Hiroaki Maekawa

List of Publications by Year
in descending order

35	985	566801 15	500791 28
papers	citations	h-index	g-index

36	36	36	910
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phase-Sensitive Vibrationally Resonant Sum-Frequency Generation Microscopy in Multiplex Configuration at 80 MHz Repetition Rate. Journal of Physical Chemistry B, 2021, 125, 9507-9516.	1.2	11
2	Wavelength and Polarization Dependence of Second-Harmonic Responses from Gold Nanocrescent Arrays. Journal of Physical Chemistry C, 2020, 124, 20424-20435.	1.5	12
3	Vibrational Spectroscopic Map, Vibrational Spectroscopy, and Intermolecular Interaction. Chemical Reviews, 2020, 120, 7152-7218.	23.0	205
4	¹³Câ•¹⁸O/¹⁵N Isotope Dependence of the Amide-I/II 2D IR Cross Peaks for the Fully Extended Peptides. Journal of Physical Chemistry C, 2014, 118, 29448-29457.	1.5	15
5	Mapping Molecular Orientation with Phase Sensitive Vibrationally Resonant Sum-Frequency Generation Microscopy. Journal of Physical Chemistry B, 2013, 117, 6149-6156.	1.2	54
6	Vibrational correlation between conjugated carbonyl and diazo modes studied by single- and dual-frequency two-dimensional infrared spectroscopy. Chemical Physics, 2013, 422, 22-30.	0.9	8
7	Picosecond Rotational Interconversion Adjacent to a Câ•O Bond Studied by Two-Dimensional Infrared Spectroscopy. Journal of Physical Chemistry B, 2012, 116, 11292-11301.	1.2	13
8	Linear and Two-Dimensional Infrared Spectroscopic Study of the Amide I and II Modes in Fully Extended Peptide Chains. Journal of Physical Chemistry B, 2011, 115, 5168-5182.	1.2	49
9	Stapling of a 3₁₀-Helix with Click Chemistry. Journal of Organic Chemistry, 2011, 76, 1228-1238.	1.7	56
10	Comparative Study of Electrostatic Models for the Amide-I and -II Modes: Linear and Two-Dimensional Infrared Spectra. Journal of Physical Chemistry B, 2010, 114, 1434-1446.	1.2	61
11	Sensitivity of 2D IR Spectra to Peptide Helicity: A Concerted Experimental and Simulation Study of an Octapeptide. Journal of Physical Chemistry B, 2009, 113, 12037-12049.	1.2	41
12	Toward Detecting the Formation of a Single Helical Turn by 2D IR Cross Peaks between the Amide-I and -II Modes. Journal of Physical Chemistry B, 2009, 113, 11775-11786.	1.2	33
13	Couplings between Peptide Linkages across a 3₁₀-Helical Hydrogen Bond Revealed by Two-Dimensional Infrared Spectroscopy. Journal of the American Chemical Society, 2009, 131, 2042-2043.	6.6	49
14	Chain Length Dependence of Two-Dimensional Infrared Spectral Pattern Characteristic to 310-Helix Peptides. Springer Series in Chemical Physics, 2009, , 415-417.	0.2	0
15	Onset of 3₁₀-Helical Secondary Structure in Aib Oligopeptides Probed by Coherent 2D IR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 6556-6566.	6.6	51
16	Two-Dimensional Infrared Spectral Signatures of 310- and Î±-Helical Peptides. Journal of Physical Chemistry B, 2007, 111, 3222-3235.	1.2	64
17	Probing Peptide Structures by Two-Dimensional Infrared Spectroscopy. , 2007, , .		0
18	Different Two-Dimensional Infrared Spectral Signatures for 310- and Î±-Helix Octapeptides. Springer Series in Chemical Physics, 2007, , 347-349.	0.2	0

#	Article	IF	Citations
19	Different Spectral Signatures of Octapeptide 310- and Î±-Helices Revealed by Two-Dimensional Infrared Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 5834-5837.	1.2	67
20	Different Two-Dimensional Infrared Spectral Signatures for 310- and Î±-Helix Octapeptides. , 2006, , .		0
21	Vibrational dephasing of the â€“NCNâ€“ anti-symmetric stretching mode of carbodiimide studied by infrared photon echo method. Journal of Molecular Structure, 2005, 735-736, 135-143.	1.8	2
22	All-solid-state femtosecond multi-kilohertz laser system based on a new cavity-dumped oscillator design. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 567.	0.9	8
23	Vibrational dynamics in liquids studied by non-linear infrared spectroscopy. Research on Chemical Intermediates, 2005, 31, 703-716.	1.3	9
24	Vibrational population relaxation and dephasing dynamics of Fe(CN)64â˜ in water: deuterium isotope effect of solvents. Chemical Physics Letters, 2004, 386, 32-37.	1.2	33
25	Spectral diffusion of the anti-symmetric stretching mode of azide ion in a reverse micelle studied by infrared three-pulse photon echo method. Physical Chemistry Chemical Physics, 2004, 6, 4074.	1.3	29
26	Vibrational Population Relaxation and Dephasing Dynamics of Fe(CN)64-in D2O with Third-Order Nonlinear Infrared Spectroscopy. Journal of Physical Chemistry A, 2004, 108, 1333-1341.	1.1	43
27	Vibrational Population Relaxation of the â˜NCNâ˜ Antisymmetric Stretching Mode of Carbodiimide Studied by the Infrared Transient Grating Method. Journal of Physical Chemistry A, 2004, 108, 9484-9491.	1.1	9
28	Probing the Spectral Diffusion of Vibrational Transitions of OCN-and SCN-in Methanol by Three-Pulse Infrared Photon Echo Spectroscopy. Journal of Physical Chemistry A, 2003, 107, 5643-5649.	1.1	40
29	Vibrational Dynamics of the OH Stretching Mode of Water in Reverse Micelles Studied by Infrared Nonlinear Spectroscopy. Materials Research Society Symposia Proceedings, 2003, 790, 1.	0.1	0
30	Generation of 55 fs-Mid-Infrared Pulses with a 300 cm-1-Spectral Width and ÂµJ-Pulse Energy. Japanese Journal of Applied Physics, 2002, 41, L329-L331.	0.8	13
31	Vibrational Dynamics in Porous Silica Glasses Studied by Time-Resolved Coherent Anti-Stokes Raman Scattering. ACS Symposium Series, 2002, , 160-168.	0.5	2
32	Investigation of Two-Dimensional Vibrational Spectrum by a Diagrammatic Approach. Bulletin of the Chemical Society of Japan, 2001, 74, 279-286.	2.0	6
33	Electron transfer dynamics in the excited state studied by stochastic-Liouville equation. Journal of Molecular Liquids, 2001, 90, 287-293.	2.3	0
34	Stochastic-Liouville approach to optically induced electron transfer: electronic coherence in the reaction dynamics. Journal of Raman Spectroscopy, 2000, 31, 137-144.	1.2	0
35	Development of two-dimensional Raman spectroscopy by higher-order optical nonlinear spectroscopy. Journal of Luminescence, 2000, 87-89, 101-104.	1.5	2