

Rene Beattie

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,393
citations

361413

20
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

1551
citing authors

#	ARTICLE	IF	CITATIONS
1	Preliminary investigation of the application of Raman spectroscopy to the prediction of the sensory quality of beef silverside. <i>Meat Science</i> , 2004, 66, 903-913.	5.5	117
2	A critical evaluation of Raman spectroscopy for the analysis of lipids: Fatty acid methyl esters. <i>Lipids</i> , 2004, 39, 407-419.	1.7	114
3	Exploration of Principal Component Analysis: Deriving Principal Component Analysis Visually Using Spectra. <i>Applied Spectroscopy</i> , 2021, 75, 361-375.	2.2	108
4	Confocal Raman microscopy can quantify advanced glycation end product (AGE) modifications in Bruch's membrane leading to accurate, nondestructive prediction of ocular aging. <i>FASEB Journal</i> , 2007, 21, 3542-3552.	0.5	107
5	Raman Microscopy for the Chemometric Analysis of Tumor Cells. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19625-19631.	2.6	100
6	Prediction of adipose tissue composition using raman spectroscopy: Average properties and individual fatty acids. <i>Lipids</i> , 2006, 41, 287-294.	1.7	92
7	Development of sampling methods for Raman analysis of solid dosage forms of therapeutic and illicit drugs. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 409-417.	2.5	81
8	Multivariate prediction of clarified butter composition using raman spectroscopy. <i>Lipids</i> , 2004, 39, 897-906.	1.7	54
9	Multiplex analysis of age-related protein and lipid modifications in human Bruch's membrane. <i>FASEB Journal</i> , 2010, 24, 4816-4824.	0.5	54
10	Classification of Adipose Tissue Species using Raman Spectroscopy. <i>Lipids</i> , 2007, 42, 679-685.	1.7	52
11	The use of Raman microscopy to determine and localize vitamin E in biological samples. <i>FASEB Journal</i> , 2007, 21, 766-776.	0.5	48
12	Preliminary investigations on the effects of ageing and cooking on the Raman spectra of porcine longissimus dorsi. <i>Meat Science</i> , 2008, 80, 1205-1211.	5.5	41
13	Raman microscopy in the diagnosis and prognosis of surgically resected nonsmall cell lung cancer. <i>Journal of Biomedical Optics</i> , 2010, 15, 026015.	2.6	40
14	Quantification of calcium in infant formula using laser-induced breakdown spectroscopy (LIBS), Fourier transform mid-infrared (FT-IR) and Raman spectroscopy combined with chemometrics including data fusion. <i>Food Chemistry</i> , 2020, 320, 126639.	8.2	38
15	Effect of signal intensity normalization on the multivariate analysis of spectral data in complex real-world datasets. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 429-435.	2.5	36
16	Conformations, vibrational frequencies and Raman intensities of short-chain fatty acid methyl esters using DFT with 6-31G(d) and Sadlej pVTZ basis sets. <i>Computational and Theoretical Chemistry</i> , 2002, 586, 91-110.	1.5	33
17	Sclera as a Surrogate Marker for Determining AGE-Modifications in Bruch's Membrane Using a Raman Spectroscopy-Based Index of Aging. <i>Journal of Raman Spectroscopy</i> , 2011, 52, 1593.		26
18	Raman spectroscopy predicts the link between claw keratin and bone collagen structure in a rodent model of oestrogen deficiency. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 398-406.	3.8	26

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19	Raman spectroscopy of advanced glycation end products (AGEs), possible markers for progressive retinal dysfunction. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 1635-1642.	2.5	25
20	<i>Advanced Glycation as a Basis for Understanding Retinal Aging and Noninvasive Risk Prediction</i>. <i>Annals of the New York Academy of Sciences</i> , 2008, 1126, 59-65.	3.8	24
21	DFT studies of long-chain FAMES: theoretical justification for determining chain length and unsaturation from experimental Raman spectra. <i>Computational and Theoretical Chemistry</i> , 2003, 626, 27-45.	1.5	22
22	Optimising reproducibility in low quality signals without smoothing; an alternative paradigm for signal processing. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1419-1427.	2.5	20
23	Investigation into the subambient behavior of aqueous mannitol solutions using temperature-controlled Raman microscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007, 67, 569-578.	4.3	19
24	Estimation of signal backgrounds on multivariate loadings improves model generation in face of complex variation in backgrounds and constituents. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 329-338.	2.5	18
25	Prediction of naturally-occurring, industrially-induced and total trans fatty acids in butter, dairy spreads and Cheddar cheese using vibrational spectroscopy and multivariate data analysis. <i>International Dairy Journal</i> , 2015, 51, 41-51.	3.0	18
26	Raman microscopy of porcine inner retinal layers from the area centralis. <i>Molecular Vision</i> , 2007, 13, 1106-13.	1.1	13
27	Effect of excitation wavelength on the Raman spectroscopy of the porcine photoreceptor layer from the area centralis. <i>Molecular Vision</i> , 2005, 11, 825-32.	1.1	13
28	Raman spectral variation for human fingernails of postmenopausal women is dependent on fracture risk and osteoporosis status. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 813-821.	2.5	11
29	Profiling Retinal Biochemistry in the MPDZ Mutant Retinal Dysplasia and Degeneration Chick: A Model of Human RP and LCA. , 2012, 53, 413.		9
30	Raman Spectroscopy for the Detection of AGEs/ALEs. <i>Methods in Molecular Biology</i> , 2013, 965, 297-312.	0.9	8
31	Identifying the Spatial Distribution of Vitamin E, Pulmonary Surfactant and Membrane Lipids in Cells and Tissue by Confocal Raman Microscopy. <i>Methods in Molecular Biology</i> , 2009, 579, 513-535.	0.9	8
32	Raman spectroscopy as a predictive tool for monitoring osteoporosis therapy in a rat model of postmenopausal osteoporosis. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 25.	3.6	6
33	Multivariate Analysis for the Processing of Signals. <i>Oil and Gas Science and Technology</i> , 2014, 69, 207-228.	1.4	5
34	A Preliminary Evaluation of the Ability of Keratotic Tissue to Act as a Prognostic Indicator of Hip Fracture Risk. <i>Clinical Medicine Insights: Arthritis and Musculoskeletal Disorders</i> , 2018, 11, 117954411775405.	1.2	3
35	Reflections of the realâ€world in the unreal, using simulation to design complex realâ€world validation studies for spectroscopy. <i>Journal of Raman Spectroscopy</i> , 0, , .	2.5	2
36	Multiplex analysis of ageâ€related protein and lipid modifications in human Bruch's membrane. <i>FASEB Journal</i> , 2010, 24, 4816-4824.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Raman Microscopy : A Versatile Approach to Bio-Imaging. Springer Series in Optical Sciences, 2012, , 219-242.	0.7	1