

Gavin R Lloyd

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,673
citations

304602

22
h-index

189801

50
g-index

62
all docs

62
docs citations

62
times ranked

3819
citing authors

#	ARTICLE	IF	CITATIONS
1	The application of Raman spectroscopy to the diagnosis of mitochondrial muscle disease: A preliminary comparison between fibre optic probe and microscope formats. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 172-181.	1.2	5
2	Rapid identification of human muscle disease with fibre optic Raman spectroscopy. <i>Analyst</i> , The, 2022, 147, 2533-2540.	1.7	9
3	<i>In Vivo</i> Fiber Optic Raman Spectroscopy of Muscle in Preclinical Models of Amyotrophic Lateral Sclerosis and Duchenne Muscular Dystrophy. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1768-1776.	1.7	12
4	An Extensive Metabolomics Workflow to Discover Cardiotoxin-Induced Molecular Perturbations in Microtissues. <i>Metabolites</i> , 2021, 11, 644.	1.3	2
5	Metabolic engineering against the arginine microenvironment enhances CAR-T cell proliferation and therapeutic activity. <i>Blood</i> , 2020, 136, 1155-1160.	0.6	84
6	Characterization of colorectal mucus using infrared spectroscopy: a potential target for bowel cancer screening and diagnosis. <i>Laboratory Investigation</i> , 2020, 100, 1102-1110.	1.7	10
7	An update on the use of Raman spectroscopy in molecular cancer diagnostics: current challenges and further prospects. <i>Expert Review of Molecular Diagnostics</i> , 2018, 18, 245-258.	1.5	18
8	Mid-IR hyperspectral imaging for label-free histopathology and cytology. <i>Journal of Optics (United Kingdom)</i> , 2018, 19, 1102-1110.	1.0	96
9	Automated cytological detection of Barrett's neoplasia with infrared spectroscopy. <i>Journal of Gastroenterology</i> , 2018, 53, 227-235.	2.3	10
10	Developing Raman spectroscopy as a diagnostic tool for label-free antigen detection. <i>Journal of Biophotonics</i> , 2018, 11, e201700028.	1.1	4
11	Partial least squares discriminant analysis for chemometrics and metabolomics: how scores, loadings, and weights differ according to two common algorithms. <i>Journal of Chemometrics</i> , 2018, 32, e3028.	0.7	16
12	Discrimination of skin cancer cells using Fourier transform infrared spectroscopy. <i>Computers in Biology and Medicine</i> , 2018, 100, 50-61.	3.9	10
13	Mid-infrared multispectral tissue imaging using a chalcogenide fiber supercontinuum source. <i>Optics Letters</i> , 2018, 43, 999.	1.7	150
14	Performance of mid infrared spectroscopy in skin cancer cell type identification. , 2017, , .		3
15	Capnography for procedural sedation in the ED: a systematic review. <i>Emergency Medicine Journal</i> , 2017, 34, 476-484.	0.4	16
16	Multimodal registration of optical microscopic and infrared spectroscopic images from different tissue sections: An application to colon cancer. , 2017, 68, 1-15.		13
17	Improved emergency department patient care via rapid assessment and triage. <i>British Journal of Hospital Medicine (London, England: 2005)</i> , 2017, 78, 246-246.	0.2	1
18	Mirrored stainless steel substrate provides improved signal for Raman spectroscopy of tissue and cells. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 119-125.	1.2	31

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19	Mid-infrared spectroscopy in skin cancer cell type identification. Proceedings of SPIE, 2017, , .	0.8	1
20	Developments in optical imaging for gastrointestinal surgery. Future Oncology, 2017, 13, 2363-2382.	1.1	6
21	Raman spectroscopy and multivariate analysis for the non invasive diagnosis of clinically inconclusive vulval lichen sclerosus. Analyst, The, 2017, 142, 1200-1206.	1.7	14
22	Enhanced spectral histology in the colon using high-magnification benchtop FTIR imaging. Vibrational Spectroscopy, 2017, 91, 83-91.	1.2	24
23	Rapid infrared mapping for highly accurate automated histology in Barrett's oesophagus. Analyst, The, 2017, 142, 1227-1234.	1.7	22
24	Re-evaluating the role of the Mahalanobis distance measure. Journal of Chemometrics, 2016, 30, 134-143.	0.7	30
25	Multivariate classification of fourier transform infrared hyperspectral images of skin cancer cells. , 2016, , .		3
26	Identification of cancer associated molecular changes in histologically benign vulval disease found in association with vulval squamous cell carcinoma using Fourier transform infrared spectroscopy. Analytical Methods, 2016, 8, 8452-8460.	1.3	6
27	Single cell analysis/data handling: general discussion. Faraday Discussions, 2016, 187, 299-327.	1.6	4
28	Clinical Spectroscopy: general discussion. Faraday Discussions, 2016, 187, 429-460.	1.6	6
29	High-resolution FTIR imaging of colon tissues for elucidation of individual cellular and histopathological features. Analyst, The, 2016, 141, 630-639.	1.7	44
30	Evaluation of a multi-fibre needle Raman probe for tissue analysis. , 2016, , .		1
31	Identification of GI cancers utilising rapid mid-infrared spectral imaging. Proceedings of SPIE, 2016, , .	0.8	4
32	The road map towards providing a robust Raman spectroscopy-based cancer diagnostic platform and integration into clinic. Proceedings of SPIE, 2016, , .	0.8	2
33	A two-step framework for the registration of HE stained and FTIR images. , 2016, , .		1
34	Towards the mid-infrared optical biopsy. Proceedings of SPIE, 2016, , .	0.8	6
35	Potential of mid IR spectroscopy in the rapid label free identification of skin malignancies. , 2016, , .		2
36	Multi-centre Raman spectral mapping of oesophageal cancer tissues: a study to assess system transferability. Faraday Discussions, 2016, 187, 87-103.	1.6	14

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37	Method for Identification of Spectral Targets in Discrete Frequency Infrared Spectroscopy for Clinical Diagnostics. <i>Applied Spectroscopy</i> , 2015, 69, 1066-1073.	1.2	17
38	Resuscitation Council (UK) basic and advanced life support guidelines 2015. <i>British Journal of Hospital Medicine</i> (London, England: 2005), 2015, 76, 678-680.	0.2	4
39	Evaluation of different tissue de-paraffinization procedures for infrared spectral imaging. <i>Analyst, The</i> , 2015, 140, 2369-2375.	1.7	26
40	Infrared micro-spectroscopy for cyto-pathological classification of esophageal cells. <i>Analyst, The</i> , 2015, 140, 2215-2223.	1.7	17
41	Improving communication and recording cardiopulmonary resuscitation decisions. <i>British Journal of Hospital Medicine</i> (London, England: 2005), 2015, 76, 256-257.	0.2	1
42	Evaluation of a confocal Raman probe for pathological diagnosis during colonoscopy. <i>Colorectal Disease</i> , 2014, 16, 732-738.	0.7	27
43	Endoscopic Raman spectroscopy enables objective diagnosis of dysplasia in Barrett's esophagus. <i>Gastrointestinal Endoscopy</i> , 2014, 79, 37-45.	0.5	100
44	Partial least squares discriminant analysis: taking the magic away. <i>Journal of Chemometrics</i> , 2014, 28, 213-225.	0.7	577
45	Vibrational spectroscopy for cancer diagnostics. <i>Analytical Methods</i> , 2014, 6, 3901.	1.3	64
46	Utilising non-consensus pathology measurements to improve the diagnosis of oesophageal cancer using a Raman spectroscopic probe. <i>Analyst, The</i> , 2014, 139, 381-388.	1.7	18
47	Real-time disease detection using spectroscopic diagnosis. <i>Biomedical Spectroscopy and Imaging</i> , 2014, 3, 197-202.	1.2	4
48	Discrimination between benign, primary and secondary malignancies in lymph nodes from the head and neck utilising Raman spectroscopy and multivariate analysis. <i>Analyst, The</i> , 2013, 138, 3900.	1.7	68
49	Assessment of a custom-built Raman spectroscopic probe for diagnosis of early oesophageal neoplasia. <i>Journal of Biomedical Optics</i> , 2012, 17, 0814211.	1.4	33
50	Histological imaging of a human colon polyp sample using Raman spectroscopy and self organising maps. <i>Vibrational Spectroscopy</i> , 2012, 60, 43-49.	1.2	20
51	Surface enhanced spatially offset Raman spectroscopic (SESORS) imaging – the next dimension. <i>Chemical Science</i> , 2011, 2, 776.	3.7	163
52	Support Vector Machines for classification and regression. <i>Analyst, The</i> , 2010, 135, 230-267.	1.7	605
53	Supervised Self Organizing Maps for Classification and Determination of Potentially Discriminatory Variables: Illustrated by Application to Nuclear Magnetic Resonance Metabolomic Profiling. <i>Analytical Chemistry</i> , 2010, 82, 628-638.	3.2	52
54	One class classifiers for process monitoring illustrated by the application to online HPLC of a continuous process. <i>Journal of Chemometrics</i> , 2010, 24, 96-110.	0.7	31

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55	Disjoint hard models for classification. <i>Journal of Chemometrics</i> , 2010, 24, 273-287.	0.7	3
56	Monte-Carlo methods for determining optimal number of significant variables. Application to mouse urinary profiles. <i>Metabolomics</i> , 2009, 5, 387-406.	1.4	22
57	Self Organising Maps for variable selection: Application to human saliva analysed by nuclear magnetic resonance spectroscopy to investigate the effect of an oral healthcare product. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 98, 149-161.	1.8	36
58	Pattern recognition of Inductively Coupled Plasma Atomic Emission Spectroscopy of human scalp hair for discriminating between healthy and Hepatitis C patients. <i>Analytica Chimica Acta</i> , 2009, 649, 33-42.	2.6	29
59	Self Organising Maps for distinguishing polymer groups using thermal response curves obtained by dynamic mechanical analysis. <i>Analyst</i> , 2008, 133, 1046.	1.7	38
60	Learning Vector Quantization for Multiclass Classification: Application to Characterization of Plastics. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 1553-1563.	2.5	32
61	Factors influencing the contamination of UK banknotes with drugs of abuse. <i>Forensic Science International</i> , 2007, 171, 165-170.	1.3	23