

# Feng Zhang

## List of Publications by Year in descending order

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19  
papers

372  
citations

840585

11  
h-index

1125617

13  
g-index

20  
all docs

20  
docs citations

20  
times ranked

243  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixing of intermolecular and intramolecular vibrations in optical phonon modes: terahertz spectroscopy and solid-state density functional theory. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2016, 6, 386-409.	6.2	52
2	Terahertz spectroscopy and solid-state density functional theory calculation of anthracene: Effect of dispersion force on the vibrational modes. Journal of Chemical Physics, 2014, 140, 174509.	1.2	51
3	Analysis of vibrational spectra of solid-state adenine and adenosine in the terahertz region. RSC Advances, 2014, 4, 269-278.	1.7	48
4	Intramolecular Vibrations in Low-Frequency Normal Modes of Amino Acids: <i>L</i> -Alanine in the Neat Solid State. Journal of Physical Chemistry A, 2015, 119, 3008-3022.	1.1	42
5	Application of THz Vibrational Spectroscopy to Molecular Characterization and the Theoretical Fundamentals: An Illustration Using Saccharide Molecules. Chemistry - an Asian Journal, 2017, 12, 324-331.	1.7	36
6	Elucidation of Chiral Symmetry Breaking in a Racemic Polymer System with Terahertz Vibrational Spectroscopy and Crystal Orbital Density Functional Theory. Journal of Physical Chemistry Letters, 2016, 7, 4671-4676.	2.1	33
7	Characteristics of Low-Frequency Molecular Phonon Modes Studied by THz Spectroscopy and Solid-State <i>ab Initio</i> Theory: Polymorphs I and III of Diflunisal. Journal of Physical Chemistry B, 2016, 120, 1698-1710.	1.2	30
8	High-Resolution THz Spectroscopy and Solid-State Density Functional Theory Calculations of Polycyclic Aromatic Hydrocarbons. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1378-1392.	1.2	15
9	Real-Time Monitoring of the Transesterification of Soybean Oil and Methanol by Fourier-Transform Infrared Spectroscopy. Energy & Fuels, 2013, 27, 5957-5961.	2.5	14
10	Terahertz Fingerprints of Short-Range Correlations of Disordered Atoms in Diflunisal. Journal of Physical Chemistry A, 2019, 123, 4555-4564.	1.1	13
11	A Quantitative Interpretation for the Difference of Terahertz Spectra of <i>DL</i> - and <i>L</i> -Alanine: Origins of Infrared Intensities in Terahertz Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 16175-16182.	1.5	13
12	Low-frequency vibration study of amino acids using terahertz spectroscopy and solid-state density functional theory. Proceedings of SPIE, 2014, , .	0.8	11
13	Terahertz Spectroscopic Measurements and Solid-State Density Functional Calculations on $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Perovskites: Short-Range Order of Methylammonium. Journal of Physical Chemistry C, 2022, 126, 339-348.	1.5	4
14	Density of State of Low-frequency Intramolecular Vibrations for Stiff and Flexible Molecules at Solid Phase. , 2019, , .		0
15	Towards a General Rule Guiding THz Mode Assignment in Molecular Crystals. , 2019, , .		0
16	Low-frequency Vibrational Modes of DMPG Lipid Bilayer Studied by Terahertz Spectroscopy and Solid-state Density Functional Theory. , 2021, , .		0
17	Interpretation of THz intensities of molecular crystals: the role of mixing between intermolecular and intramolecular vibrations. , 2020, , .		0
18	Determination of the Fine Structure of a Halide Perovskite using High-resolution THz Spectroscopy and Solid-state Density Functional Theory. , 2020, , .		0

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19	Interpretation of THz Intensities of Molecular Crystals: the Role of Mixing between Intermolecular and Intramolecular Vibrations. , 2020, , .		0