

Cyril Petibois

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1929641/cyril-petibois-publications-by-year.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

79
papers

2,927
citations

29
h-index

52
g-index

92
ext. papers

3,239
ext. citations

6.6
avg, IF

5.03
L-index

#	Paper	IF	Citations
79	High-resolution fast-tomography brain-imaging beamline at the Taiwan Photon Source. <i>Journal of Synchrotron Radiation</i> , 2021 , 28, 1662-1668	2.4	0
78	A synchrotron X-ray imaging strategy to map large animal brains. <i>Chinese Journal of Physics</i> , 2020 , 65, 24-32	3.5	7
77	Physico-chemical analysis of molecular binding to the colloidal metal nanostructure: Multiple micro- and nanospectroscopy study. <i>Applied Surface Science</i> , 2020 , 499, 143975	6.7	5
76	Assessment of cellular response to drug/nanoparticles conjugates treatment through FTIR imaging and PLS regression study. <i>Sensors and Actuators B: Chemical</i> , 2020 , 313, 128039	8.5	7
75	Increased autophagy in EphrinB2-deficient osteocytes is associated with elevated secondary mineralization and brittle bone. <i>Nature Communications</i> , 2019 , 10, 3436	17.4	29
74	3D Digital Pathology for a Chemical-Functional Analysis of Glomeruli in Health and Pathology. <i>Analytical Chemistry</i> , 2018 , 90, 3811-3818	7.8	6
73	3D chemical imaging of the brain using quantitative IR spectro-microscopy. <i>Chemical Science</i> , 2018 , 9, 189-198	9.4	4
72	Quantitative IR microscopy and spectromics open the way to 3D digital pathology. <i>Journal of Biophotonics</i> , 2017 , 10, 598-606	3.1	11
71	Development of a specific index to detect malnutrition in athletes: Validity in weight class or intermittent fasted athletes. <i>Biochimie Open</i> , 2017 , 4, 1-7	0	2
70	Fourier-transform vs. quantum-cascade-laser infrared microscopes for histo-pathology: From lab to hospital?. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 89, 190-196	14.6	13
69	3D Quantitative Chemical Imaging of Tissues by Spectromics. <i>Trends in Biotechnology</i> , 2017 , 35, 1194-1207	3.1	9
68	Mineralogy and textures of riebeckitic asbestos (crocidolite): The role of single versus agglomerated fibres in toxicological experiments. <i>Journal of Hazardous Materials</i> , 2017 , 340, 472-485	12.8	7
67	What can infrared spectroscopy do for characterizing organic remnant in fossils?. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 82, 443-456	14.6	13
66	FTIR spectroscopy characterization of fatty-acyl-chain conjugates. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 319-26	4.4	8
65	Methodology for FTIR Imaging of Individual Cells. <i>Acta Physica Polonica A</i> , 2016 , 129, 250-254	0.6	2
64	The Future of Infrared Spectroscopy in Biosciences: In Vitro, Time-Resolved, and 3D. <i>Acta Physica Polonica A</i> , 2016 , 129, 255-259	0.6	4
63	Fourier-transform-infrared-spectroscopy based spectral-biomarker selection towards optimum diagnostic differentiation of oral leukoplakia and cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7935-43	4.4	30

62	Gold nanoparticles as multimodality imaging agents for brain gliomas. <i>Journal of Nanobiotechnology</i> , 2015 , 13, 85	9.4	23
61	The role of asbestos morphology on their cellular toxicity: an in vitro 3D Raman/Rayleigh imaging study. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 8701-7	4.4	9
60	Very small photoluminescent gold nanoparticles for multimodality biomedical imaging. <i>Biotechnology Advances</i> , 2013 , 31, 362-8	17.8	17
59	FTIR spectro-imaging of collagen scaffold formation during glioma tumor development. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 8729-36	4.4	10
58	Experimental ATR device for real-time FTIR imaging of living cells using brilliant synchrotron radiation sources. <i>Biotechnology Advances</i> , 2013 , 31, 402-7	17.8	11
57	Gold nanoparticles as high-resolution X-ray imaging contrast agents for the analysis of tumor-related micro-vasculature. <i>Journal of Nanobiotechnology</i> , 2012 , 10, 10	9.4	52
56	X-ray microscopy and tomography detect the accumulation of bare and PEG-coated gold nanoparticles in normal and tumor mouse tissues. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 1287-96	4.4	9
55	Biological applications of synchrotron radiation infrared spectromicroscopy. <i>Biotechnology Advances</i> , 2012 , 30, 1390-404	17.8	58
54	FTIR spectro-imaging of collagens for characterization and grading of gliomas. <i>Biotechnology Advances</i> , 2012 , 30, 1432-46	17.8	42
53	Use of synchrotron-radiation-based FTIR imaging for characterizing changes in cell contents. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 1311-6	4.4	8
52	X-ray imaging of tumor growth in live mice by detecting gold-nanoparticle-loaded cells. <i>Scientific Reports</i> , 2012 , 2, 610	4.9	23
51	Detection of collagens in brain tumors based on FTIR imaging and chemometrics. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 845-52	4.4	20
50	Functional histology of glioma vasculature by FTIR imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 795-801	4.4	14
49	Orientation of molecular groups of fibers in nonoriented samples determined by polarized ATR-FTIR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 3263-8	4.4	10
48	Quantitative analysis of nanoparticle internalization in mammalian cells by high resolution X-ray microscopy. <i>Journal of Nanobiotechnology</i> , 2011 , 9, 14	9.4	49
47	Imaging methods for elemental, chemical, molecular, and morphological analyses of single cells. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 2051-65	4.4	55
46	Analytical characterization of cell-asbestos fiber interactions in lung pathogenesis. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 2079-89	4.4	23
45	Synchrotron microangiography studies of angiogenesis in mice with microemulsions and gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 2109-16	4.4	22

44	Synchrotron radiation FTIR imaging in minutes: a first step towards real-time cell imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 2123-9	4.4	41
43	Clinical application of FTIR imaging: new reasons for hope. <i>Trends in Biotechnology</i> , 2010 , 28, 495-500	15.1	58
42	Facing the challenge of biosample imaging by FTIR with a synchrotron radiation source. <i>Journal of Synchrotron Radiation</i> , 2010 , 17, 1-11	2.4	38
41	Collagen types analysis and differentiation by FTIR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 829-37	4.4	286
40	A bright future for synchrotron imaging. <i>Nature Photonics</i> , 2009 , 3, 179-179	33.9	127
39	Sonochemical approach to the synthesis of Fe(3)O(4)@SiO(2) core-shell nanoparticles with tunable properties. <i>ACS Nano</i> , 2008 , 2, 847-56	16.7	338
38	Protease-activated receptor 1 knockout reduces experimentally induced liver fibrosis. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 294, G226-35	5.1	51
37	Analysis and monitoring of oxidative stress in exercise and training by FTIR spectrometry. <i>International Journal of Sports Physiology and Performance</i> , 2008 , 3, 119-30	3.5	10
36	Bioimaging of cells and tissues using accelerator-based sources. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 1599-608	4.4	36
35	FT-IR spectral imaging of blood vessels reveals protein secondary structure deviations induced by tumor growth. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 392, 129-35	4.4	25
34	Training-level induced changes in blood parameters response to on-water rowing races. <i>Journal of Sports Science and Medicine</i> , 2008 , 7, 425-30	2.7	5
33	Acute L-glutamine deprivation compromises VEGF-a upregulation in A549/8 human carcinoma cells. <i>Journal of Cellular Physiology</i> , 2007 , 212, 463-72	7	45
32	Histological mapping of biochemical changes in solid tumors by FT-IR spectral imaging. <i>FEBS Letters</i> , 2007 , 581, 5469-74	3.8	53
31	Analysis of type I and IV collagens by FT-IR spectroscopy and imaging for a molecular investigation of skeletal muscle connective tissue. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 1961-6	4.4	110
30	Chemical mapping of tumor progression by FT-IR imaging: towards molecular histopathology. <i>Trends in Biotechnology</i> , 2006 , 24, 455-62	15.1	220
29	Analytical performances of FT-IR spectrometry and imaging for concentration measurements within biological fluids, cells, and tissues. <i>Analyst, The</i> , 2006 , 131, 640-7	5	70
28	Evidence that erythrocytes are highly susceptible to exercise oxidative stress: FT-IR spectrometric studies at the molecular level. <i>Cell Biology International</i> , 2005 , 29, 709-16	4.5	48
27	Erythrocyte adaptation to oxidative stress in endurance training. <i>Archives of Medical Research</i> , 2005 , 36, 524-31	6.6	28

26	FT-IR spectrometry analysis of plasma fatty acyl moieties selective mobilization during endurance exercise. <i>Biopolymers</i> , 2005 , 77, 345-53	2.2	5
25	Lipid profile disorders induced by long-term cessation of physical activity in previously highly endurance-trained subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 3377-84	5.6	37
24	Alterations of lipid profile in endurance over-trained subjects. <i>Archives of Medical Research</i> , 2004 , 35, 532-9	6.6	5
23	Determination of stress-induced changes in plasma molecular species by two-dimensional correlation Fourier transform infrared spectrometry. <i>Biopolymers</i> , 2004 , 73, 696-704	2.2	2
22	Oxidative stress effects on erythrocytes determined by FT-IR spectrometry. <i>Analyst, The</i> , 2004 , 129, 912-5	3.6	45
21	Effects of short- and long-term detraining on the metabolic response to endurance exercise. <i>International Journal of Sports Medicine</i> , 2003 , 24, 320-5	3.6	11
20	The biological and metabolic adaptations to 12 months training in elite rowers. <i>International Journal of Sports Medicine</i> , 2003 , 24, 36-42	3.6	20
19	Fourier-transform infrared spectrometry determination of the metabolic changes during a maximal 400-meter swimming test. <i>International Journal of Sports Medicine</i> , 2003 , 24, 313-9	3.6	2
18	2D-FT-IR spectrometry: a new tool for the analysis of stress-induced plasma content changes. <i>Vibrational Spectroscopy</i> , 2003 , 32, 117-128	2.1	4
17	Applications of FT-IR spectrometry to plasma contents analysis and monitoring. <i>Vibrational Spectroscopy</i> , 2003 , 32, 129-136	2.1	69
16	Stress-induced plasma volume change determined using plasma FT-IR spectra. <i>Applied Spectroscopy</i> , 2003 , 57, 396-9	3.1	10
15	Adaptations métaboliques à l'entraînement en début de saison de natation. Différences en fonction du sexe. <i>Science and Sports</i> , 2003 , 18, 16-19	0.8	
14	Biochemical aspects of overtraining in endurance sports : the metabolism alteration process syndrome. <i>Sports Medicine</i> , 2003 , 33, 83-94	10.6	45
13	Discriminant serum biochemical parameters in top class marathon performances. <i>The Japanese Journal of Physiology</i> , 2002 , 52, 181-90		7
12	Triglycerides and Glycerol Concentration Determinations Using Plasma FT-IR Spectra. <i>Applied Spectroscopy</i> , 2002 , 56, 10-16	3.1	28
11	Application of FT-IR Spectrometry to Determine the Global Metabolic Adaptations to Physical Conditioning in Sportsmen. <i>Applied Spectroscopy</i> , 2002 , 56, 1259-1267	3.1	13
10	Biochemical aspects of overtraining in endurance sports: a review. <i>Sports Medicine</i> , 2002 , 32, 867-78	10.6	64
9	Differentiation of populations with different physiologic profiles by plasma Fourier-transform infrared spectra classification. <i>Translational Research</i> , 2001 , 137, 184-90		24

8	Plasma Protein Contents Determined by Fourier-Transform Infrared Spectrometry. <i>Clinical Chemistry</i> , 2001 , 47, 730-738	5.5	102
7	FT-IR spectroscopy utilization to sportsmen fatigability evaluation and control. <i>Medicine and Science in Sports and Exercise</i> , 2000 , 32, 1803-8	1.2	19
6	Glucose and lactate concentration determination on single microsamples by Fourier-transform infrared spectroscopy. <i>Translational Research</i> , 2000 , 135, 210-5		66
5	Utilisations du spectre IR-TF du sfum pour la prvention du surentraînement. <i>Science and Sports</i> , 2000 , 15, 267-270	0.8	
4	Nouvelles perspectives pour le suivi biologique des sportifs 1. L'analyse mtabolique par spectromtrie IR-TF. <i>Science and Sports</i> , 2000 , 15, 95-97	0.8	2
3	Nouvelles perspectives pour le suivi biologique des sportifs 2. Prvention du surentraînement par spectromtrie IR-TF. <i>Science and Sports</i> , 2000 , 15, 98-100	0.8	3
2	Perspectives in the utilisation of Fourier-transform infrared spectroscopy of serum in sports medicine: health monitoring of athletes and prevention of doping. <i>Sports Medicine</i> , 2000 , 29, 387-96	10.6	14
1	Determination of Glucose in Dried Serum Samples by Fourier-Transform Infrared Spectroscopy. <i>Clinical Chemistry</i> , 1999 , 45, 1530-1535	5.5	104