Cho Minhaeng

List of Publications by Year
in descending order

317 papers	15,531 citations	20759 60 h-index	24915 109 g-index
336 all docs	336 docs citations	336 times ranked	7906 citing authors

#	Article	IF	Citations
1	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.	1.2	2
2	Vibrational Modes Promoting Exciton Relaxation in the B850 Band of LH2. Journal of Physical Chemistry Letters, 2022, 13, 1099-1106.	2.1	8
3	Label-Free Live-Cell Imaging of Internalized Microplastics and Cytoplasmic Organelles with Multicolor CARS Microscopy. Environmental Science & Technology, 2022, 56, 3045-3055.	4.6	5
4	Midwavelength Infrared Colloidal Nanowire Laser. Journal of Physical Chemistry Letters, 2022, 13, 1431-1437.	2.1	1
5	Femtosecond multidimensional spectroscopy with multiple repetition-frequency-stabilized lasers: tutorial. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 934.	0.9	3
6	Direct observation of protein structural transitions through entire amyloid aggregation processes in water using 2D-IR spectroscopy. Chemical Science, 2022, 13, 4482-4489.	3.7	17
7	Tailoring Transition Dipole Moment in Colloidal Nanocrystal Thin Film on Nanocomposite Materials. Advanced Optical Materials, 2022, 10, 2102050.	3.6	2
8	Solvation structure of phosphonium ionic liquid/<scp>CH₃SCN</scp> mixture as electrolytes for Liâ€ion batteries: Infrared pumpâ€probe spectroscopic studies. Bulletin of the Korean Chemical Society, 2022, 43, 215-221.	1.0	4
9	TfNN¹⁵N: A Î³-¹⁵N-Labeled Diazo-Transfer Reagent for the Synthesis of Î²-¹⁵N-Labeled Azides. ACS Omega, 2022, 7, 293-298.	1.6	3
10	Dynamic Water Promotes Lithium-Ion Transport in Superconcentrated and Eutectic Aqueous Electrolytes. ACS Energy Letters, 2022, 7, 189-196.	8.8	17
11	Real-Time Reaction Monitoring with In Operando Flow NMR and FTIR Spectroscopy: Reaction Mechanism of Benzoxazole Synthesis. Analytical Chemistry, 2021, 93, 2106-2113.	3.2	17
12	Ultrafast intraband Auger process in self-doped colloidal quantum dots. Matter, 2021, 4, 1072-1086.	5.0	6
13	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.	8.2	34
14	Wettability of graphene and interfacial water structure. CheM, 2021, 7, 1602-1614.	5.8	33
15	Low-Frequency Vibronic Mixing Modulates the Excitation Energy Flow in Bacterial Light-Harvesting Complex II. Journal of Physical Chemistry Letters, 2021, 12, 6292-6298.	2.1	8
16	Quantitative complementarity of wave-particle duality. Science Advances, 2021, 7, .	4.7	13
17	Substituent Effects on the Vibrational Properties of the CN Stretch Mode of Aromatic Nitriles: IR Probes Useful for Timeâ€resolved IR Spectroscopy. Chemistry - an Asian Journal, 2021, 16, 2626-2632.	1.7	11
18	Adsorbed Water Structure on Acrylate-Based Biocompatible Polymer Surface. Journal of Physical Chemistry Letters, 2021, 12, 9275-9282.	2.1	6

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19	Solvation Structure around Li⁺ Ions in Organic Carbonate Electrolytes: Spacer-Free Thin Cell IR Spectroscopy. Analytical Chemistry, 2021, 93, 12594-12601.	3.2	13
20	Machine Learning Approach for Describing Water OH Stretch Vibrations. Journal of Chemical Theory and Computation, 2021, 17, 6353-6365.	2.3	7
21	Quantum mechanical/molecular mechanical approach for the simulation of UVâ€“Vis absorption spectra of Ï€-conjugated oligomers. Journal of Molecular Liquids, 2021, 341, 117406.	2.3	1
22	Time-Variable Chiroptical Vibrational Sum-Frequency Generation Spectroscopy of Chiral Chemical Solution. Journal of Physical Chemistry Letters, 2021, 12, 10218-10224.	2.1	4
23	Ion Transport in Super-Concentrated Aqueous Electrolytes for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2021, 125, 23622-23633.	1.5	8
24	Coherent Nonlinear Spectroscopy with Multiple Mode-Locked Lasers. Journal of Physical Chemistry Letters, 2021, 12, 10284-10294.	2.1	9
25	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.	1.2	4
26	Vibrational Lifetime of the SCN Protein Label in H₂O and D₂O Reports Site-Specific Solvation and Structure Changes During PYPâ€™s Photocycle. Analytical Chemistry, 2020, 92, 1024-1032.	3.2	17
27	Molecular Rovibrational Spectroscopy with Undetected Photons via Single-Photon Interferometry. Physical Review Applied, 2020, 14, .	1.5	3
28	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.	2.1	12
29	Two-Dimensional Electronicâ€“Vibrational Spectroscopy Reveals Cross-Correlation between Solvation Dynamics and Vibrational Spectral Diffusion. Journal of Physical Chemistry B, 2020, 124, 11222-11235.	1.2	12
30	Two-dimensional IR spectroscopy reveals a hidden Fermi resonance band in the azido stretch spectrum of Î²-azidoalanine. Physical Chemistry Chemical Physics, 2020, 22, 19223-19229.	1.3	12
31	Two-dimensional electronic spectroscopy of bacteriochlorophyll a with synchronized dual mode-locked lasers. Nature Communications, 2020, 11, 6029.	5.8	19
32	Modeling and Simulation of Concentrated Aqueous Solutions of LiTFSI for Battery Applications. Journal of Physical Chemistry C, 2020, 124, 11790-11799.	1.5	35
33	Shot-Noise-Limited Two-Color Stimulated Raman Scattering Microscopy with a Balanced Detection Scheme. Journal of Physical Chemistry B, 2020, 124, 2591-2599.	1.2	9
34	Time-Resolved Impulsive Stimulated Raman Spectroscopy with Synchronized Triple Mode-Locked Lasers. Journal of Physical Chemistry Letters, 2020, 11, 2864-2869.	2.1	19
35	Vibrational Spectroscopic Map, Vibrational Spectroscopy, and Intermolecular Interaction. Chemical Reviews, 2020, 120, 7152-7218.	23.0	205
36	New Insights into the Photodegradation Mechanism of the PTB7-Th Film: Photooxidation of Ï€-Conjugated Backbone upon Sunlight Illumination. Journal of Physical Chemistry C, 2020, 124, 2762-2770.	1.5	23

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37	Machine learning approach for describing vibrational solvatochromism. Journal of Chemical Physics, 2020, 152, 174101.	1.2	11
38	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.	1.2	5
39	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.	1.2	16
40	Three-dimensional interferometric scattering microscopy via remote focusing technique. Optics Letters, 2020, 45, 2628.	1.7	9
41	Molecular Vibration Spectroscopy with Undetected Photons. , 2020, , .		0
42	Two-Dimensional Electronic Spectroscopy of Gold Nanorods: Nodal Line Slope Analysis and Spectral Interference. Springer Series in Optical Sciences, 2019, , 125-143.	0.5	1
43	Differential evolution algorithm approach for describing vibrational solvatochromism. Journal of Chemical Physics, 2019, 151, 134112.	1.2	5
44	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.	1.2	15
45	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.	1.2	12
46	Rational Design of an Acetylenic Infrared Probe with Enhanced Dipole Strength and Increased Vibrational Lifetime. Journal of Physical Chemistry B, 2019, 123, 6274-6281.	1.2	14
47	Two-Dimensional Infrared Spectroscopy and Molecular Dynamics Simulation Studies of Nonaqueous Lithium Ion Battery Electrolytes. Journal of Physical Chemistry B, 2019, 123, 6651-6663.	1.2	37
48	Cytoplasmic Protein Imaging with Mid-Infrared Photothermal Microscopy: Cellular Dynamics of Live Neurons and Oligodendrocytes. Journal of Physical Chemistry Letters, 2019, 10, 2857-2861.	2.1	43
49	Theory of coherent two-dimensional vibrational spectroscopy. Journal of Chemical Physics, 2019, 150, 100901.	1.2	40
50	Ab initio Modeling of the Vibrational Sum-Frequency Generation Spectrum of Interfacial Water. Journal of Physical Chemistry Letters, 2019, 10, 1153-1158.	2.1	30
51	Two-dimensional infrared spectroscopic study of cytochrome c peroxidase activity in deep eutectic solvent. Structural Dynamics, 2019, 6, 064703.	0.9	5
52	Simultaneous enhancement of transition dipole strength and vibrational lifetime of an alkyne IR probe via Ï€-d backbonding and vibrational decoupling. Physical Chemistry Chemical Physics, 2019, 21, 24919-24925.	1.3	9
53	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.	2.1	7
54	Dual frequency-comb spectroscopy of chromophores in condensed phases. Chemical Physics, 2019, 520, 122-137.	0.9	13

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55	Dual frequency comb photon echo spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 223.	0.9	10
56	Theory of three-pulse photon echo spectroscopy with dual frequency combs. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3196.	0.9	5
57	Interferometric quantum spectroscopy with undetected photons via distinguishability modulation. Optics Express, 2019, 27, 14853.	1.7	10
58	Vibrational spectroscopy and imaging with non-resonant coherent anti-Stokes Raman scattering: double stimulated Raman scattering scheme. Optics Express, 2019, 27, 23558.	1.7	9
59	Introduction to Coherent Multidimensional Spectroscopy. Springer Series in Optical Sciences, 2019, , 1-34.	0.5	1
60	Nonlinear Spectroscopy of Chromophores in Condensed Phases with Multiple Frequency Combs. Springer Series in Optical Sciences, 2019, , 355-379.	0.5	0
61	Frequency Comb single photon interferometry for optical measurement with undetected photons. , 2019, , .		0
62	Electron heating and thermal relaxation of gold nanorods revealed by two-dimensional electronic spectroscopy. Nature Communications, 2018, 9, 891.	5.8	20
63	Graph Theory and Ion and Molecular Aggregation in Aqueous Solutions. Annual Review of Physical Chemistry, 2018, 69, 125-149.	4.8	51
64	Spectral modulation of stimulated Raman scattering signal: Beyond weak Raman pump limit. Journal of Raman Spectroscopy, 2018, 49, 607-620.	1.2	13
65	Effect of Osmolytes on the Conformational Behavior of a Macromolecule in a Cytoplasm-like Crowded Environment: A Femtosecond Mid-IR Pumpâ€“Probe Spectroscopy Study. Journal of Physical Chemistry Letters, 2018, 9, 724-731.	2.1	10
66	Interferometric Scattering Microscopy with Polarization-Selective Dual Detection Scheme: Capturing the Orientational Information of Anisotropic Nanometric Objects. ACS Photonics, 2018, 5, 797-804.	3.2	31
67	Three-beam double stimulated Raman scatterings. Journal of Chemical Physics, 2018, 148, 014201.	1.2	14
68	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.	1.2	76
69	A Direct, Quantitative Connection between Molecular Dynamics Simulations and Vibrational Probe Line Shapes. Journal of Physical Chemistry Letters, 2018, 9, 2560-2567.	2.1	25
70	Dual-Frequency Comb Transient Absorption: Broad Dynamic Range Measurement of Femtosecond to Nanosecond Relaxation Processes. Journal of Physical Chemistry Letters, 2018, 9, 1866-1871.	2.1	24
71	Three-beam double stimulated Raman scatterings: Cascading configuration. Journal of Chemical Physics, 2018, 148, 114201.	1.2	9
72	Dual-comb spectroscopy of molecular electronic transitions in condensed phases. Physical Review A, 2018, 97, .	1.0	14

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73	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.	1.2	22
74	Label-free and live cell imaging by interferometric scattering microscopy. Chemical Science, 2018, 9, 2690-2697.	3.7	45
75	Fluorescence enhancement of a ligand-activated fluorescent protein induced by collective noncovalent interactions. Chemical Science, 2018, 9, 8325-8336.	3.7	13
76	Femtosecond Vibrational Sum-Frequency Generation Spectroscopy of Chiral Molecules in Isotropic Liquid. Journal of Physical Chemistry Letters, 2018, 9, 6723-6730.	2.1	6
77	Do Osmolytes Impact the Structure and Dynamics of Myoglobin?. Molecules, 2018, 23, 3189.	1.7	8
78	Selective suppression of CARS signal with two competing stimulated Raman scattering processes. Journal of Chemical Physics, 2018, 149, 234202.	1.2	6
79	Interferometric Measurement of Transient Absorption and Refraction Spectra with Dual Frequency Comb. Journal of Physical Chemistry B, 2018, 122, 9775-9785.	1.2	18
80	Nanometric Water Channels in Water-in-Salt Lithium Ion Battery Electrolyte. Journal of the American Chemical Society, 2018, 140, 15661-15667.	6.6	144
81	How Molecular Crowding Differs from Macromolecular Crowding: A Femtosecond Mid-Infrared Pumpâ€“Probe Study. Journal of Physical Chemistry Letters, 2018, 9, 6584-6592.	2.1	13
82	Frequency comb single-photon interferometry. Communications Physics, 2018, 1, .	2.0	21
83	Unveiling the pathway to Z-DNA in the protein-induced Bâ€“Z transition. Nucleic Acids Research, 2018, 46, 4129-4137.	6.5	36
84	Selective suppression of CARS signal with three-beam competing stimulated Raman scattering processes. Physical Chemistry Chemical Physics, 2018, 20, 17156-17170.	1.3	16
85	Quantum optical measurement with tripartite entangled photons generated by triple parametric down-conversion. Journal of Chemical Physics, 2018, 148, 184111.	1.2	2
86	Effect of vibrational pre-excitation on sub-femtosecond structural evolution of water cation in 2A1 state. Chemical Physics, 2018, 515, 400-410.	0.9	0
87	Ultrafast fluxional exchange dynamics in electrolyte solvation sheath of lithium ion battery. Nature Communications, 2017, 8, 14658.	5.8	68
88	Role of Solvent Water in the Temperature-Induced Self-Assembly of a Triblock Copolymer. Journal of Physical Chemistry Letters, 2017, 8, 3040-3047.	2.1	8
89	Vibrational Probes: From Small Molecule Solvatochromism Theory and Experiments to Applications in Complex Systems. Accounts of Chemical Research, 2017, 50, 968-976.	7.6	98
90	Studying Water Hydrogen-Bonding Network near the Lipid Multibilayer with Multiple IR Probes. Journal of Physical Chemistry A, 2017, 121, 1435-1441.	1.1	15

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91	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.	1.2	29
92	The effect of Hofmeister anions on water structure at protein surfaces. Physical Chemistry Chemical Physics, 2017, 19, 20008-20015.	1.3	22
93	Quantum optical measurements with undetected photons through vacuum field indistinguishability. Scientific Reports, 2017, 7, 6558.	1.6	11
94	Hydrogen bonding and vibrational energy relaxation of interfacial water: A full DFT molecular dynamics simulation. Journal of Chemical Physics, 2017, 147, 044707.	1.2	20
95	Selective Suppression of Stimulated Raman Scattering with Another Competing Stimulated Raman Scattering. Journal of Physical Chemistry Letters, 2017, 8, 6118-6123.	2.1	42
96	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.	2.1	44
97	Unexpected solution phase formation of hollow PtSn alloy nanoparticles from Sn deposition on Pt dendritic structures. CrystEngComm, 2016, 18, 6019-6023.	1.3	5
98	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.	1.2	15
99	Ion aggregation in high salt solutions. VI. Spectral graph analysis of chaotropic ion aggregates. Journal of Chemical Physics, 2016, 145, 174501.	1.2	24
100	Site-Specific Characterization of Cytochrome P450cam Conformations by Infrared Spectroscopy. Analytical Chemistry, 2016, 88, 6598-6606.	3.2	23
101	Water Structure at the Lipid Multibilayer Surface: Anionic Versus Cationic Head Group Effects. Journal of Physical Chemistry B, 2016, 120, 5002-5007.	1.2	15
102	Isonitrile as an Ultrasensitive Infrared Reporter of Hydrogen-Bonding Structure and Dynamics. Journal of Physical Chemistry B, 2016, 120, 10167-10180.	1.2	37
103	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.	6.6	39
104	Vibrational solvatochromism of nitrile infrared probes: beyond the vibrational Stark dipole approach. Physical Chemistry Chemical Physics, 2016, 18, 18094-18111.	1.3	73
105	Computational Vibrational Spectroscopy of HDO in Osmolyteâ€“Water Solutions. Journal of Physical Chemistry A, 2016, 120, 5874-5886.	1.1	12
106	Water Hydrogen-Bonding Network Structure and Dynamics at Phospholipid Multibilayer Surface: Femtosecond Mid-IR Pumpâ€“Probe Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 741-745.	2.1	31
107	Chiroptical signal enhancement in quasi-null-polarization-detection geometry: Intrinsic limitations. Physical Review A, 2015, 91, .	1.0	9
108	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.	1.2	27

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109	Vibrational solvatochromism. III. Rigorous treatment of the dispersion interaction contribution. Journal of Chemical Physics, 2015, 143, 164111.	1.2	28
110	Ultrafast Structural Fluctuations of Myoglobinâ€Bound Thiocyanate and Selenocyanate Ions Measured with Twoâ€Dimensional Infrared Photon Echo Spectroscopy. ChemPhysChem, 2015, 16, 3468-3476.	1.0	15
111	Simultaneous Spectral and Temporal Analyses of Kinetic Energies in Nonequilibrium Systems: Theory and Application to Vibrational Relaxation of Oâ€“D Stretch Mode of HOD in Water. Journal of Physical Chemistry A, 2015, 119, 5356-5367.	1.1	19
112	Modulation of the Hydrogen Bonding Structure of Water by Renal Osmolytes. Journal of Physical Chemistry Letters, 2015, 6, 2773-2779.	2.1	34
113	Distributed Multipolar Expansion Approach to Calculation of Excitation Energy Transfer Couplings. Journal of Chemical Theory and Computation, 2015, 11, 3259-3266.	2.3	21
114	Drive round the twist. Nature Physics, 2015, 11, 621-622.	6.5	8
115	Î²-Isocyanoalanine as an IR probe: comparison of vibrational dynamics between isonitrile and nitrile-derivatized IR probes. Physical Chemistry Chemical Physics, 2015, 17, 11770-11778.	1.3	36
116	Quantum Beats and Phase Shifts in Two-Dimensional Electronic Spectra of Zinc Naphthalocyanine Monomer and Aggregate. Journal of Physical Chemistry Letters, 2015, 6, 4314-4318.	2.1	10
117	Spectral Graph Analyses of Water Hydrogen-Bonding Network and Osmolyte Aggregate Structures in Osmolyteâ€“Water Solutions. Journal of Physical Chemistry B, 2015, 119, 14402-14412.	1.2	37
118	Ion aggregation in high salt solutions. III. Computational vibrational spectroscopy of HDO in aqueous salt solutions. Journal of Chemical Physics, 2015, 142, 204102.	1.2	18
119	Ion aggregation in high salt solutions: Ion network versus ion cluster. Journal of Chemical Physics, 2014, 141, 124510.	1.2	52
120	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.	1.2	40
121	Vibrational dynamics of thiocyanate and selenocyanate bound to horse heart myoglobin. Journal of Chemical Physics, 2014, 140, 235104.	1.2	15
122	Neighboring Residue Effects in Terminally Blocked Dipeptides: Implications for Residual Secondary Structures in Intrinsically Unfolded/Disordered Proteins. Chirality, 2014, 26, 443-452.	1.3	11
123	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.	1.2	49
124	Amide I IR probing of core and shell hydrogen-bond structures in reverse micelles. Pure and Applied Chemistry, 2014, 86, 135-149.	0.9	3
125	Globally enhanced chiral field generation by negative-index metamaterials. Physical Review B, 2014, 89, .	1.1	44
126	Terahertz Chiroptical Spectroscopy of an Î±-Helical Polypeptide: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2014, 118, 12837-12843.	1.2	27

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127	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, 8148-8161.	1.2	17
128	Infrared Pumpâ€“Probe Study of Nanoconfined Water Structure in Reverse Micelle. Journal of Physical Chemistry Letters, 2014, 5, 3404-3407.	2.1	17
129	Amplifications in chiroptical spectroscopy, optical enantioselectivity, and weak value measurement. Chemical Science, 2013, 4, 4107.	3.7	33
130	Induced Optical Activity of DNA-Templated Cyanine Dye Aggregates: Exciton Coupling Theory and TD-DFT Studies. Journal of Physical Chemistry A, 2013, 117, 5909-5918.	1.1	13
131	Ultrafast intermolecular vibrational excitation transfer from solute to solvent: Observation of intermediate states. Chemical Physics, 2013, 422, 37-46.	0.9	20
132	Infrared Probes for Studying the Structure and Dynamics of Biomolecules. Chemical Reviews, 2013, 113, 5817-5847.	23.0	190
133	Computational IR spectroscopy of water: OH stretch frequencies, transition dipoles, and intermolecular vibrational coupling constants. Journal of Chemical Physics, 2013, 138, 174108.	1.2	58
134	Infrared Probes Based on Nitrile-Derivatized Prolines: Thermal Insulation Effect and Enhanced Dynamic Range. Journal of Physical Chemistry Letters, 2013, 4, 2105-2110.	2.1	51
135	Connection between chiroptical signal enhancements and weak values. Physical Review A, 2013, 88, .	1.0	2
136	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, 15462-15478.	1.2	21
137	Vibrational solvatochromism: Towards systematic approach to modeling solvation phenomena. Journal of Chemical Physics, 2013, 139, 044111.	1.2	34
138	Heterodyne Detection of Electronic Optical Activity in Time-Domain: Single-Shot Chiroptical Spectrometry. EPJ Web of Conferences, 2013, 41, 12012.	0.1	0
139	Single-Shot Electronic Optical Activity Interferometry: Power and Phase Fluctuation-Free Measurement. Physical Review Letters, 2012, 108, 103901.	2.9	32
140	Vibrational solvatochromism and electrochromism. II. Multipole analysis. Journal of Chemical Physics, 2012, 137, 114307.	1.2	30
141	Limitations of a superchiral field. Physical Review A, 2012, 86, .	1.0	61
142	Rotational dynamics of thiocyanate ions in highly concentrated aqueous solutions. Physical Chemistry Chemical Physics, 2012, 14, 6233.	1.3	30
143	Vibrational Spectroscopic Determination of Local Solvent Electric Field, Soluteâ€“Solvent Electrostatic Interaction Energy, and Their Fluctuation Amplitudes. Journal of Physical Chemistry A, 2012, 116, 347-357.	1.1	20
144	Mapping proteinâ€“protein contacts. Nature Chemistry, 2012, 4, 339-341.	6.6	5

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145	Coherent electric field characterization of molecular chirality in the time domain. Chemical Society Reviews, 2012, 41, 4457.	18.7	22
146	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, 8965-8971.	1.1	18
147	Infrared Probing of 4-Azidoproline Conformations Modulated by Azido Configurations. Journal of Physical Chemistry B, 2012, 116, 5097-5110.	1.2	20
148	Hofmeister anionic effects on hydration electric fields around water and peptide. Journal of Chemical Physics, 2012, 136, 124501.	1.2	27
149	A comprehensive library of blocked dipeptides reveals intrinsic backbone conformational propensities of unfolded proteins. Proteins: Structure, Function and Bioinformatics, 2012, 80, 977-990.	1.5	30
150	Conformational distributions of denatured and unstructured proteins are similar to those of 20ÂÃ—Â20 blocked dipeptides. Journal of Biomolecular NMR, 2012, 53, 25-41.	1.6	22
151	Ultrafast internal rotational dynamics of the azido group in (4S)-azidoproline: Chemical exchange 2DIR spectroscopic investigations. Chemical Physics, 2012, 396, 23-29.	0.9	21
152	Azido Homoalanine is a Useful Infrared Probe for Monitoring Local Electrostatistics and Side-Chain Solvation in Proteins. Journal of Physical Chemistry Letters, 2011, 2, 2158-2162.	2.1	52
153	Polarization-Angle-Scanning Two-Dimensional Spectroscopy: Application to Dipeptide Structure Determination. Journal of Physical Chemistry A, 2011, 115, 3766-3777.	1.1	1
154	Polarization-Angle-Scanning 2DIR Spectroscopy of Coupled Anharmonic Oscillators: A Polarization Null Angle Method. Journal of Physical Chemistry B, 2011, 115, 5456-5464.	1.2	13
155	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, 4097-4103.	2.3	29
156	Broadband near UV to visible optical activity measurement using self-heterodyned method. Optics Express, 2011, 19, 10017.	1.7	23
157	Phosphorylation alters backbone conformational preferences of serine and threonine peptides. Proteins: Structure, Function and Bioinformatics, 2011, 79, 3155-3165.	1.5	18
158	Ion-pairing dynamics of Li+ and SCNâ˜ in dimethylformamide solution: Chemical exchange two-dimensional infrared spectroscopy. Journal of Chemical Physics, 2011, 134, 064506.	1.2	43
159	Vibrational solvatochromism and electrochromism of infrared probe molecules containing Câ‰¡O, Câ‰¡N, C=O, or Câ˜F vibrational chromophore. Journal of Chemical Physics, 2011, 134, 154513.	1.2	82
160	Redistribution of carbonyl stretch mode energy in isolated and solvated N-methylacetamide: Kinetic energy spectral density analyses. Journal of Chemical Physics, 2011, 135, 214504.	1.2	16
161	Communication: Polarization-angle-scanning two-dimensional infrared spectroscopy of antiparallel Î²-sheet polypeptide: Additional dimensions in two-dimensional optical spectroscopy. Journal of Chemical Physics, 2010, 133, 241102.	1.2	6
162	Infrared Optical Activity: Electric Field Approaches in Time Domain. Accounts of Chemical Research, 2010, 43, 1527-1536.	7.6	37

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163	Realâ€Time Probing of Ion Pairing Dynamics with 2DIR Spectroscopy. ChemPhysChem, 2010, 11, 3632-3637.	1.0	39
164	Circular dichroism eigenspectra of polyproline II and Î²â€strand conformers of trialanine in water: Singular value decomposition analysis. Chirality, 2010, 22, E186-201.	1.3	39
165	Chiroptical nature of two-exciton states of light-harvesting complex: Doubly resonant three-wave-mixing spectroscopy. Journal of Chemical Physics, 2010, 132, 225102.	1.2	3
166	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.	1.2	10
167	Direct quantum mechanical/molecular mechanical simulations of two-dimensional vibrational responses:N-methylacetamide in water. New Journal of Physics, 2010, 12, 065001.	1.2	40
168	Azido Gauche Effect on the Backbone Conformation of Î²-Azidoalanine Peptides. Journal of Physical Chemistry B, 2010, 114, 13021-13029.	1.2	27
169	Ultrafast Vibrational Spectroscopy of Cyanophenols. Journal of Physical Chemistry A, 2010, 114, 2757-2767.	1.1	19
170	Vibrational solvatochromism and electrochromism of cyanide, thiocyanate, and azide anions in water. Physical Chemistry Chemical Physics, 2010, 12, 12658.	1.3	59
171	Integrated and dispersed photon echo studies of nitrile stretching vibration of 4-cyanophenol in methanol. Journal of Chemical Physics, 2009, 130, 204509.	1.2	20
172	Amide I Raman optical activity of polypeptides: Fragment approximation. Journal of Chemical Physics, 2009, 130, 014503.	1.2	21
173	Vibrational solvatochromism and electrochromism: Coarse-grained models and their relationships. Journal of Chemical Physics, 2009, 130, 094505.	1.2	74
174	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.	1.2	42
175	Femtosecond Measurements of Vibrational Circular Dichroism and Optical Rotatory Dispersion Spectra. ChemPhysChem, 2009, 10, 2209-2211.	1.0	26
176	Femtosecond characterization of vibrational optical activity of chiral molecules. Nature, 2009, 458, 310-313.	13.7	168
177	Calculations of intermode coupling constants and simulations of amide I, II, and III vibrational spectra of dipeptides. Chemical Physics, 2009, 361, 168-175.	0.9	27
178	Computational Vibrational Spectroscopy of Peptides and Proteins in One and Two Dimensions. Accounts of Chemical Research, 2009, 42, 1280-1289.	7.6	82
179	Difference Frequency Generation Spectroscopy as a Vibrational Optical Activity Measurement Tool. Journal of Physical Chemistry A, 2009, 113, 2438-2445.	1.1	5
180	Chirality Transfer Effects in Proline-Substituted Coumarin Compounds. Journal of Physical Chemistry B, 2009, 113, 11301-11305.	1.2	6

#	Article	IF	Citations
181	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.	0.9	25
182	Femtosecond Vibrational Optical Activity and IR Photon Echo Studies of Small Organic Molecules. , 2009, , .		0
183	Interaction between excitons determines the non-linear response of nanocrystals. Chemical Physics, 2008, 350, 56-68.	0.9	18
184	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.	1.2	78
185	Two-dimensional nonlinear optical activity spectroscopy of coupled multi-chromophore system. Physical Chemistry Chemical Physics, 2008, 10, 3839.	1.3	23
186	Site-selective Intramolecular Hydrogen-Bonding Interactions in Phosphorylated Serine and Threonine Dipeptides. Journal of Physical Chemistry B, 2008, 112, 16782-16787.	1.2	16
187	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, 2128-2135.	1.2	10
188	Coherent Two-Dimensional Optical Spectroscopy. Chemical Reviews, 2008, 108, 1331-1418.	23.0	724
189	Î²-Azidoalanine as an IR Probe: Application to Amyloid AÎ²(16-22) Aggregation. Journal of Physical Chemistry B, 2008, 112, 10352-10357.	1.2	108
190	Azido-derivatized compounds as IR probes of local electrostatic environment: Theoretical studies. Journal of Chemical Physics, 2008, 129, 174512.	1.2	72
191	Ultrafast exciton transfers in DNA and its nonlinear optical spectroscopy. Journal of Chemical Physics, 2008, 128, 135102.	1.2	16
192	Nitrile and thiocyanate IR probes: Quantum chemistry calculation studies and multivariate least-square fitting analysis. Journal of Chemical Physics, 2008, 128, 134506.	1.2	168
193	Femtosecond spectral interferometry of optical activity: Theory. Journal of Chemical Physics, 2008, 129, 094507.	1.2	32
194	Nitrile and thiocyanate IR probes: Molecular dynamics simulation studies. Journal of Chemical Physics, 2008, 128, 154504.	1.2	124
195	Vibrational dynamics of DNA: IV. Vibrational spectroscopic characteristics of A-, B-, and Z-form DNAâ€™s. Journal of Chemical Physics, 2007, 126, 145102.	1.2	36
196	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.	1.2	17
197	Ultrafast exciton-exciton coherent transfer in molecular aggregates and its application to light-harvesting systems. Journal of Chemical Physics, 2007, 127, 075101.	1.2	24
198	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.	1.2	11

#	Article	IF	Citations
199	Quadrupole contribution to the third-order optical activity spectroscopy. Journal of Chemical Physics, 2007, 127, 024507.	1.2	10
200	Amide I IR, VCD, and 2D IR Spectra of polypeptide and Ubiquitin: Numerical simulation studies. , 2007, , .		0
201	Coherent multidimensional optical spectroscopy of complex molecular systems. , 2007, , .		0
202	Two-Dimensional Circularly Polarized IR Photon Echo Spectroscopy of Polypeptides:â€‰ Four-Wave-Mixing Optical Activity Measurement. Journal of Physical Chemistry A, 2007, 111, 5176-5184.	1.1	14
203	Thermal Denaturation of Polyalanine Peptide in Water by Molecular Dynamics Simulations and Theoretical Prediction of Infrared Spectra:Â Helixâ^'Coil Transition Kinetics. Journal of Physical Chemistry B, 2007, 111, 605-617.	1.2	19
204	Electron Transfer and Solvent Dynamics in Two- and Three-State Systems. Advances in Chemical Physics, 2007, , 311-370.	0.3	27
205	Computational spectroscopy of ubiquitin: Comparison between theory and experiments. Journal of Chemical Physics, 2007, 126, 045102.	1.2	76
206	Dipeptide Structure Determination by Vibrational Circular Dichroism Combined with Quantum Chemistry Calculations. ChemPhysChem, 2007, 8, 2218-2226.	1.0	19
207	Doubly resonant two-dimensional three-wave-mixing spectroscopy of polypeptides: Structureâ€“spectrum relationships. Chemical Physics, 2007, 337, 81-92.	0.9	6
208	Nonlinear optical activity measurement spectroscopy of coupled multi-chromophore systems. Chemical Physics, 2007, 341, 57-70.	0.9	8
209	Structure ofN-Acetylproline Amide in Liquid Water:Â Experimentally Measured and Numerically Simulated Infrared and Vibrational Circular Dichroism Spectraâ€. Journal of Physical Chemistry B, 2006, 110, 18834-18843.	1.2	38
210	Site-Specific Hydrogen-Bonding Interaction between N-Acetylproline Amide and Protic Solvent Molecules:â€‰ Comparisons of IR and VCD Measurements with MD Simulations. Journal of Physical Chemistry A, 2006, 110, 13355-13365.	1.1	20
211	Electronic 2D Spectroscopy of Light Harvesting. , 2006, , 331-336.		0
212	Two Dimensional Electronic Spectroscopy of Molecular Complexes. Journal of the Chinese Chemical Society, 2006, 53, 15-24.	0.8	64
213	Molecular motion pictures. Nature, 2006, 444, 431-432.	13.7	12
214	Vibrational spectroscopic characteristics of secondary structure polypeptides in liquid water: Constrained MD simulation studies. Biopolymers, 2006, 83, 519-536.	1.2	39
215	Vibrational dynamics of DNA. II. Deuterium exchange effects and simulated IR absorption spectra. Journal of Chemical Physics, 2006, 125, 114509.	1.2	53
216	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.	1.2	43

#	Article	IF	Citations
217	Vibrational dynamics of DNA. I. Vibrational basis modes and couplings. Journal of Chemical Physics, 2006, 125, 114508.	1.2	70
218	Phenol-benzene complexation dynamics: Quantum chemistry calculation, molecular dynamics simulations, and two dimensional IR spectroscopy. Journal of Chemical Physics, 2006, 125, 244508.	1.2	49
219	Coherent Two-Dimensional Optical Spectroscopy. , 2006, , 91-111.		0
220	Exciton Analysis in 2D Electronic Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 10542-10556.	1.2	391
221	Two-dimensional spectroscopy of electronic couplings in photosynthesis. Nature, 2005, 434, 625-628.	13.7	1,115
222	High Efficiency and Quadratic Nonlinear Optical Properties of a Fully Optimized 2D Octupolar Crystal Characterized by Nonlinear Microscopy. Advanced Materials, 2005, 17, 196-200.	11.1	50
223	Hydrogen bonding dynamics and two-dimensional vibrational spectroscopy:N-methylacetamide in liquid methanol. Journal of Raman Spectroscopy, 2005, 36, 326-336.	1.2	25
224	Amide I IR, VCD, and 2d IR spectra of isotope-labeled Î±-helix in liquid water: Numerical simulation studies. International Journal of Quantum Chemistry, 2005, 104, 616-634.	1.0	69
225	Simulation Studies of Amide I IR Absorption and Two-Dimensional IR Spectra of Î² Hairpins in Liquid Water. Journal of Physical Chemistry B, 2005, 109, 11789-11801.	1.2	103
226	Circularly polarized infrared and visible sum-frequency-generation spectroscopy: Vibrational optical activity measurement. Physical Review A, 2005, 71, .	1.0	15
227	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.	1.2	62
228	Amide I vibrational circular dichroism of polypeptides: Generalized fragmentation approximation method. Journal of Chemical Physics, 2005, 122, 174903.	1.2	51
229	Characteristic two-dimensional IR spectroscopic features of antiparallel and parallel Î²-sheet polypeptides: Simulation studies. Journal of Chemical Physics, 2005, 123, 084905.	1.2	77
230	Theoretical Study of Internal Field Effects on Peptide Amide I Modes. Journal of Physical Chemistry B, 2005, 109, 5331-5340.	1.2	19
231	IR spectra of N-methylacetamide in water predicted by combined quantum mechanical/molecular mechanical molecular dynamics simulations. Journal of Chemical Physics, 2005, 123, 134503.	1.2	51
232	Amide I Vibrational Dynamics ofN-Methylacetamide in Polar Solvents:Â The Role of Electrostatic Interactions. Journal of Physical Chemistry B, 2005, 109, 11016-11026.	1.2	225
233	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, 1477-1490.	1.2	136
234	Local Amide I Mode Frequencies and Coupling Constants in Multiple-Stranded Antiparallel Î²-Sheet Polypeptides. Journal of Physical Chemistry B, 2004, 108, 20397-20407.	1.2	87

#	Article	IF	Citations
235	Amide I Modes of Î±-Helical Polypeptide in Liquid Water:Â Conformational Fluctuation, Phase Correlation, and Linear and Nonlinear Vibrational Spectra. Journal of Physical Chemistry B, 2004, 108, 9333-9345.	1.2	76
236	Amide I vibrational circular dichroism of dipeptide:â€,Conformation dependence and fragment analysis. Journal of Chemical Physics, 2004, 120, 4383-4392.	1.2	66
237	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, 1849-1865.	1.2	43
238	Molecular dynamics simulation study of N-methylacetamide in water. I. Amide I mode frequency fluctuation. Journal of Chemical Physics, 2003, 119, 2247-2255.	1.2	206
239	Two-Color Pumpâ^'Probe Spectroscopies of Two- and Three-Level Systems:â€‰ 2-Dimensional Line Shapes and Solvation Dynamics. Journal of Physical Chemistry A, 2003, 107, 5903-5912.	1.1	82
240	Correlation between electronic and molecular structure distortions and vibrational properties. II. Amide I modes of NMAâ€“nD2O complexes. Journal of Chemical Physics, 2003, 118, 3491-3498.	1.2	245
241	Local Amide I Mode Frequencies and Coupling Constants in Polypeptides. Journal of Physical Chemistry B, 2003, 107, 9132-9138.	1.2	139
242	Two-dimensional circularly polarized pumpâ€“probe spectroscopy. Journal of Chemical Physics, 2003, 119, 7003-7016.	1.2	31
243	Correlation between electronic and molecular structure distortions and vibrational properties. I. Adiabatic approximations. Journal of Chemical Physics, 2003, 118, 3480-3490.	1.2	65
244	Amide I modes in the N-methylacetamide dimer and glycine dipeptide analog: Diagonal force constants. Journal of Chemical Physics, 2003, 118, 6915-6922.	1.2	134
245	Amide I modes of tripeptides: Hessian matrix reconstruction and isotope effects. Journal of Chemical Physics, 2003, 119, 1451-1461.	1.2	126
246	Molecular dynamics simulation study of N-methylacetamide in water. II. Two-dimensional infrared pumpâ€“probe spectra. Journal of Chemical Physics, 2003, 119, 2256-2263.	1.2	184
247	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.	1.0	16
248	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.	1.2	25
249	Nonlinear optical properties of tetrahedral donorâ€“acceptor octupolar molecules: Effective five-state model approach. Journal of Chemical Physics, 2002, 116, 9165-9173.	1.2	54
250	Vibrational interactions of acetonitrile: Doubly vibrationally resonant IRâ€“IRâ€“visible four-wave-mixing spectroscopy. Journal of Chemical Physics, 2002, 117, 5675-5687.	1.2	51
251	Inter-peptide interaction and delocalization of amide I vibrational excitons in myoglobin and flavodoxin. Journal of Chemical Physics, 2002, 117, 6821-6832.	1.2	67
252	Amide I vibrational modes in glycine dipeptide analog: Ab initio calculation studies. Journal of Chemical Physics, 2002, 117, 740-750.	1.2	79

#	Article	IF	Citations
253	Lateral interactions between adsorbed molecules: Investigations of CO on Ru(001) using nonlinear surface vibrational spectroscopies. Physical Review B, 2002, 65, .	1.1	35
254	Ultrafast vibrational spectroscopy in condensed phases. PhysChemComm, 2002, 5, 40.	0.8	30
255	Doubly vibrationally resonant spectroscopy of CO on Ru(001). Surface Science, 2002, 502-503, 123-128.	0.8	7
256	Nonlinear Optical and Two-Photon Absorption Properties of 1,3,5-Tricyano-2,4,6-tris(styryl)benzene-Containing Octupolar Oligomers. Chemistry - A European Journal, 2002, 8, 3907-3916.	1.7	101
257	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, 6421-6422.	6.6	80
258	Two Photon Absorption Properties of 1,3,5-Tricyano-2,4,6-tris(styryl)benzene Derivatives. Journal of the American Chemical Society, 2001, 123, 10039-10045.	6.6	306
259	Two-Photon Absorption and Nonlinear Optical Properties of Octupolar Molecules. Journal of the American Chemical Society, 2001, 123, 10658-10667.	6.6	200
260	Two-dimensional vibrational spectroscopy. VIII. Infrared optical Kerr effect and two-color infrared pumpâ€“probe measurements. Journal of Chemical Physics, 2001, 114, 9982-9992.	1.2	5
261	Octupolar Crystals for Nonlinear Optics:Â 1,3,5-Trinitro-2,4,6-tris(styryl)benzene Derivatives. Chemistry of Materials, 2001, 13, 1438-1440.	3.2	74
262	Fifth-order electronically non-resonant Raman scattering: two-dimensional Fourier deconvolution. Chemical Physics, 2001, 266, 251-271.	0.9	15
263	Effects of temperature on the nonlinear response function for two-dimensional vibrational spectroscopy. Journal of Chemical Physics, 2001, 115, 1422-1428.	1.2	23
264	Nonlinear response functions for the three-dimensional spectroscopies. Journal of Chemical Physics, 2001, 115, 4424-4437.	1.2	51
265	Femtosecond vibrational-electronic four-wave-mixing spectroscopy. Journal of Chemical Physics, 2001, 114, 8040-8047.	1.2	7
266	Novel Surface Vibrational Spectroscopy: Infrared-Infrared-Visible Sum-Frequency Generation. Physical Review Letters, 2001, 86, 1566-1569.	2.9	53
267	Two-dimensional vibrational spectroscopy. IV. Relationship between through-space vibrational coupling and intermolecular distance. Journal of Chemical Physics, 2000, 112, 4553-4556.	1.2	40
268	Two-dimensional vibrational spectroscopy. VI. Higher-order contributions to the two-dimensional vibrational response functions. Journal of Chemical Physics, 2000, 112, 10496-10509.	1.2	14
269	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.	1.2	24
270	Theoretical description of the nonlinear response functions associated with eight distinctive three-dimensional vibrational spectroscopies. Journal of Chemical Physics, 2000, 112, 5021-5036.	1.2	19

#	Article	IF	Citations
271	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.	1.2	15
272	Calculation of the two-dimensional vibrational response function. Journal of Chemical Physics, 2000, 113, 7072-7083.	1.2	30
273	Theoretical description of two-dimensional vibrational spectroscopy by infrared-infrared-visible sum frequency generation. Physical Review A, 2000, 61, .	1.0	57
274	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.	1.2	17
275	Intrinsic cascading contributions to the fifth- and seventh-order electronically off-resonant Raman spectroscopies. Journal of Chemical Physics, 2000, 112, 2082-2094.	1.2	61
276	Two-Photon Absorption and Second Hyperpolarizability of the Linear Quadrupolar Molecule. Journal of Physical Chemistry A, 2000, 104, 11033-11040.	1.1	60
277	Confinement-induced enhancement or suppression of the resonant dipoleâ€“dipole interaction. Journal of Chemical Physics, 1999, 110, 4998-5010.	1.2	11
278	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.	1.2	35
279	Theoretical description of the vibrational echo spectroscopy by time-resolved infraredâ€“infraredâ€“visible difference-frequency generation. Journal of Chemical Physics, 1999, 111, 10587-10594.	1.2	15
280	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.	1.2	32
281	Nonlinear Optical Properties of the Linear Quadrupolar Molecule:Â Structureâ^'Function Relationship Based on a Three-State Model. Journal of Physical Chemistry B, 1999, 103, 8221-8229.	1.2	62
282	Two-dimensional vibrational spectroscopy. I. Theoretical calculation of the nonlinear Raman response function of CHCl3. Journal of Chemical Physics, 1999, 111, 4121-4130.	1.2	39
283	Nonlinear Optical (NLO) Properties of the Octupolar Molecule:Â Structureâ^'Function Relationships and Solvent Effects. Journal of Physical Chemistry B, 1999, 103, 4992-4996.	1.2	50
284	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.	1.1	17
285	TWO-DIMENSIONAL VIBRATIONAL SPECTROSCOPY. Advances in Multi-photon Processes and Spectroscopy, 1999, , 229-300.	0.6	25
286	On the resonant coherent two-dimensional Raman scattering. Journal of Chemical Physics, 1998, 109, 5327-5337.	1.2	23
287	Molecular Polarizability and First Hyperpolarizability of Octupolar Molecules: Donor-Substituted Triphenylmethane Dyes. Journal of the American Chemical Society, 1998, 120, 10921-10927.	6.6	77
288	Vibrational Characteristics and Vibrational Contributions to the Nonlinear Optical Properties of a Pushâ^'Pull Polyene in Solution. Journal of Physical Chemistry A, 1998, 102, 703-707.	1.1	36

#	Article	IF	Citations
289	Dynamics of Nematic MBBA Film Induced by Transient Grating under a Strong Absorption Condition. Journal of Physical Chemistry B, 1998, 102, 7705-7713.	1.2	12
290	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.	1.2	41
291	Fifth-order coherent light scattering: Extension of the Kramersâ€“Heisenberg expression for light scattering and two-dimensional measurement of vibrational dynamics. Journal of Chemical Physics, 1998, 109, 6227-6236.	1.2	13
292	Coherent two-dimensional Raman scattering: Frequency-domain measurement of the intra- and intermolecular vibrational interactions. Journal of Chemical Physics, 1998, 108, 1326-1334.	1.2	71
293	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.	1.2	48
294	Six-wave mixing spectroscopy: Resonant coherent hyper-Raman scattering. Journal of Chemical Physics, 1998, 108, 4013-4020.	1.2	10
295	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.	1.2	2
296	On the transition from nonadiabatic to adiabatic rate kernel: Schwingerâ€™s stationary variational principle and PadÃ© approximation. Journal of Chemical Physics, 1997, 106, 2654-2661.	1.2	21
297	Off-resonant coherent hyper-Raman scattering spectroscopy. Journal of Chemical Physics, 1997, 106, 7550-7557.	1.2	11
298	Spontaneous emission in lipid-water system. Journal of Chemical Physics, 1997, 107, 4499-4506.	1.2	3
299	Vibrational contributions to the molecular first and second hyperpolarizabilities of a pushâ€“pull polyene. Journal of Chemical Physics, 1997, 107, 1936-1940.	1.2	49
300	Excited state dynamics of chromophores in glasses and in photosynthetic proteins. Faraday Discussions, 1997, 108, 23-34.	1.6	27
301	Operator differential equation approach to the dissipative two-state system. Physica A: Statistical Mechanics and Its Applications, 1997, 241, 593-605.	1.2	0
302	CHROMOPHORE-SOLVENT DYNAMICS. Annual Review of Physical Chemistry, 1996, 47, 109-134.	4.8	627
303	Suppression and enhancement of van der Waals interactions. Journal of Chemical Physics, 1996, 104, 8730-8741.	1.2	27
304	The Integrated Photon Echo and Solvation Dynamics. The Journal of Physical Chemistry, 1996, 100, 11944-11953.	2.9	272
305	Alternative model of dissipation in quantum mechanics. Physical Review E, 1996, 53, 4184-4186.	0.8	2
306	Vibrational relaxation rates of a polar molecule in polar liquids. Journal of Chemical Physics, 1996, 105, 10755-10765.	1.2	11

#	Article	IF	Citations
307	Excitation transfer in the vicinity of a dielectric surface. Chemical Physics Letters, 1995, 242, 291-296.	1.2	24
308	Nonequilibrium photoinduced electron transfer. Journal of Chemical Physics, 1995, 103, 595-606.	1.2	117
309	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.	2.9	60
310	The shortâ€time dynamics of solvation. Journal of Chemical Physics, 1994, 100, 6700-6708.	1.2	151
311	Instantaneous normal mode analysis of liquid water. Journal of Chemical Physics, 1994, 100, 6672-6683.	1.2	350
312	Nonlinear response functions for birefringence and dichroism measurements in condensed phases. Journal of Chemical Physics, 1993, 98, 5314-5326.	1.2	57
313	Photon echo measurements in liquids: Numerical calculations with model systems. Journal of Chemical Physics, 1993, 98, 2848-2859.	1.2	56
314	Offâ€resonant transient birefringence in liquids. Journal of Chemical Physics, 1993, 99, 2410-2428.	1.2	248
315	Ultrafast solvent dynamics: Connection between time resolved fluorescence and optical Kerr measurements. Journal of Chemical Physics, 1992, 96, 5033-5038.	1.2	213
316	Photon echoes and related fourâ€waveâ€mixing spectroscopies using phaseâ€locked pulses. Journal of Chemical Physics, 1992, 96, 5618-5629.	1.2	145
317	Kinetics of the carboxypeptidase A-catalyzed hydrolysis of Î±-(benzoylamino)cinnamoyl derivatives of various amino acids. Bioorganic Chemistry, 1990, 18, 276-282.	2.0	1