysics revealed by time-resolved photoelectron spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121383119.	3.3	6
651	Femtosecond four-wave-mixing spectroscopy of interacting magnetoexcitons in semiconductor quantum wells. <i>Physical Review B</i> , 1999, 59, 12584-12597.	1.1	5
652	Coherent manipulation of quadrupole biexcitons in cuprous oxide by 2D femtosecond spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 435-447.	0.7	5
653	Probing chirality fluctuations in molecules by nonlinear optical spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 141, 234305.	1.2	5
654	Multidimensional spectroscopy with a single broadband phase-shaped laser pulse. <i>Journal of Chemical Physics</i> , 2014, 140, 144105.	1.2	5
655	Matter correlations induced by coupling to quantum light. <i>Physical Review A</i> , 2014, 89, .	1.0	5
656	Characterizing the Intermediates Compound I and II in the Cytochrome P450 Catalytic Cycle with Nonlinear X-ray Spectroscopy: A Simulation Study. <i>ChemPhysChem</i> , 2015, 16, 2006-2014.	1.0	5
657	Multidimensional characterization of stochastic dynamical systems based on multiple perturbations and measurements. <i>Journal of Chemical Physics</i> , 2015, 142, 212430.	1.2	5
658	Current vs Charge Density Contributions to Nonlinear X-ray Spectroscopy. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3959-3968.	2.3	5
659	Monitoring Ultrafast Spin Crossover Intermediates in an Iron(II) Complex by Broad Band Stimulated X-ray Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6524-6531.	1.1	5
660	Resonant X-ray Sum-Frequency-Generation Spectroscopy of K-Edges in Acetyl Fluoride. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6832-6839.	2.3	5
661	Monitoring Spontaneous Charge-Density Fluctuations by Single-Molecule Diffraction of Quantum Light. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 768-773.	2.1	5
662	Scattering-Based Geometric Shaping of Photon-Photon Interactions. <i>Physical Review Letters</i> , 2019, 123, 260502.	2.9	5
663	Nonadiabatic Molecular Dynamics Study of the Relaxation Pathways of Photoexcited Cyclooctatetraene. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5716-5722.	2.1	5
664	Coupled Electronic and Nuclear Motions during Azobenzene Photoisomerization Monitored by Ultrafast Electron Diffraction. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 605-613.	2.3	5
665	Ultrafast coherent photoexcited dynamics in a trimeric dendrimer probed by X-ray stimulated-Raman signals. <i>Chemical Science</i> , 2022, 13, 6373-6384.	3.7	5
666	Self-consistent mode-coupling theory of excitation transport with long-range transfer rates in solution. <i>Journal of Chemical Physics</i> , 1987, 86, 6419-6424.	1.2	4

#	ARTICLE	IF	CITATIONS
667	Time and frequency resolved luminescence from excitonic nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 1995, 188, 275-284.	0.7	4
668	Off-Resonant Electronic and Vibrational Molecular Polarizabilities. Time-Dependent Collective-Oscillator Expansion. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4263-4271.	1.1	4
669	Coherent-control of linear signals: Frequency-domain analysis. <i>Journal of Chemical Physics</i> , 2013, 139, 164113.	1.2	4
670	Photon-exchange induces optical nonlinearities in harmonic systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 065401.	0.6	4
671	Time and frequency resolved transient-absorption and stimulated-Raman signals of stochastic light. <i>Journal of Chemical Physics</i> , 2019, 151, 044113.	1.2	4
672	Imaging of transition charge densities involving carbon core excitations by all X-ray sum-frequency generation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20170470.	1.6	4
673	Imaging electron-density fluctuations by multidimensional X-ray photon-coincidence diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 395-400.	3.3	4
674	Towards Accurate Simulation of Two-Dimensional Electronic Spectroscopy. <i>Topics in Current Chemistry Collections</i> , 2019, , 63-112.	0.2	4
675	Chiral Four-Wave Mixing Signals with Circularly Polarized X-ray Pulses. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5784-5791.	2.3	4
676	Detection of photon statistics and multimode field correlations by Raman processes. <i>Journal of Chemical Physics</i> , 2021, 154, 104116.	1.2	4
677	Modulating Charge Separation and Intersystem Crossing in Donor-Switch-Acceptor Systems: A Computational Study. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3088-3094.	1.1	4
678	Time-dependent simulation of photocurrent-detected two-dimensional spectroscopy of open systems. <i>Journal of Chemical Physics</i> , 2021, 155, 194113.	1.2	4
679	Monitoring Wavepacket Dynamics at Conical Intersections by Entangled Two-Photon Absorption. <i>ACS Photonics</i> , 2022, 9, 1889-1894.	3.2	4
680	Unique Signatures of Topological Phases in Two-Dimensional THz Spectroscopy. <i>Physical Review Letters</i> , 2022, 129, .	2.9	4
681	On the dynamics of excitations in disordered systems. <i>Journal of Statistical Physics</i> , 1983, 30, 179-184.	0.5	3
682	Exciton confinement and nonlocal nonlinear optical response of organic quantum wells. <i>Physical Review B</i> , 1994, 49, 17079-17091.	1.1	3
683	Optical Absorption of Long Range Electron Transfer Systems in Intense Fields. <i>Journal of the Chinese Chemical Society</i> , 2000, 47, 615-623.	0.8	3
684	Quantum quadratic brownian oscillator model for absorption lineshapes. <i>Israel Journal of Chemistry</i> , 2002, 42, 143-149.	1.0	3

#	ARTICLE	IF	CITATIONS
685	Two-Photon-Coincidence Fluorescence Spectra of Cavity Multipolaritons: Novel Signatures of Multiexciton Generation. <i>Nano Letters</i> , 2010, 10, 4253-4259.	4.5	3
686	Zeeman shift of two-dimensional optical signals of Mg-porphyrin dimers with circularly polarized beams. <i>Journal of Chemical Physics</i> , 2012, 137, 205102.	1.2	3
687	Discriminating cascading processes in nonlinear optics: A QED analysis based on their molecular and geometric origin. <i>Physical Review A</i> , 2017, 95, .	1.0	3
688	Translational and rotational averaging of nonlocal response tensors for nano-shaped light. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 034004.	0.6	3
689	Carrier-Envelope-Phase Modulated Currents in Scanning Tunneling Microscopy. <i>Nano Letters</i> , 2021, 21, 6569-6575.	4.5	3
690	Entangled two-photon absorption with Brownian-oscillator fluctuations. <i>Journal of Chemical Physics</i> , 2022, 156, 074303.	1.2	3
691	Wave Packet Control and Simulation Protocol for Entangled Two-Photon Absorption of Molecules. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 406-414.	2.3	3
692	Mechanical response functions of finite-temperature Bose-Einstein condensates. <i>Physical Review A</i> , 2003, 67, .	1.0	2
693	Generalized coherent-state derivation of time-dependent density-functional theory equations for superconductors. <i>Physical Review B</i> , 2003, 68, .	1.1	2
694	Reduced Equations of Motion for Molecular Lineshapes and Semiclassical Dynamics in Liouville Space. <i>Advances in Chemical Physics</i> , 2007, , 579-604.	0.3	2
695	Signatures of carrier multiplication in the frequency resolved fluorescence spectra from polaritons. <i>Journal of Modern Optics</i> , 2010, 57, 2009-2019.	0.6	2
696	Relaxation processes in systems strongly coupled to a harmonic bath. <i>Journal of Modern Optics</i> , 2010, 57, 2004-2008.	0.6	2
697	Ultrafast nonlinear spectroscopy with spatially confined fields. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	2
698	A lightning-fast change. <i>Nature Physics</i> , 2012, 8, 179-180.	6.5	2
699	Exploring the Protein Folding Dynamics of Beta3s with Twoâ€­Dimensional Ultraviolet (2DUV) Spectroscopy. <i>Israel Journal of Chemistry</i> , 2014, 54, 1394-1403.	1.0	2
700	Multiscale wavelet decomposition of time-resolved X-ray diffraction signals in cyclohexadiene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10269-10274.	3.3	2
701	Signatures of Throughâ€­Space Charge Transfer in Twoâ€­Photon Absorption of Paracyclophane Derivatives. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 1076-1086.	1.0	2
702	Energy, Particle, and Photon Fluxes in Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1762-1766.	2.1	2



#	ARTICLE	IF	CITATIONS
703	Probing Delocalized Current Densities in Selenophene by Resonant X-ray Sum-Frequency Generation. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 367-375.	2.3	2
704	LOCALIZED AND DELOCALIZED ELECTRONIC EXCITATIONS IN BIOLOGICAL AND ARTIFICIAL ANTENNA COMPLEXES. , 2000, , .		2
705	Photon Correlation Signals in Coupled-Cavity Polaritons Created by Entangled Light. <i>ACS Photonics</i> , 2022, 9, 938-943.	3.2	2
706	Transient measurement of phononic states with covariance-based stochastic spectroscopy. <i>Light: Science and Applications</i> , 2022, 11, 44.	7.7	2
707	Sensing ultrashort electronic coherent beating at conical intersections by single-electron pulses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	2
708	Nonlinear optical properties of confined excitons in clusters. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 26, 126-130.	1.0	1
709	Geometric picture for coupled electron-nuclear dynamics. <i>International Journal of Quantum Chemistry</i> , 2002, 90, 799-811.	1.0	1
710	Time-dependent quasiparticle current-density-functional theory of x-ray nonlinear response functions. <i>Physical Review B</i> , 2004, 69, .	1.1	1
711	Lanczos Algorithm for Electron Transfer Rates in Solvents with Complex Spectral Densities. <i>Advances in Chemical Physics</i> , 2007, , 515-551.	0.3	1
712	Many-body Green's function approach to attosecond nonlinear x-ray spectroscopy. <i>Physical Review B</i> , 2009, 79, .	1.1	1
713	Time-symmetric quantum mechanics questioned and defended. <i>Physics Today</i> , 2011, 64, 9-62.	0.3	1
714	Response to "Comment on "Frequency-domain stimulated and spontaneous light emission signals at molecular junctions" [J. Chem. Phys. 142, 137101 (2015)]. <i>Journal of Chemical Physics</i> , 2015, 142, 137102.	1.2	1
715	Reply to Stirnemann et al.: Frame retardation is the key reason behind the general slowdown of water reorientation dynamics in concentrated electrolytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4955-E4956.	3.3	1
716	The Photoionization Time in $\pi$ -Conjugated Molecular Systems. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5770-5774.	1.1	1
717	Heisenberg uncertainty of spatially gated electromagnetic fields. <i>Journal of Chemical Physics</i> , 2021, 154, 174110.	1.2	1
718	Excited electronic states of carotenoids: Time-dependent density matrix response algorithm. <i>International Journal of Quantum Chemistry</i> , 1998, 70, 711-727.	1.0	1
719	A self-consistent mode-coupling theory for the Anderson localization. <i>AIP Conference Proceedings</i> , 1984, , .	0.3	0
720	Solvation Structure in the Time Resolved Stokes Shift and Adiabatic Electron Transfer. <i>Molecular Crystals and Liquid Crystals</i> , 1991, 194, 263-268.	0.7	0

#	ARTICLE	IF	CITATIONS
721	Localized Optical Excitations and Two-Exciton Spectroscopy of Phenylacetylene Dendrimers. Materials Research Society Symposia Proceedings, 1998, 543, 327.	0.1	0
722	Two-dimensional infrared femtosecond spectroscopy of cyclic pentapeptides. AIP Conference Proceedings, 2000, , .	0.3	0
723	Origin, scaling, and saturation of nonlinear polarizabilities in donor/acceptor polymers. , 0, , .		0
724	Through-space charge transfer and nonlinear optical properties of multipolar paracyclophane systems. , 0, , .		0
725	Three-Pulse Photon Echo Peak Shift Spectroscopy in a Dense Potassium Vapor. , 2007, , .		0
726	Simulation of Two Dimensional Ultraviolet (2DUV) Spectroscopy of Amyloid Fibrils. Nature Precedings, 2010, , .	0.1	0
727	Stimulated Raman Spectroscopy With Femtosecond Optical Or Attosecond X-Ray Pulses. , 2010, , .		0
728	Nonlinear spectroscopy of photon-dressed Dirac electrons in a quantum dot. Journal of Modern Optics, 2013, 60, 57-63.	0.6	0
729	CLEOÂ®/Europe-EQEC 2019, One Page Summary Template Femtosecond Covariance Spectroscopy. , 2019, , .		0
730	Direct imaging of ultrafast electron dynamics by X-ray sum frequency generation. EPJ Web of Conferences, 2019, 205, 03004.	0.1	0
731	Monitoring nonadiabatic dynamics in molecules by ultrafast X-Ray diffraction. EPJ Web of Conferences, 2019, 205, 09032.	0.1	0
732	TWO DIMENSIONAL VIBRATIONAL SPECTROSCOPY OF ANTAMANIDE: A SIMULATION STUDY. , 2002, , .		0
733	Multipoint Correlation Functions for Photon Statistics in Single-Molecule Spectroscopy: Stochastic Dynamics in Liouville Space. , 2008, , 93-137.		0
734	Coherent Signatures of Conical Intersections in Ultrafast Raman and Photoelectron Spectroscopy. , 2016, , .		0
735	Nonlinear optical signals and spectroscopy with quantum light and in microcavities. , 2017, , .		0
736	Ultrafast Conical Intersection Dynamics Monitored Through Electronic Coherences by Stimulated X-Ray Raman Signals. , 2020, , .		0
737	The role of quantum correlations in entangled two-photon absorption. , 2020, , .		0
738	Manipulating two-photon absorption of cavity polaritons by entangled photon. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
739	Monitoring Ultrafast Photoisomerization of Azobenzene by Time-Resolved X-Ray Diffraction. , 2020, , .		0
740	Optical-Cavity Manipulation of Conical Intersections and Singlet Fission Dynamics. , 2021, , .		0
741	Monitoring Molecular Coherences at Conical Intersections via X-ray Raman Spectroscopy and Diffraction with Stochastic Free-Electron-Laser Pulses. , 2021, , .		0