

Feng Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Terahertz Spectroscopic Measurements and Solid-State Density Functional Calculations on CH ₃ NH ₃ PbBr ₃ Perovskites: Short-Range Order of Methylammonium. <i>Journal of Physical Chemistry C</i> , 2022, 126, 339-348.	1.5	4
2	A Quantitative Interpretation for the Difference of Terahertz Spectra of dl- and l-Alanine: Origins of Infrared Intensities in Terahertz Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16175-16182.	1.5	13
3	Low-frequency Vibrational Modes of DMPC Lipid Bilayer Studied by Terahertz Spectroscopy and Solid-state Density Functional Theory. , 2021, , .		0
4	High-Resolution THz Spectroscopy and Solid-State Density Functional Theory Calculations of Polycyclic Aromatic Hydrocarbons. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 1378-1392.	1.2	15
5	Interpretation of THz intensities of molecular crystals: the role of mixing between intermolecular and intramolecular vibrations. , 2020, , .		0
6	Determination of the Fine Structure of a Halide Perovskite using High-resolution THz Spectroscopy and Solid-state Density Functional Theory. , 2020, , .		0
7	Interpretation of THz Intensities of Molecular Crystals: the Role of Mixing between Intermolecular and Intramolecular Vibrations. , 2020, , .		0
8	Density of State of Low-frequency Intramolecular Vibrations for Stiff and Flexible Molecules at Solid Phase. , 2019, , .		0
9	Terahertz Fingerprints of Short-Range Correlations of Disordered Atoms in Diflunisal. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4555-4564.	1.1	13
10	Towards a General Rule Guiding THz Mode Assignment in Molecular Crystals. , 2019, , .		0
11	Application of THz Vibrational Spectroscopy to Molecular Characterization and the Theoretical Fundamentals: An Illustration Using Saccharide Molecules. <i>Chemistry - an Asian Journal</i> , 2017, 12, 324-331.	1.7	36
12	Mixing of intermolecular and intramolecular vibrations in optical phonon modes: terahertz spectroscopy and solid-state density functional theory. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016, 6, 386-409.	6.2	52
13	Elucidation of Chiral Symmetry Breaking in a Racemic Polymer System with Terahertz Vibrational Spectroscopy and Crystal Orbital Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4671-4676.	2.1	33
14	Characteristics of Low-Frequency Molecular Phonon Modes Studied by THz Spectroscopy and Solid-State ab Initio Theory: Polymorphs I and III of Diflunisal. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1698-1710.	1.2	30
15	Intramolecular Vibrations in Low-Frequency Normal Modes of Amino Acids: l-Alanine in the Neat Solid State. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3008-3022.	1.1	42
16	Terahertz spectroscopy and solid-state density functional theory calculation of anthracene: Effect of dispersion force on the vibrational modes. <i>Journal of Chemical Physics</i> , 2014, 140, 174509.	1.2	51
17	Low-frequency vibration study of amino acids using terahertz spectroscopy and solid-state density functional theory. <i>Proceedings of SPIE</i> , 2014, , .	0.8	11
18	Analysis of vibrational spectra of solid-state adenine and adenosine in the terahertz region. <i>RSC Advances</i> , 2014, 4, 269-278.	1.7	48

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19	Real-Time Monitoring of the Transesterification of Soybean Oil and Methanol by Fourier-Transform Infrared Spectroscopy. <i>Energy & Fuels</i> , 2013, 27, 5957-5961.	2.5	14