Alex Henderson

List of Publications by Year
in descending order

41 papers	1,629 citations	331538 21 h-index	289141 40 g-index
41 all docs	41 docs citations	41 times ranked	1860 citing authors

#	Article	IF	Citations
1	Exploring AdaBoost and Random Forests machine learning approaches for infrared pathology on unbalanced data sets. Analyst, The, 2021, 146, 5880-5891.	1.7	20
2	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. Analyst, The, 2018, 143, 1735-1757.	1.7	163
3	Quantum Cascade Laser Spectral Histopathology: Breast Cancer Diagnostics Using High Throughput Chemical Imaging. Analytical Chemistry, 2017, 89, 7348-7355.	3.2	54
4	Infrared spectral histopathology using haematoxylin and eosin (H&E) stained glass slides: a major step forward towards clinical translation. Analyst, The, 2017, 142, 1258-1268.	1.7	38
5	FTIR imaging of the molecular burden around AÎ² deposits in an early-stage 3-Tg-APP-PSP1-TAU mouse model of Alzheimer's disease. Analyst, The, 2017, 142, 156-168.	1.7	19
6	Evaluation of biomolecular distributions in rat brain tissues by means of ToF-SIMS using a continuous beam of Ar clusters. Biointerphases, 2016, 11, 02A307.	0.6	5
7	High-throughput quantum cascade laser (QCL) spectral histopathology: a practical approach towards clinical translation. Faraday Discussions, 2016, 187, 135-154.	1.6	46
8	Mass spectrometric imaging of brain tissue by time-of-flight secondary ion mass spectrometry - How do polyatomic primary beams C₆₀⁺, Ar₂₀₀₀⁺, water-doped Ar₂₀₀₀⁺and (H₂O)₆₀₀₀⁺compare?. Rapid Communications in Mass Spectrometry, 2015, 29, 1851-1862.	0.7	23
9	Enhanced FTIR bench-top imaging of single biological cells. Analyst, The, 2015, 140, 2080-2085.	1.7	29
10	Comparing C 60 + and (H 2 O) n + clusters for mouse brain tissue analysis. Surface and Interface Analysis, 2014, 46, 136-139.	0.8	4
11	Assessing the challenges of Fourier transform infrared spectroscopic analysis of blood serum. Journal of Biophotonics, 2014, 7, 180-188.	1.1	57
12	Spatiotemporal lipid profiling during early embryo development of Xenopus laevis using dynamic ToF-SIMS imaging. Journal of Lipid Research, 2014, 55, 1970-1980.	2.0	35
13	Timeâ€ofâ€flight SIMS as a novel approach to unlocking the hypoxic properties of cancer. Surface and Interface Analysis, 2013, 45, 282-285.	0.8	9
14	ToFâ€SIMS as a tool for metabolic profiling small biomolecules in cancer systems. Surface and Interface Analysis, 2013, 45, 277-281.	0.8	22
15	Peak picking as a preâ€processing technique for imaging time of flight secondary ion mass spectrometry. Surface and Interface Analysis, 2013, 45, 461-465.	0.8	2
16	SIMS informatics. Surface and Interface Analysis, 2013, 45, 471-474.	0.8	2
17	Peptide structural analysis using continuous Ar cluster and C60 ion beams. Analytical and Bioanalytical Chemistry, 2013, 405, 6621-6628.	1.9	25
18	The inherent problem of transflection-mode infrared spectroscopic microscopy and the ramifications for biomedical single point and imaging applications. Analyst, The, 2013, 138, 144-157.	1.7	119

#	Article	IF	Citations
19	FTIR microscopy of biological cells and tissue: data analysis using resonant Mie scattering (RMieS) EMSC algorithm. Analyst, The, 2012, 137, 1370.	1.7	117
20	Threeâ€dimensional mass spectral imaging of <scp>HeLa</scp>â€M cells â€“ sample preparation, data interpretation and visualisation. Rapid Communications in Mass Spectrometry, 2011, 25, 925-932.	0.7	112
21	Interactive spatio-spectral analysis of three-dimensional mass-spectral (3DxMS) chemical images. Surface and Interface Analysis, 2011, 43, 529-534.	0.8	5
22	Phenotypic profiling of keloid scars using FT-IR microspectroscopy reveals a unique spectral signature. Archives of Dermatological Research, 2010, 302, 705-715.	1.1	18
23	Classification of fixed urological cells using Raman tweezers. Journal of Biophotonics, 2009, 2, 47-69.	1.1	58
24	Efficient encoding and rapid decoding for interactive visualization of large three-dimensional hyperspectral chemical images. Rapid Communications in Mass Spectrometry, 2009, 23, 1229-1233.	0.7	6
25	A comparison of PCA and MAF for ToFâ€SIMS image interpretation. Surface and Interface Analysis, 2009, 41, 666-674.	0.8	56
26	Factors influencing the discrimination and classification of prostate cancer cell lines by FTIR microspectroscopy. Analyst, The, 2009, 134, 1083.	1.7	71
27	Explanatory multivariate analysis of ToF-SIMS spectra for the discrimination of bacterial isolates. Analyst, The, 2009, 134, 2352.	1.7	10
28	Visualization and analysis of large three-dimensional hyperspectral images. Proceedings of SPIE, 2009, , .	0.8	0
29	Exploratory analysis of TOF-SIMS data from biological surfaces. Applied Surface Science, 2008, 255, 1599-1602.	3.1	8
30	Uncovering new challenges in bio-analysis with ToF-SIMS. Applied Surface Science, 2008, 255, 1264-1270.	3.1	30
31	A New Dynamic in Mass Spectral Imaging of Single Biological Cells. Analytical Chemistry, 2008, 80, 9058-9064.	3.2	254
32	Spectral discrimination of live prostate and bladder cancer cell lines using Raman optical tweezers. Journal of Biomedical Optics, 2008, 13, 064004.	1.4	71
33	Discrimination of prostate cancer cells by reflection mode FTIR photoacoustic spectroscopy. Analyst, The, 2007, 132, 292.	1.7	45
34	Polyethylene terephthalate (PET) bulk film analysis using C60+, Au3+, and Au+ primary ion beams. Applied Surface Science, 2006, 252, 6562-6565.	3.1	19
35	Rapid discrimination of the causal agents of urinary tract infection using ToF-SIMS with chemometric cluster analysis. Applied Surface Science, 2006, 252, 6869-6874.	3.1	26
36	ToF-SIMS studies of Bacillus using multivariate analysis with possible identification and taxonomic applications. Applied Surface Science, 2006, 252, 6719-6722.	3.1	20

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37	Summary of ISO/TC 201 standard: XXII. ISO 22048:2004?Surface chemical analysis?Information format for static secondary ion mass spectrometry. Surface and Interface Analysis, 2004, 36, 1642-1644.	0.8	7
38	ToF-SIMS Studies of Sulfuric Acid Hydrate Films. Journal of Physical Chemistry B, 2004, 108, 5960-5966.	1.2	7
39	Identification of Surface Molecular Hydrates on Solid Sulfuric Acid Films. Journal of the American Chemical Society, 2003, 125, 13038-13039.	6.6	6
40	The role of surface molecular hydrates in the heterogeneous interaction of NH3 with sulfuric acid monohydrate. Physical Chemistry Chemical Physics, 2003, 5, 5101.	1.3	3
41	The effect of corona treatments on the hygral expansion of wool worsted fabrics. Coloration Technology, 1994, 110, 383-386.	0.1	8