Mitsuo Tasumi

List of Publications by Year in descending order

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56 papers	3,088 citations	212478 28 h-index	190340 53 g-index
56 all docs	56 docs citations	56 times ranked	2822 citing authors

#	Article	IF	Citations
1	Symmetry of the benzene ring and its normal vibrations: The â€œbreathingâ€•mode is not always a normal vibration of a benzene ring. Journal of Raman Spectroscopy, 2021, 52, 2282-2291.	1.2	8
2	Formulation of Raman scattering revisited. Journal of Raman Spectroscopy, 2019, 50, 1245-1249.	1.2	3
3	Picosecond Transient Infrared Spectroscopy of 4-Dimethylamino- 4â€²-Nitrostilbene in the Fingerprint Region. Laser Chemistry, 1999, 19, 363-366.	0.5	2
4	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. Journal of Raman Spectroscopy, 1998, 29, 81-86.	1.2	270
5	Effects of hydration on the structure, vibrational wavenumbers, vibrational force field and resonance raman intensities ofN-methylacetamide. Journal of Raman Spectroscopy, 1998, 29, 537-546.	1.2	137
6	Intermolecular hydrogen bonding and low-wave-number vibrational spectra of formamide,N-methylformamide, andN-methylacetamide in the liquid state. International Journal of Quantum Chemistry, 1998, 70, 241-252.	1.0	44
7	Liquid Structure, Infrared and Isotropic/Anisotropic Raman Noncoincidence of the Amide I Band, and Low-Wavenumber Vibrational Spectra of Liquid Formamide:Â Molecular Dynamics and ab Initio Molecular Orbital Studies. Journal of Physical Chemistry B, 1998, 102, 315-321.	1.2	57
8	Effects of Intermolecular Hydrogen-Bonding Interactions on the Amide I Mode ofN-Methylacetamide:Â Matrix-Isolation Infrared Studies and ab Initio Molecular Orbital Calculations. Journal of Physical Chemistry B, 1998, 102, 309-314.	1.2	155
9	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
10	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
11	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. Journal of Raman Spectroscopy, 1998, 29, 81-86.	1.2	8
12	Effects of hydration on the structure, vibrational wavenumbers, vibrational force field and resonance raman intensities of N-methylacetamide. , 1998, 29, 537.		1
13	Charge Fluxes and Changes in Electronic Structures as the Origin of Infrared Intensities in the Ground and Excited Electronic States. Journal of Physical Chemistry B, 1997, 101, 466-471.	1.2	25
14	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. Journal of Physical Chemistry B, 1997, 101, 1726-1732.	1.2	44
15	Infrared Intensities of the CC and CN Stretching Modes of Conjugated Schiff Bases. A Study Based onab InitioMolecular Orbital Calculations. The Journal of Physical Chemistry, 1996, 100, 15335-15339.	2.9	22
16	Correlation between the Vibrational Frequencies of the Carboxylate Group and the Types of Its Coordination to a Metal Ion:Â Anab InitioMolecular Orbital Study. The Journal of Physical Chemistry, 1996, 100, 19812-19817.	2.9	401
17	Spectroscopic studies of conducting polymers. Macromolecular Symposia, 1996, 101, 95-102.	0.4	10
18	Vibrational Analysis of a Schiff Base Based onab InitioMolecular Orbital Calculations:Â 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. The Journal of Physical Chemistry, 1996, 100, 15328-15334.	2.9	10

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19	A comparative study of the binding effects of Mg2+, Ca2+, Sr2+, and Cd2+ on calmodulin by fourier-transform infrared spectroscopy. Biospectroscopy, 1995, 1, 47-54.	0.4	30
20	New feedback mechanism for reducing timing jitter between pulses from two synchronously pumped modeâ€locked lasers. Review of Scientific Instruments, 1995, 66, 5165-5168.	0.6	6
21	Vibrational analyses oftransâ€polyacetylene based onabinitiosecondâ€order Mo/llerâ€“Plesset perturbation calculations oftransâ€oligoenes. Journal of Chemical Physics, 1995, 103, 8964-8979.	1.2	63
22	Vibrational analyses of trans,transâ€1,3,5,7â€octatetraene and allâ€transâ€1,3,5,7,9â€decapentaene based on ab initio molecular orbital calculations and observed infrared and Raman spectra. Journal of Chemical Physics, 1995, 103, 8955-8963.	1.2	39
23	Raman Spectra of Heavily Sodium-Doped Trans-Polyacetylene and the Radical Anions of Diphenylpolyenes and Dithienylpolyenes. Molecular Crystals and Liquid Crystals, 1994, 256, 721-726.	0.3	6
24	Raman Studies of Doped Polythiophene and the Radical Cation and Dication of Quinquethiophene. Molecular Crystals and Liquid Crystals, 1994, 256, 113-120.	0.3	17
25	Time-resolved pump-probe Raman spectroscopy with temporally incoherent light. Journal of Raman Spectroscopy, 1994, 25, 631-639.	1.2	5
26	Infrared studies of interaction between metal ions and Ca2+-binding proteins Marker bands for identifying the types of coordination of the side-chain COOâ¯groups to metal ions in pike parvalbumin (pI = 4.10). FEBS Letters, 1994, 349, 84-88.	1.3	95
27	Analysis of the absorption spectrum (1â€‰1Buâ†1â€‰1Ag) and resonance Raman excitation profiles of transâ€1,3,5â€hexatriene based on ab initio molecular orbital calculations. Journal of Chemical Physics, 1994, 101, 4496-4504.	1.2	31
28	Raman studies of intact and sodium doped 13C-substituted poly-p-phenylene. Journal of Raman Spectroscopy, 1993, 24, 551-554.	1.2	19
29	Infrared studies of octopus rhodopsin. FEBS Letters, 1993, 317, 223-227.	1.3	16
30	Local order and transition dipole coupling in liquid methanol and acetone as the origin of the Raman noncoincidence effect. Journal of Chemical Physics, 1993, 99, 8459-8465.	1.2	102
31	Correlation between redshifts and widths of the 0â€“0 band in the absorption spectra (1â€‰1Buâ†1â€‰1Ag) ofallâ€transâ€²â€carotene in solution. Journal of Chemical Physics, 1993, 98, 3697-3702.	1.2	15
32	Application of the threeâ€dimensional doorwayâ€state theory to analyses of the amideâ€I infrared bands of globular proteins. Journal of Chemical Physics, 1992, 97, 92-98.	1.2	68
33	Model calculations on the amideâ€I infrared bands of globular proteins. Journal of Chemical Physics, 1992, 96, 3379-3387.	1.2	445
34	Threeâ€dimensional doorwayâ€state theory for analyses of absorption bands of manyâ€oscillator systems. Journal of Chemical Physics, 1992, 97, 86-91.	1.2	47
35	In vivo states and functions of carotenoids in an aerobic photosynthetic bacterium, Erythrobacter longus. Photosynthesis Research, 1992, 31, 21-30.	1.6	31
36	Effect of correlation between electronic and vibrational dephasing processes on Raman band shapes. Journal of Raman Spectroscopy, 1991, 22, 601-605.	1.2	3

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37	Effects of collisionâ€induced perturbation of atomic motions on the vibrational relaxation of polyatomic molecules. Journal of Chemical Physics, 1990, 93, 1054-1060.	1.2	2
38	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. Photochemistry and Photobiology, 1989, 49, 337-343.	1.3	39
39	Resonance Raman studies on tetradesmethyl-Î²-carotene aggregates. Journal of Raman Spectroscopy, 1989, 20, 751-756.	1.2	22
40	Raman and infrared spectra of the all-trans, 7-cis, 9-cis, 13-cis and 15-cis isomers of Î²-carotene: Key bands distinguishing stretched or terminal-bent configurations form central-bent configurations. Journal of Raman Spectroscopy, 1988, 19, 37-49.	1.2	136
41	Raman and infrared studies on (5-dimethyl-aminopenta-2,4-dienylidene)dimethylammonium perchlorate. Journal of Raman Spectroscopy, 1988, 19, 395-404.	1.2	8
42	Probeâ€frequency dependence of the resonant inverse Raman band shape. Journal of Chemical Physics, 1988, 89, 3945-3950.	1.2	15
43	Some thoughts on the vibrational modes of toluene as a typical monosubstituted benzene. Journal of Molecular Structure, 1986, 146, 383-396.	1.8	54
44	Bacteriochlorophyll-protein complexes of aerobic bacteria, Erythrobacter longus and Erythrobacter species OCh 114. Archives of Microbiology, 1985, 143, 244-247.	1.0	56
45	LIGHT INDUCED FLUORESCENCE SPECTRAL CHANGES IN NATIVE PHYTOCHROME FROM Secale cereale L. AT LIQUID NITROGEN TEMPERATURE. Photochemistry and Photobiology, 1985, 42, 423-427.	1.3	14
46	Analysis of the resonance Raman spectra of 13C-and 2H-substituted carotenoids. Journal of Raman Spectroscopy, 1985, 16, 27-31.	1.2	7
47	Resonance Raman spectra and excitation profiles of tetradesmethyl-Î²-Carotene. Journal of Raman Spectroscopy, 1984, 15, 331-335.	1.2	42
48	Normal-coordinate analysis of retinal isomers and assignments of Raman and infrared bands. Journal of Raman Spectroscopy, 1983, 14, 236-245.	1.2	60
49	Resonance Raman spectra (5800-40 cmâ¯1) of All-trans and 15-cis isomers of Î²-carotene in the solid state and in solution. Measurements with various laser lines from ultraviolet to red. Journal of Raman Spectroscopy, 1983, 14, 299-309.	1.2	93
50	Normal-coordinate analysis of Î²-carotene isomers and assignments of the Raman and infrared bands. Journal of Raman Spectroscopy, 1983, 14, 310-321.	1.2	164
51	Simultaneous observation of the vibrational and electronicâ€vibrational resonance Raman spectra of the hexachloroiridate(IV) ion at 15 K. Journal of Chemical Physics, 1983, 78, 131-135.	1.2	9
52	Raman studies of L-histidine and related compounds in aqueous solutions. Journal of Raman Spectroscopy, 1982, 12, 149-151.	1.2	47
53	Nuclear-Magnetic-Resonance Study of Aggregations and Conformations of Melanostatin and Related Peptides. FEBS Journal, 1978, 89, 543-556.	0.2	28
54	Laser-Raman Scattering by the C34H68 Ring Molecule. Polymer Journal, 1971, 2, 740-746.	1.3	17

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55	NMR spectra of model compounds of poly(vinyl chloride). Journal of Polymer Science Part A-1, Polymer Chemistry, 1966, 4, 1413-1431.	0.7	28
56	Stereoregulated polydideuteroethylene. II. Infrared spectra and normal vibration analysis. Journal of Polymer Science: Part A, General Papers, 1964, 2, 1607-1631.	0.4	9