

Kathleen M Gough

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

625
citations

567281

15
h-index

580821

25
g-index

29
all docs

29
docs citations

29
times ranked

967
citing authors

#	ARTICLE	IF	CITATIONS
1	A synchrotron FTIR microspectroscopy investigation of fungal hyphae grown under optimal and stressed conditions. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1779-1789.	3.7	92
2	Low temperature, pressureless sp ² to sp ³ transformation of ultrathin, crystalline carbon films. <i>Carbon</i> , 2019, 145, 10-22.	10.3	64
3	Fourier transform infrared evaluation of microscopic scarring in the cardiomyopathic heart: Effect of chronic AT1 suppression. <i>Analytical Biochemistry</i> , 2003, 316, 232-242.	2.4	59
4	Time Fluctuations and Imaging in the SERS Spectra of Fungal Hypha Grown on Nanostructured Substrates. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12916-12924.	2.6	53
5	A sensitive method for examining whole-cell biochemical composition in single cells of filamentous fungi using synchrotron FTIR spectromicroscopy. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 540-546.	3.5	39
6	High spatial resolution analysis of fungal cell biochemistry "bridging the analytical gap" using synchrotron FTIR spectromicroscopy. <i>FEMS Microbiology Letters</i> , 2008, 284, 1-8.	1.8	36
7	In situ imaging of usnic acid in selected <i>Cladonia</i> spp. by vibrational spectroscopy. <i>Analyst</i> , The, 2010, 135, 3242.	3.5	31
8	High spatial resolution (1.1 μ m and 20 nm) FTIR polarization contrast imaging reveals pre-rupture disorder in damaged tendon. <i>Faraday Discussions</i> , 2016, 187, 555-573.	3.2	27
9	Orientation Matters: Polarization Dependent IR Spectroscopy of Collagen from Intact Tendon Down to the Single Fibril Level. <i>Molecules</i> , 2020, 25, 4295.	3.8	27
10	Proof-of-principle for SERS imaging of <i>Aspergillus nidulans</i> hyphae using in vivo synthesis of gold nanoparticles. <i>Analyst</i> , The, 2012, 137, 4934.	3.5	26
11	Tissue acquisition and storage associated oxidation considerations for FTIR microspectroscopic imaging of polyunsaturated fatty acids. <i>Vibrational Spectroscopy</i> , 2012, 60, 16-22.	2.2	26
12	Synchrotron FTIR microspectroscopic analysis of the effects of anti-inflammatory therapeutics on wound healing in laminectomized rats. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1679-1689.	3.7	24
13	Characterization of mannitol in <i>Curvularia protuberata</i> hyphae by FTIR and Raman spectromicroscopy. <i>Analyst</i> , The, 2010, 135, 3249.	3.5	20
14	Electronic Charge Flow and Raman Trace Scattering Intensities for CH Stretching Vibrations in Pentane. <i>The Journal of Physical Chemistry</i> , 1996, 100, 5210-5216.	2.9	18
15	The application of overtone spectroscopy to investigation of CH bond lengths and molecular conformations. <i>International Reviews in Physical Chemistry</i> , 1986, 5, 133-138.	2.3	16
16	Sex-Specific Effects of Chronic Creatine Supplementation on Hippocampal-Mediated Spatial Cognition in the 3xTg Mouse Model of Alzheimer's Disease. <i>Nutrients</i> , 2020, 12, 3589.	4.1	12
17	Progress on Diamane and Diamanoid Thin Film Pressureless Synthesis. <i>Journal of Carbon Research</i> , 2021, 7, 9.	2.7	11
18	X-ray microfluorescence (XRF) imaging of <i>Aspergillus nidulans</i> cell wall mutants reveals biochemical changes due to gene deletions. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2809-2816.	3.7	9

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19	Ultrastructural and SINS analysis of the cell wall integrity response of <i>Aspergillus nidulans</i> to the absence of galactofuranose. <i>Analyst, The</i> , 2019, 144, 928-934.	3.5	7
20	Near-field infrared nanospectroscopy and super-resolution fluorescence microscopy enable complementary nanoscale analyses of lymphocyte nuclei. <i>Analyst, The</i> , 2018, 143, 5926-5934.	3.5	6
21	Thermal source Fourier transform infrared microtomography applied to Arctic sea ice diatoms. <i>Analyst, The</i> , 2017, 142, 660-669.	3.5	5
22	Carbon and nitrogen uptake rates and macromolecular compositions of bottom-ice algae and phytoplankton at Cambridge Bay in Dease Strait, Canada. <i>Annals of Glaciology</i> , 2020, 61, 106-116.	1.4	5
23	Ab initio analysis of Raman trace scattering intensities in alkenes and silanes. <i>Journal of Raman Spectroscopy</i> , 2002, 33, 147-154.	2.5	3
24	Applications of the Local Mode Model to CH Bond Length Changes, Molecular Conformations and Vibrational Dynamics. <i>Laser Chemistry</i> , 1983, 2, 309-320.	0.5	2
25	Computation and interpretation of Raman scattering intensities. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2004, 4, 597-609.	0.2	2
26	Optical diagnosis – highlighting the clinical applications of vibrational spectroscopy. <i>Analyst, The</i> , 2017, 142, 1177-1178.	3.5	2
27	Protein Structural Analysis of Calbindin D _{28k} Function and Dysregulation: Potential Competition Between Ca ²⁺ and Zn ²⁺ . <i>Current Alzheimer Research</i> , 2016, 13, 777-786.	1.4	2
28	QTAIM Analysis of Raman Scattering Intensities: Insights into the Relationship Between Molecular Structure and Electronic Charge Flow. , 0, , 95-120.		1