Cho Minhaeng

List of Publications by Year in Descending Order

310 papers	13,345 citations	56 h-index	103 g-index
335 ext. papers	14,496 ext. citations	6.1 avg, IF	6.8 L-index

#	Paper	IF	Citations
310	Time-resolved spectroscopy of thioflavin T solutions: Asynchronous optical sampling method with two frequency-upconverted mode-locked lasers.. *Journal of Chemical Physics*, **2022**, 156, 064201	3.9	
309	Vibrational Modes Promoting Exciton Relaxation in the B850 Band of LH2.. *Journal of Physical Chemistry Letters*, **2022**, 1099-1106	6.4	2
308	Midwavelength Infrared Colloidal Nanowire Laser.. *Journal of Physical Chemistry Letters*, **2022**, 1431-1437	6.4	
307	Tailoring Transition Dipole Moment in Colloidal Nanocrystal Thin Film on Nanocomposite Materials. *Advanced Optical Materials*, **2022**, 10, 2102050	8.1	2
306	Solvation structure of phosphonium ionic liquid/ CH 3 SCN mixture as electrolytes for Li-ion batteries: Infrared pump-probe spectroscopic studies. *Bulletin of the Korean Chemical Society*, **2022**, 43, 215-221	1.2	0
305	TfNNN: A ¹⁵N-Labeled Diazo-Transfer Reagent for the Synthesis of ¹⁵N-Labeled Azides.. *ACS Omega* , **2022**, 7, 293-298	3.9	0
304	Dynamic Water Promotes Lithium-Ion Transport in Superconcentrated and Eutectic Aqueous Electrolytes. *ACS Energy Letters*, **2022**, 7, 189-196	20.1	5
303	Time-Variable Chiroptical Vibrational Sum-Frequency Generation Spectroscopy of Chiral Chemical Solution. *Journal of Physical Chemistry Letters*, **2021**, 12, 10218-10224	6.4	0
302	Coherent Nonlinear Spectroscopy with Multiple Mode-Locked Lasers. *Journal of Physical Chemistry Letters*, **2021**, 12, 10284-10294	6.4	2
301	Broadband Infrared Spectroscopy of Molecules in Solutions with Two Intrapulse Difference-Frequency-Generated Mid-Infrared Frequency Combs. *Journal of Physical Chemistry B*, **2021**, 125, 307-316	3.4	2
300	Ultrafast intraband Auger process in self-doped colloidal quantum dots. *Matter*, **2021**, 4, 1072-1086	12.7	4
299	Operando Raman and UV-Vis spectroscopic investigation of the coloring and bleaching mechanism of self-powered photochromic devices for smart windows. *Nano Energy*, **2021**, 82, 105721	17.1	7
298	Wettability of graphene and interfacial water structure. *CheM*, **2021**, 7, 1602-1614	16.2	12
297	Real-Time Reaction Monitoring with In Operando Flow NMR and FTIR Spectroscopy: Reaction Mechanism of Benzoxazole Synthesis. *Analytical Chemistry*, **2021**, 93, 2106-2113	7.8	3
296	Low-Frequency Vibronic Mixing Modulates the Excitation Energy Flow in Bacterial Light-Harvesting Complex II. *Journal of Physical Chemistry Letters*, **2021**, 12, 6292-6298	6.4	4
295	Quantitative complementarity of wave-particle duality. *Science Advances*, **2021**, 7,	14.3	2
294	Substituent Effects on the Vibrational Properties of the CN Stretch Mode of Aromatic Nitriles: IR Probes Useful for Time-resolved IR Spectroscopy. *Chemistry - an Asian Journal*, **2021**, 16, 2626-2632	4.5	3

293	Adsorbed Water Structure on Acrylate-Based Biocompatible Polymer Surface. *Journal of Physical Chemistry Letters*, **2021**, 12, 9275-9282	6.4	2
292	Solvation Structure around Li Ions in Organic Carbonate Electrolytes: Spacer-Free Thin Cell IR Spectroscopy. *Analytical Chemistry*, **2021**, 93, 12594-12601	7.8	3
291	Machine Learning Approach for Describing Water OH Stretch Vibrations. *Journal of Chemical Theory and Computation*, **2021**, 17, 6353-6365	6.4	2
290	Quantum mechanical/molecular mechanical approach for the simulation of UV□Vis absorption spectra of □conjugated oligomers. *Journal of Molecular Liquids*, **2021**, 341, 117406	6	
289	Two-dimensional electronic spectroscopy of bacteriochlorophyll a with synchronized dual mode-locked lasers. *Nature Communications*, **2020**, 11, 6029	17.4	11
288	Modeling and Simulation of Concentrated Aqueous Solutions of LiTFSI for Battery Applications. *Journal of Physical Chemistry C*, **2020**, 124, 11790-11799	3.8	18
287	Shot-Noise-Limited Two-Color Stimulated Raman Scattering Microscopy with a Balanced Detection Scheme. *Journal of Physical Chemistry B*, **2020**, 124, 2591-2599	3.4	6
286	Time-Resolved Impulsive Stimulated Raman Spectroscopy with Synchronized Triple Mode-Locked Lasers. *Journal of Physical Chemistry Letters*, **2020**, 11, 2864-2869	6.4	8
285	Vibrational Spectroscopic Map, Vibrational Spectroscopy, and Intermolecular Interaction. *Chemical Reviews*, **2020**, 120, 7152-7218	68.1	87
284	New Insights into the Photodegradation Mechanism of the PTB7-Th Film: Photooxidation of □Conjugated Backbone upon Sunlight Illumination. *Journal of Physical Chemistry C*, **2020**, 124, 2762-2770	3.8	10
283	Machine learning approach for describing vibrational solvatochromism. *Journal of Chemical Physics*, **2020**, 152, 174101	3.9	8
282	An Efficient Switching-Off of Coherent Anti-Stokes Raman Scattering via Double Stimulated Raman Scattering Processes of Heteromolecular Vibrational Modes. *Journal of Physical Chemistry B*, **2020**, 124, 3583-3590	3.4	2
281	Three-dimensional interferometric scattering microscopy via remote focusing technique. *Optics Letters*, **2020**, 45, 2628-2631	3	4
280	Effect of isotope substitution on the Fermi resonance and vibrational lifetime of unnatural amino acids modified with IR probe: A 2D-IR and pump-probe study of 4-azido-L-phenyl alanine. *Journal of Chemical Physics*, **2020**, 153, 164309	3.9	4
279	Vibrational Lifetime of the SCN Protein Label in HO and DO Reports Site-Specific Solvation and Structure Changes During PYP's Photocycle. *Analytical Chemistry*, **2020**, 92, 1024-1032	7.8	13
278	Molecular Rovibrational Spectroscopy with Undetected Photons via Single-Photon Interferometry. *Physical Review Applied*, **2020**, 14,	4.3	3
277	Fluorescence-Combined Interferometric Scattering Imaging Reveals Nanoscale Dynamic Events of Single Nascent Adhesions in Living Cells. *Journal of Physical Chemistry Letters*, **2020**, 11, 10233-10241	6.4	3
276	Two-Dimensional Electronic-Vibrational Spectroscopy Reveals Cross-Correlation between Solvation Dynamics and Vibrational Spectral Diffusion. *Journal of Physical Chemistry B*, **2020**, 124, 11222-11235	3.4	9

275	Two-dimensional IR spectroscopy reveals a hidden Fermi resonance band in the azido stretch spectrum of azidoalanine. *Physical Chemistry Chemical Physics*, **2020**, 22, 19223-19229	3.6	5
274	Water hydrogen-bonding structure and dynamics near lipid multibilayer surface: Molecular dynamics simulation study with direct experimental comparison. *Journal of Chemical Physics*, **2019**, 151, 114705	3.9	13
273	Water Structure and Dynamics in the Stern Layer of Micelles: Femtosecond Mid-Infrared Pump-Probe Spectroscopy Study. *Journal of Physical Chemistry B*, **2019**, 123, 5238-5245	3.4	7
272	Rational Design of an Acetylenic Infrared Probe with Enhanced Dipole Strength and Increased Vibrational Lifetime. *Journal of Physical Chemistry B*, **2019**, 123, 6274-6281	3.4	5
271	Two-Dimensional Infrared Spectroscopy and Molecular Dynamics Simulation Studies of Nonaqueous Lithium Ion Battery Electrolytes. *Journal of Physical Chemistry B*, **2019**, 123, 6651-6663	3.4	27
270	Cytoplasmic Protein Imaging with Mid-Infrared Photothermal Microscopy: Cellular Dynamics of Live Neurons and Oligodendrocytes. *Journal of Physical Chemistry Letters*, **2019**, 10, 2857-2861	6.4	18
269	Theory of coherent two-dimensional vibrational spectroscopy. *Journal of Chemical Physics*, **2019**, 150, 100901	3.9	20
268	Ab initio Modeling of the Vibrational Sum-Frequency Generation Spectrum of Interfacial Water. *Journal of Physical Chemistry Letters*, **2019**, 10, 1153-1158	6.4	16
267	Two-Dimensional Electronic Spectroscopy of Gold Nanorods: Nodal Line Slope Analysis and Spectral Interference. *Springer Series in Optical Sciences*, **2019**, 125-143	0.5	
266	Differential evolution algorithm approach for describing vibrational solvatochromism. *Journal of Chemical Physics*, **2019**, 151, 134112	3.9	4
265	Dual frequency comb photon echo spectroscopy. *Journal of the Optical Society of America B: Optical Physics*, **2019**, 36, 223	1.7	5
264	Theory of three-pulse photon echo spectroscopy with dual frequency combs. *Journal of the Optical Society of America B: Optical Physics*, **2019**, 36, 3196	1.7	2
263	Interferometric quantum spectroscopy with undetected photons via distinguishability modulation. *Optics Express*, **2019**, 27, 14853-14870	3.3	5
262	Vibrational spectroscopy and imaging with non-resonant coherent anti-Stokes Raman scattering: double stimulated Raman scattering scheme. *Optics Express*, **2019**, 27, 23558-23575	3.3	6
261	Introduction to Coherent Multidimensional Spectroscopy. *Springer Series in Optical Sciences*, **2019**, 1-34	0.5	1
260	Nonlinear Spectroscopy of Chromophores in Condensed Phases with Multiple Frequency Combs. *Springer Series in Optical Sciences*, **2019**, 355-379	0.5	
259	Two-dimensional infrared spectroscopic study of cytochrome peroxidase activity in deep eutectic solvent. *Structural Dynamics*, **2019**, 6, 064703	3.2	4
258	Simultaneous enhancement of transition dipole strength and vibrational lifetime of an alkyne IR probe via backbonding and vibrational decoupling. *Physical Chemistry Chemical Physics*, **2019**, 21, 24919-24925	3.6	3

257	Ultrafast Chemical Exchange Dynamics of Hydrogen Bonds Observed via Isonitrile Infrared Sensors: Implications for Biomolecular Studies. *Journal of Physical Chemistry Letters*, **2019**, 10, 7878-7883	6.4	6
256	Dual frequency-comb spectroscopy of chromophores in condensed phases. *Chemical Physics*, **2019**, 520, 122-137	2.3	10
255	Electron heating and thermal relaxation of gold nanorods revealed by two-dimensional electronic spectroscopy. *Nature Communications*, **2018**, 9, 891	17.4	13
254	Graph Theory and Ion and Molecular Aggregation in Aqueous Solutions. *Annual Review of Physical Chemistry*, **2018**, 69, 125-149	15.7	31
253	Spectral modulation of stimulated Raman scattering signal: Beyond weak Raman pump limit. *Journal of Raman Spectroscopy*, **2018**, 49, 607-620	2.3	11
252	Effect of Osmolytes on the Conformational Behavior of a Macromolecule in a Cytoplasm-like Crowded Environment: A Femtosecond Mid-IR Pump-Probe Spectroscopy Study. *Journal of Physical Chemistry Letters*, **2018**, 9, 724-731	6.4	7
251	Interferometric Scattering Microscopy with Polarization-Selective Dual Detection Scheme: Capturing the Orientational Information of Anisotropic Nanometric Objects. *ACS Photonics*, **2018**, 5, 797-804	6.3	18
250	Three-beam double stimulated Raman scatterings. *Journal of Chemical Physics*, **2018**, 148, 014201	3.9	9
249	The Bend+Libration Combination Band Is an Intrinsic, Collective, and Strongly Solute-Dependent Reporter on the Hydrogen Bonding Network of Liquid Water. *Journal of Physical Chemistry B*, **2018**, 122, 2587-2599	3.4	42
248	A Direct, Quantitative Connection between Molecular Dynamics Simulations and Vibrational Probe Line Shapes. *Journal of Physical Chemistry Letters*, **2018**, 9, 2560-2567	6.4	20
247	Dual-Frequency Comb Transient Absorption: Broad Dynamic Range Measurement of Femtosecond to Nanosecond Relaxation Processes. *Journal of Physical Chemistry Letters*, **2018**, 9, 1866-1871	6.4	19
246	Three-beam double stimulated Raman scatterings: Cascading configuration. *Journal of Chemical Physics*, **2018**, 148, 114201	3.9	7
245	Dual-comb spectroscopy of molecular electronic transitions in condensed phases. *Physical Review A* , **2018**, 97,	2.6	11
244	Cyanamide as an Infrared Reporter: Comparison of Vibrational Properties between Nitriles Bonded to N and C Atoms. *Journal of Physical Chemistry B*, **2018**, 122, 4035-4044	3.4	19
243	Label-free and live cell imaging by interferometric scattering microscopy. *Chemical Science*, **2018**, 9, 2690-2697	9.4	22
242	Fluorescence enhancement of a ligand-activated fluorescent protein induced by collective noncovalent interactions. *Chemical Science*, **2018**, 9, 8325-8336	9.4	8
241	Femtosecond Vibrational Sum-Frequency Generation Spectroscopy of Chiral Molecules in Isotropic Liquid. *Journal of Physical Chemistry Letters*, **2018**, 9, 6723-6730	6.4	3
240	Do Osmolytes Impact the Structure and Dynamics of Myoglobin?. *Molecules*, **2018**, 23,	4.8	5

239	Selective suppression of CARS signal with two competing stimulated Raman scattering processes. *Journal of Chemical Physics*, **2018**, 149, 234202	3.9	5
238	Interferometric Measurement of Transient Absorption and Refraction Spectra with Dual Frequency Comb. *Journal of Physical Chemistry B*, **2018**, 122, 9775-9785	3.4	11
237	Nanometric Water Channels in Water-in-Salt Lithium Ion Battery Electrolyte. *Journal of the American Chemical Society*, **2018**, 140, 15661-15667	16.4	88
236	How Molecular Crowding Differs from Macromolecular Crowding: A Femtosecond Mid-Infrared Pump-Probe Study. *Journal of Physical Chemistry Letters*, **2018**, 9, 6584-6592	6.4	7
235	Frequency comb single-photon interferometry. *Communications Physics*, **2018**, 1,	5.4	15
234	Unveiling the pathway to Z-DNA in the protein-induced B-Z transition. *Nucleic Acids Research*, **2018**, 46, 4129-4137	20.1	23
233	Selective suppression of CARS signal with three-beam competing stimulated Raman scattering processes. *Physical Chemistry Chemical Physics*, **2018**, 20, 17156-17170	3.6	12
232	Quantum optical measurement with tripartite entangled photons generated by triple parametric down-conversion. *Journal of Chemical Physics*, **2018**, 148, 184111	3.9	2
231	Effect of vibrational pre-excitation on sub-femtosecond structural evolution of water cation in 2A1 state. *Chemical Physics*, **2018**, 515, 400-410	2.3	
230	Ultrafast fluxional exchange dynamics in electrolyte solvation sheath of lithium ion battery. *Nature Communications*, **2017**, 8, 14658	17.4	53
229	Role of Solvent Water in the Temperature-Induced Self-Assembly of a Triblock Copolymer. *Journal of Physical Chemistry Letters*, **2017**, 8, 3040-3047	6.4	7
228	Vibrational Probes: From Small Molecule Solvatochromism Theory and Experiments to Applications in Complex Systems. *Accounts of Chemical Research*, **2017**, 50, 968-976	24.3	81
227	Studying Water Hydrogen-Bonding Network near the Lipid Multibilayer with Multiple IR Probes. *Journal of Physical Chemistry A*, **2017**, 121, 1435-1441	2.8	13
226	Ion aggregation in high salt solutions. VII. The effect of cations on the structures of ion aggregates and water hydrogen-bonding network. *Journal of Chemical Physics*, **2017**, 147, 154107	3.9	22
225	The effect of Hofmeister anions on water structure at protein surfaces. *Physical Chemistry Chemical Physics*, **2017**, 19, 20008-20015	3.6	16
224	Quantum optical measurements with undetected photons through vacuum field indistinguishability. *Scientific Reports*, **2017**, 7, 6558	4.9	8
223	Hydrogen bonding and vibrational energy relaxation of interfacial water: A full DFT molecular dynamics simulation. *Journal of Chemical Physics*, **2017**, 147, 044707	3.9	16
222	Selective Suppression of Stimulated Raman Scattering with Another Competing Stimulated Raman Scattering. *Journal of Physical Chemistry Letters*, **2017**, 8, 6118-6123	6.4	30

221	Revealing the Solvation Structure and Dynamics of Carbonate Electrolytes in Lithium-Ion Batteries by Two-Dimensional Infrared Spectrum Modeling. *Journal of Physical Chemistry Letters*, **2017**, 8, 5779-5784	6.4	35
220	Isonitrile as an Ultrasensitive Infrared Reporter of Hydrogen-Bonding Structure and Dynamics. *Journal of Physical Chemistry B*, **2016**, 120, 10167-10180	3.4	31
219	Water Dynamics in Cytoplasm-Like Crowded Environment Correlates with the Conformational Transition of the Macromolecular Crowder. *Journal of the American Chemical Society*, **2016**, 138, 16081-16088	16.4	33
218	Vibrational solvatochromism of nitrile infrared probes: beyond the vibrational Stark dipole approach. *Physical Chemistry Chemical Physics*, **2016**, 18, 18094-111	3.6	59
217	Computational Vibrational Spectroscopy of HDO in Osmolyte-Water Solutions. *Journal of Physical Chemistry A*, **2016**, 120, 5874-86	2.8	11
216	Water Hydrogen-Bonding Network Structure and Dynamics at Phospholipid Multibilayer Surface: Femtosecond Mid-IR Pump-Probe Spectroscopy. *Journal of Physical Chemistry Letters*, **2016**, 7, 741-5	6.4	26
215	Unexpected solution phase formation of hollow PtSn alloy nanoparticles from Sn deposition on Pt dendritic structures. *CrystEngComm*, **2016**, 18, 6019-6023	3.3	4
214	Ion aggregation in high salt solutions. V. Graph entropy analyses of ion aggregate structure and water hydrogen bonding network. *Journal of Chemical Physics*, **2016**, 144, 204126	3.9	13
213	Ion aggregation in high salt solutions. VI. Spectral graph analysis of chaotropic ion aggregates. *Journal of Chemical Physics*, **2016**, 145, 174501	3.9	22
212	Site-Specific Characterization of Cytochrome P450cam Conformations by Infrared Spectroscopy. *Analytical Chemistry*, **2016**, 88, 6598-606	7.8	21
211	Water Structure at the Lipid Multibilayer Surface: Anionic Versus Cationic Head Group Effects. *Journal of Physical Chemistry B*, **2016**, 120, 5002-7	3.4	13
210	Modulation of the Hydrogen Bonding Structure of Water by Renal Osmolytes. *Journal of Physical Chemistry Letters*, **2015**, 6, 2773-9	6.4	27
209	Distributed Multipolar Expansion Approach to Calculation of Excitation Energy Transfer Couplings. *Journal of Chemical Theory and Computation*, **2015**, 11, 3259-66	6.4	19
208	Isocyanoalanine as an IR probe: comparison of vibrational dynamics between isonitrile and nitrile-derivatized IR probes. *Physical Chemistry Chemical Physics*, **2015**, 17, 11770-8	3.6	27
207	Quantum Beats and Phase Shifts in Two-Dimensional Electronic Spectra of Zinc Naphthalocyanine Monomer and Aggregate. *Journal of Physical Chemistry Letters*, **2015**, 6, 4314-8	6.4	10
206	Spectral Graph Analyses of Water Hydrogen-Bonding Network and Osmolyte Aggregate Structures in Osmolyte-Water Solutions. *Journal of Physical Chemistry B*, **2015**, 119, 14402-12	3.4	31
205	Ion aggregation in high salt solutions. III. Computational vibrational spectroscopy of HDO in aqueous salt solutions. *Journal of Chemical Physics*, **2015**, 142, 204102	3.9	17
204	Chiroptical signal enhancement in quasi-null-polarization-detection geometry: Intrinsic limitations. *Physical Review A*, **2015**, 91,	2.6	9

203	Ion aggregation in high salt solutions. IV. Graph-theoretical analyses of ion aggregate structure and water hydrogen bonding network. *Journal of Chemical Physics*, **2015**, 143, 104110	3.9	20
202	Vibrational solvatochromism. III. Rigorous treatment of the dispersion interaction contribution. *Journal of Chemical Physics*, **2015**, 143, 164111	3.9	26
201	Ultrafast Structural Fluctuations of Myoglobin-Bound Thiocyanate and Selenocyanate Ions Measured with Two-Dimensional Infrared Photon Echo Spectroscopy. *ChemPhysChem*, **2015**, 16, 3468-76	3.2	13
200	Simultaneous spectral and temporal analyses of kinetic energies in nonequilibrium systems: theory and application to vibrational relaxation of O-D stretch mode of HOD in water. *Journal of Physical Chemistry A*, **2015**, 119, 5356-67	2.8	16
199	Globally enhanced chiral field generation by negative-index metamaterials. *Physical Review B*, **2014**, 89,	3.3	36
198	Terahertz chiroptical spectroscopy of an α-helical polypeptide: a molecular dynamics simulation study. *Journal of Physical Chemistry B*, **2014**, 118, 12837-43	3.4	16
197	An accurate classical simulation of a two-dimensional vibrational spectrum: OD stretch spectrum of a hydrated HOD molecule. *Journal of Physical Chemistry B*, **2014**, 118, 8148-61	3.4	14
196	Infrared Pump-Probe Study of Nanoconfined Water Structure in Reverse Micelle. *Journal of Physical Chemistry Letters*, **2014**, 5, 3404-7	6.4	16
195	Ion aggregation in high salt solutions: ion network versus ion cluster. *Journal of Chemical Physics*, **2014**, 141, 124510	3.9	40
194	Vibrational solvatochromism. II. A first-principle theory of solvation-induced vibrational frequency shift based on effective fragment potential method. *Journal of Chemical Physics*, **2014**, 140, 164107	3.9	36
193	Vibrational dynamics of thiocyanate and selenocyanate bound to horse heart myoglobin. *Journal of Chemical Physics*, **2014**, 140, 235104	3.9	14
192	Neighboring residue effects in terminally blocked dipeptides: implications for residual secondary structures in intrinsically unfolded/disordered proteins. *Chirality*, **2014**, 26, 443-52	2.1	9
191	Ion aggregation in high salt solutions. II. Spectral graph analysis of water hydrogen-bonding network and ion aggregate structures. *Journal of Chemical Physics*, **2014**, 141, 154502	3.9	40
190	Amide I IR probing of core and shell hydrogen-bond structures in reverse micelles. *Pure and Applied Chemistry*, **2014**, 86, 135-149	2.1	3
189	Amplifications in chiroptical spectroscopy, optical enantioselectivity, and weak value measurement. *Chemical Science*, **2013**, 4, 4107	9.4	24
188	Induced optical activity of DNA-templated cyanine dye aggregates: exciton coupling theory and TD-DFT studies. *Journal of Physical Chemistry A*, **2013**, 117, 5909-18	2.8	12
187	Ultrafast intermolecular vibrational excitation transfer from solute to solvent: Observation of intermediate states. *Chemical Physics*, **2013**, 422, 37-46	2.3	17
186	Infrared probes for studying the structure and dynamics of biomolecules. *Chemical Reviews*, **2013**, 113, 5817-47	68.1	171

185	Computational IR spectroscopy of water: OH stretch frequencies, transition dipoles, and intermolecular vibrational coupling constants. *Journal of Chemical Physics*, **2013**, 138, 174108	3.9	52
184	Infrared Probes Based on Nitrile-Derivatized Prolines: Thermal Insulation Effect and Enhanced Dynamic Range. *Journal of Physical Chemistry Letters*, **2013**, 4, 2105-2110	6.4	46
183	Connection between chiroptical signal enhancements and weak values. *Physical Review A*, **2013**, 88,	2.6	1
182	Computational infrared and two-dimensional infrared photon echo spectroscopy of both wild-type and double mutant myoglobin-CO proteins. *Journal of Physical Chemistry B*, **2013**, 117, 15462-78	3.4	19
181	Vibrational solvatochromism: towards systematic approach to modeling solvation phenomena. *Journal of Chemical Physics*, **2013**, 139, 044111	3.9	30
180	Heterodyne Detection of Electronic Optical Activity in Time-Domain: Single-Shot Chiroptical Spectrometry. *EPJ Web of Conferences*, **2013**, 41, 12012	0.3	
179	Limitations of a superchiral field. *Physical Review A*, **2012**, 86,	2.6	56
178	Rotational dynamics of thiocyanate ions in highly concentrated aqueous solutions. *Physical Chemistry Chemical Physics*, **2012**, 14, 6233-40	3.6	29
177	Vibrational spectroscopic determination of local solvent electric field, solute-solvent electrostatic interaction energy, and their fluctuation amplitudes. *Journal of Physical Chemistry A*, **2012**, 116, 347-57	2.8	20
176	Coherent electric field characterization of molecular chirality in the time domain. *Chemical Society Reviews*, **2012**, 41, 4457-66	58.5	18
175	Direct simulations of anharmonic infrared spectra using quantum mechanical/effective fragment potential molecular dynamics (QM/EFP-MD): methanol in water. *Journal of Physical Chemistry A*, **2012**, 116, 8965-71	2.8	17
174	Femtosecond Infrared Circular Dichroism and Optical Rotatory Dispersion **2012**, 203-219		
173	Infrared probing of 4-azidoproline conformations modulated by azido configurations. *Journal of Physical Chemistry B*, **2012**, 116, 5097-110	3.4	19
172	Hofmeister anionic effects on hydration electric fields around water and peptide. *Journal of Chemical Physics*, **2012**, 136, 124501	3.9	24
171	A comprehensive library of blocked dipeptides reveals intrinsic backbone conformational propensities of unfolded proteins. *Proteins: Structure, Function and Bioinformatics*, **2012**, 80, 977-90	4.2	29
170	Conformational distributions of denatured and unstructured proteins are similar to those of 20 □ 20 blocked dipeptides. *Journal of Biomolecular NMR*, **2012**, 53, 25-41	3	20
169	Ultrafast internal rotational dynamics of the azido group in (4S)-azidoproline: Chemical exchange 2DIR spectroscopic investigations. *Chemical Physics*, **2012**, 396, 23-29	2.3	19
168	Single-shot electronic optical activity interferometry: power and phase fluctuation-free measurement. *Physical Review Letters*, **2012**, 108, 103901	7.4	26

167	Vibrational solvatochromism and electrochromism. II. Multipole analysis. *Journal of Chemical Physics*, **2012**, 137, 114307	3.9	28
166	Direct Calculations of Mid- and Near-IR Absorption and Circular Dichroism Spectra of Chiral Molecules Using QM/MM Molecular Dynamics Simulation Method. *Journal of Chemical Theory and Computation*, **2011**, 7, 4097-103	6.4	21
165	Broadband near UV to visible optical activity measurement using self-heterodyned method. *Optics Express*, **2011**, 19, 10017-28	3.3	18
164	Phosphorylation alters backbone conformational preferences of serine and threonine peptides. *Proteins: Structure, Function and Bioinformatics*, **2011**, 79, 3155-65	4.2	17
163	Azido Homoalanine is a Useful Infrared Probe for Monitoring Local Electrostatistics and Sidechain Solvation in Proteins. *Journal of Physical Chemistry Letters*, **2011**, 2, 2158-2162	6.4	47
162	Polarization-angle-scanning two-dimensional spectroscopy: application to dipeptide structure determination. *Journal of Physical Chemistry A*, **2011**, 115, 3766-77	2.8	1
161	Polarization-angle-scanning 2DIR spectroscopy of coupled anharmonic oscillators: a polarization null angle method. *Journal of Physical Chemistry B*, **2011**, 115, 5456-64	3.4	12
160	Ion-pairing dynamics of Li+ and SCN- in dimethylformamide solution: chemical exchange two-dimensional infrared spectroscopy. *Journal of Chemical Physics*, **2011**, 134, 064506	3.9	37
159	Vibrational solvatochromism and electrochromism of infrared probe molecules containing C?O, C?N, C=O, or C-F vibrational chromophore. *Journal of Chemical Physics*, **2011**, 134, 154513	3.9	73
158	Redistribution of carbonyl stretch mode energy in isolated and solvated N-methylacetamide: kinetic energy spectral density analyses. *Journal of Chemical Physics*, **2011**, 135, 214504	3.9	15
157	Chiroptical nature of two-exciton states of light-harvesting complex: Doubly resonant three-wave-mixing spectroscopy. *Journal of Chemical Physics*, **2010**, 132, 225102	3.9	2
156	Calculations of vibrationally resonant sum- and difference-frequency-generation spectra of chiral molecules in solutions: three-wave-mixing vibrational optical activity. *Journal of Chemical Physics*, **2010**, 132, 074506	3.9	8
155	Direct quantum mechanical/molecular mechanical simulations of two-dimensional vibrational responses:N-methylacetamide in water. *New Journal of Physics*, **2010**, 12, 065001	2.9	37
154	Azido gauche effect on the backbone conformation of azidoalanine peptides. *Journal of Physical Chemistry B*, **2010**, 114, 13021-9	3.4	26
153	Ultrafast vibrational spectroscopy of cyanophenols. *Journal of Physical Chemistry A*, **2010**, 114, 2757-67	2.8	17
152	Vibrational solvatochromism and electrochromism of cyanide, thiocyanate, and azide anions in water. *Physical Chemistry Chemical Physics*, **2010**, 12, 12658-69	3.6	54
151	Communication: Polarization-angle-scanning two-dimensional infrared spectroscopy of antiparallel sheet polypeptide: additional dimensions in two-dimensional optical spectroscopy. *Journal of Chemical Physics*, **2010**, 133, 241102	3.9	5
150	Infrared optical activity: electric field approaches in time domain. *Accounts of Chemical Research*, **2010**, 43, 1527-36	24.3	29

149	Real-time probing of ion pairing dynamics with 2DIR spectroscopy. *ChemPhysChem*, **2010**, 11, 3632-7	3.2	37
148	Vibrational Circular Dichroism: Time-Domain Approaches **2010**, 223-239		
147	Circular dichroism eigenspectra of polyproline II and β-strand conformers of trialanine in water: Singular value decomposition analysis. *Chirality*, **2010**, 22 Suppl 1, E186-201	2.1	36
146	Integrated and dispersed photon echo studies of nitrile stretching vibration of 4-cyanophenol in methanol. *Journal of Chemical Physics*, **2009**, 130, 204509	3.9	19
145	Amide I Raman optical activity of polypeptides: fragment approximation. *Journal of Chemical Physics*, **2009**, 130, 014503	3.9	18
144	Vibrational solvatochromism and electrochromism: coarse-grained models and their relationships. *Journal of Chemical Physics*, **2009**, 130, 094505	3.9	66
143	Direct calculations of vibrational absorption and circular dichroism spectra of alanine dipeptide analog in water: quantum mechanical/molecular mechanical molecular dynamics simulations. *Journal of Chemical Physics*, **2009**, 131, 135102	3.9	37
142	Femtosecond measurements of vibrational circular dichroism and optical rotatory dispersion spectra. *ChemPhysChem*, **2009**, 10, 2209-11	3.2	26
141	Femtosecond characterization of vibrational optical activity of chiral molecules. *Nature*, **2009**, 458, 310-3	50.4	134
140	Calculations of intermode coupling constants and simulations of amide I, II, and III vibrational spectra of dipeptides. *Chemical Physics*, **2009**, 361, 168-175	2.3	25
139	Computational vibrational spectroscopy of peptides and proteins in one and two dimensions. *Accounts of Chemical Research*, **2009**, 42, 1280-9	24.3	76
138	Difference frequency generation spectroscopy as a vibrational optical activity measurement tool. *Journal of Physical Chemistry A*, **2009**, 113, 2438-45	2.8	5
137	Chirality transfer effects in proline-substituted coumarin compounds. *Journal of Physical Chemistry B*, **2009**, 113, 11301-5	3.4	5
136	Phase sensitive detection of vibrational optical activity free-induction-decay: vibrational CD and ORD. *Journal of the Optical Society of America B: Optical Physics*, **2009**, 26, 1008	1.7	20
135	Classical and quantum mechanical/molecular mechanical molecular dynamics simulations of alanine dipeptide in water: comparisons with IR and vibrational circular dichroism spectra. *Journal of Chemical Physics*, **2008**, 128, 105106	3.9	75
134	Two-dimensional nonlinear optical activity spectroscopy of coupled multi-chromophore system. *Physical Chemistry Chemical Physics*, **2008**, 10, 3839-56	3.6	19
133	Site-selective intramolecular hydrogen-bonding interactions in phosphorylated serine and threonine dipeptides. *Journal of Physical Chemistry B*, **2008**, 112, 16782-7	3.4	15
132	Photolytic control and infrared probing of amide I mode in the dipeptide backbone-caged with the 4,5-dimethoxy-2-nitrobenzyl group. *Journal of Physical Chemistry B*, **2008**, 112, 2128-35	3.4	8

131	Coherent two-dimensional optical spectroscopy. *Chemical Reviews*, **2008**, 108, 1331-418	68.1	621
130	Beta-azidoalanine as an IR probe: application to amyloid Abeta(16-22) aggregation. *Journal of Physical Chemistry B*, **2008**, 112, 10352-7	3.4	97
129	Azido-derivatized compounds as IR probes of local electrostatic environment: Theoretical studies. *Journal of Chemical Physics*, **2008**, 129, 174512	3.9	69
128	Ultrafast exciton transfers in DNA and its nonlinear optical spectroscopy. *Journal of Chemical Physics*, **2008**, 128, 135102	3.9	14
127	Nitrile and thiocyanate IR probes: quantum chemistry calculation studies and multivariate least-square fitting analysis. *Journal of Chemical Physics*, **2008**, 128, 134506	3.9	154
126	Femtosecond spectral interferometry of optical activity: theory. *Journal of Chemical Physics*, **2008**, 129, 094507	3.9	25
125	Nitrile and thiocyanate IR probes: molecular dynamics simulation studies. *Journal of Chemical Physics*, **2008**, 128, 154504	3.9	113
124	Interaction between excitons determines the non-linear response of nanocrystals. *Chemical Physics*, **2008**, 350, 56-68	2.3	17
123	Two-dimensional circularly polarized IR photon echo spectroscopy of polypeptides: four-wave-mixing optical activity measurement. *Journal of Physical Chemistry A*, **2007**, 111, 5176-84	2.8	12
122	Thermal denaturation of polyalanine peptide in water by molecular dynamics simulations and theoretical prediction of infrared spectra: helix-coil transition kinetics. *Journal of Physical Chemistry B*, **2007**, 111, 605-17	3.4	18
121	Electron Transfer and Solvent Dynamics in Two- and Three-State Systems. *Advances in Chemical Physics*, **2007**, 311-370		22
120	Computational spectroscopy of ubiquitin: comparison between theory and experiments. *Journal of Chemical Physics*, **2007**, 126, 045102	3.9	70
119	Dipeptide structure determination by vibrational circular dichroism combined with quantum chemistry calculations. *ChemPhysChem*, **2007**, 8, 2218-26	3.2	18
118	Doubly resonant two-dimensional three-wave-mixing spectroscopy of polypeptides: Structure□pectrum relationships. *Chemical Physics*, **2007**, 337, 81-92	2.3	5
117	Nonlinear optical activity measurement spectroscopy of coupled multi-chromophore systems. *Chemical Physics*, **2007**, 341, 57-70	2.3	6
116	Vibrational dynamics of DNA: IV. Vibrational spectroscopic characteristics of A-, B-, and Z-form DNA's. *Journal of Chemical Physics*, **2007**, 126, 145102	3.9	31
115	Phosphorylation effect on the GSSS peptide conformation in water: infrared, vibrational circular dichroism, and circular dichroism experiments and comparisons with molecular dynamics simulations. *Journal of Chemical Physics*, **2007**, 126, 235102	3.9	16
114	Ultrafast exciton-exciton coherent transfer in molecular aggregates and its application to light-harvesting systems. *Journal of Chemical Physics*, **2007**, 127, 075101	3.9	21

113	Doubly resonant three-wave-mixing spectroscopy of a chiral coupled-chromophore system in solution: coherent two-dimensional optical activity spectroscopy. *Journal of Chemical Physics*, **2007**, 126, 054505	3.9	10
112	Quadrupole contribution to the third-order optical activity spectroscopy. *Journal of Chemical Physics*, **2007**, 127, 024507	3.9	8
111	Vibrational spectroscopic characteristics of secondary structure polypeptides in liquid water: constrained MD simulation studies. *Biopolymers*, **2006**, 83, 519-36	2.2	37
110	Vibrational dynamics of DNA. II. Deuterium exchange effects and simulated IR absorption spectra. *Journal of Chemical Physics*, **2006**, 125, 114509	3.9	46
109	Vibrational dynamics of DNA. III. Molecular dynamics simulations of DNA in water and theoretical calculations of the two-dimensional vibrational spectra. *Journal of Chemical Physics*, **2006**, 125, 114510	3.9	39
108	Vibrational dynamics of DNA. I. Vibrational basis modes and couplings. *Journal of Chemical Physics*, **2006**, 125, 114508	3.9	61
107	Phenol-benzene complexation dynamics: quantum chemistry calculation, molecular dynamics simulations, and two dimensional IR spectroscopy. *Journal of Chemical Physics*, **2006**, 125, 244508	3.9	47
106	Structure of N-acetylproline amide in liquid water: experimentally measured and numerically simulated infrared and vibrational circular dichroism spectra. *Journal of Physical Chemistry B*, **2006**, 110, 18834-43	3.4	37
105	Site-specific hydrogen-bonding interaction between N-acetylproline amide and protic solvent molecules: comparisons of IR and VCD measurements with MD simulations. *Journal of Physical Chemistry A*, **2006**, 110, 13355-65	2.8	20
104	Electronic 2D Spectroscopy of Light Harvesting **2006**, 331-336		
103	Two Dimensional Electronic Spectroscopy of Molecular Complexes. *Journal of the Chinese Chemical Society*, **2006**, 53, 15-24	1.5	49
102	Coherent Two-Dimensional Optical Spectroscopy **2006**, 91-111		
101	The integrated photon echo and solvation dynamics. II. Peak shifts and two-dimensional photon echo of a coupled chromophore system. *Journal of Chemical Physics*, **2005**, 123, 114506	3.9	56
100	Amide I vibrational circular dichroism of polypeptides: generalized fragmentation approximation method. *Journal of Chemical Physics*, **2005**, 122, 174903	3.9	45
99	Characteristic two-dimensional IR spectroscopic features of antiparallel and parallel beta-sheet polypeptides: simulation studies. *Journal of Chemical Physics*, **2005**, 123, 084905	3.9	71
98	Theoretical study of internal field effects on peptide amide I modes. *Journal of Physical Chemistry B* , **2005**, 109, 5331-40	3.4	19
97	IR spectra of N-methylacetamide in water predicted by combined quantum mechanical/molecular mechanical molecular dynamics simulations. *Journal of Chemical Physics*, **2005**, 123, 134503	3.9	48
96	Amide I vibrational dynamics of N-methylacetamide in polar solvents: the role of electrostatic interactions. *Journal of Physical Chemistry B*, **2005**, 109, 11016-26	3.4	201

95	Exciton analysis in 2D electronic spectroscopy. *Journal of Physical Chemistry B*, **2005**, 109, 10542-56	3.4	360
94	Two-dimensional spectroscopy of electronic couplings in photosynthesis. *Nature*, **2005**, 434, 625-8	50.4	992
93	High Efficiency and Quadratic Nonlinear Optical Properties of a Fully Optimized 2D Octupolar Crystal Characterized by Nonlinear Microscopy. *Advanced Materials*, **2005**, 17, 196-200	24	48
92	Hydrogen bonding dynamics and two-dimensional vibrational spectroscopy: N-methylacetamide in liquid methanol. *Journal of Raman Spectroscopy*, **2005**, 36, 326-336	2.3	22
91	Amide I IR, VCD, and 2d IR spectra of isotope-labeled α-helix in liquid water: Numerical simulation studies. *International Journal of Quantum Chemistry*, **2005**, 104, 616-634	2.1	65
90	Simulation studies of amide I IR absorption and two-dimensional IR spectra of beta hairpins in liquid water. *Journal of Physical Chemistry B*, **2005**, 109, 11789-801	3.4	93
89	Circularly polarized infrared and visible sum-frequency-generation spectroscopy: Vibrational optical activity measurement. *Physical Review A*, **2005**, 71,	2.6	13
88	Non-Gaussian statistics of amide I mode frequency fluctuation of N-methylacetamide in methanol solution: linear and nonlinear vibrational spectra. *Journal of Chemical Physics*, **2004**, 120, 1477-90	3.9	124
87	Local Amide I Mode Frequencies and Coupling Constants in Multiple-Stranded Antiparallel β-Sheet Polypeptides. *Journal of Physical Chemistry B*, **2004**, 108, 20397-20407	3.4	79
86	Amide I Modes of α-Helical Polypeptide in Liquid Water: ´Conformational Fluctuation, Phase Correlation, and Linear and Nonlinear Vibrational Spectra. *Journal of Physical Chemistry B*, **2004**, 108, 9333-9345	3.4	74
85	Amide I vibrational circular dichroism of dipeptide: Conformation dependence and fragment analysis. *Journal of Chemical Physics*, **2004**, 120, 4383-92	3.9	60
84	Theoretical calculations of infrared absorption, vibrational circular dichroism, and two-dimensional vibrational spectra of acetylproline in liquids water and chloroform. *Journal of Chemical Physics*, **2004**, 121, 1849-65	3.9	41
83	Molecular dynamics simulation study of N-methylacetamide in water. I. Amide I mode frequency fluctuation. *Journal of Chemical Physics*, **2003**, 119, 2247-2255	3.9	193
82	Two-Color Pump−Probe Spectroscopies of Two- and Three-Level Systems: 2-Dimensional Line Shapes and Solvation Dynamics. *Journal of Physical Chemistry A*, **2003**, 107, 5903-5912	2.8	72
81	Correlation between electronic and molecular structure distortions and vibrational properties. II. Amide I modes of NMA−D2O complexes. *Journal of Chemical Physics*, **2003**, 118, 3491-3498	3.9	231
80	Local Amide I Mode Frequencies and Coupling Constants in Polypeptides. *Journal of Physical Chemistry B*, **2003**, 107, 9132-9138	3.4	131
79	Two-dimensional circularly polarized pump−probe spectroscopy. *Journal of Chemical Physics*, **2003**, 119, 7003-7016	3.9	24
78	Correlation between electronic and molecular structure distortions and vibrational properties. I. Adiabatic approximations. *Journal of Chemical Physics*, **2003**, 118, 3480-3490	3.9	62

77	Amide I modes in the N-methylacetamide dimer and glycine dipeptide analog: Diagonal force constants. *Journal of Chemical Physics*, **2003**, 118, 6915-6922	3.9	124
76	Amide I modes of tripeptides: Hessian matrix reconstruction and isotope effects. *Journal of Chemical Physics*, **2003**, 119, 1451-1461	3.9	116
75	Molecular dynamics simulation study of N-methylacetamide in water. II. Two-dimensional infrared pump□probe spectra. *Journal of Chemical Physics*, **2003**, 119, 2256-2263	3.9	170
74	Interplay of the Intramolecular Water Vibrations and Hydrogen Bond in N-Methylacetamide-Water Complexes: Ab Initio Calculation Studies. *Bulletin of the Korean Chemical Society*, **2003**, 24, 1061-1068	1.2	16
73	Two-color Transient Grating Spectroscopy of a Two-level System. *Bulletin of the Korean Chemical Society*, **2003**, 24, 1069-1074	1.2	1
72	Nonlinear optical and two-photon absorbtion properties of 1,3,5-tricyano-2,4,6-tris(styryl)benzene-containing octupolar oligomers. *Chemistry - A European Journal*, **2002**, 8, 3907-16	4.8	93
71	Time-resolved vibrational optical activity measurement by the infrared-visible sum-frequency-generation with circularly polarized infrared light. *Journal of Chemical Physics*, **2002**, 116, 1562-1570	3.9	22
70	Nonlinear optical properties of tetrahedral donor□cceptor octupolar molecules: Effective five-state model approach. *Journal of Chemical Physics*, **2002**, 116, 9165-9173	3.9	42
69	Vibrational interactions of acetonitrile: Doubly vibrationally resonant IR□R□isible four-wave-mixing spectroscopy. *Journal of Chemical Physics*, **2002**, 117, 5675-5687	3.9	45
68	Inter-peptide interaction and delocalization of amide I vibrational excitons in myoglobin and flavodoxin. *Journal of Chemical Physics*, **2002**, 117, 6821-6832	3.9	63
67	Amide I vibrational modes in glycine dipeptide analog: Ab initio calculation studies. *Journal of Chemical Physics*, **2002**, 117, 740-750	3.9	69
66	Lateral interactions between adsorbed molecules: Investigations of CO on Ru(001) using nonlinear surface vibrational spectroscopies. *Physical Review B*, **2002**, 65,	3.3	31
65	Ultrafast vibrational spectroscopy in condensed phases. *PhysChemComm*, **2002**, 5, 40		27
64	Doubly vibrationally resonant spectroscopy of CO on Ru(0 0 1). *Surface Science*, **2002**, 502-503, 123-128	1.8	5
63	Fifth-order electronically non-resonant Raman scattering: two-dimensional Fourier deconvolution. *Chemical Physics*, **2001**, 266, 251-271	2.3	14
62	Effects of temperature on the nonlinear response function for two-dimensional vibrational spectroscopy. *Journal of Chemical Physics*, **2001**, 115, 1422-1428	3.9	21
61	Nonlinear response functions for the three-dimensional spectroscopies. *Journal of Chemical Physics* , **2001**, 115, 4424-4437	3.9	47
60	Femtosecond vibrational-electronic four-wave-mixing spectroscopy. *Journal of Chemical Physics*, **2001**, 114, 8040-8047	3.9	7

59	Novel surface vibrational spectroscopy: infrared-infrared-visible sum-frequency generation. *Physical Review Letters*, **2001**, 86, 1566-9	7.4	48
58	1,3,5-Tricyano-2,4,6-tris(vinyl)benzene derivatives with large second-order nonlinear optical properties. *Journal of the American Chemical Society*, **2001**, 123, 6421-2	16.4	68
57	Two photon absorption properties of 1,3,5-tricyano-2,4,6-tris(styryl)benzene derivatives. *Journal of the American Chemical Society*, **2001**, 123, 10039-45	16.4	289
56	Two-photon absorption and nonlinear optical properties of octupolar molecules. *Journal of the American Chemical Society*, **2001**, 123, 10658-67	16.4	177
55	Two-dimensional vibrational spectroscopy. VIII. Infrared optical Kerr effect and two-color infrared pump□probe measurements. *Journal of Chemical Physics*, **2001**, 114, 9982-9992	3.9	5
54	Octupolar Crystals for Nonlinear Optics: 1,3,5-Trinitro-2,4,6-tris(styryl)benzene Derivatives. *Chemistry of Materials*, **2001**, 13, 1438-1440	9.6	66
53	Two-dimensional vibrational spectroscopy. IV. Relationship between through-space vibrational coupling and intermolecular distance. *Journal of Chemical Physics*, **2000**, 112, 4553-4556	3.9	37
52	Two-dimensional vibrational spectroscopy. VI. Higher-order contributions to the two-dimensional vibrational response functions. *Journal of Chemical Physics*, **2000**, 112, 10496-10509	3.9	12
51	Two-dimensional vibrational spectroscopy. V. Novel 2-dimensional surface vibrational spectroscopies of adsorbed molecules on surfaces or at interfaces. *Journal of Chemical Physics*, **2000**, 112, 9978-9985	3.9	23
50	Theoretical description of the nonlinear response functions associated with eight distinctive three-dimensional vibrational spectroscopies. *Journal of Chemical Physics*, **2000**, 112, 5021-5036	3.9	19
49	Two-dimensional vibrational spectroscopy. VII. Investigation of the vibronic and vibrational couplings by using novel triply resonant two-dimensional vibrational spectroscopies. *Journal of Chemical Physics*, **2000**, 113, 7746-7755	3.9	13
48	Calculation of the two-dimensional vibrational response function. *Journal of Chemical Physics*, **2000**, 113, 7072-7083	3.9	28
47	Theoretical description of two-dimensional vibrational spectroscopy by infrared-infrared-visible sum frequency generation. *Physical Review A*, **2000**, 61,	2.6	51
46	Triply resonant infrared-infrared-visible sum frequency generation: Three-dimensional vibronic spectroscopy for the investigation of vibrational and vibronic couplings. *Journal of Chemical Physics*, **2000**, 112, 9002-9014	3.9	16
45	Intrinsic cascading contributions to the fifth- and seventh-order electronically off-resonant Raman spectroscopies. *Journal of Chemical Physics*, **2000**, 112, 2082-2094	3.9	56
44	Two-Photon Absorption and Second Hyperpolarizability of the Linear Quadrupolar Molecule. *Journal of Physical Chemistry A*, **2000**, 104, 11033-11040	2.8	55
43	Confinement-induced enhancement or suppression of the resonant dipole□dipole interaction. *Journal of Chemical Physics*, **1999**, 110, 4998-5010	3.9	10
42	Two-dimensional vibrational spectroscopy. III. Theoretical description of the coherent two-dimensional IR-Raman spectroscopy for the investigation of the coupling between both IR- and Raman-active vibrational modes. *Journal of Chemical Physics*, **1999**, 111, 4140-4147	3.9	32

41	Theoretical description of the vibrational echo spectroscopy by time-resolved infrared–infrared–visible difference-frequency generation. *Journal of Chemical Physics*, **1999**, 111, 10587-10594	3.9	13
40	Two-dimensional vibrational spectroscopy. II. Ab initio calculation of the coherent 2D infrared response function of CHCl3 and comparison with the 2D Raman response function. *Journal of Chemical Physics*, **1999**, 111, 4131-4139	3.9	28
39	Nonlinear Optical Properties of the Linear Quadrupolar Molecule: Structure–Function Relationship Based on a Three-State Model. *Journal of Physical Chemistry B*, **1999**, 103, 8221-8229	3.4	57
38	Two-dimensional vibrational spectroscopy. I. Theoretical calculation of the nonlinear Raman response function of CHCl3. *Journal of Chemical Physics*, **1999**, 111, 4121-4130	3.9	37
37	Nonlinear Optical (NLO) Properties of the Octupolar Molecule: Structure–Function Relationships and Solvent Effects. *Journal of Physical Chemistry B*, **1999**, 103, 4992-4996	3.4	44
36	Vibrational Properties and Vibrational First-Hyperpolarizability of an Octupolar Molecule Based on a Valence-Bond Three Charge-Transfer (VB-3CT) Model. *Journal of Physical Chemistry A*, **1999**, 103, 4712-4718	2.8	17
35	TWO-DIMENSIONAL VIBRATIONAL SPECTROSCOPY. *Advances in Multi-photon Processes and Spectroscopy*, **1999**, 229-300		19
34	On the resonant coherent two-dimensional Raman scattering. *Journal of Chemical Physics*, **1998**, 109, 5327-5337	3.9	19
33	Molecular Polarizability and First Hyperpolarizability of Octupolar Molecules: Donor-Substituted Triphenylmethane Dyes. *Journal of the American Chemical Society*, **1998**, 120, 10921-10927	16.4	67
32	Vibrational Characteristics and Vibrational Contributions to the Nonlinear Optical Properties of a Push–Pull Polyene in Solution. *Journal of Physical Chemistry A*, **1998**, 102, 703-707	2.8	33
31	Dynamics of Nematic MBBA Film Induced by Transient Grating under a Strong Absorption Condition. *Journal of Physical Chemistry B*, **1998**, 102, 7705-7713	3.4	10
30	An elementary description of nonlinear optical properties of octupolar molecules: Four-state model for guanidinium-type molecules. *Journal of Chemical Physics*, **1998**, 108, 7114-7120	3.9	39
29	Fifth-order coherent light scattering: Extension of the Kramers–Heisenberg expression for light scattering and two-dimensional measurement of vibrational dynamics. *Journal of Chemical Physics*, **1998**, 109, 6227-6236	3.9	13
28	Coherent two-dimensional Raman scattering: Frequency-domain measurement of the intra- and intermolecular vibrational interactions. *Journal of Chemical Physics*, **1998**, 108, 1326-1334	3.9	66
27	Time- and frequency-resolved coherent two-dimensional IR spectroscopy: Its complementary relationship with the coherent two-dimensional Raman scattering spectroscopy. *Journal of Chemical Physics*, **1998**, 109, 10559-10569	3.9	41
26	Six-wave mixing spectroscopy: Resonant coherent hyper-Raman scattering. *Journal of Chemical Physics*, **1998**, 108, 4013-4020	3.9	10
25	Resonant coherent hyper-Raman scattering (CHRS). II. A theory on the general relationship between CHRS and coherent Raman scattering (CRS) processes. *Journal of Chemical Physics*, **1998**, 109, 2194-2201	3.9	2
24	On the transition from nonadiabatic to adiabatic rate kernel: Schwinger's stationary variational principle and Padé approximation. *Journal of Chemical Physics*, **1997**, 106, 2654-2661	3.9	21

23	Off-resonant coherent hyper-Raman scattering spectroscopy. *Journal of Chemical Physics*, **1997**, 106, 7550-7557	3.9	10
22	Spontaneous emission in lipid-water system. *Journal of Chemical Physics*, **1997**, 107, 4499-4506	3.9	3
21	Vibrational contributions to the molecular first and second hyperpolarizabilities of a push□pull polyene. *Journal of Chemical Physics*, **1997**, 107, 1936-1940	3.9	48
20	Excited state dynamics of chromophores in glasses and in photosynthetic proteins. *Faraday Discussions*, **1997**, 108, 23-34	3.6	26
19	Operator differential equation approach to the dissipative two-state system. *Physica A: Statistical Mechanics and Its Applications*, **1997**, 241, 593-605	3.3	
18	CHROMOPHORE-SOLVENT DYNAMICS. *Annual Review of Physical Chemistry*, **1996**, 47, 109-134	15.7	579
17	Suppression and enhancement of van der Waals interactions. *Journal of Chemical Physics*, **1996**, 104, 8730-8741	3.9	25
16	The Integrated Photon Echo and Solvation Dynamics. *The Journal of Physical Chemistry*, **1996**, 100, 11944-11953		248
15	Alternative model of dissipation in quantum mechanics. *Physical Review E*, **1996**, 53, 4184-4186	2.4	2
14	Vibrational relaxation rates of a polar molecule in polar liquids. *Journal of Chemical Physics*, **1996**, 105, 10755-10765	3.9	10
13	Nonequilibrium photoinduced electron transfer. *Journal of Chemical Physics*, **1995**, 103, 595-606	3.9	112
12	Excitation transfer in the vicinity of a dielectric surface. *Chemical Physics Letters*, **1995**, 242, 291-296	2.5	22
11	Fifth-Order Three-Pulse Scattering Spectroscopy: Can We Separate Homogeneous and Inhomogeneous Contributions to Optical Spectra?. *The Journal of Physical Chemistry*, **1994**, 98, 3478-3485		56
10	The short-time dynamics of solvation. *Journal of Chemical Physics*, **1994**, 100, 6700-6708	3.9	141
9	Instantaneous normal mode analysis of liquid water. *Journal of Chemical Physics*, **1994**, 100, 6672-6683	3.9	315
8	Nonlinear response functions for birefringence and dichroism measurements in condensed phases. *Journal of Chemical Physics*, **1993**, 98, 5314-5326	3.9	51
7	Photon echo measurements in liquids: Numerical calculations with model systems. *Journal of Chemical Physics*, **1993**, 98, 2848-2859	3.9	53
6	Off-resonant transient birefringence in liquids. *Journal of Chemical Physics*, **1993**, 99, 2410-2428	3.9	231

5	Ultrafast solvent dynamics: Connection between time resolved fluorescence and optical Kerr measurements. *Journal of Chemical Physics*, **1992**, 96, 5033-5038	3.9	191
4	Photon echoes and related four-wave-mixing spectroscopies using phase-locked pulses. *Journal of Chemical Physics*, **1992**, 96, 5618-5629	3.9	134
3	Kinetics of the carboxypeptidase A-catalyzed hydrolysis of β(benzoylamino)cinnamoyl derivatives of various amino acids. *Bioorganic Chemistry*, **1990**, 18, 276-282	5.1	1
2	Two-Dimensional Optical Spectroscopy		314
1	Ion Transport in Super-Concentrated Aqueous Electrolytes for Lithium-Ion Batteries. *Journal of Physical Chemistry C*,	3.8	2