

Gianfelice Cinque

List of Publications by Year in descending order

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45
papers

1,661
citations

361045

20
h-index

288905

40
g-index

47
all docs

47
docs citations

47
times ranked

2623
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Adsorption of Sulfur Dioxide in a Robust Metal-Organic Framework Material. <i>Advanced Materials</i> , 2016, 28, 8705-8711.	11.1	214
2	Identifying the Role of Terahertz Vibrations in Metal-Organic Frameworks: From Gate-Opening Phenomenon to Shear-Driven Structural Destabilization. <i>Physical Review Letters</i> , 2014, 113, 215502.	2.9	202
3	Confinement of Iodine Molecules into Triple-Helical Chains within Robust Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 16289-16296.	6.6	199
4	Discovering connections between terahertz vibrations and elasticity underpinning the collective dynamics of the HKUST-1 metal-organic framework. <i>CrystEngComm</i> , 2016, 18, 4303-4312.	1.3	96
5	Enhancement of CO ₂ Adsorption and Catalytic Properties by Fe-Doping of [Ga ₂ (OH) ₂ (L)] (H ₄ L = Biphenyl-3,3',5,5'-tetracarboxylic Acid), MFM-300(Ga ₂). <i>Inorganic Chemistry</i> , 2016, 55, 1076-1088.	1.9	70
6	Refinement of pore size at sub-angstrom precision in robust metal-organic frameworks for separation of xylenes. <i>Nature Communications</i> , 2020, 11, 4280.	5.8	61
7	Detecting Molecular Rotational Dynamics Complementing the Low-Frequency Terahertz Vibrations in a Zirconium-Based Metal-Organic Framework. <i>Physical Review Letters</i> , 2017, 118, 255502.	2.9	60
8	Elementary Steps in the Formation of Hydrocarbons from Surface Methoxy Groups in HZSM-5 Seen by Synchrotron Infrared Microspectroscopy. <i>ACS Catalysis</i> , 2019, 9, 6564-6570.	5.5	48
9	Host-guest selectivity in a series of isorecticular metal-organic frameworks: observation of acetylene-to-alkyne and carbon dioxide-to-amide interactions. <i>Chemical Science</i> , 2019, 10, 1098-1106.	3.7	47
10	Multimode InfraRed Imaging and Microspectroscopy (MIRIAM) Beamline at Diamond. <i>Synchrotron Radiation News</i> , 2011, 24, 24-33.	0.2	45
11	Metamorphic records of multiple seismic cycles during subduction. <i>Science Advances</i> , 2018, 4, eaaq0234.	4.7	45
12	Tracking InfraRed signatures of drugs in cancer cells by Fourier Transform microspectroscopy. <i>Analyst</i> , 2010, 135, 3077.	1.7	43
13	In-situ Synchrotron IR Microspectroscopy of CO ₂ Adsorption on Single Crystals of the Functionalized MOF Sc ₂ (BDC-NH ₂) ₃ . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13483-13487.	7.2	42
14	Probing Dielectric Properties of Metal-Organic Frameworks: MIL-53(Al) as a Model System for Theoretical Predictions and Experimental Measurements via Synchrotron Far- and Mid-Infrared Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5035-5040.	2.1	39
15	Single-cell analysis using Fourier transform infrared microspectroscopy. <i>Applied Spectroscopy Reviews</i> , 2017, 52, 560-587.	3.4	38
16	Broadband near-field infrared spectromicroscopy using photothermal probes and synchrotron radiation. <i>Optics Express</i> , 2016, 24, 1852.	1.7	37
17	Dielectric Properties of Zeolitic Imidazolate Frameworks in the Broad-Band Infrared Regime. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2678-2684.	2.1	31
18	Tracking thermal-induced amorphization of a zeolitic imidazolate framework via synchrotron in situ far-infrared spectroscopy. <i>Chemical Communications</i> , 2017, 53, 7041-7044.	2.2	30

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19	Synchrotron based infrared imaging and spectroscopy via focal plane array on live fibroblasts in D2O enriched medium. <i>Biophysical Chemistry</i> , 2014, 189, 40-48.	1.5	29
20	Infrared imaging of small molecules in living cells: from in vitro metabolic analysis to cytopathology. <i>Faraday Discussions</i> , 2016, 187, 259-271.	1.6	26
21	Subcellular mapping of living cells via synchrotron microFTIR and ZnS hemispheres. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 6477-6487.	1.9	20
22	Live single cell analysis using synchrotron FTIR microspectroscopy: development of a simple dynamic flow system for prolonged sample viability. <i>Analyst</i> , 2019, 144, 997-1007.	1.7	20
23	Synchrotron-Based Infrared Microanalysis of Biological Redox Processes under Electrochemical Control. <i>Analytical Chemistry</i> , 2016, 88, 6666-6671.	3.2	19
24	Polyamorphism Mirrors Polymorphism in the Liquid-Liquid Transition of a Molecular Liquid. <i>Journal of the American Chemical Society</i> , 2020, 142, 7591-7597.	6.6	17
25	Binding and separation of CO ₂ , SO ₂ and C ₂ H ₂ in homo- and hetero-metallic metal-organic framework materials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7190-7197.	5.2	17
26	OX-1 Metal-Organic Framework Nanosheets as Robust Hosts for Highly Active Catalytic Palladium Species. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5875-5885.	3.2	15
27	Transmission Fourier Transform Infrared Spectroscopic Imaging, Mapping, and Synchrotron Scanning Microscopy with Zinc Sulfide Hemispheres on Living Mammalian Cells at Sub-Cellular Resolution. <i>Applied Spectroscopy</i> , 2020, 74, 544-552.	1.2	15
28	Discrimination between two different grades of human glioma based on blood vessel infrared spectral imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7295-7305.	1.9	14
29	Impact of Pressure and Temperature on the Broadband Dielectric Response of the HKUST-1 Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29427-29435.	1.5	14
30	Interrogation of IDH1 Status in Gliomas by Fourier Transform Infrared Spectroscopy. <i>Cancers</i> , 2020, 12, 3682.	1.7	12
31	Analysis of Red Pigments from the Neolithic sites of $\text{A}\ddot{\text{t}}\text{atalh}\ddot{\text{a}}\text{y}\ddot{\text{a}}\text{k}$ in Turkey and Sheikh-e Abad in Iran. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 131, 373-383.	2.0	11
32	Increased optical pathlength through aqueous media for the infrared microanalysis of live cells. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5779-5789.	1.9	10
33	Synchrotron Photothermal Infrared Nanospectroscopy of Drug-Induced Phospholipidosis in Macrophages. <i>Analytical Chemistry</i> , 2020, 92, 8097-8107.	3.2	10
34	Effects of crystal size on methanol to hydrocarbon conversion over single crystals of ZSM-5 studied by synchrotron infrared microspectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18849-18859.	1.3	10
35	Infrared Microspectroscopy and Imaging Analysis of Inflammatory and Non-Inflammatory Breast Cancer Cells and Their GAG Secretome. <i>Molecules</i> , 2020, 25, 4300.	1.7	9
36	Monitoring the Activation of Copper-Containing Zeotype Catalysts Prepared by Direct Synthesis Using in Situ Synchrotron Infrared Microcrystal Spectroscopy and Complementary Techniques. <i>Chemistry of Materials</i> , 2014, 26, 1434-1441.	3.2	8

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37	The crystalline state as a dynamic system: IR microspectroscopy under electrochemical control for a [NiFe] hydrogenase. <i>Chemical Science</i> , 2021, 12, 12959-12970.	3.7	8
38	Synchrotron-Based Infrared Spectral Imaging at the MIRIAM Beamline of Diamond Light Source. <i>Synchrotron Radiation News</i> , 2017, 30, 11-16.	0.2	7
39	Infrared Synchrotron Radiation Beamlines: High Brilliance Tools for IR Spectromicroscopy. <i>Metal Ions in Life Sciences</i> , 2010, , 67-104.	1.0	7
40	Analysis by synchrotron X-ray scattering of the kinetics of formation of an Fe-based metal-organic framework with high CO ₂ adsorption. <i>APL Materials</i> , 2019, 7, 111104.	2.2	4
41	Carbene-like reactivity of methoxy groups in a single crystal SAPO-34 MTO catalyst. <i>Catalysis Science and Technology</i> , 2022, 12, 2289-2305.	2.1	4
42	Label-Free, Real-Time Measurement of Metabolism of Adherent and Suspended Single Cells by In-Cell Fourier Transform Infrared Microspectroscopy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10742.	1.8	2
43	Illuminating Host-Parasite Interaction at the Cellular and Subcellular Levels with Infrared Microspectroscopy. <i>Cells</i> , 2022, 11, 811.	1.8	1
44	Infrared biomarkers of impaired cystic fibrosis transmembrane regulator protein biogenesis. <i>Journal of Biophotonics</i> , 2020, 13, e201900174.	1.1	0
45	Generating Single Metalloprotein Crystals in Well-Defined Redox States â€” Electrochemical Microspectroscopy As a Tool for Mechanistic Studies. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0