

# Paul Dumas

## List of Publications by Year in Descending Order

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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	EMIRA: The Infrared Synchrotron Radiation Beamline at SESAME. <i>Synchrotron Radiation News</i> , <b>2017</b> , 30, 8-10	0.6	9
37	Discrimination of cirrhotic nodules, dysplastic lesions and hepatocellular carcinoma by their vibrational signature. <i>Journal of Translational Medicine</i> , <b>2016</b> , 14, 9	8.5	10
36	The biochemical changes in hippocampal formation occurring in normal and seizure experiencing rats as a result of a ketogenic diet. <i>Analyst, The</i> , <b>2015</b> , 140, 2190-204	5	13
35	Vibrational signatures to discriminate liver steatosis grades. <i>Analyst, The</i> , <b>2015</b> , 140, 1107-18	5	18
34	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> , <b>2014</b> , 85, 688-97	4.6	22
33	Profiling pluripotent stem cells and organelles using synchrotron radiation infrared microspectroscopy. <i>Journal of Biophotonics</i> , <b>2013</b> , 6, 60-72	3.1	25
32	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> , <b>2012</b> , 673, 73-81	1.2	8
31	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> , <b>2012</b> , 84, 10260-6	7.8	25
30	Identification of spectral modifications occurring during reprogramming of somatic cells. <i>PLoS ONE</i> , <b>2012</b> , 7, e30743	3.7	12
29	Infrared spectral signatures of CDCP1-induced effects in colon carcinoma cells. <i>Analyst, The</i> , <b>2011</b> , 136, 5162-8	5	14
28	Synchrotron-based FTIR spectra of stained single cells. Towards a clinical application in pathology. <i>Laboratory Investigation</i> , <b>2010</b> , 90, 797-807	5.9	40
27	FTIR microspectroscopy of stained cells and tissues. Application in cancer diagnosis. <i>Spectroscopy</i> , <b>2010</b> , 24, 73-78		7
26	Resonant Mie scattering (RMieS) correction of infrared spectra from highly scattering biological samples. <i>Analyst, The</i> , <b>2010</b> , 135, 268-77	5	283
25	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> , <b>2010</b> , 82, 3963-8	7.8	48
24	Vibrational spectroscopy differentiates between multipotent and pluripotent stem cells. <i>Analyst, The</i> , <b>2010</b> , 135, 3126-32	5	48
23	SR-FTIR spectroscopy of renal epithelial carcinoma side population cells displaying stem cell-like characteristics. <i>Analyst, The</i> , <b>2010</b> , 135, 3133-41	5	39
22	From structure to cellular mechanism with infrared microspectroscopy. <i>Current Opinion in Structural Biology</i> , <b>2010</b> , 20, 649-56	8.1	100

21	RMieS-EMSC correction for infrared spectra of biological cells: extension using full Mie theory and GPU computing. <i>Journal of Biophotonics</i> , <b>2010</b> , 3, 609-20	3.1	105
20	Recent applications and current trends in analytical chemistry using synchrotron-based Fourier-transform infrared microspectroscopy. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2010</b> , 29, 453-463	14.6	49
19	IR spectroscopy reveals effect of non-cytotoxic doses of anti-tumour drug on cancer cells. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 395, 2293-301	4.4	55
18	Recent applications and current trends in Cultural Heritage Science using synchrotron-based Fourier transform infrared micro-spectroscopy. <i>Comptes Rendus Physique</i> , <b>2009</b> , 10, 590-600	1.4	45
17	Resonant Mie scattering in infrared spectroscopy of biological materials--understanding the dispersion artefact. <i>Analyst, The</i> , <b>2009</b> , 134, 1586-93	5	242
16	Spectroscopic signatures of single, isolated cancer cell nuclei using synchrotron infrared microscopy. <i>Analyst, The</i> , <b>2009</b> , 134, 1176-81	5	44
15	Reflection contributions to the dispersion artefact in FTIR spectra of single biological cells. <i>Analyst, The</i> , <b>2009</b> , 134, 1171-5	5	109
14	Chemical imaging on liver steatosis using synchrotron infrared and ToF-SIMS microspectroscopies. <i>PLoS ONE</i> , <b>2009</b> , 4, e7408	3.7	64
13	Photosensitizer effects on cancerous cells: a combined study using synchrotron infrared and fluorescence microscopies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2008</b> , 1780, 854-60	4	20
12	Multichannel Detection with a Synchrotron Light Source: Design and Potential <b>2007</b> , 56-84		14
11	P2-148: Synchrotron based FTIR spectroscopy of single cells. Applications in lung cancer diagnosis and management. <i>Journal of Thoracic Oncology</i> , <b>2007</b> , 2, S549-S550	8.9	
10	Adding synchrotron radiation to infrared microspectroscopy: what's new in biomedical applications?. <i>Trends in Biotechnology</i> , <b>2007</b> , 25, 40-4	15.1	127
9	Water partitioning between mantle minerals from peridotite xenoliths. <i>Contributions To Mineralogy and Petrology</i> , <b>2007</b> , 154, 15-34	3.5	151
8	Biomolecular investigation of human substantia nigra in Parkinson's disease by synchrotron radiation Fourier transform infrared microspectroscopy. <i>Archives of Biochemistry and Biophysics</i> , <b>2007</b> , 459, 241-8	4.1	62
7	Chemical imaging of biological tissue with synchrotron infrared light. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2006</b> , 1758, 846-57	3.8	278
6	Synchrotron FTIR microanalysis of volatiles in melt inclusions and exsolved particles in ultramafic deep-seated garnets. <i>Chemical Geology</i> , <b>2005</b> , 223, 82-92	4.2	21
5	Studying skin of an Egyptian mummy by infrared microscopy. <i>Vibrational Spectroscopy</i> , <b>2005</b> , 38, 159-167	7.1	37
4	Synchrotron FT-IR microscopic study of chemical enhancers in transdermal drug delivery: example of fatty acids. <i>Journal of Controlled Release</i> , <b>2004</b> , 97, 269-81	11.7	50

- 3 Chemical heterogeneity in cell death: combined synchrotron IR and fluorescence microscopy studies of single apoptotic and necrotic cells. *Biopolymers*, **2003**, 72, 366-73 2.2 98
- 2 The use of synchrotron infrared microspectroscopy in biological and biomedical investigations. *Vibrational Spectroscopy*, **2003**, 32, 3-21 2.1 189
- 1 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<sup>35</sup>