

Nien-Hui Ge

List of Publications by Year in descending order

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33
papers

1,229
citations

471509

17
h-index

477307

29
g-index

35
all docs

35
docs citations

35
times ranked

1158
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Vibrational Spectroscopic Map, Vibrational Spectroscopy, and Intermolecular Interaction. <i>Chemical Reviews</i> , 2020, 120, 7152-7218. | 47.7 | 205 |
| 2 | Effects of Vibrational Frequency Correlations on Two-Dimensional Infrared Spectra. <i>Journal of Physical Chemistry A</i> , 2002, 106, 962-972. | 2.5 | 147 |
| 3 | Rapid vibrational imaging with sum frequency generation microscopy. <i>Optics Letters</i> , 2011, 36, 3891. | 3.3 | 75 |
| 4 | Different Spectral Signatures of Octapeptide 310- and α -Helices Revealed by Two-Dimensional Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5834-5837. | 2.6 | 67 |
| 5 | Two-Dimensional Infrared Spectral Signatures of 310- and α -Helical Peptides. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3222-3235. | 2.6 | 64 |
| 6 | 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. | 2.6 | 61 |
| 7 | Stapling of a 3 ¹⁰ -Helix with Click Chemistry. <i>Journal of Organic Chemistry</i> , 2011, 76, 1228-1238. | 3.2 | 56 |
| 8 | Mapping Molecular Orientation with Phase Sensitive Vibrationally Resonant Sum-Frequency Generation Microscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6149-6156. | 2.6 | 54 |
| 9 | 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. | 13.7 | 51 |
| 10 | 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. | 13.7 | 49 |
| 11 | 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. | 2.6 | 49 |
| 12 | Conformations of N-Acetyl-L-Prolineamide by Two-Dimensional Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19891-19905. | 2.6 | 47 |
| 13 | General noise suppression scheme with reference detection in heterodyne nonlinear spectroscopy. <i>Optics Express</i> , 2017, 25, 26262. | 3.4 | 43 |
| 14 | 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. | 2.6 | 41 |
| 15 | Femtosecond two-dimensional infrared spectroscopy: IR-COSY and THIRSTY. <i>PhysChemComm</i> , 2002, 5, 17. | 0.8 | 33 |
| 16 | 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. | 2.6 | 33 |
| 17 | Polarization-Sensitive Sum-Frequency Generation Microscopy of Collagen Fibers. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3356-3365. | 2.6 | 33 |
| 18 | Structure of Penta-Alanine Investigated by Two-Dimensional Infrared Spectroscopy and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5325-5339. | 2.6 | 18 |

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|----|--|------|-----------|
| 19 | Optimized noise reduction scheme for heterodyne spectroscopy using array detectors. <i>Optics Express</i> , 2019, 27, 20323. | 3.4 | 17 |
| 20 | 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. | 3.1 | 15 |
| 21 | 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. | 2.6 | 13 |
| 22 | Wavelength and Polarization Dependence of Second-Harmonic Responses from Gold Nanocrescent Arrays. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20424-20435. | 3.1 | 12 |
| 23 | Interactions of Tyrosine in Leu-Enkephalin at a Membrane-Water Interface: An Ultrafast Two-Dimensional Infrared Study Combined with Density Functional Calculations and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1180-1190. | 2.6 | 11 |
| 24 | 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. | 2.6 | 11 |
| 25 | 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. | 1.9 | 8 |
| 26 | Femtosecond Two-Dimensional Infrared Spectroscopy. <i>Journal of the Chinese Chemical Society</i> , 2000, 47, 843-853. | 1.4 | 5 |
| 27 | Photobase-Triggered Formation of 3D Epitaxially Fused Quantum Dot Superlattices with High Uniformity and Low Bulk Defect Densities. <i>ACS Nano</i> , 2022, 16, 3239-3250. | 14.6 | 5 |
| 28 | Ultrafast vibrational dynamics of the tyrosine ring mode and its application to enkephalin insertion into phospholipid membranes as probed by two-dimensional infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 155, 035102. | 3.0 | 3 |
| 29 | Molecular Imaging with Sum-frequency Generation Microscopy. , 2015, , . | | 1 |
| 30 | Probing Peptide Structures by Two-Dimensional Infrared Spectroscopy. , 2007, , . | | 0 |
| 31 | Different Two-Dimensional Infrared Spectral Signatures for 310- and \pm -Helix Octapeptides. <i>Springer Series in Chemical Physics</i> , 2007, , 347-349. | 0.2 | 0 |
| 32 | 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 |
| 33 | Molecular Imaging with Sum-frequency Generation Microscopy. , 2015, , . | | 0 |