Paul Dumas

List of Publications by Year
in descending order

37 papers	2,893 citations	218381 26 h-index	329751 37 g-index
39 all docs	39 docs citations	39 times ranked	2895 citing authors

#	Article	IF	Citations
1	Resonant Mie Scattering (RMieS) correction of infrared spectra from highly scattering biological samples. Analyst, The, 2010, 135, 268-277.	1.7	332
2	Chemical imaging of biological tissue with synchrotron infrared light. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 846-857.	1.4	324
3	Resonant Mie scattering in infrared spectroscopy of biological materials â€“ understanding the â€˜dispersion artefactâ€™. Analyst, The, 2009, 134, 1586.	1.7	276
4	The use of synchrotron infrared microspectroscopy in biological and biomedical investigations. Vibrational Spectroscopy, 2003, 32, 3-21.	1.2	204
5	Water partitioning between mantle minerals from peridotite xenoliths. Contributions To Mineralogy and Petrology, 2007, 154, 15-34.	1.2	167
6	Adding synchrotron radiation to infrared microspectroscopy: what's new in biomedical applications?. Trends in Biotechnology, 2007, 25, 40-44.	4.9	140
7	Reflection contributions to the dispersion artefact in FTIR spectra of single biological cells. Analyst, The, 2009, 134, 1171.	1.7	118
8	From structure to cellular mechanism with infrared microspectroscopy. Current Opinion in Structural Biology, 2010, 20, 649-656.	2.6	118
9	RMieSâ€EMSC correction for infrared spectra of biological cells: Extension using full Mie theory and GPU computing. Journal of Biophotonics, 2010, 3, 609-620.	1.1	116
10	Chemical heterogeneity in cell death: Combined synchrotron IR and fluorescence microscopy studies of single apoptotic and necrotic cells. Biopolymers, 2003, 72, 366-373.	1.2	107
11	Biomolecular investigation of human substantia nigra in Parkinsonâ€™s disease by synchrotron radiation Fourier transform infrared microspectroscopy. Archives of Biochemistry and Biophysics, 2007, 459, 241-248.	1.4	78
12	Chemical Imaging on Liver Steatosis Using Synchrotron Infrared and ToF-SIMS Microspectroscopies. PLoS ONE, 2009, 4, e7408.	1.1	76
13	IR spectroscopy reveals effect of non-cytotoxic doses of anti-tumour drug on cancer cells. Analytical and Bioanalytical Chemistry, 2009, 395, 2293-2301.	1.9	62
14	Recent applications and current trends in analytical chemistry using synchrotron-based Fourier-transform infrared microspectroscopy. TrAC - Trends in Analytical Chemistry, 2010, 29, 453-463.	5.8	59
15	Synchrotron FT-IR microscopic study of chemical enhancers in transdermal drug delivery: example of fatty acids. Journal of Controlled Release, 2004, 97, 269-281.	4.8	58
16	Multimodal Spectroscopy Combining Time-of-Flight-Secondary Ion Mass Spectrometry, Synchrotron-FT-IR, and Synchrotron-UV Microspectroscopies on the Same Tissue Section. Analytical Chemistry, 2010, 82, 3963-3968.	3.2	53
17	Vibrational spectroscopy differentiates between multipotent and pluripotent stem cells. Analyst, The, 2010, 135, 3126.	1.7	52
18	Recent applications and current trends in Cultural Heritage Science using synchrotron-based Fourier transform infrared micro-spectroscopy. Comptes Rendus Physique, 2009, 10, 590-600.	0.3	50

#	Article	IF	Citations
19	Spectroscopic signatures of single, isolated cancer cell nuclei using synchrotron infrared microscopy. Analyst, The, 2009, 134, 1176.	1.7	48
20	Synchrotron-based FTIR spectra of stained single cells. Towards a clinical application in pathology. Laboratory Investigation, 2010, 90, 797-807.	1.7	46
21	SR-FTIR spectroscopy of renal epithelial carcinoma side population cells displaying stem cell-like characteristics. Analyst, The, 2010, 135, 3133.	1.7	44
22	Combining IR spectroscopy with fluorescence imaging in a single microscope: Biomedical applications using a synchrotron infrared source (invited). Review of Scientific Instruments, 2002, 73, 1357-1360.	0.6	42
23	Studying skin of an Egyptian mummy by infrared microscopy. Vibrational Spectroscopy, 2005, 38, 159-167.	1.2	41
24	In Situ Chemical Composition Analysis of Cirrhosis by Combining Synchrotron Fourier Transform Infrared and Synchrotron X-ray Fluorescence Microspectroscopies on the Same Tissue Section. Analytical Chemistry, 2012, 84, 10260-10266.	3.2	36
25	Profiling pluripotent stem cells and organelles using synchrotron radiation infrared microspectroscopy. Journal of Biophotonics, 2013, 6, 60-72.	1.1	35
26	Vibrational signatures to discriminate liver steatosis grades. Analyst, The, 2015, 140, 1107-1118.	1.7	28
27	Synchrotron FTIR microanalysis of volatiles in melt inclusions and exsolved particles in ultramafic deep-seated garnets. Chemical Geology, 2005, 223, 82-92.	1.4	24
28	Study of gemcitabineâ€sensitive/resistant cancer cells by cell cloning and synchrotron FTIR microspectroscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 688-697.	1.1	24
29	Photosensitizer effects on cancerous cells: A combined study using synchrotron infrared and fluorescence microscopies. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 854-860.	1.1	23
30	The biochemical changes in hippocampal formation occurring in normal and seizure experiencing rats as a result of a ketogenic diet. Analyst, The, 2015, 140, 2190-2204.	1.7	19
31	Infrared spectral signatures of CDCP1-induced effects in colon carcinoma cells. Analyst, The, 2011, 136, 5162.	1.7	16
32	Identification of Spectral Modifications Occurring during Reprogramming of Somatic Cells. PLoS ONE, 2012, 7, e30743.	1.1	16
33	Discrimination of cirrhotic nodules, dysplastic lesions and hepatocellular carcinoma by their vibrational signature. Journal of Translational Medicine, 2016, 14, 9.	1.8	16
34	EMIRA: The Infrared Synchrotron Radiation Beamline at SESAME. Synchrotron Radiation News, 2017, 30, 8-10.	0.2	10
35	Simulation and design of an infrared beamline for SESAME (Synchrotron-Light for Experimental) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 673, 73-81.	0.7	9
36	FTIR microspectroscopy of stained cells and tissues. Application in cancer diagnosis. Spectroscopy, 2010, 24, 73-78.	0.8	8

#	Article	IF	Citations
37	P2-148: Synchrotron based FTIR spectroscopy of single cells. Applications in lung cancer diagnosis and management. Journal of Thoracic Oncology, 2007, 2, S549-S550.	0.5	0