

Shaul Mukamel

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710
papers

31,046
citations

89
h-index

140
g-index

744
ext. papers

33,451
ext. citations

5.8
avg, IF

7.52
L-index

#	Paper	IF	Citations
710	Nonequilibrium fluctuations, fluctuation theorems, and counting statistics in quantum systems. <i>Reviews of Modern Physics</i> , 2009 , 81, 1665-1702	40.5	842
709	Multidimensional femtosecond correlation spectroscopies of electronic and vibrational excitations. <i>Annual Review of Physical Chemistry</i> , 2000 , 51, 691-729	15.7	714
708	Two-dimensional femtosecond vibrational spectroscopy of liquids. <i>Journal of Chemical Physics</i> , 1993 , 99, 9496-9511	3.9	515
707	Density matrix analysis and simulation of electronic excitations in conjugated and aggregated molecules. <i>Chemical Reviews</i> , 2002 , 102, 3171-212	68.1	464
706	Coherent multidimensional optical spectroscopy of excitons in molecular aggregates; quasiparticle versus supermolecule perspectives. <i>Chemical Reviews</i> , 2009 , 109, 2350-408	68.1	386
705	Using coherence to enhance function in chemical and biophysical systems. <i>Nature</i> , 2017 , 543, 647-656	50.4	367
704	Exciton-migration and three-pulse femtosecond optical spectroscopies of photosynthetic antenna complexes. <i>Journal of Chemical Physics</i> , 1998 , 108, 7763-7774	3.9	345
703	Electronic Coherence and Collective Optical Excitations of Conjugated Molecules. <i>Science</i> , 1997 , 277, 781-787	33.3	315
702	Experimental determination of the quantum-mechanical state of a molecular vibrational mode using fluorescence tomography. <i>Physical Review Letters</i> , 1995 , 74, 884-887	7.4	266
701	Nonlinear susceptibilities of molecular aggregates: Enhancement of chi (3) by size. <i>Physical Review A</i> , 1989 , 40, 5783-5801	2.6	259
700	Femtosecond Optical Spectroscopy: A Direct Look at Elementary Chemical Events. <i>Annual Review of Physical Chemistry</i> , 1990 , 41, 647-681	15.7	241
699	Many-body approaches for simulating coherent nonlinear spectroscopies of electronic and vibrational excitons. <i>Chemical Reviews</i> , 2004 , 104, 2073-98	68.1	234
698	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	3.9	234
697	Collisionless Multiphoton Dissociation of SF6: A Statistical Thermodynamic Process. <i>Physical Review Letters</i> , 1977 , 38, 1131-1134	7.4	234
696	Off-resonant transient birefringence in liquids. <i>Journal of Chemical Physics</i> , 1993 , 99, 2410-2428	3.9	231
695	Superradiance in molecular aggregates. <i>Journal of Chemical Physics</i> , 1989 , 91, 683-700	3.9	228
694	Quantum extension of the Jarzynski relation: analogy with stochastic dephasing. <i>Physical Review Letters</i> , 2003 , 90, 170604	7.4	210

693	Some features of vibrational relaxation of a diatomic molecule in a dense medium. <i>Journal of Chemical Physics</i> , 1974 , 60, 3929-3934	3.9	210
692	Femtosecond pump-probe spectroscopy of polyatomic molecules in condensed phases. <i>Physical Review A</i> , 1990 , 41, 6485-6504	2.6	204
691	Stilbenoid Dimers: Dissection of a Paracyclophane Chromophore. <i>Journal of the American Chemical Society</i> , 1998 , 120, 9188-9204	16.4	203
690	Energy gap law for vibrational relaxation of a molecule in a dense medium. <i>Journal of Chemical Physics</i> , 1975 , 63, 200-207	3.9	202
689	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, 2746-51	11.5	192
688	Nonlinear optics of semiconductor and molecular nanostructures; a common perspective. <i>Reviews of Modern Physics</i> , 1998 , 70, 145-174	40.5	191
687	Through-Space Charge Transfer and Nonlinear Optical Properties of Substituted Paracyclophane. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11956-11962	16.4	188
686	Localized Electronic Excitations in Phenylacetylene Dendrimers. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 3310-3315	3.4	180
685	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, 20908-12	11.5	176
684	Polarons, localization, and excitonic coherence in superradiance of biological antenna complexes. <i>Journal of Chemical Physics</i> , 1997 , 107, 3876-3893	3.9	176
683	Optical control of molecular dynamics: Molecular cannons, reflectrons, and wave-packet focusers. <i>Journal of Chemical Physics</i> , 1993 , 99, 6562-6578	3.9	176
682	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	3.9	176
681	Two-Dimensional Raman Spectroscopy of Vibrational Interactions in Liquids. <i>Physical Review Letters</i> , 1997 , 79, 2702-2705	7.4	175
680	Multiple Exciton Coherence Sizes in Photosynthetic Antenna Complexes viewed by PumpProbe Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7332-7342	3.4	173
679	Electrostatic DFT map for the complete vibrational amide band of NMA. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 9747-59	2.8	169
678	Temperature-dependent superradiant decay of excitons in small aggregates. <i>Physical Review Letters</i> , 1990 , 65, 211-214	7.4	169
677	Density-matrix representation of nonadiabatic couplings in time-dependent density functional (TDDFT) theories. <i>Journal of Chemical Physics</i> , 2000 , 112, 3572-3579	3.9	161
676	Electronic dephasing, vibrational relaxation, and solvent friction in molecular nonlinear optical line shapes. <i>Journal of Chemical Physics</i> , 1988 , 89, 5160-5176	3.9	161

675	Eigenstate-free, Green function, calculation of molecular absorption and fluorescence line shapes. <i>Journal of Chemical Physics</i> , 1986 , 85, 5908-5923	3.9	161
674	Selectivity in coherent transient Raman measurements of vibrational dephasing in liquids. <i>Journal of Chemical Physics</i> , 1985 , 83, 2116-2128	3.9	157
673	Simulation of the intermolecular vibrational spectra of liquid water and water clusters. <i>Journal of Chemical Physics</i> , 1993 , 98, 4413-4421	3.9	155
672	Nonlinear optical signals and spectroscopy with quantum light. <i>Reviews of Modern Physics</i> , 2016 , 88,	40.5	150
671	Vibrational sum-frequency generation spectroscopy at the water/lipid interface: molecular dynamics simulation study. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6434-42	16.4	148
670	Multidimensional femtosecond correlation spectroscopies of electronic and vibrational excitons. <i>Journal of Chemical Physics</i> , 1999 , 110, 5011-5028	3.9	146
669	Photon echoes of polyatomic molecules in condensed phases. <i>Journal of Chemical Physics</i> , 1991 , 94, 179-190	3.9	145
668	Roadmap of ultrafast x-ray atomic and molecular physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 032003	1.3	144
667	Efficient fluoride-selective fluorescent host: experiment and theory. <i>Journal of Organic Chemistry</i> , 2004 , 69, 943-50	4.2	139
666	Multiphoton molecular dissociation in intense laser fields. <i>Journal of Chemical Physics</i> , 1976 , 65, 5204-5225	3.5	139
665	Coherent multidimensional vibrational spectroscopy of biomolecules: concepts, simulations, and challenges. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 3750-81	16.4	138
664	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	2.8	136
663	Collisional broadening of spectral line shapes in two-photon and multiphoton processes. <i>Physics Reports</i> , 1982 , 93, 1-60	27.7	136
662	Vibrational relaxation in jet-cooled alkyl benzenes. II. Fluorescence spectra. <i>Journal of Chemical Physics</i> , 1980 , 72, 5049-5061	3.9	135
661	Multidimensional attosecond resonant X-ray spectroscopy of molecules: lessons from the optical regime. <i>Annual Review of Physical Chemistry</i> , 2013 , 64, 101-27	15.7	134
660	Photon echoes and related four-wave-mixing spectroscopies using phase-locked pulses. <i>Journal of Chemical Physics</i> , 1992 , 96, 5618-5629	3.9	134
659	Statistical reduction for strongly driven simple quantum systems. <i>Physical Review A</i> , 1978 , 17, 1988-1998	2.6	134
658	Coherent low-frequency motions of hydrogen bonded acetic acid dimers in the liquid phase. <i>Journal of Chemical Physics</i> , 2004 , 121, 902-13	3.9	130

657	Two-Dimensional Raman Echoes: Femtosecond View of Molecular Structure and Vibrational Coherence. <i>Accounts of Chemical Research</i> , 1999 , 32, 145-154	24.3	128
656	Simulation protocols for coherent femtosecond vibrational spectra of peptides. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 3362-74	3.4	123
655	Non-markovian theory of molecular relaxation. I. Vibrational relaxation and dephasing in condensed phases. <i>Chemical Physics</i> , 1979 , 37, 33-47	2.3	122
654	Theory of vibrational overtone line shapes of polyatomic molecules. <i>Journal of Chemical Physics</i> , 1979 , 70, 463	3.9	121
653	Cooperative nonlinear optical response of molecular aggregates: Crossover to bulk behavior. <i>Physical Review Letters</i> , 1991 , 66, 1197-1200	7.4	120
652	Optical multidimensional coherent spectroscopy. <i>Physics Today</i> , 2013 , 66, 44-49	0.9	117
651	Tunneling versus sequential long-range electron transfer: Analogy with pump-probe spectroscopy. <i>Journal of Chemical Physics</i> , 1989 , 91, 6973-6988	3.9	117
650	Nonimpact unified theory of four-wave mixing and two-photon processes. <i>Physical Review A</i> , 1983 , 28, 3480-3492	2.6	117
649	Multidimensional femtosecond spectroscopies of molecular aggregates and semiconductor nanostructures: The nonlinear exciton equations. <i>Journal of Chemical Physics</i> , 1998 , 109, 9587-9601	3.9	116
648	Cavity Femtochemistry: Manipulating Nonadiabatic Dynamics at Avoided Crossings. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2050-4	6.4	116
647	Bacteriochlorophyll and Carotenoid Excitonic Couplings in the LH2 System of Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 9540-9553	3.4	115
646	Intermolecular forces, spontaneous emission, and superradiance in a dielectric medium: Polariton-mediated interactions. <i>Physical Review A</i> , 1989 , 40, 7065-7080	2.6	115
645	A model for isotope separation via molecular multiphoton photodissociation. <i>Chemical Physics Letters</i> , 1976 , 40, 150-156	2.5	115
644	Molecular theory of solvation and dielectric response in polar fluids. <i>Journal of Chemical Physics</i> , 1987 , 87, 1272-1283	3.9	114
643	Two-Dimensional Real-Space Analysis of Optical Excitations in Acceptor-Substituted Carotenoids. <i>Journal of the American Chemical Society</i> , 1997 , 119, 11408-11419	16.4	110
642	Real-time path-integral approach to quantum coherence and dephasing in nonadiabatic transitions and nonlinear optical response. <i>Physical Review E</i> , 1993 , 47, 118-136	2.4	108
641	The Brownian oscillator model for solvation effects in spontaneous light emission and their relationship to electron transfer. <i>Journal of the American Chemical Society</i> , 1994 , 116, 11039-11047	16.4	108
640	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	3.9	106

- 639 Raman excitation profiles of polyatomic molecules in condensed phases. A stochastic theory. *Journal of Chemical Physics*, **1986**, 85, 462-474 3.9 106
- 638 On the semiclassical calculation of molecular absorption and fluorescence spectra. *Journal of Chemical Physics*, **1982**, 77, 173-181 3.9 106
- 637 Oligophenylenevinylene Phane Dimers: Probing the Effect of Contact Site on the Optical Properties of Bichromophoric Pairs. *Journal of the American Chemical Society*, **2000**, 122, 1289-1297 16.4 105
- 636 Three-dimensional nonlinear optical chromophores based on through-space delocalization. *Journal of the American Chemical Society*, **2002**, 124, 13480-5 16.4 104
- 635 Exciton Delocalization in the B850 Light-Harvesting Complex: Comparison of Different Measures. *Journal of Physical Chemistry B*, **2001**, 105, 5515-5524 3.4 104
- 634 The origin of vibrational mode couplings in various secondary structural motifs of polypeptides. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 506-10 11.5 103
- 633 Solvent Reorganization in Long-Range Electron Transfer: Density Matrix Approach. *Journal of Physical Chemistry A*, **1998**, 102, 1241-1251 2.8 103
- 632 Classical chaos and fluctuation-dissipation relations for nonlinear response. *Physical Review E*, **1996**, 53, R1-R4 2.4 103
- 631 Radiative decay and energy transfer in molecular aggregates: The role of intermolecular dephasing. *Physical Review A*, **1988**, 37, 3835-3846 2.6 103
- 630 Exciton Hamiltonian for the Bacteriochlorophyll System in the LH2 Antenna Complex of Purple Bacteria. *Journal of Physical Chemistry B*, **2000**, 104, 4519-4528 3.4 102
- 629 Nonlinear optical response of conjugated polymers: Electron-hole anharmonic-oscillator picture. *Physical Review Letters*, **1992**, 69, 65-68 7.4 101
- 628 Two-quantum many-body coherences in two-dimensional fourier-transform spectra of exciton resonances in semiconductor quantum wells. *Physical Review Letters*, **2010**, 104, 117401 7.4 96
- 627 Signatures of beta-peptide unfolding in two-dimensional vibrational echo spectroscopy: a simulation study. *Journal of the American Chemical Society*, **2001**, 123, 3114-24 16.4 95
- 626 Femtosecond photon echoes in molecular aggregates. *Journal of Chemical Physics*, **1997**, 107, 8759-8780 3.9 94
- 625 Two-dimensional electronic double-quantum coherence spectroscopy. *Accounts of Chemical Research*, **2009**, 42, 1375-84 24.3 93
- 624 Solvation structure and the time-resolved Stokes shift in non-Debye solvents. *Journal of Chemical Physics*, **1990**, 93, 932-946 3.9 93
- 623 Cooperative radiative dynamics in molecular aggregates. *Journal of Chemical Physics*, **1991**, 94, 7534-7544 4.9 91
- 622 Lindblad equations for strongly coupled populations and coherences in photosynthetic complexes. *Journal of Chemical Physics*, **2009**, 130, 204512 3.9 89

621	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, 13003-8	11.5	89
620	Anharmonic oscillator modeling of nonlinear susceptibilities and its application to conjugated polymers. <i>Journal of Chemical Physics</i> , 1994 , 100, 2366-2384	3.9	89
619	Origin of spectral holes in pump-probe studies of homogeneously broadened lines. <i>Physical Review A</i> , 1984 , 29, 1973-1983	2.6	89
618	Interrogation of Vibrational Structure and Line Broadening of Liquid Water by Raman-Induced Kerr Effect Measurements within the Multimode Brownian Oscillator Model \square <i>The Journal of Physical Chemistry</i> , 1996 , 100, 10380-10388		88
617	Stochastic theory of resonance Raman line shapes of polyatomic molecules in condensed phases. <i>Journal of Chemical Physics</i> , 1985 , 82, 5398-5408	3.9	88
616	Non-adiabatic dynamics of molecules in optical cavities. <i>Journal of Chemical Physics</i> , 2016 , 144, 054309	3.9	88
615	Catching Conical Intersections in the Act: Monitoring Transient Electronic Coherences by Attosecond Stimulated X-Ray Raman Signals. <i>Physical Review Letters</i> , 2015 , 115, 193003	7.4	87
614	Electronic coherence and nonlinear susceptibilities of conjugated polyenes. <i>Science</i> , 1994 , 266, 250-4	33.3	87
613	Reaction Dynamics of a Photochromic Fluorescing Dithienylethene. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1741-1749	2.8	85
612	Lifetimes for resonance fluorescence and near resonance Raman scattering. <i>Journal of Chemical Physics</i> , 1975 , 62, 3609	3.9	85
611	Photofragmentation of linear triatomics. <i>Journal of Chemical Physics</i> , 1976 , 65, 4035-4048	3.9	85
610	Multistate quantum Fokker-Planck approach to nonadiabatic wave packet dynamics in pump-probe spectroscopy. <i>Journal of Chemical Physics</i> , 1994 , 101, 3049-3061	3.9	84
609	Superexchange versus sequential long range electron transfer; density matrix pathways in Liouville space. <i>Chemical Physics</i> , 1995 , 197, 367-388	2.3	84
608	Design strategies for pulse sequences in multidimensional optical spectroscopies. <i>Journal of Chemical Physics</i> , 2001 , 115, 4989-5004	3.9	83
607	Size Scaling of Third-Order Off-Resonant Polarizabilities. Electronic Coherence in Organic Oligomers. <i>Journal of the American Chemical Society</i> , 2000 , 122, 452-459	16.4	83
606	Exciton-scaling and optical excitations of self-similar phenylacetylene dendrimers. <i>Journal of Chemical Physics</i> , 1999 , 110, 8161-8175	3.9	83
605	Probing intermolecular couplings in liquid water with two-dimensional infrared photon echo spectroscopy. <i>Journal of Chemical Physics</i> , 2008 , 128, 191103	3.9	82
604	Impulsive pump-probe and photon-echo spectroscopies of dye molecules in condensed phases. <i>Physical Review A</i> , 1990 , 42, 6920-6923	2.6	82

603	Optical Stark Spectroscopy of a Brownian Oscillator in Intense Fields. <i>Journal of the Physical Society of Japan</i> , 1994 , 63, 66-77	1.5	81
602	Reaction dynamics of photochromic dithienylethene derivatives. <i>Chemical Physics</i> , 1999 , 246, 115-125	2.3	80
601	Time-resolved x-ray spectroscopies: Nonlinear response functions and Liouville-space pathways. <i>Physical Review A</i> , 2001 , 63,	2.6	79
600	Coherent multidimensional optical probes for electron correlations and exciton dynamics: from NMR to X-rays. <i>Accounts of Chemical Research</i> , 2009 , 42, 553-62	24.3	78
599	Simulating Coherent Multidimensional Spectroscopy of Nonadiabatic Molecular Processes: From the Infrared to the X-ray Regime. <i>Chemical Reviews</i> , 2017 , 117, 12165-12226	68.1	77
598	UV-Light-Induced Vibrational Coherences: The Key to Understand Kasha Rule Violation in trans-Azobenzene. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1534-1541	6.4	76
597	Vibrational-exciton couplings for the amide I, II, III, and A modes of peptides. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11032-46	3.4	76
596	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	27.7	75
595	Krylov-space algorithms for time-dependent Hartree-Fock and density functional computations. <i>Journal of Chemical Physics</i> , 2000 , 113, 36-43	3.9	74
594	Unified theory of photon echoes: The passage from inhomogeneous to homogeneous line broadening. <i>Chemical Physics Letters</i> , 1985 , 114, 426-429	2.5	74
593	Nonlinear response of vibrational excitons: simulating the two-dimensional infrared spectrum of liquid water. <i>Journal of Chemical Physics</i> , 2009 , 130, 204110	3.9	73
592	Two-dimensional double-quantum spectra reveal collective resonances in an atomic vapor. <i>Physical Review Letters</i> , 2012 , 108, 193201	7.4	72
591	Superradiance Coherence Sizes in Single-Molecule Spectroscopy of LH2 Antenna Complexes. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 3954-3962	3.4	72
590	Collective electronic oscillators for nonlinear optical response of conjugated molecules. <i>Chemical Physics Letters</i> , 1996 , 259, 55-61	2.5	72
589	Molecular fluorescence and near resonance Raman yield as a probe for solvation dynamics. <i>Journal of Chemical Physics</i> , 1987 , 86, 6085-6107	3.9	72
588	Stochastic Liouville equation simulation of multidimensional vibrational line shapes of trialanine. <i>Journal of Chemical Physics</i> , 2004 , 121, 10577-98	3.9	71
587	Size-consistent quasiparticle representation of nonlinear optical susceptibilities in many-electron systems. <i>Journal of Chemical Physics</i> , 1996 , 104, 444-459	3.9	71
586	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	27.7	71

585	Analysis of Absorption Spectra of Zinc Porphyrin, Zinc meso-Tetraphenylporphyrin, and Halogenated Derivatives. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 10285-10293	2.8	70
584	Infrared analogs of heteronuclear nuclear magnetic resonance coherence transfer experiments in peptides. <i>Journal of Chemical Physics</i> , 2002 , 116, 6803-6816	3.9	70
583	Multidimensional femtosecond spectroscopies of vibrational motions in liquids: Semiclassical expansion. <i>Journal of Chemical Physics</i> , 1998 , 108, 5812-5825	3.9	70
582	Exciton-scattering mechanism for enhanced nonlinear response of molecular nanostructures. <i>Physical Review A</i> , 1992 , 46, 452-464	2.6	70
581	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	3.9	68
580	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	3.9	68
579	Stochastic theory of time-resolved four-wave mixing in interacting media. <i>Physical Review A</i> , 1991 , 44, 2124-2129	2.6	68
578	Ultrafast Nonlinear Optical Signals Viewed from the Molecule's Perspective. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2010 , 223-263	1.7	66
577	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, 11260-73	3.4	66
576	Coherent ultrafast core-hole correlation spectroscopy: x-ray analogues of multidimensional NMR. <i>Physical Review Letters</i> , 2007 , 99, 163001	7.4	66
575	Recursive density-matrix-spectral-moment algorithm for molecular nonlinear polarizabilities. <i>Journal of Chemical Physics</i> , 1996 , 105, 8914-8928	3.9	66
574	Structure, dynamics, and the electronic absorption of benzene-argon clusters. <i>Journal of Chemical Physics</i> , 1992 , 96, 116-135	3.9	65
573	Simulations of two-dimensional femtosecond infrared photon echoes of glycine dipeptide. <i>Journal of Raman Spectroscopy</i> , 2000 , 31, 125-135	2.3	64
572	Transient gratings, four-wave mixing and polariton effects in nonlinear optics. <i>Physics Reports</i> , 1991 , 205, 1-58	27.7	63
571	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	3.9	63
570	Collisional perturbations of time-resolved photon scattering from molecular levels. <i>Physical Review A</i> , 1975 , 12, 947-958	2.6	63
569	Novel photochemistry of molecular polaritons in optical cavities. <i>Faraday Discussions</i> , 2016 , 194, 259-282	3.6	62
568	Two-dimensional stimulated resonance Raman spectroscopy of molecules with broadband x-ray pulses. <i>Journal of Chemical Physics</i> , 2012 , 136, 174117	3.9	62

567	Optically Excited Entangled States in Organic Molecules Illuminate the Dark. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2046-52	6.4	61
566	Linear and nonlinear infrared signatures of local β - and α -helical structures in alanine polypeptides. <i>Journal of Chemical Physics</i> , 2003 , 118, 3651-3659	3.9	61
565	Ultrafast Nonlinear Spectroscopic Techniques in the Gas Phase and Their Density Matrix Representation. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 697-718	2.8	60
564	Excitons in confined geometries: Size scaling of nonlinear susceptibilities. <i>Journal of Chemical Physics</i> , 1991 , 95, 7526-7540	3.9	60
563	Semiclassical dynamics in Liouville space: Application to molecular electronic spectroscopy. <i>Journal of Chemical Physics</i> , 1988 , 88, 5735-5748	3.9	60
562	Quantum Confined Fano Interference. <i>Physical Review Letters</i> , 1997 , 78, 1363-1366	7.4	59
561	Probing valence electronic wave-packet dynamics by all x-ray stimulated Raman spectroscopy: A simulation study. <i>Physical Review A</i> , 2007 , 76,	2.6	59
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559	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	16.4	58
558	Suppression of population transport and control of exciton distributions by entangled photons. <i>Nature Communications</i> , 2013 , 4, 1782	17.4	58
557	Solvation Effects in Four-Wave Mixing and Spontaneous Raman and Fluorescence Lineshapes of Polyatomic Molecules. <i>Advances in Chemical Physics</i> , 2007 , 165-230		58
556	Simulations of energy funneling and time- and frequency-gated fluorescence in dendrimers. <i>Journal of Chemical Physics</i> , 2001 , 114, 2419-2429	3.9	58
555	Control of Intrachromophore Excitonic Coherence in Electroluminescent Conjugated Dendrimers. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7647-7653	3.4	56
554	Correlated line broadening in multidimensional vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2002 , 117, 11089-11101	3.9	56
553	Communication: Comment on the effective temporal and spectral resolution of impulsive stimulated Raman signals. <i>Journal of Chemical Physics</i> , 2011 , 134, 161101	3.9	55
552	Effective temporal resolution in pump-probe spectroscopy with strongly chirped pulses. <i>Physical Review A</i> , 2010 , 82,	2.6	54
551	Pulse shaping and coherent Raman spectroscopy in condensed phases. <i>Journal of Chemical Physics</i> , 1991 , 94, 997-1005	3.9	54
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549	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, 5930-7	3.4	52
548	Stochastic simulation of chemical exchange in two dimensional infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2006 , 125, 014507	3.9	52
547	Multidimensional Infrared Signatures of Intramolecular Hydrogen Bonding in Malonaldehyde. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 9113-9131	2.8	52
546	Entangled Two-Photon Absorption Spectroscopy. <i>Accounts of Chemical Research</i> , 2018 , 51, 2207-2214	24.3	52
545	Ultraviolet spectroscopy of protein backbone transitions in aqueous solution: combined QM and MM simulations. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 8270-7	3.4	51
544	Nonlinear optical spectroscopy of single, few, and many molecules; nonequilibrium Green's function QED approach. <i>Physical Review A</i> , 2008 , 77, 22110	2.6	51
543	Electronic density-matrix algorithm for nonadiabatic couplings in molecular dynamics simulations. <i>International Journal of Quantum Chemistry</i> , 2001 , 85, 225-238	2.1	51
542	Nonlinear response functions for birefringence and dichroism measurements in condensed phases. <i>Journal of Chemical Physics</i> , 1993 , 98, 5314-5326	3.9	51
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