Gavin R Lloyd

List of Publications by Year
in descending order

61	2,673	304368	189595
papers	citations	22 h-index	50 g-index

62	62	62	3819
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Support Vector Machines for classification and regression. Analyst, The, 2010, 135, 230-267.	1.7	605
2	Partial least squares discriminant analysis: taking the magic away. Journal of Chemometrics, 2014, 28, 213-225.	0.7	577
3	Surface enhanced spatially offset Raman spectroscopic (SESORS) imaging â€“ the next dimension. Chemical Science, 2011, 2, 776.	3.7	163
4	Mid-infrared multispectral tissue imaging using a chalcogenide fiber supercontinuum source. Optics Letters, 2018, 43, 999.	1.7	150
5	Endoscopic Raman spectroscopy enables objective diagnosis ofÂdysplasia in Barrett's esophagus. Gastrointestinal Endoscopy, 2014, 79, 37-45.	0.5	100
6	Metabolic engineering against the arginine microenvironment enhances CAR-T cell proliferation and therapeutic activity. Blood, 2020, 136, 1155-1160.	0.6	84
7	Mid-IR hyperspectral imaging for label-free histopathology and cytology. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overlo	1.0	76
8	Discrimination between benign, primary and secondary malignancies in lymph nodes from the head and neck utilising Raman spectroscopy and multivariate analysis. Analyst, The, 2013, 138, 3900.	1.7	68
9	Vibrational spectroscopy for cancer diagnostics. Analytical Methods, 2014, 6, 3901.	1.3	64
10	Supervised Self Organizing Maps for Classification and Determination of Potentially Discriminatory Variables: Illustrated by Application to Nuclear Magnetic Resonance Metabolomic Profiling. Analytical Chemistry, 2010, 82, 628-638.	3.2	52
11	High-resolution FTIR imaging of colon tissues for elucidation of individual cellular and histopathological features. Analyst, The, 2016, 141, 630-639.	1.7	44
12	Self Organising Maps for distinguishing polymer groups using thermal response curves obtained by dynamic mechanical analysis. Analyst, The, 2008, 133, 1046.	1.7	38
13	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. Chemometrics and Intelligent Laboratory Systems, 2009, 98, 149-161.	1.8	36
14	Assessment of a custom-built Raman spectroscopic probe for diagnosis of early oesophageal neoplasia. Journal of Biomedical Optics, 2012, 17, 0814211.	1.4	33
15	Learning Vector Quantization for Multiclass Classification:â€‰Application to Characterization of Plastics. Journal of Chemical Information and Modeling, 2007, 47, 1553-1563.	2.5	32
16	One class classifiers for process monitoring illustrated by the application to online HPLC of a continuous process. Journal of Chemometrics, 2010, 24, 96-110.	0.7	31
17	Mirrored stainless steel substrate provides improved signal for Raman spectroscopy of tissue and cells. Journal of Raman Spectroscopy, 2017, 48, 119-125.	1.2	31
18	Reâ€evaluating the role of the Mahalanobis distance measure. Journal of Chemometrics, 2016, 30, 134-143.	0.7	30

#	Article	IF	Citations
19	Pattern recognition of Inductively Coupled Plasma Atomic Emission Spectroscopy of human scalp hair for discriminating between healthy and Hepatitis C patients. Analytica Chimica Acta, 2009, 649, 33-42.	2.6	29
20	Evaluation of a confocal <scp>R</scp>aman probe for pathological diagnosis during colonoscopy. Colorectal Disease, 2014, 16, 732-738.	0.7	27
21	Evaluation of different tissue de-paraffinization procedures for infrared spectral imaging. Analyst, The, 2015, 140, 2369-2375.	1.7	26
22	Enhanced spectral histology in the colon using high-magnification benchtop FTIR imaging. Vibrational Spectroscopy, 2017, 91, 83-91.	1.2	24
23	Factors influencing the contamination of UK banknotes with drugs of abuse. Forensic Science International, 2007, 171, 165-170.	1.3	23
24	Monte-Carlo methods for determining optimal number of significant variables. Application to mouse urinary profiles. Metabolomics, 2009, 5, 387-406.	1.4	22
25	Rapid infrared mapping for highly accurate automated histology in Barrett's oesophagus. Analyst, The, 2017, 142, 1227-1234.	1.7	22
26	Histological imaging of a human colon polyp sample using Raman spectroscopy and self organising maps. Vibrational Spectroscopy, 2012, 60, 43-49.	1.2	20
27	Utilising non-consensus pathology measurements to improve the diagnosis of oesophageal cancer using a Raman spectroscopic probe. Analyst, The, 2014, 139, 381-388.	1.7	18
28	An update on the use of Raman spectroscopy in molecular cancer diagnostics: current challenges and further prospects. Expert Review of Molecular Diagnostics, 2018, 18, 245-258.	1.5	18
29	Method for Identification of Spectral Targets in Discrete Frequency Infrared Spectroscopy for Clinical Diagnostics. Applied Spectroscopy, 2015, 69, 1066-1073.	1.2	17
30	Infrared micro-spectroscopy for cyto-pathological classification of esophageal cells. Analyst, The, 2015, 140, 2215-2223.	1.7	17
31	Capnography for procedural sedation in the ED: a systematic review. Emergency Medicine Journal, 2017, 34, 476-484.	0.4	16
32	Partial least squares discriminant analysis for chemometrics and metabolomics: <scp>H</scp>ow scores, loadings, and weights differ according to two common algorithms. Journal of Chemometrics, 2018, 32, e3028.	0.7	16
33	Multi-centre Raman spectral mapping of oesophageal cancer tissues: a study to assess system transferability. Faraday Discussions, 2016, 187, 87-103.	1.6	14
34	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
35	Multimodal registration of optical microscopic and infrared spectroscopic images from different tissue sections: An application to colon cancer. , 2017, 68, 1-15.		13
36	In Vivo Fiber Optic Raman Spectroscopy of Muscle in Preclinical Models of Amyotrophic Lateral Sclerosis and Duchenne Muscular Dystrophy. ACS Chemical Neuroscience, 2021, 12, 1768-1776.	1.7	12

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37	Automated cytological detection of Barrettâ€™s neoplasia with infrared spectroscopy. Journal of Gastroenterology, 2018, 53, 227-235.	2.3	10
38	Discrimination of skin cancer cells using Fourier transform infrared spectroscopy. Computers in Biology and Medicine, 2018, 100, 50-61.	3.9	10
39	Characterization of colorectal mucus using infrared spectroscopy: a potential target for bowel cancer screening and diagnosis. Laboratory Investigation, 2020, 100, 1102-1110.	1.7	10
40	Rapid identification of human muscle disease with fibre optic Raman spectroscopy. Analyst, The, 2022, 147, 2533-2540.	1.7	9
41	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
42	Clinical Spectroscopy: general discussion. Faraday Discussions, 2016, 187, 429-460.	1.6	6
43	Towards the mid-infrared optical biopsy. Proceedings of SPIE, 2016, , .	0.8	6
44	Developments in optical imaging for gastrointestinal surgery. Future Oncology, 2017, 13, 2363-2382.	1.1	6
45	The application of Raman spectroscopy to the diagnosis of mitochondrial muscle disease: A preliminary comparison between fibre optic probe and microscope formats. Journal of Raman Spectroscopy, 2022, 53, 172-181.	1.2	5
46	Real-time disease detection using spectroscopic diagnosis. Biomedical Spectroscopy and Imaging, 2014, 3, 197-202.	1.2	4
47	Resuscitation Council (UK) basic and advanced life support guidelines 2015. British Journal of Hospital Medicine (London, England: 2005), 2015, 76, 678-680.	0.2	4
48	Single cell analysis/data handling: general discussion. Faraday Discussions, 2016, 187, 299-327.	1.6	4
49	Identification of GI cancers utilising rapid mid-infrared spectral imaging. Proceedings of SPIE, 2016, , .	0.8	4
50	Developing Raman spectroscopy as a diagnostic tool for labelâ€free antigen detection. Journal of Biophotonics, 2018, 11, e201700028.	1.1	4
51	Disjoint hard models for classification. Journal of Chemometrics, 2010, 24, 273-287.	0.7	3
52	Multivariate classification of fourier transform infrared hyperspectral images of skin cancer cells. , 2016, , .		3
53	Performance of mid infrared spectroscopy in skin cancer cell type identification. , 2017, , .		3
54	The road map towards providing a robust Raman spectroscopy-based cancer diagnostic platform and integration into clinic. Proceedings of SPIE, 2016, , .	0.8	2

#	Article	IF	Citations
55	Potential of mid IR spectroscopy in the rapid label free identification of skin malignancies. , 2016, , .		2
56	An Extensive Metabolomics Workflow to Discover Cardiotoxin-Induced Molecular Perturbations in Microtissues. Metabolites, 2021, 11, 644.	1.3	2
57	Improving communication and recording cardiopulmonary resuscitation decisions. British Journal of Hospital Medicine (London, England: 2005), 2015, 76, 256-257.	0.2	1
58	Evaluation of a multi-fibre needle Raman probe for tissue analysis. , 2016, , .		1
59	A two-step framework for the registration of HE stained and FTIR images. , 2016, , .		1
60	Improved emergency department patient care via rapid assessment and triage. British Journal of Hospital Medicine (London, England: 2005), 2017, 78, 246-246.	0.2	1
61	Mid-infrared spectroscopy in skin cancer cell type identification. Proceedings of SPIE, 2017, , .	0.8	1