

Cyril Petibois

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.

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 | 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 |
| 78 | Collagen types analysis and differentiation by FTIR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 829-37 | 4.4 | 286 |
| 77 | Chemical mapping of tumor progression by FT-IR imaging: towards molecular histopathology. <i>Trends in Biotechnology</i> , 2006 , 24, 455-62 | 15.1 | 220 |
| 76 | A bright future for synchrotron imaging. <i>Nature Photonics</i> , 2009 , 3, 179-179 | 33.9 | 127 |
| 75 | 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 |
| 74 | Determination of Glucose in Dried Serum Samples by Fourier-Transform Infrared Spectroscopy. <i>Clinical Chemistry</i> , 1999 , 45, 1530-1535 | 5.5 | 104 |
| 73 | Plasma Protein Contents Determined by Fourier-Transform Infrared Spectrometry. <i>Clinical Chemistry</i> , 2001 , 47, 730-738 | 5.5 | 102 |
| 72 | 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 |
| 71 | Applications of FT-IR spectrometry to plasma contents analysis and monitoring. <i>Vibrational Spectroscopy</i> , 2003 , 32, 129-136 | 2.1 | 69 |
| 70 | Glucose and lactate concentration determination on single microsamples by Fourier-transform infrared spectroscopy. <i>Translational Research</i> , 2000 , 135, 210-5 | | 66 |
| 69 | Biochemical aspects of overtraining in endurance sports: a review. <i>Sports Medicine</i> , 2002 , 32, 867-78 | 10.6 | 64 |
| 68 | Biological applications of synchrotron radiation infrared spectromicroscopy. <i>Biotechnology Advances</i> , 2012 , 30, 1390-404 | 17.8 | 58 |
| 67 | Clinical application of FTIR imaging: new reasons for hope. <i>Trends in Biotechnology</i> , 2010 , 28, 495-500 | 15.1 | 58 |
| 66 | 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 |
| 65 | Histological mapping of biochemical changes in solid tumors by FT-IR spectral imaging. <i>FEBS Letters</i> , 2007 , 581, 5469-74 | 3.8 | 53 |
| 64 | 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 |
| 63 | 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 |

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| 62 | 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 |
| 61 | 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 |
| 60 | 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 |
| 59 | Oxidative stress effects on erythrocytes determined by FT-IR spectrometry. <i>Analyst, The</i> , 2004 , 129, 912-6 | 5 | 45 |
| 58 | Biochemical aspects of overtraining in endurance sports : the metabolism alteration process syndrome. <i>Sports Medicine</i> , 2003 , 33, 83-94 | 10.6 | 45 |
| 57 | FTIR spectro-imaging of collagens for characterization and grading of gliomas. <i>Biotechnology Advances</i> , 2012 , 30, 1432-46 | 17.8 | 42 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | Bioimaging of cells and tissues using accelerator-based sources. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 1599-608 | 4.4 | 36 |
| 52 | 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 |
| 51 | 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 |
| 50 | Erythrocyte adaptation to oxidative stress in endurance training. <i>Archives of Medical Research</i> , 2005 , 36, 524-31 | 6.6 | 28 |
| 49 | Triglycerides and Glycerol Concentration Determinations Using Plasma FT-IR Spectra. <i>Applied Spectroscopy</i> , 2002 , 56, 10-16 | 3.1 | 28 |
| 48 | 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 |
| 47 | Differentiation of populations with different physiologic profiles by plasma Fourier-transform infrared spectra classification. <i>Translational Research</i> , 2001 , 137, 184-90 | | 24 |
| 46 | Gold nanoparticles as multimodality imaging agents for brain gliomas. <i>Journal of Nanobiotechnology</i> , 2015 , 13, 85 | 9.4 | 23 |
| 45 | 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 |

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| 44 | Analytical characterization of cell-asbestos fiber interactions in lung pathogenesis. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 2079-89 | 4.4 | 23 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | Very small photoluminescent gold nanoparticles for multimodality biomedical imaging. <i>Biotechnology Advances</i> , 2013 , 31, 362-8 | 17.8 | 17 |
| 38 | Functional histology of glioma vasculature by FTIR imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 795-801 | 4.4 | 14 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | Quantitative IR microscopy and spectromics open the way to 3D digital pathology. <i>Journal of Biophotonics</i> , 2017 , 10, 598-606 | 3.1 | 11 |
| 32 | 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 |
| 31 | 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 |
| 30 | FTIR spectro-imaging of collagen scaffold formation during glioma tumor development. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 8729-36 | 4.4 | 10 |
| 29 | 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 |
| 28 | 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 |
| 27 | Stress-induced plasma volume change determined using plasma FT-IR spectra. <i>Applied Spectroscopy</i> , 2003 , 57, 396-9 | 3.1 | 10 |

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| 26 | 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 |
| 25 | 3D Quantitative Chemical Imaging of Tissues by Spectromics. <i>Trends in Biotechnology</i> , 2017 , 35, 1194-1207 | 7.1 | 9 |
| 24 | 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 |
| 23 | FTIR spectroscopy characterization of fatty-acyl-chain conjugates. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 319-26 | 4.4 | 8 |
| 22 | 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 |
| 21 | A synchrotron X-ray imaging strategy to map large animal brains. <i>Chinese Journal of Physics</i> , 2020 , 65, 24-32 | 3.5 | 7 |
| 20 | 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 |
| 19 | Discriminant serum biochemical parameters in top class marathon performances. <i>The Japanese Journal of Physiology</i> , 2002 , 52, 181-90 | | 7 |
| 18 | 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 |
| 17 | 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 |
| 16 | Alterations of lipid profile in endurance over-trained subjects. <i>Archives of Medical Research</i> , 2004 , 35, 532-9 | 6.6 | 5 |
| 15 | FT-IR spectrometry analysis of plasma fatty acyl moieties selective mobilization during endurance exercise. <i>Biopolymers</i> , 2005 , 77, 345-53 | 2.2 | 5 |
| 14 | 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 |
| 13 | 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 |
| 12 | 3D chemical imaging of the brain using quantitative IR spectro-microscopy. <i>Chemical Science</i> , 2018 , 9, 189-198 | 9.4 | 4 |
| 11 | 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 |
| 10 | 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 |
| 9 | Nouvelles perspectives pour le suivi biologique des sportifs 2. Prvention du surentraînement par spectrométrie IR-TF. <i>Science and Sports</i> , 2000 , 15, 98-100 | 0.8 | 3 |

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| 8 | 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 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |
| 4 | Methodology for FTIR Imaging of Individual Cells. <i>Acta Physica Polonica A</i> , 2016 , 129, 250-254 | 0.6 | 2 |
| 3 | 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 |
| 2 | Adaptations mtaboliques ¶ Entra¶nement en dbut de saison de natation. Diff¶rences en fonction du sexe. <i>Science and Sports</i> , 2003 , 18, 16-19 | 0.8 | |
| 1 | Utilisations du spectre IR-TF du sfum pour la pr¶vention du surentra¶nement. <i>Science and Sports</i> , 2000 , 15, 267-270 | 0.8 | |