

Paul Dumas

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

2,516
citations

25
h-index

39
g-index

39
ext. papers

2,707
ext. citations

4.9
avg, IF

4.71
L-index

#	Paper	IF	Citations
38	Resonant Mie scattering (RMieS) correction of infrared spectra from highly scattering biological samples. <i>Analyst, The</i> , 2010 , 135, 268-77	5	283
37	Chemical imaging of biological tissue with synchrotron infrared light. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 846-57	3.8	278
36	Resonant Mie scattering in infrared spectroscopy of biological materials--understanding the dispersion artefact. <i>Analyst, The</i> , 2009 , 134, 1586-93	5	242
35	The use of synchrotron infrared microspectroscopy in biological and biomedical investigations. <i>Vibrational Spectroscopy</i> , 2003 , 32, 3-21	2.1	189
34	Water partitioning between mantle minerals from peridotite xenoliths. <i>Contributions To Mineralogy and Petrology</i> , 2007 , 154, 15-34	3.5	151
33	Adding synchrotron radiation to infrared microspectroscopy: what's new in biomedical applications?. <i>Trends in Biotechnology</i> , 2007 , 25, 40-4	15.1	127
32	Reflection contributions to the dispersion artefact in FTIR spectra of single biological cells. <i>Analyst, The</i> , 2009 , 134, 1171-5	5	109
31	RMieS-EMSC correction for infrared spectra of biological cells: extension using full Mie theory and GPU computing. <i>Journal of Biophotonics</i> , 2010 , 3, 609-20	3.1	105
30	From structure to cellular mechanism with infrared microspectroscopy. <i>Current Opinion in Structural Biology</i> , 2010 , 20, 649-56	8.1	100
29	Chemical heterogeneity in cell death: combined synchrotron IR and fluorescence microscopy studies of single apoptotic and necrotic cells. <i>Biopolymers</i> , 2003 , 72, 366-73	2.2	98
28	Chemical imaging on liver steatosis using synchrotron infrared and ToF-SIMS microspectroscopies. <i>PLoS ONE</i> , 2009 , 4, e7408	3.7	64
27	Biomolecular investigation of human substantia nigra in Parkinson's disease by synchrotron radiation Fourier transform infrared microspectroscopy. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 459, 241-8	4.1	62
26	IR spectroscopy reveals effect of non-cytotoxic doses of anti-tumour drug on cancer cells. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 2293-301	4.4	55
25	Synchrotron FT-IR microscopic study of chemical enhancers in transdermal drug delivery: example of fatty acids. <i>Journal of Controlled Release</i> , 2004 , 97, 269-81	11.7	50
24	Recent applications and current trends in analytical chemistry using synchrotron-based Fourier-transform infrared microspectroscopy. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 453-463	14.6	49
23	Multimodal spectroscopy combining time-of-flight-secondary ion mass spectrometry, synchrotron-FT-IR, and synchrotron-UV microspectroscopies on the same tissue section. <i>Analytical Chemistry</i> , 2010 , 82, 3963-8	7.8	48
22	Vibrational spectroscopy differentiates between multipotent and pluripotent stem cells. <i>Analyst, The</i> , 2010 , 135, 3126-32	5	48

21	Recent applications and current trends in Cultural Heritage Science using synchrotron-based Fourier transform infrared micro-spectroscopy. <i>Comptes Rendus Physique</i> , 2009 , 10, 590-600	1.4	45
20	Spectroscopic signatures of single, isolated cancer cell nuclei using synchrotron infrared microscopy. <i>Analyst, The</i> , 2009 , 134, 1176-81	5	44
19	Synchrotron-based FTIR spectra of stained single cells. Towards a clinical application in pathology. <i>Laboratory Investigation</i> , 2010 , 90, 797-807	5.9	40
18	SR-FTIR spectroscopy of renal epithelial carcinoma side population cells displaying stem cell-like characteristics. <i>Analyst, The</i> , 2010 , 135, 3133-41	5	39
17	Studying skin of an Egyptian mummy by infrared microscopy. <i>Vibrational Spectroscopy</i> , 2005 , 38, 159-167	2.1	37
16	Combining IR spectroscopy with fluorescence imaging in a single microscope: Biomedical applications using a synchrotron infrared source (invited). <i>Review of Scientific Instruments</i> , 2002 , 73, 1357-1360	1.7	35
15	Profiling pluripotent stem cells and organelles using synchrotron radiation infrared microspectroscopy. <i>Journal of Biophotonics</i> , 2013 , 6, 60-72	3.1	25
14	In situ chemical composition analysis of cirrhosis by combining synchrotron fourier transform infrared and synchrotron X-ray fluorescence microspectroscopies on the same tissue section. <i>Analytical Chemistry</i> , 2012 , 84, 10260-6	7.8	25
13	Study of gemcitabine-sensitive/resistant cancer cells by cell cloning and synchrotron FTIR microspectroscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2014 , 85, 688-97	4.6	22
12	Synchrotron FTIR microanalysis of volatiles in melt inclusions and exsolved particles in ultramafic deep-seated garnets. <i>Chemical Geology</i> , 2005 , 223, 82-92	4.2	21
11	Photosensitizer effects on cancerous cells: a combined study using synchrotron infrared and fluorescence microscopies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008 , 1780, 854-60	4	20
10	Vibrational signatures to discriminate liver steatosis grades. <i>Analyst, The</i> , 2015 , 140, 1107-18	5	18
9	Infrared spectral signatures of CDCP1-induced effects in colon carcinoma cells. <i>Analyst, The</i> , 2011 , 136, 5162-8	5	14
8	Multichannel Detection with a Synchrotron Light Source: Design and Potential 2007 , 56-84		14
7	The biochemical changes in hippocampal formation occurring in normal and seizure experiencing rats as a result of a ketogenic diet. <i>Analyst, The</i> , 2015 , 140, 2190-204	5	13
6	Identification of spectral modifications occurring during reprogramming of somatic cells. <i>PLoS ONE</i> , 2012 , 7, e30743	3.7	12
5	Discrimination of cirrhotic nodules, dysplastic lesions and hepatocellular carcinoma by their vibrational signature. <i>Journal of Translational Medicine</i> , 2016 , 14, 9	8.5	10
4	EMIRA: The Infrared Synchrotron Radiation Beamline at SESAME. <i>Synchrotron Radiation News</i> , 2017 , 30, 8-10	0.6	9

3	Simulation and design of an infrared beamline for SESAME (Synchrotron-Light for Experimental Science and Applications in the Middle East). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012 , 673, 73-81	1.2	8
2	FTIR microspectroscopy of stained cells and tissues. Application in cancer diagnosis. <i>Spectroscopy</i> , 2010 , 24, 73-78		7
1	P2-148: Synchrotron based FTIR spectroscopy of single cells. Applications in lung cancer diagnosis and management. <i>Journal of Thoracic Oncology</i> , 2007 , 2, S549-S550		8.9