

Alex Henderson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5168104/publications.pdf>

Version: 2024-02-01

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	A New Dynamic in Mass Spectral Imaging of Single Biological Cells. <i>Analytical Chemistry</i> , 2008, 80, 9058-9064.	3.2	254
2	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. <i>Analyst, The</i> , 2018, 143, 1735-1757.	1.7	163
3	The inherent problem of transfection-mode infrared spectroscopic microscopy and the ramifications for biomedical single point and imaging applications. <i>Analyst, The</i> , 2013, 138, 144-157.	1.7	119
4	FTIR microscopy of biological cells and tissue: data analysis using resonant Mie scattering (RMieS) EMSC algorithm. <i>Analyst, The</i> , 2012, 137, 1370.	1.7	117
5	Three-dimensional mass spectral imaging of <sc>HeLa</sc> cells – sample preparation, data interpretation and visualisation. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 925-932.	0.7	112
6	Spectral discrimination of live prostate and bladder cancer cell lines using Raman optical tweezers. <i>Journal of Biomedical Optics</i> , 2008, 13, 064004.	1.4	71
7	Factors influencing the discrimination and classification of prostate cancer cell lines by FTIR microspectroscopy. <i>Analyst, The</i> , 2009, 134, 1083.	1.7	71
8	Classification of fixed urological cells using Raman tweezers. <i>Journal of Biophotonics</i> , 2009, 2, 47-69.	1.1	58
9	Assessing the challenges of Fourier transform infrared spectroscopic analysis of blood serum. <i>Journal of Biophotonics</i> , 2014, 7, 180-188.	1.1	57
10	A comparison of PCA and MAF for ToF-SIMS image interpretation. <i>Surface and Interface Analysis</i> , 2009, 41, 666-674.	0.8	56
11	Quantum Cascade Laser Spectral Histopathology: Breast Cancer Diagnostics Using High Throughput Chemical Imaging. <i>Analytical Chemistry</i> , 2017, 89, 7348-7355.	3.2	54
12	High-throughput quantum cascade laser (QCL) spectral histopathology: a practical approach towards clinical translation. <i>Faraday Discussions</i> , 2016, 187, 135-154.	1.6	46
13	Discrimination of prostate cancer cells by reflection mode FTIR photoacoustic spectroscopy. <i>Analyst, The</i> , 2007, 132, 292.	1.7	45
14	Infrared spectral histopathology using haematoxylin and eosin (H&E) stained glass slides: a major step forward towards clinical translation. <i>Analyst, The</i> , 2017, 142, 1258-1268.	1.7	38
15	Spatiotemporal lipid profiling during early embryo development of <i>Xenopus laevis</i> using dynamic ToF-SIMS imaging. <i>Journal of Lipid Research</i> , 2014, 55, 1970-1980.	2.0	35
16	Uncovering new challenges in bio-analysis with ToF-SIMS. <i>Applied Surface Science</i> , 2008, 255, 1264-1270.	3.1	30
17	Enhanced FTIR bench-top imaging of single biological cells. <i>Analyst, The</i> , 2015, 140, 2080-2085.	1.7	29
18	Rapid discrimination of the causal agents of urinary tract infection using ToF-SIMS with chemometric cluster analysis. <i>Applied Surface Science</i> , 2006, 252, 6869-6874.	3.1	26

#	ARTICLE	IF	CITATIONS
19	Peptide structural analysis using continuous Ar cluster and C60 ion beams. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6621-6628.	1.9	25
20	Mass spectrometric imaging of brain tissue by time-of-flight secondary ion mass spectrometry - How do polyatomic primary beams C ₆₀ ⁺ , Ar ₂₀₀₀ ⁺ , water-doped Ar ₂₀₀₀ ⁺ and (H ₂ O) ₆₀₀₀ ⁺ compare?. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1851-1862.	0.7	23
21	ToF-SIMS as a tool for metabolic profiling small biomolecules in cancer systems. <i>Surface and Interface Analysis</i> , 2013, 45, 277-281.	0.8	22
22	ToF-SIMS studies of Bacillus using multivariate analysis with possible identification and taxonomic applications. <i>Applied Surface Science</i> , 2006, 252, 6719-6722.	3.1	20
23	Exploring AdaBoost and Random Forests machine learning approaches for infrared pathology on unbalanced data sets. <i>Analyst, The</i> , 2021, 146, 5880-5891.	1.7	20
24	Polyethylene terephthalate (PET) bulk film analysis using C60 ⁺ , Au3 ⁺ , and Au ⁺ primary ion beams. <i>Applied Surface Science</i> , 2006, 252, 6562-6565.	3.1	19
25	FTIR imaging of the molecular burden around A β deposits in an early-stage 3-Tg-APP-PSP1-TAU mouse model of Alzheimer's disease. <i>Analyst, The</i> , 2017, 142, 156-168.	1.7	19
26	Phenotypic profiling of keloid scars using FT-IR microspectroscopy reveals a unique spectral signature. <i>Archives of Dermatological Research</i> , 2010, 302, 705-715.	1.1	18
27	Explanatory multivariate analysis of ToF-SIMS spectra for the discrimination of bacterial isolates. <i>Analyst, The</i> , 2009, 134, 2352.	1.7	10
28	Time-of-flight SIMS as a novel approach to unlocking the hypoxic properties of cancer. <i>Surface and Interface Analysis</i> , 2013, 45, 282-285.	0.8	9
29	Exploratory analysis of TOF-SIMS data from biological surfaces. <i>Applied Surface Science</i> , 2008, 255, 1599-1602.	3.1	8
30	The effect of corona treatments on the hygral expansion of wool worsted fabrics. <i>Coloration Technology</i> , 1994, 110, 383-386.	0.1	8
31	Summary of ISO/TC 201 standard: XXII. ISO 22048:2004?Surface chemical analysis?Information format for static secondary ion mass spectrometry. <i>Surface and Interface Analysis</i> , 2004, 36, 1642-1644.	0.8	7
32	ToF-SIMS Studies of Sulfuric Acid Hydrate Films. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5960-5966.	1.2	7
33	Identification of Surface Molecular Hydrates on Solid Sulfuric Acid Films. <i>Journal of the American Chemical Society</i> , 2003, 125, 13038-13039.	6.6	6
34	Efficient encoding and rapid decoding for interactive visualization of large three-dimensional hyperspectral chemical images. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1229-1233.	0.7	6
35	Interactive spatio-spectral analysis of three-dimensional mass-spectral (3DxMS) chemical images. <i>Surface and Interface Analysis</i> , 2011, 43, 529-534.	0.8	5
36	Evaluation of biomolecular distributions in rat brain tissues by means of ToF-SIMS using a continuous beam of Ar clusters. <i>Biointerphases</i> , 2016, 11, 02A307.	0.6	5

#	ARTICLE	IF	CITATIONS
37	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
38	The role of surface molecular hydrates in the heterogeneous interaction of NH ₃ with sulfuric acid monohydrate. Physical Chemistry Chemical Physics, 2003, 5, 5101.	1.3	3
39	Peak picking as a pre-processing technique for imaging time of flight secondary ion mass spectrometry. Surface and Interface Analysis, 2013, 45, 461-465.	0.8	2
40	SIMS informatics. Surface and Interface Analysis, 2013, 45, 471-474.	0.8	2
41	Visualization and analysis of large three-dimensional hyperspectral images. Proceedings of SPIE, 2009, , .	0.8	0