

Keith R Bambery

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,918
citations

230014

27
h-index

299063

42
g-index

61
all docs

61
docs citations

61
times ranked

3193
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared Based Saliva Screening Test for COVID-19. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17102-17107.	7.2	42
2	Infrared Based Saliva Screening Test for COVID-19. <i>Angewandte Chemie</i> , 2021, 133, 17239-17244.	1.6	15
3	Mapping sub-cellular protein aggregates and lipid inclusions using synchrotron ATR-FTIR microspectroscopy. <i>Analyst</i> , 2021, 146, 3516-3525.	1.7	6
4	Thermal and in situ infrared analysis to characterise the slow pyrolysis of mixed municipal solid waste (MSW) and its components. <i>Renewable Energy</i> , 2020, 148, 388-401.	4.3	18
5	Investigation of molecular mechanisms of experimental compounds in murine models of chronic allergic airways disease using synchrotron Fourier-transform infrared microspectroscopy. <i>Scientific Reports</i> , 2020, 10, 11713.	1.6	2
6	Investigation of potential anti-pneumococcal effects of l-sulforaphane and metabolites: Insights from synchrotron-FTIR microspectroscopy and molecular docking studies. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 97, 107568.	1.3	4
7	Increased autophagy in EphrinB2-deficient osteocytes is associated with elevated secondary mineralization and brittle bone. <i>Nature Communications</i> , 2019, 10, 3436.	5.8	48
8	Chemical imaging of a <i>Symbiodinium</i> sp. cell using synchrotron infrared microspectroscopy: a feasibility study. <i>Journal of Microscopy</i> , 2018, 270, 83-91.	0.8	1
9	Opportunistic dose amplification for proton and carbon ion therapy via capture of internally generated thermal neutrons. <i>Scientific Reports</i> , 2018, 8, 16257.	1.6	26
10	Focal plane array IR imaging at the Australian Synchrotron. <i>Infrared Physics and Technology</i> , 2018, 94, 85-90.	1.3	11
11	Olivine xenocryst diffusion reveals rapid monogenetic basaltic magma ascent following complex storage at Pupuke Maar, Auckland Volcanic Field, New Zealand. <i>Earth and Planetary Science Letters</i> , 2018, 499, 13-22.	1.8	41
12	Differing Effects of Parathyroid Hormone, Alendronate, and Odanacatib on Bone Formation and on the Mineralization Process in Intracortical and Endocortical Bone of Ovariectomized Rabbits. <i>Calcified Tissue International</i> , 2018, 103, 625-637.	1.5	13
13	Probing the action of a novel anti-leukaemic drug therapy at the single cell level using modern vibrational spectroscopy techniques. <i>Scientific Reports</i> , 2017, 7, 2649.	1.6	28
14	The effect of thermally induced chemical transformations on the structure and properties of carbon fibre precursors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7372-7382.	5.2	40
15	Investigation of functional group changes in biomass during slow pyrolysis using synchrotron based infra-red microspectroscopy and thermogravimetry-infra-red spectroscopy. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 127, 394-401.	2.6	28
16	The study of efficiency of endogenous and exogenous preventive methods of tooth enamel remineralisation by FTIR microscopy using synchrotron radiation. <i>Journal of Physics: Conference Series</i> , 2016, 741, 012054.	0.3	1
17	Evidence of biogeochemical processes in iron duricrust formation. <i>Journal of South American Earth Sciences</i> , 2016, 71, 131-142.	0.6	39
18	The investigations of changes in mineral-organic and carbon-phosphate ratios in the mixed saliva by synchrotron infrared spectroscopy. <i>Results in Physics</i> , 2016, 6, 315-321.	2.0	21

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19	Anabolic action of parathyroid hormone (PTH) does not compromise bone matrix mineral composition or maturation. <i>Bone</i> , 2016, 93, 146-154.	1.4	25
20	Attenuated Total Reflection FTIR Microspectroscopy at the Australian Synchrotron. , 2016, , .		3
21	Importance of Tissue Preparation Methods in FTIR Micro-Spectroscopical Analysis of Biological Tissues: "Traps for New Users"™. <i>PLoS ONE</i> , 2015, 10, e0116491.	1.1	102
22	Bio-sensing with butterfly wings: naturally occurring nano-structures for SERS-based malaria parasite detection. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21164-21168.	1.3	57
23	SR-FTIR Coupled with Principal Component Analysis Shows Evidence for the Cellular Bystander Effect. <i>Radiation Research</i> , 2015, 184, 73-82.	0.7	13
24	Detection of an <i>en masse</i> and reversible B- to A-DNA conformational transition in prokaryotes in response to desiccation. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140454.	1.5	57
25	The Pathogen <i>Candida albicans</i> Hijacks Pyroptosis for Escape from Macrophages. <i>MBio</i> , 2014, 5, e00003-14.	1.8	181
26	FTIR Imaging of Tissues: Techniques and Methods of Analysis. Challenges and Advances in Computational Chemistry and Physics, 2014, , 419-473.	0.6	28
27	Synchrotron FTIR shows evidence of DNA damage and lipid accumulation in prostate adenocarcinoma PC-3 cells following proton irradiation. <i>Journal of Molecular Structure</i> , 2014, 1073, 134-141.	1.8	35
28	Diagnosing malaria infected cells at the single cell level using focal plane array Fourier transform infrared imaging spectroscopy. <i>Analyst, The</i> , 2014, 139, 4769-4774.	1.7	30
29	Monitoring UVR induced damage in single cells and isolated nuclei using SR-FTIR microspectroscopy and 3D confocal Raman imaging. <i>Analyst, The</i> , 2014, 139, 4200-4209.	1.7	28
30	Discrimination of micromass-induced chondrocytes from human mesenchymal stem cells by focal plane array-Fourier transform infrared microspectroscopy. <i>Talanta</i> , 2014, 130, 39-48.	2.9	8
31	Monitoring the Conformation and Concentration of DNA in Live Cells using Fourier Transform Infrared Spectroscopy. <i>Biophysical Journal</i> , 2014, 106, 206a.	0.2	0
32	Quantification of DNA in simple eukaryotic cells using Fourier transform infrared spectroscopy. <i>Journal of Biophotonics</i> , 2013, 6, 775-784.	1.1	21
33	Evidence of altered biochemical composition in the hearts of adult intrauterine growth-restricted rats. <i>European Journal of Nutrition</i> , 2013, 52, 749-758.	1.8	13
34	Synchrotron Fourier transform infrared (FTIR) analysis of single living cells progressing through the cell cycle. <i>Analyst, The</i> , 2013, 138, 3891.	1.7	55
35	Instrumentation upgrade for Top-Up operations at the Australian Synchrotron. <i>Journal of Physics: Conference Series</i> , 2013, 425, 042015.	0.3	2
36	Infrared Beamline Data Analysis Workshop on Resonant Mie Scattering Correction. <i>Synchrotron Radiation News</i> , 2012, 25, 43-44.	0.2	0

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37	Resonant Mie scattering (RMieS) correction applied to FTIR images of biological tissue samples. <i>Analyst, The</i> , 2012, 137, 126-132.	1.7	53
38	Monitoring the reversible B to A-like transition of DNA in eukaryotic cells using Fourier transform infrared spectroscopy. <i>Nucleic Acids Research</i> , 2011, 39, 5439-5448.	6.5	191
39	Evidence of Altered Biochemical Composition in the Myocardium of Adult Intrauterine Growth Restricted Offspring using FTIR Micro-Spectroscopy: Implications for the Programming of Heart Disease. <i>Pediatric Research</i> , 2011, 70, 291-291.	1.1	0
40	Synchrotron radiation infrared microspectroscopy of arsenic-induced changes to intracellular biomolecules in live leukemia cells. <i>Vibrational Spectroscopy</i> , 2010, 53, 39-44.	1.2	38
41	FTIR spectroscopy of single live cells in aqueous media by synchrotron IR microscopy using microfabricated sample holders. <i>Vibrational Spectroscopy</i> , 2010, 53, 34-38.	1.2	98
42	Supramolecular Interactions Playing an Integral Role in the Near-Infrared Raman "Excitonic" Enhancement Observed in β -Hematin (Malaria Pigment) and Other Related Heme Derivatives. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12104-12115.	1.2	17
43	Correlation of atomic force microscopy and Raman micro-spectroscopy to study the effects of ex vivo treatment procedures on human red blood cells. <i>Analyst, The</i> , 2010, 135, 525.	1.7	36
44	A resonance Raman spectroscopic investigation into the effects of fixation and dehydration on heme environment of hemoglobin. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1668-1674.	1.2	55
45	Discriminating the Intraerythrocytic Lifecycle Stages of the Malaria Parasite Using Synchrotron FT-IR Microspectroscopy and an Artificial Neural Network. <i>Analytical Chemistry</i> , 2009, 81, 2516-2524.	3.2	42
46	Resonance Raman microscopy in combination with partial dark-field microscopy lights up a new path in malaria diagnostics. <i>Analyst, The</i> , 2009, 134, 1119.	1.7	59
47	Fourier transform infrared imaging and small angle x-ray scattering as a combined biomolecular approach to diagnosis of breast cancer. <i>Medical Physics</i> , 2008, 35, 2151-2161.	1.6	33
48	Long-Term Changes in the Periods of SX Phe. <i>Publications of the Astronomical Society of Australia</i> , 2007, 24, 41-45.	1.3	1
49	A Fourier transform infrared microspectroscopic imaging investigation into an animal model exhibiting glioblastoma multiforme. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 900-907.	1.4	50
50	A three-dimensional multivariate image processing technique for the analysis of FTIR spectroscopic images of multiple tissue sections. <i>BMC Medical Imaging</i> , 2006, 6, 12.	1.4	50
51	Infrared imaging of normal and diseased cervical tissue sections. , 2005, , .		6
52	Fourier Transform Infrared Imaging and Unsupervised Hierarchical Clustering Applied to Cervical Biopsies. <i>Australian Journal of Chemistry</i> , 2004, 57, 1139.	0.5	26
53	Space charge profiles in low density polyethylene samples containing a permittivity/conductivity gradient. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 3071-3077.	1.3	38
54	Space charge accumulation in two power cable grades of XLPE. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 1998, 5, 103-109.	1.8	41

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55	Space charge and steady state current in LDPE samples containing a permittivity/conductivity gradient. , 0, , .		2
56	3-D Imaging of Biomedical Samples. , 0, , 203-221.		2