Kathleen M Gough

List of Publications by Year
in descending order

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28	625	567281	580821
papers	citations	15 h-index	25 g-index

29	29	29	967
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress on Diamane and Diamanoid Thin Film Pressureless Synthesis. Journal of Carbon Research, 2021, 7, 9.	2.7	11
2	Orientation Matters: Polarization Dependent IR Spectroscopy of Collagen from Intact Tendon Down to the Single Fibril Level. Molecules, 2020, 25, 4295.	3.8	27
3	Sex-Specific Effects of Chronic Creatine Supplementation on Hippocampal-Mediated Spatial Cognition in the 3xTg Mouse Model of Alzheimerâ€™s Disease. Nutrients, 2020, 12, 3589.	4.1	12
4	Carbon and nitrogen uptake rates and macromolecular compositions of bottom-ice algae and phytoplankton at Cambridge Bay in Dease Strait, Canada. Annals of Glaciology, 2020, 61, 106-116.	1.4	5
5	Ultrastructural and SINS analysis of the cell wall integrity response ofAspergillus nidulansto the absence of galactofuranose. Analyst, The, 2019, 144, 928-934.	3.5	7
6	Low temperature, pressureless sp2 to sp3 transformation of ultrathin, crystalline carbon films. Carbon, 2019, 145, 10-22.	10.3	64
7	Near-field infrared nanospectroscopy and super-resolution fluorescence microscopy enable complementary nanoscale analyses of lymphocyte nuclei. Analyst, The, 2018, 143, 5926-5934.	3.5	6
8	Thermal source Fourier transform infrared microtomography applied to Arctic sea ice diatoms. Analyst, The, 2017, 142, 660-669.	3.5	5
9	Optical diagnosis â€“ highlighting the clinical applications of vibrational spectroscopy. Analyst, The, 2017, 142, 1177-1178.	3.5	2
10	High spatial resolution (1.1 Î¼m and 20 nm) FTIR polarization contrast imaging reveals pre-rupture disorder in damaged tendon. Faraday Discussions, 2016, 187, 555-573.	3.2	27
11	Protein Structural Analysis of Calbindin D_{28k} Function and Dysregulation: Potential Competition Between Ca²⁺ and Zn²⁺. Current Alzheimer Research, 2016, 13, 777-786.	1.4	2
12	X-ray microfluorescence (Î¼XRF) imaging of Aspergillus nidulans cell wall mutants reveals biochemical changes due to gene deletions. Analytical and Bioanalytical Chemistry, 2014, 406, 2809-2816.	3.7	9
13	Proof-of-principle for SERS imaging of Aspergillus nidulans hyphae using in vivo synthesis of gold nanoparticles. Analyst, The, 2012, 137, 4934.	3.5	26
14	Tissue acquisition and storage associated oxidation considerations for FTIR microspectroscopic imaging of polyunsaturated fatty acids. Vibrational Spectroscopy, 2012, 60, 16-22.	2.2	26
15	Characterization of mannitol in Curvularia protuberata hyphae by FTIR and Raman spectromicroscopy. Analyst, The, 2010, 135, 3249.	3.5	20
16	In situ imaging of usnic acid in selected Cladonia spp. by vibrational spectroscopy. Analyst, The, 2010, 135, 3242.	3.5	31
17	A sensitive method for examining whole-cell biochemical composition in single cells of filamentous fungi using synchrotron FTIR spectromicroscopy. Journal of Inorganic Biochemistry, 2008, 102, 540-546.	3.5	39
18	High spatial resolution analysis of fungal cell biochemistry Ã¢Â€Â“ bridging the analytical gap using synchrotron FTIR spectromicroscopy. FEMS Microbiology Letters, 2008, 284, 1-8.	1.8	36

#	Article	IF	Citations
19	Time Fluctuations and Imaging in the SERS Spectra of Fungal Hypha Grown on Nanostructured Substrates. Journal of Physical Chemistry B, 2007, 111, 12916-12924.	2.6	53
20	A synchrotron FTIR microspectroscopy investigation of fungal hyphae grown under optimal and stressed conditions. Analytical and Bioanalytical Chemistry, 2007, 387, 1779-1789.	3.7	92
21	Synchrotron FTIR microspectroscopic analysis of the effects of anti-inflammatory therapeutics on wound healing in laminectomized rats. Analytical and Bioanalytical Chemistry, 2007, 387, 1679-1689.	3.7	24
22	Computation and interpretation of Raman scattering intensities. Journal of Computational Methods in Sciences and Engineering, 2004, 4, 597-609.	0.2	2
23	Fourier transform infrared evaluation of microscopic scarring in the cardiomyopathic heart: Effect of chronic AT1 suppression. Analytical Biochemistry, 2003, 316, 232-242.	2.4	59
24	Ab initio analysis of Raman trace scattering intensities in alkenes and silanes. Journal of Raman Spectroscopy, 2002, 33, 147-154.	2.5	3
25	Electronic Charge Flow and Raman Trace Scattering Intensities for CH Stretching Vibrations inn-Pentane. The Journal of Physical Chemistry, 1996, 100, 5210-5216.	2.9	18
26	The application of overtone spectroscopy to investigation of CH bond lengths and molecular conformations. International Reviews in Physical Chemistry, 1986, 5, 133-138.	2.3	16
27	Applications of the Local Mode Model to CH Bond Length Changes, Molecular Conformations and Vibrational Dynamics. Laser Chemistry, 1983, 2, 309-320.	0.5	2
28	QTAIM Analysis of Raman Scattering Intensities: Insights into the Relationship Between Molecular Structure and Electronic Charge Flow. , 0, , 95-120.		1