

Graham R Fleming

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240
papers

31,914
citations

88
h-index

176
g-index

254
ext. papers

34,280
ext. citations

6.7
avg. IF

7.28
L-index

#	Paper	IF	Citations
240	Evidence for wavelike energy transfer through quantum coherence in photosynthetic systems. <i>Nature</i> , 2007 , 446, 782-6	50.4	2311
239	Lessons from nature about solar light harvesting. <i>Nature Chemistry</i> , 2011 , 3, 763-74	17.6	1293
238	Comparing photosynthetic and photovoltaic efficiencies and recognizing the potential for improvement. <i>Science</i> , 2011 , 332, 805-9	33.3	1143
237	Femtosecond solvation dynamics of water. <i>Nature</i> , 1994 , 369, 471-473	50.4	1125
236	Picosecond solvation dynamics of coumarin 153: The importance of molecular aspects of solvation. <i>Journal of Chemical Physics</i> , 1987 , 86, 6221-6239	3.9	1061
235	Two-dimensional spectroscopy of electronic couplings in photosynthesis. <i>Nature</i> , 2005 , 434, 625-8	50.4	992
234	Coherence dynamics in photosynthesis: protein protection of excitonic coherence. <i>Science</i> , 2007 , 316, 1462-5	33.3	869
233	Theoretical examination of quantum coherence in a photosynthetic system at physiological temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17255-60	11.5	655
232	Carotenoid cation formation and the regulation of photosynthetic light harvesting. <i>Science</i> , 2005 , 307, 433-6	33.3	644
231	Dynamics of light harvesting in photosynthesis. <i>Annual Review of Physical Chemistry</i> , 2009 , 60, 241-62	15.7	612
230	Calculation of Couplings and Energy-Transfer Pathways between the Pigments of LH2 by the ab Initio Transition Density Cube Method. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 5378-5386	3.4	584
229	CHROMOPHORE-SOLVENT DYNAMICS. <i>Annual Review of Physical Chemistry</i> , 1996 , 47, 109-134	15.7	579
228	Unified treatment of quantum coherent and incoherent hopping dynamics in electronic energy transfer: reduced hierarchy equation approach. <i>Journal of Chemical Physics</i> , 2009 , 130, 234111	3.9	513
227	Fluorescence-detected wave packet interferometry: Time resolved molecular spectroscopy with sequences of femtosecond phase-locked pulses. <i>Journal of Chemical Physics</i> , 1991 , 95, 1487-1511	3.9	483
226	Quantum entanglement in photosynthetic light-harvesting complexes. <i>Nature Physics</i> , 2010 , 6, 462-467	16.2	480
225	Computer simulation of the dynamics of aqueous solvation. <i>Journal of Chemical Physics</i> , 1988 , 89, 5044-5069	3.9	465
224	Architecture of a charge-transfer state regulating light harvesting in a plant antenna protein. <i>Science</i> , 2008 , 320, 794-7	33.3	449

223	Third-order nonlinear time domain probes of solvation dynamics. <i>Journal of Chemical Physics</i> , 1996 , 104, 6089-6108	3.9	441
222	Femtosecond solvation dynamics in acetonitrile: Observation of the inertial contribution to the solvent response. <i>Journal of Chemical Physics</i> , 1991 , 95, 4715-4718	3.9	421
221	Phase-stabilized two-dimensional electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2004 , 121, 4221-369	3.9	417
220	On the Mechanism of Light Harvesting in Photosynthetic Purple Bacteria: B800 to B850 Energy Transfer. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 1854-1868	3.4	385
219	Using coherence to enhance function in chemical and biophysical systems. <i>Nature</i> , 2017 , 543, 647-656	50.4	367
218	Exciton analysis in 2D electronic spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10542-56	3.4	360
217	Light Harvesting and Energy Transfer in LaserDye-Labeled Poly(aryl ether) Dendrimers. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1175-1185	16.4	354
216	Subpicosecond resolution studies of solvation dynamics in polar aprotic and alcohol solvents. <i>Journal of Chemical Physics</i> , 1987 , 86, 1090-1097	3.9	319
215	On the adequacy of the Redfield equation and related approaches to the study of quantum dynamics in electronic energy transfer. <i>Journal of Chemical Physics</i> , 2009 , 130, 234110	3.9	316
214	Theory of electronic relaxation in solution in the absence of an activation barrier. <i>Journal of Chemical Physics</i> , 1983 , 78, 7375-7385	3.9	309
213	Quantum coherence and its interplay with protein environments in photosynthetic electronic energy transfer. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 7319-37	3.6	281
212	Toward an understanding of the mechanism of nonphotochemical quenching in green plants. <i>Biochemistry</i> , 2004 , 43, 8281-9	3.2	281
211	Excitation Transfer in the Core Light-Harvesting Complex (LH-1) of Rhodobacter sphaeroides: An Ultrafast Fluorescence Depolarization and Annihilation Study. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 16179-16191		281
210	Application of a multilevel Redfield theory to electron transfer in condensed phases. <i>Journal of Chemical Physics</i> , 1992 , 96, 5827-5842	3.9	269
209	Breakdown of Kramers theory description of photochemical isomerization and the possible involvement of frequency dependent friction. <i>Journal of Chemical Physics</i> , 1983 , 78, 249-258	3.9	262
208	Photochemical isomerization in solution. Photophysics of diphenyl butadiene. <i>Journal of Chemical Physics</i> , 1982 , 76, 3553-3562	3.9	255
207	The Integrated Photon Echo and Solvation Dynamics. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 11944-11953		248
206	Quantum coherence enabled determination of the energy landscape in light-harvesting complex II. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 16291-5	3.4	244

205	Off-resonant transient birefringence in liquids. <i>Journal of Chemical Physics</i> , 1993 , 99, 2410-2428	3.9	231
204	Adapting the Förster Theory of Energy Transfer for Modeling Dynamics in Aggregated Molecular Assemblies. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1640-1651	3.4	208
203	Analysis of LhcSR3, a protein essential for feedback de-excitation in the green alga <i>Chlamydomonas reinhardtii</i> . <i>PLoS Biology</i> , 2011 , 9, e1000577	9.7	204
202	Influence of phonons on exciton transfer dynamics: comparison of the Redfield, Förster, and modified Redfield equations. <i>Chemical Physics</i> , 2002 , 275, 355-372	2.3	195
201	Ultrafast solvent dynamics: Connection between time resolved fluorescence and optical Kerr measurements. <i>Journal of Chemical Physics</i> , 1992 , 96, 5033-5038	3.9	191
200	Quantum Coherence in Photosynthetic Light Harvesting. <i>Annual Review of Condensed Matter Physics</i> , 2012 , 3, 333-361	19.7	190
199	Fifth-order two-dimensional Raman spectra of CS ₂ are dominated by third-order cascades. <i>Journal of Chemical Physics</i> , 1999 , 111, 3105-3114	3.9	189
198	Zeaxanthin radical cation formation in minor light-harvesting complexes of higher plant antenna. <i>Journal of Biological Chemistry</i> , 2008 , 283, 3550-3558	5.4	184
197	Evidence for direct carotenoid involvement in the regulation of photosynthetic light harvesting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 4377-82	11.5	183
196	Two-dimensional electronic spectroscopy of the B800-B820 light-harvesting complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12672-7	11.5	181
195	Dynamics in Isolated Bacterial Light Harvesting Antenna (LH2) of <i>Rhodobacter sphaeroides</i> at Room Temperature. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 2399-2409		179
194	Three-Pulse Photon Echo Measurements on LH1 and LH2 Complexes of <i>Rhodobacter sphaeroides</i> : A Nonlinear Spectroscopic Probe of Energy Transfer. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7350-7359	3.4	178
193	Lutein accumulation in the absence of zeaxanthin restores nonphotochemical quenching in the <i>Arabidopsis thaliana</i> npq1 mutant. <i>Plant Cell</i> , 2009 , 21, 1798-812	11.6	156
192	Pathways of energy flow in LHCII from two-dimensional electronic spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 15352-63	3.4	152
191	Three-Pulse Echo Peak Shift Studies of Polar Solvation Dynamics. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 725-731	2.8	148
190	Competition between energy and phase relaxation in electronic curve crossing processes. <i>Journal of Chemical Physics</i> , 1995 , 103, 2092-2101	3.9	144
189	Femtosecond wave packet and chemical reaction dynamics of iodine in solution: Tunable probe study of motion along the reaction coordinate. <i>Journal of Chemical Physics</i> , 1993 , 99, 153-168	3.9	144
188	Quantum Chemical Evidence for an Intramolecular Charge-Transfer State in the Carotenoid Peridinin of Peridinin-Chlorophyll Protein. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7940-7946	3.4	143

187	Chlorophyll Excitations in Photosystem I of <i>Synechococcus elongatus</i> . <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10251-10262	3.4	142
186	Coherence quantum beats in two-dimensional electronic spectroscopy. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 4254-60	2.8	141
185	Elucidation of the timescales and origins of quantum electronic coherence in LHCII. <i>Nature Chemistry</i> , 2012 , 4, 389-95	17.6	140
184	Two-dimensional electronic spectroscopy of molecular aggregates. <i>Accounts of Chemical Research</i> , 2009 , 42, 1352-63	24.3	138
183	Energy transfer in photosystem I of cyanobacteria <i>Synechococcus elongatus</i> : model study with structure-based semi-empirical Hamiltonian and experimental spectral density. <i>Biophysical Journal</i> , 2003 , 85, 140-58	2.9	135
182	Electronic Excitation Transfer from Carotenoid to Bacteriochlorophyll in the Purple Bacterium <i>Rhodospseudomonas acidophila</i> . <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2284-2292	3.4	135
181	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
180	Cross-peak-specific two-dimensional electronic spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14203-8	11.5	129
179	Charge-Transfer State as a Possible Signature of a Zeaxanthin-Chlorophyll Dimer in the Non-photochemical Quenching Process in Green Plants. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 6500-6503	3.4	129
178	Two-dimensional electronic spectroscopy and photosynthesis: Fundamentals and applications to photosynthetic light-harvesting. <i>Chemical Physics</i> , 2011 , 386, 1-22	2.3	128
177	Correlating the motion of electrons and nuclei with two-dimensional electronic-vibrational spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10061-6	11.5	127
176	Influence of phonons on exciton transfer dynamics: comparison of the Redfield, Förster, and modified Redfield equations. <i>Chemical Physics</i> , 2002 , 282, 163-180	2.3	121
175	Activated barrier crossing: Comparison of experiment and theory. <i>Journal of Statistical Physics</i> , 1986 , 42, 83-104	1.5	118
174	Chlorophyll fluorescence quenching by xanthophylls. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 3247	3.6	115
173	Internal conversion and energy transfer dynamics of spheroidene in solution and in the LH-1 and LH-2 light-harvesting complexes. <i>Chemical Physics Letters</i> , 1996 , 259, 381-390	2.5	114
172	Two-Photon Excitation Spectrum of Light-Harvesting Complex II and Fluorescence Upconversion after One- and Two-Photon Excitation of the Carotenoids. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 4799-4806	3.4	113
171	Time resolved polarization spectroscopy: Level kinetics and rotational diffusion. <i>Journal of Chemical Physics</i> , 1983 , 78, 6455-6467	3.9	110
170	Comparison of time-resolved fluorescence Stokes shift measurements to a molecular theory of solvation dynamics. <i>Journal of Chemical Physics</i> , 1988 , 89, 875-881	3.9	109

169	Excited-State Kinetics of the Carotenoid S1 State in LHC II and Two-Photon Excitation Spectra of Lutein and β -Carotene in Solution: Efficient Car S1-6hl Electronic Energy Transfer via Hot S1 States? <i>Journal of Physical Chemistry A</i> , 2002 , 106, 1909-1916	2.8	108
168	Fluorescence upconversion study of cis-stilbene isomerization. <i>Journal of Chemical Physics</i> , 1990 , 93, 8658-8668	3.9	108
167	Direct fifth-order electronically nonresonant Raman scattering from CS ₂ at room temperature. <i>Journal of Chemical Physics</i> , 2000 , 113, 771-778	3.9	105
166	Picosecond pulse induced transient molecular birefringence and dichroism. <i>Journal of Chemical Physics</i> , 1981 , 74, 3381-3387	3.9	105
165	Two-dimensional optical three-pulse photon echo spectroscopy. II. Signatures of coherent electronic motion and exciton population transfer in dimer two-dimensional spectra. <i>Journal of Chemical Physics</i> , 2006 , 124, 234505	3.9	103
164	Ultrafast Energy Transfer in LHC-II Revealed by Three-Pulse Photon Echo Peak Shift Measurements. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 2908-2918	3.4	100
163	Visualization of excitonic structure in the Fenna-Matthews-Olson photosynthetic complex by polarization-dependent two-dimensional electronic spectroscopy. <i>Biophysical Journal</i> , 2008 , 95, 847-56	2.9	97
162	Two mechanisms for dissipation of excess light in monomeric and trimeric light-harvesting complexes. <i>Nature Plants</i> , 2017 , 3, 17033	11.5	95
161	Light Harvesting by Chlorophylls and Carotenoids in the Photosystem I Core Complex of <i>Synechococcus elongatus</i> : A Fluorescence Upconversion Study. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 4485-4494	3.4	95
160	A kinetic model of rapidly reversible nonphotochemical quenching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15757-62	11.5	94
159	Design principles of photosynthetic light-harvesting. <i>Faraday Discussions</i> , 2012 , 155, 27-41; discussion 103-14	3.6	94
158	Temperature dependence of optical dephasing in an organic polymer glass (PMMA) from 300 K to 30 K. <i>Journal of Chemical Physics</i> , 1997 , 106, 4840-4852	3.9	94
157	A subpicosecond, subnanosecond and steady-state study of diffusion-influenced fluorescence quenching. <i>Journal of Chemical Physics</i> , 1990 , 93, 1136-1148	3.9	94
156	Heterodyne-detected fifth-order nonresonant Raman scattering from room temperature CS ₂ . <i>Physical Review Letters</i> , 2002 , 88, 207402	7.4	93
155	A structure-based model of energy transfer reveals the principles of light harvesting in photosystem II supercomplexes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9164-73	16.4	90
154	Ultrafast liquid dynamics studied by third and fifth order three pulse photon echoes. <i>Journal of Chemical Physics</i> , 1995 , 102, 4063-4068	3.9	89
153	On the interpretation of quantum coherent beats observed in two-dimensional electronic spectra of photosynthetic light harvesting complexes. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 6227-33	3.4	88
152	Electronic Interactions in Photosynthetic Light-Harvesting Complexes: The Role of Carotenoids. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7302-7312	3.4	87

151	Three pulse stimulated photon echo experiments as a probe of polar solvation dynamics: Utility of harmonic bath models. <i>Journal of Chemical Physics</i> , 1997 , 107, 6094-6108	3.9	86
150	Quantum superpositions in photosynthetic light harvesting: delocalization and entanglement. <i>New Journal of Physics</i> , 2010 , 12, 055004	2.9	80
149	Direct Observation of Ultrafast Energy-Transfer Processes in Light Harvesting Complex II. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 4736-4741		79
148	Three pulse echo peak shift measurements on the B820 subunit of LH1 of <i>Rhodospirillum rubrum</i> . <i>Chemical Physics Letters</i> , 1997 , 280, 404-410	2.5	78
147	Iterative path-integral algorithm versus cumulant time-nonlocal master equation approach for dissipative biomolecular exciton transport. <i>New Journal of Physics</i> , 2011 , 13, 063040	2.9	76
146	Direct observation of energy transfer in a photosynthetic membrane: chlorophyll b to chlorophyll a transfer in LHC. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 8271-8275		76
145	Impact of environmentally induced fluctuations on quantum mechanically mixed electronic and vibrational pigment states in photosynthetic energy transfer and 2D electronic spectra. <i>Journal of Chemical Physics</i> , 2015 , 142, 212403	3.9	75
144	Ultrafast exciton dynamics of J-aggregates in room temperature solution studied by third-order nonlinear optical spectroscopy and numerical simulation based on exciton theory. <i>Journal of Chemical Physics</i> , 2001 , 115, 7609-7621	3.9	73
143	Identification of pH-sensing Sites in the Light Harvesting Complex Stress-related 3 Protein Essential for Triggering Non-photochemical Quenching in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2016 , 291, 7334-46	5.4	71
142	Probing Solvation and Reaction Coordinates of Ultrafast Photoinduced Electron-Transfer Reactions Using Nonlinear Spectroscopies: Rhodamine 6G in Electron-Donating Solvents <i>Journal of Physical Chemistry A</i> , 1999 , 103, 10348-10358	2.8	70
141	Unimolecular reactions in isolated and collisional systems: Deuterium isotope effect in the photoisomerization of stilbene. <i>Journal of Chemical Physics</i> , 1988 , 89, 6697-6707	3.9	68
140	Mimicking the role of the antenna in photosynthetic photoprotection. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2916-22	16.4	67
139	Lutein can act as a switchable charge transfer quencher in the CP26 light-harvesting complex. <i>Journal of Biological Chemistry</i> , 2009 , 284, 2830-2835	5.4	65
138	Transient Absorption Study of Peridinin and Peridinin-Chlorophyll a Protein after Two-Photon Excitation <i>Journal of Physical Chemistry B</i> , 2004 , 108, 10340-10345	3.4	64
137	Polarization selectivity in fifth-order electronically nonresonant Raman scattering from CS ₂ . <i>Journal of Chemical Physics</i> , 2001 , 114, 2312-2331	3.9	62
136	Elucidation of population and coherence dynamics using cross-peaks in two-dimensional electronic spectroscopy. <i>Chemical Physics</i> , 2007 , 341, 285-295	2.3	61
135	Exciton and Free Charge Dynamics of Methylammonium Lead Iodide Perovskites Are Different in the Tetragonal and Orthorhombic Phases. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19590-19595	3.8	60
134	Multiscale model of light harvesting by photosystem II in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1156-61	11.5	59

133	Regulation of photosystem I light harvesting by zeaxanthin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2431-8	11.5	59
132	Room-Temperature Coherent Optical Phonon in 2D Electronic Spectra of CHNHPbI Perovskite as a Possible Cooling Bottleneck. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3211-3215	6.4	59
131	Spectroscopic elucidation of uncoupled transition energies in the major photosynthetic light-harvesting complex, LHCII. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13276-81	11.5	59
130	Two-dimensional optical three-pulse photon echo spectroscopy. I. Nonperturbative approach to the calculation of spectra. <i>Journal of Chemical Physics</i> , 2006 , 124, 234504	3.9	58
129	Heterodyne detected transient grating spectroscopy in resonant and non-resonant systems using a simplified diffractive optics method. <i>Chemical Physics Letters</i> , 2001 , 338, 254-262	2.5	57
128	The integrated photon echo and solvation dynamics. II. Peak shifts and two-dimensional photon echo of a coupled chromophore system. <i>Journal of Chemical Physics</i> , 2005 , 123, 114506	3.9	56
127	Intrinsic cascading contributions to the fifth- and seventh-order electronically off-resonant Raman spectroscopies. <i>Journal of Chemical Physics</i> , 2000 , 112, 2082-2094	3.9	56
126	Three Pulse Photon Echo Peak Shift Study of the B800 Band of the LH2 Complex of <i>Rps. acidophila</i> at Room Temperature: A Coupled Master Equation and Nonlinear Optical Response Function Approach. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1887-1894	3.4	55
125	Solute-solvent interaction dynamics studied by photon echo spectroscopies in polymer glasses. <i>Journal of Chemical Physics</i> , 1998 , 109, 6175-6183	3.9	54
124	Picosecond fluorescence study of photosynthetic mutants of <i>Chlamydomonas reinhardtii</i> : origin of the fluorescence decay kinetics of chloroplasts. <i>Photochemistry and Photobiology</i> , 1985 , 41, 487-96	3.6	54
123	Chlorophyll-carotenoid excitation energy transfer and charge transfer in for the regulation of photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3385-3390	11.5	54
122	Coherent Exciton Dynamics in the Presence of Underdamped Vibrations. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 627-32	6.4	53
121	Carotenoid to chlorophyll energy transfer in light harvesting complex II from <i>Arabidopsis thaliana</i> probed by femtosecond fluorescence upconversion. <i>Chemical Physics Letters</i> , 2003 , 379, 305-313	2.5	53
120	Photon echo measurements in liquids: Numerical calculations with model systems. <i>Journal of Chemical Physics</i> , 1993 , 98, 2848-2859	3.9	53
119	A thioredoxin-like/propeller protein maintains the efficiency of light harvesting in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2733-40	11.5	52
118	Nature of Disorder and Inter-Complex Energy Transfer in LH2 at Room Temperature: A Three Pulse Photon Echo Peak Shift Study. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 7573-7578	2.8	51
117	Two-color three pulse photon echo peak shift spectroscopy. <i>Journal of Chemical Physics</i> , 2002 , 116, 6243-6252	3.9	51
116	Two-color three-pulse photon echoes as a probe of electronic coupling in molecular complexes. <i>Journal of Chemical Physics</i> , 1999 , 110, 2983-2990	3.9	51

115	Nonlinear response functions for birefringence and dichroism measurements in condensed phases. <i>Journal of Chemical Physics</i> , 1993 , 98, 5314-5326	3.9	51
114	Two Dimensional Electronic Spectroscopy of Molecular Complexes. <i>Journal of the Chinese Chemical Society</i> , 2006 , 53, 15-24	1.5	49
113	Two-Photon Excitation Study of Peridinin in Benzene and in the Peridinin Chlorophyll a-Protein (PCP). <i>Journal of Physical Chemistry B</i> , 2002 , 106, 9418-9423	3.4	49
112	Third-order nonlinear optical response of energy transfer systems. <i>Journal of Chemical Physics</i> , 1999 , 111, 27-39	3.9	49
111	Two-Dimensional Electronic-Vibrational Spectroscopy of Chlorophyll a and b. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 831-7	6.4	48
110	Dependence of the coherence spike on the material dephasing time in pump-probe experiments. <i>Journal of Chemical Physics</i> , 1985 , 83, 4300-4307	3.9	47
109	Vibrational Coherence Transfer and Trapping as Sources for Long-Lived Quantum Beats in Polarized Emission from Energy Transfer Complexes. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 11196-11208	2.8	45
108	Solving structure in the CP29 light harvesting complex with polarization-phased 2D electronic spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3848-53	11.5	44
107	Three-pulse photon echoes for model reactive systems. <i>Journal of Chemical Physics</i> , 1999 , 110, 10243-10252	3.5	44
106	Observation of Electronic Excitation Transfer Through Light Harvesting Complex II Using Two-Dimensional Electronic-Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4197-4206	6.4	43
105	Exchange-driven intravalley mixing of excitons in monolayer transition metal dichalcogenides. <i>Nature Physics</i> , 2019 , 15, 228-232	16.2	43
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103	Third-order nonlinear optical response and energy transfer in static disordered systems. <i>Journal of Chemical Physics</i> , 2000 , 113, 2823-2840	3.9	41
102	Measuring correlated electronic and vibrational spectral dynamics using line shapes in two-dimensional electronic-vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 142, 174202	3.9	39
101	Distinct roles of the photosystem II protein PsbS and zeaxanthin in the regulation of light harvesting in plants revealed by fluorescence lifetime snapshots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17498-503	11.5	39
100	Vibronic mixing enables ultrafast energy flow in light-harvesting complex II. <i>Nature Communications</i> , 2020 , 11, 1460	17.4	38
99	Following Coupled Electronic-Nuclear Motion through Conical Intersections in the Ultrafast Relaxation of β -Carotene. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 11428-41	3.4	37
98	Role of electronic-vibrational mixing in enhancing vibrational coherences in the ground electronic states of photosynthetic bacterial reaction center. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1381-8	3.4	36

97	Two-dimensional fluorescence-detected coherent spectroscopy with absolute phasing by confocal imaging of a dynamic grating and 27-step phase-cycling. <i>Journal of Chemical Physics</i> , 2014 , 140, 194201	3.9	36
96	Two-dimensional optical spectroscopy: two-color photon echoes of electronically coupled phthalocyanine dimers. <i>Journal of Chemical Physics</i> , 2004 , 120, 2537-40	3.9	36
95	Ultrafast Multidimensional Spectroscopy: Principles and Applications to Photosynthetic Systems. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012 , 18, 283-295	3.8	35
94	Femtosecond Fluorescence Upconversion Studies of Light Harvesting by β -Carotene in Oxygenic Photosynthetic Core Proteins. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19029-19035	3.4	35
93	Electronic Energy Transfer in Photosynthetic Bacterial Reaction Centers. <i>Israel Journal of Chemistry</i> , 1988 , 28, 169-175	3.4	35
92	Generalized master equation with non-Markovian multichromophoric Förster resonance energy transfer for modular exciton densities. <i>Physical Review Letters</i> , 2014 , 113, 188102	7.4	34
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90	Isomerization Dynamics of 1,1'-Diethyl-4,4'-Cyanine (1144C) Studied by Different Third-Order Nonlinear Spectroscopic Measurements. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 10187-10195	2.8	34
89	Solvent-induced nonadiabatic transitions in iodine: An ultrafast pump-probe computational study. <i>Journal of Chemical Physics</i> , 1996 , 105, 3035-3056	3.9	34
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