Mitsuo Tasumi

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#	Paper	IF	Citations
56	Model calculations on the amide-I infrared bands of globular proteins. <i>Journal of Chemical Physics</i> , 1992 , 96, 3379-3387	3.9	407
55	Correlation between the Vibrational Frequencies of the Carboxylate Group and the Types of Its Coordination to a Metal Ion: Anab InitioMolecular Orbital Study. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 19812-19817		365
54	Ab initio molecular orbital study of the amide I vibrational interactions between the peptide groups in di- and tripeptides and considerations on the conformation of the extended helix. <i>Journal of Raman Spectroscopy</i> , 1998 , 29, 81-86	2.3	246
53	Normal-coordinate analysis of Etarotene isomers and assignments of the Raman and infrared bands. <i>Journal of Raman Spectroscopy</i> , 1983 , 14, 310-321	2.3	148
52	Effects of Intermolecular Hydrogen-Bonding Interactions on the Amide I Mode of N-Methylacetamide: Matrix-Isolation Infrared Studies and ab Initio Molecular Orbital Calculations. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 309-314	3.4	141
51	Effects of hydration on the structure, vibrational wavenumbers, vibrational force field and resonance raman intensities of N-methylacetamide. <i>Journal of Raman Spectroscopy</i> , 1998 , 29, 537-546	2.3	127
50	Raman and infrared spectra of the all-trans, 7-cis, 9-cis, 13-cis and 15-cis isomers of Ecarotene: Key bands distinguishing stretched or terminal-bent configurations form central-bent configurations. <i>Journal of Raman Spectroscopy</i> , 1988 , 19, 37-49	2.3	123
49	Local order and transition dipole coupling in liquid methanol and acetone as the origin of the Raman noncoincidence effect. <i>Journal of Chemical Physics</i> , 1993 , 99, 8459-8465	3.9	96
48	Resonance Raman spectra (5800🛭0 cm 🗗) of All-trans and 15-cis isomers of 🗈 arotene in the solid state and in solution. Measurements with various laser lines from ultraviolet to red. <i>Journal of Raman Spectroscopy</i> , 1983 , 14, 299-309	2.3	85
47	Infrared studies of interaction between metal ions and Ca(2+)-binding proteins. Marker bands for identifying the types of coordination of the side-chain COO- groups to metal ions in pike parvalbumin (pI = 4.10). FEBS Letters, 1994, 349, 84-8	3.8	81
46	Vibrational analyses of trans-polyacetylene based on ab initio second-order Mo/ller B lesset perturbation calculations of trans-oligoenes. <i>Journal of Chemical Physics</i> , 1995 , 103, 8964-8979	3.9	58
45	Application of the three-dimensional doorway-state theory to analyses of the amide-I infrared bands of globular proteins. <i>Journal of Chemical Physics</i> , 1992 , 97, 92-98	3.9	58
44	Liquid Structure, Infrared and Isotropic/Anisotropic Raman Noncoincidence of the Amide I Band, and Low-Wavenumber Vibrational Spectra of Liquid Formamide: Molecular Dynamics and ab Initio Molecular Orbital Studies. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 315-321	3.4	52
43	Some thoughts on the vibrational modes of toluene as a typical monosubstituted benzene. <i>Journal of Molecular Structure</i> , 1986 , 146, 383-396	3.4	52
42	Normal-coordinate analysis of retinal isomers and assignments of Raman and infrared bands. Journal of Raman Spectroscopy, 1983 , 14, 236-245	2.3	52
41	Bacteriochlorophyll-protein complexes of aerobic bacteria, Erythrobacter longus and Erythrobacter species OCh 114. <i>Archives of Microbiology</i> , 1985 , 143, 244-247	3	48
40	Three-dimensional doorway-state theory for analyses of absorption bands of many-oscillator systems. <i>Journal of Chemical Physics</i> , 1992 , 97, 86-91	3.9	43

39	Raman studies of L-histidine and related compounds in aqueous solutions. <i>Journal of Raman Spectroscopy</i> , 1982 , 12, 149-151	2.3	43	
38	Intermolecular hydrogen bonding and low-wave-number vibrational spectra of formamide, N-methylformamide, and N-methylacetamide in the liquid state. <i>International Journal of Quantum Chemistry</i> , 1998 , 70, 241-252	2.1	41	
37	Spectroscopic Studies on the Radical-Cation Dimer of a Model Compound of Poly(p-phenylenevinylene). Similarities between the Dimer and the State of Positive Polarons in the Sulfuric-Acid-Treated Polymer. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 1726-1732	3.4	39	
36	Vibrational analyses of trans,trans-1,3,5,7-octatetraene and all-trans-1,3,5,7,9-decapentaene based on ab initio molecular orbital calculations and observed infrared and Raman spectra. <i>Journal of Chemical Physics</i> , 1995 , 103, 8955-8963	3.9	36	
35	STUDIES ON THE INTERRELATIONSHIP AMONG THE INTENSITY OF A RAMAN MARKER BAND OF CAROTENOIDS, POLYENE CHAIN STRUCTURE, AND EFFICIENCY OF THE ENERGY TRANSFER FROM CAROTENOIDS TO BACTERIOCHLOROPHYLL IN PHOTOSYNTHETIC BACTERIA. <i>Photochemistry and Photobiology</i> , 1989 , 49, 337-343	3.6	36	
34	Resonance Raman spectra and excitation profiles of tetradesmethyl-ECarotene. <i>Journal of Raman Spectroscopy</i> , 1984 , 15, 331-335	2.3	35	
33	A comparative study of the binding effects of Mg2+, Ca2+, Sr2+, and Cd2+ on calmodulin by fourier-transform infrared spectroscopy. <i>Biospectroscopy</i> , 1995 , 1, 47-54		30	
32	Analysis of the absorption spectrum (1 1Bu<-1 1Ag) and resonance Raman excitation profiles of trans-1,3,5-hexatriene based on ab initio molecular orbital calculations. <i>Journal of Chemical Physics</i> , 1994 , 101, 4496-4504	3.9	28	
31	In vivo states and functions of carotenoids in an aerobic photosynthetic bacterium, Erythrobacter longus. <i>Photosynthesis Research</i> , 1992 , 31, 21-30	3.7	27	
30	Nuclear-magnetic-resonance study of aggregations and conformations of melanostatin and related peptides. <i>FEBS Journal</i> , 1978 , 89, 543-56		26	
29	Charge Fluxes and Changes in Electronic Structures as the Origin of Infrared Intensities in the Ground and Excited Electronic States. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 466-471	3.4	22	
28	Resonance Raman studies on tetradesmethyl-Larotene aggregates. <i>Journal of Raman Spectroscopy</i> , 1989 , 20, 751-756	2.3	22	
27	Infrared Intensities of the CC and CN Stretching Modes of Conjugated Schiff Bases. A Study Based onab InitioMolecular Orbital Calculations. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 15335-15339		20	
26	Raman studies of intact and sodium doped 13C-substituted poly-p-phenylene. <i>Journal of Raman Spectroscopy</i> , 1993 , 24, 551-554	2.3	18	
25	Raman Studies of Doped Polythiophene and the Radical Cation and Dication of Quinquethiophene. <i>Molecular Crystals and Liquid Crystals</i> , 1994 , 256, 113-120		16	
24	Infrared studies of octopus rhodopsin. Existence of a long-lived intermediate and the states of the carboxylic group of Asp-81 in rhodopsin and its photoproducts. <i>FEBS Letters</i> , 1993 , 317, 223-7	3.8	15	
23	NMR spectra of model compounds of poly(vinyl chloride). <i>Journal of Polymer Science Part A-1, Polymer Chemistry</i> , 1966 , 4, 1413-1431		14	
22	Correlation between redshifts and widths of the 0D band in the absorption spectra (1 1Bu<-1 1Ag) of all-trans-Etarotene in solution. <i>Journal of Chemical Physics</i> , 1993 , 98, 3697-3702	3.9	13	

21	Probe-frequency dependence of the resonant inverse Raman band shape. <i>Journal of Chemical Physics</i> , 1988 , 89, 3945-3950	3.9	11
20	LIGHT INDUCED FLUORESCENCE SPECTRAL CHANGES IN NATIVE PHYTOCHROME FROM Secale cereale L. AT LIQUID NITROGEN TEMPERATURE. <i>Photochemistry and Photobiology</i> , 1985 , 42, 423-427	3.6	11
19	Laser-Raman Scattering by the C34H68 Ring Molecule. <i>Polymer Journal</i> , 1971 , 2, 740-746	2.7	11
18	Spectroscopic studies of conducting polymers. <i>Macromolecular Symposia</i> , 1996 , 101, 95-102	0.8	9
17	Vibrational Analysis of a Schiff Base Based on ab Initio Molecular Orbital Calculations: Effect of Electron Correlation on the CN Stretching Force Constant and the Origin of the Shift of the CN Stretching Frequency upon Protonation and Hydrogen-Bond Formation. <i>The Journal of Physical</i>		8
16	Chemistry, 1996, 100, 15328-15334 Raman and infrared studies on (5-dimethyl-aminopenta-2,4-dienylidene)dimethylammonium perchlorate. Journal of Raman Spectroscopy, 1988, 19, 395-404	2.3	8
15	Ab initio molecular orbital study of the amide I vibrational interactions between the peptide groups in di- and tripeptides and considerations on the conformation of the extended helix 1998 , 29, 81		8
14	Simultaneous observation of the vibrational and electronic-vibrational resonance Raman spectra of the hexachloroiridate(IV) ion at 15 K. <i>Journal of Chemical Physics</i> , 1983 , 78, 131-135	3.9	7
13	Analysis of the resonance Raman spectra of 13C-and 2H-substituted carotenoids. <i>Journal of Raman Spectroscopy</i> , 1985 , 16, 27-31	2.3	7
12	Raman Spectra of Heavily Sodium-Doped Trans-Polyacetylene and the Radical Anions of Diphenylpolyenes and Dithienylpolyenes. <i>Molecular Crystals and Liquid Crystals</i> , 1994 , 256, 721-726		6
11	New feedback mechanism for reducing timing jitter between pulses from two synchronously pumped mode-locked lasers. <i>Review of Scientific Instruments</i> , 1995 , 66, 5165-5168	1.7	5
10	Time-resolved pumpBrobe Raman spectroscopy with temporally incoherent light. <i>Journal of Raman Spectroscopy</i> , 1994 , 25, 631-639	2.3	5
9	Effect of correlation between electronic and vibrational dephasing processes on Raman band shapes. <i>Journal of Raman Spectroscopy</i> , 1991 , 22, 601-605	2.3	3
8	Picosecond Transient Infrared Spectroscopy of 4-Dimethylamino- 4?-Nitrostilbene in the Fingerprint Region. <i>Laser Chemistry</i> , 1999 , 19, 363-366		2
7	Stereoregulated polydideuteroethylene. II. Infrared spectra and normal vibration analysis. <i>Journal of Polymer Science: Part A, General Papers</i> , 1964 , 2, 1607-1631		2
6	Ab initio molecular orbital study of the amide I vibrational interactions between the peptide groups in di- and tripeptides and considerations on the conformation of the extended helix 1998 , 29, 81		2
5	Formulation of Raman scattering revisited. <i>Journal of Raman Spectroscopy</i> , 2019 , 50, 1245-1249	2.3	1
4	Symmetry of the benzene ring and its normal vibrations: The Breathing Imode is not always a normal vibration of a benzene ring. <i>Journal of Raman Spectroscopy</i> , 2021 , 52, 2282	2.3	1

LIST OF PUBLICATIONS

3	Ab initio molecular orbital study of the amide I vibrational interactions between the peptide groups in di- and tripeptides and considerations on the conformation of the extended helix 1998 , 29, 81		1
2	Effects of hydration on the structure, vibrational wavenumbers, vibrational force field and resonance raman intensities of N-methylacetamide 1998 , 29, 537		1
1	Effects of collision-induced perturbation of atomic motions on the vibrational relaxation of polyatomic molecules. <i>Journal of Chemical Physics</i> , 1990 , 93, 1054-1060	3.9	О