

Hiroaki Maekawa

List of Publications by Year in descending order

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35
papers

985
citations

566801

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h-index

500791

28
g-index

36
all docs

36
docs citations

36
times ranked

910
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Vibrational Spectroscopic Map, Vibrational Spectroscopy, and Intermolecular Interaction. <i>Chemical Reviews</i> , 2020, 120, 7152-7218. | 23.0 | 205 |
| 2 | Different Spectral Signatures of Octapeptide 310- and $\hat{I}\pm$ -Helices Revealed by Two-Dimensional Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5834-5837. | 1.2 | 67 |
| 3 | Two-Dimensional Infrared Spectral Signatures of 310- and $\hat{I}\pm$ -Helical Peptides. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3222-3235. | 1.2 | 64 |
| 4 | Comparative Study of Electrostatic Models for the Amide-I and -II Modes: Linear and Two-Dimensional Infrared Spectra. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1434-1446. | 1.2 | 61 |
| 5 | Stapling of a 3 ₁₀ -Helix with Click Chemistry. <i>Journal of Organic Chemistry</i> , 2011, 76, 1228-1238. | 1.7 | 56 |
| 6 | Mapping Molecular Orientation with Phase Sensitive Vibrationally Resonant Sum-Frequency Generation Microscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6149-6156. | 1.2 | 54 |
| 7 | Onset of 3 ₁₀ -Helical Secondary Structure in Aib Oligopeptides Probed by Coherent 2D IR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 6556-6566. | 6.6 | 51 |
| 8 | Couplings between Peptide Linkages across a 3 ₁₀ -Helical Hydrogen Bond Revealed by Two-Dimensional Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 2042-2043. | 6.6 | 49 |
| 9 | Linear and Two-Dimensional Infrared Spectroscopic Study of the Amide I and II Modes in Fully Extended Peptide Chains. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5168-5182. | 1.2 | 49 |
| 10 | Vibrational Population Relaxation and Dephasing Dynamics of Fe(CN) ₆ in D ₂ O with Third-Order Nonlinear Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1333-1341. | 1.1 | 43 |
| 11 | Sensitivity of 2D IR Spectra to Peptide Helicity: A Concerted Experimental and Simulation Study of an Octapeptide. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12037-12049. | 1.2 | 41 |
| 12 | Probing the Spectral Diffusion of Vibrational Transitions of OCN- and SCN- in Methanol by Three-Pulse Infrared Photon Echo Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5643-5649. | 1.1 | 40 |
| 13 | Vibrational population relaxation and dephasing dynamics of Fe(CN) ₆ ⁴⁻ in water: deuterium isotope effect of solvents. <i>Chemical Physics Letters</i> , 2004, 386, 32-37. | 1.2 | 33 |
| 14 | Toward Detecting the Formation of a Single Helical Turn by 2D IR Cross Peaks between the Amide-I and -II Modes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11775-11786. | 1.2 | 33 |
| 15 | Spectral diffusion of the anti-symmetric stretching mode of azide ion in a reverse micelle studied by infrared three-pulse photon echo method. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4074. | 1.3 | 29 |
| 16 | ¹³ C- ¹⁸ O/ ¹⁵ N Isotope Dependence of the Amide-I/II 2D IR Cross Peaks for the Fully Extended Peptides. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29448-29457. | 1.5 | 15 |
| 17 | Generation of 55 fs-Mid-Infrared Pulses with a 300 cm ⁻¹ -Spectral Width and $\hat{A}\mu$ J-Pulse Energy. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L329-L331. | 0.8 | 13 |
| 18 | Picosecond Rotational Interconversion Adjacent to a C=O Bond Studied by Two-Dimensional Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11292-11301. | 1.2 | 13 |

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|----|--|-----|-----------|
| 19 | Wavelength and Polarization Dependence of Second-Harmonic Responses from Gold Nanocrescent Arrays. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20424-20435. | 1.5 | 12 |
| 20 | Phase-Sensitive Vibrationally Resonant Sum-Frequency Generation Microscopy in Multiplex Configuration at 80 MHz Repetition Rate. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9507-9516. | 1.2 | 11 |
| 21 | Vibrational Population Relaxation of the $\tilde{\nu}_{\text{NCN}}$ Antisymmetric Stretching Mode of Carbodiimide Studied by the Infrared Transient Grating Method. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9484-9491. | 1.1 | 9 |
| 22 | Vibrational dynamics in liquids studied by non-linear infrared spectroscopy. <i>Research on Chemical Intermediates</i> , 2005, 31, 703-716. | 1.3 | 9 |
| 23 | All-solid-state femtosecond multi-kilohertz laser system based on a new cavity-dumped oscillator design. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 567. | 0.9 | 8 |
| 24 | Vibrational correlation between conjugated carbonyl and diazo modes studied by single- and dual-frequency two-dimensional infrared spectroscopy. <i>Chemical Physics</i> , 2013, 422, 22-30. | 0.9 | 8 |
| 25 | Investigation of Two-Dimensional Vibrational Spectrum by a Diagrammatic Approach. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 279-286. | 2.0 | 6 |
| 26 | Development of two-dimensional Raman spectroscopy by higher-order optical nonlinear spectroscopy. <i>Journal of Luminescence</i> , 2000, 87-89, 101-104. | 1.5 | 2 |
| 27 | Vibrational Dynamics in Porous Silica Glasses Studied by Time-Resolved Coherent Anti-Stokes Raman Scattering. <i>ACS Symposium Series</i> , 2002, , 160-168. | 0.5 | 2 |
| 28 | Vibrational dephasing of the $\tilde{\nu}_{\text{NCN}}$ anti-symmetric stretching mode of carbodiimide studied by infrared photon echo method. <i>Journal of Molecular Structure</i> , 2005, 735-736, 135-143. | 1.8 | 2 |
| 29 | Stochastic-Liouville approach to optically induced electron transfer: electronic coherence in the reaction dynamics. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 137-144. | 1.2 | 0 |
| 30 | Electron transfer dynamics in the excited state studied by stochastic-Liouville equation. <i>Journal of Molecular Liquids</i> , 2001, 90, 287-293. | 2.3 | 0 |
| 31 | Vibrational Dynamics of the OH Stretching Mode of Water in Reverse Micelles Studied by Infrared Nonlinear Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2003, 790, 1. | 0.1 | 0 |
| 32 | Different Two-Dimensional Infrared Spectral Signatures for 310- and $\tilde{\nu}_{\text{H}}$ -Helix Octapeptides. , 2006, , . | | 0 |
| 33 | Probing Peptide Structures by Two-Dimensional Infrared Spectroscopy. , 2007, , . | | 0 |
| 34 | Different Two-Dimensional Infrared Spectral Signatures for 310- and $\tilde{\nu}_{\text{H}}$ -Helix Octapeptides. <i>Springer Series in Chemical Physics</i> , 2007, , 347-349. | 0.2 | 0 |
| 35 | Chain Length Dependence of Two-Dimensional Infrared Spectral Pattern Characteristic to 310-Helix Peptides. <i>Springer Series in Chemical Physics</i> , 2009, , 415-417. | 0.2 | 0 |