Shane Ellis

List of Publications by Year
in descending order

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68 papers	2,872 citations	147786 31 h-index	182417 51 g-index
74 all docs	74 docs citations	74 times ranked	3238 citing authors

#	Article	IF	Citations
1	Selective Mass Spectrometry Imaging of Aromatic Antioxidants Using Sequential Matrixâ€Assisted Laser Desorption and Resonant Photoionisation. Analysis & Sensing, 2022, 2, .	2.0	7
2	Solvent-Mediated Proton-Transfer Catalysis of the Gas-Phase Isomerization of Ciprofloxacin Protomers. Journal of the American Society for Mass Spectrometry, 2022, 33, 347-354.	2.8	8
3	Characterization of microchannel plate detector response for the detection of native multiply charged high mass single ions in orthogonalâ€timeâ€ofâ€flight mass spectrometry using a <scp>Timepix</scp> detector. Journal of Mass Spectrometry, 2022, 57, e4820.	1.6	3
4	Sphingolipids control dermal fibroblast heterogeneity. Science, 2022, 376, eabh1623.	12.6	73
5	Isomeric lipid signatures reveal compartmentalized fatty acid metabolism in cancer. Journal of Lipid Research, 2022, 63, 100223.	4.2	10
6	Infrared Laser Desorption and Electrospray Ionisation of Nonâ€Covalent Protein Complexes: Generation of Intact, Multiply Charged Species. Analysis & Sensing, 2021, 1, 44-47.	2.0	4
7	Experimental and Data Analysis Considerations for Three-Dimensional Mass Spectrometry Imaging in Biomedical Research. Molecular Imaging and Biology, 2021, 23, 149-159.	2.6	25
8	Mass spectrometry imaging of phosphatidylcholine metabolism in lungs administered with therapeutic surfactants and isotopic tracers. Journal of Lipid Research, 2021, 62, 100023.	4.2	12
9	Apocryphal FADS2 activity promotes fatty acid diversification in cancer. Cell Reports, 2021, 34, 108738.	6.4	68
10	Passivation Properties and Formation Mechanism of Amorphous Halide Perovskite Thin Films. Advanced Functional Materials, 2021, 31, 2010330.	14.9	17
11	Mass spectrometry imaging 2.0. Analytical and Bioanalytical Chemistry, 2021, 413, 2597-2598.	3.7	1
12	A novel dual ionization modality source for infrared laser ablation post-ionization mass spectrometry imaging to study fungicide metabolism and transport. International Journal of Mass Spectrometry, 2021, 465, 116602.	1.5	5
13	Mass Spectrometry Imaging of Lipids with Isomer Resolution Using High-Pressure Ozone-Induced Dissociation. Analytical Chemistry, 2021, 93, 9826-9834.	6.5	47
14	Isomer-Resolved Imaging of Prostate Cancer Tissues Reveals Specific Lipid Unsaturation Profiles Associated With Lymphocytes and Abnormal Prostate Epithelia. Frontiers in Endocrinology, 2021, 12, 689600.	3.5	15
15	Ion Imaging of Native Protein Complexes Using Orthogonal Time-of-Flight Mass Spectrometry and a Timepix Detector. Journal of the American Society for Mass Spectrometry, 2021, 32, 569-580.	2.8	10
16	Evaluation of lipid coverage and high spatial resolution MALDI-imaging capabilities of oversampling combined with laser post-ionisation. Analytical and Bioanalytical Chemistry, 2020, 412, 2277-2289.	3.7	84
17	LipostarMSI: Comprehensive, Vendor-Neutral Software for Visualization, Data Analysis, and Automated Molecular Identification in Mass Spectrometry Imaging. Journal of the American Society for Mass Spectrometry, 2020, 31, 155-163.	2.8	57
18	Stearoyl-CoA desaturase-1 impairs the reparative properties of macrophages and microglia in the brain. Journal of Experimental Medicine, 2020, 217, .	8.5	72

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19	Ultra-High Mass Resolving Power, Mass Accuracy, and Dynamic Range MALDI Mass Spectrometry Imaging by 21-T FT-ICR MS. Analytical Chemistry, 2020, 92, 3133-3142.	6.5	71
20	Simultaneous Detection of Zinc and Its Pathway Metabolites Using MALDI MS Imaging of Prostate Tissue. Analytical Chemistry, 2020, 92, 3171-3179.	6.5	32
21	Advances in mass spectrometry imaging enabling observation of localised lipid biochemistry within tissues. TrAC - Trends in Analytical Chemistry, 2019, 120, 115197.	11.4	51
22	Enhanced Sensitivity Using MALDI Imaging Coupled with Laser Postionization (MALDI-2) for Pharmaceutical Research. Analytical Chemistry, 2019, 91, 10840-10848.	6.5	67
23	Class-specific depletion of lipid ion signals in tissues upon formalin fixation. International Journal of Mass Spectrometry, 2019, 446, 116212.	1.5	23
24	Development and evaluation of matrix application techniques for high throughput mass spectrometry imaging of tissues in the clinic. Clinical Mass Spectrometry, 2019, 12, 7-15.	1.9	38
25	Rapid Identification of Ischemic Injury in Renal Tissue by Mass-Spectrometry Imaging. Analytical Chemistry, 2019, 91, 3575-3581.	6.5	27
26	Increased throughput and ultra-high mass resolution in DESI FT-ICR MS imaging through new-generation external data acquisition system and advanced data processing approaches. Scientific Reports, 2019, 9, 8.	3.3	69
27	Stigmatic imaging of secondary ions in MeV-SIMS spectrometry by linear Time-of-Flight mass spectrometer and the TimePix detector. Nuclear Instruments & Methods in Physics Research B, 2019, 452, 1-6.	1.4	5
28	Three-Dimensional Mass Spectrometry Imaging Identifies Lipid Markers of Medulloblastoma Metastasis. Scientific Reports, 2019, 9, 2205.	3.3	57
29	Maintenance of Deep Lung Architecture and Automated Airway Segmentation for 3D Mass Spectrometry Imaging. Scientific Reports, 2019, 9, 20160.	3.3	10
30	Reshaping Lipid Biochemistry by Pushing Barriers in Structural Lipidomics. Angewandte Chemie, 2019, 131, 6560-6569.	2.0	12
31	Reshaping Lipid Biochemistry by Pushing Barriers in Structural Lipidomics. Angewandte Chemie - International Edition, 2019, 58, 6492-6501.	13.8	75
32	Strategies for managing multi-patient 3D mass spectrometry imaging data. Journal of Proteomics, 2019, 193, 184-191.	2.4	19
33	Simultaneous lipidomic and transcriptomic profiling in mouse brain punches of acute epileptic seizure model compared to controls. Journal of Lipid Research, 2018, 59, 283-297.	4.2	29
34	Spatial Systems Lipidomics Reveals Nonalcoholic Fatty Liver Disease Heterogeneity. Analytical Chemistry, 2018, 90, 5130-5138.	6.5	44
35	Understanding Detrimental and Beneficial Grain Boundary Effects in Halide Perovskites. Advanced Materials, 2018, 30, e1804792.	21.0	128
36	Targeted Drug and Metabolite Imaging: Desorption Electrospray Ionization Combined with Triple Quadrupole Mass Spectrometry. Analytical Chemistry, 2018, 90, 13229-13235.	6.5	37

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37	Automated, parallel mass spectrometry imaging and structural identification of lipids. Nature Methods, 2018, 15, 515-518.	19.0	158
38	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozoneâ€Induced Dissociation. Angewandte Chemie - International Edition, 2018, 57, 10530-10534.	13.8	143
39	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozoneâ€Induced Dissociation. Angewandte Chemie, 2018, 130, 10690-10694.	2.0	28
40	Digestion-Free Analysis of Peptides from 30-year-old Formalin-Fixed, Paraffin-Embedded Tissue by Mass Spectrometry Imaging. Analytical Chemistry, 2018, 90, 9272-9280.	6.5	30
41	NF-ÎºB-mediated metabolic remodelling in the inflamed heart in acute viral myocarditis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 2579-2589.	3.8	27
42	Detection of Localized Hepatocellular Amino Acid Kinetics by using Mass Spectrometry Imaging of Stable Isotopes. Angewandte Chemie - International Edition, 2017, 56, 7146-7150.	13.8	34
43	Design and Performance of a Novel Interface for Combined Matrix-Assisted Laser Desorption Ionization at Elevated Pressure and Electrospray Ionization with Orbitrap Mass Spectrometry. Analytical Chemistry, 2017, 89, 7493-7501.	6.5	65
44	Laser post-ionisation combined with a high resolving power orbitrap mass spectrometer for enhanced MALDI-MS imaging of lipids. Chemical Communications, 2017, 53, 7246-7249.	4.1	79
45	Detection of Localized Hepatocellular Amino Acid Kinetics by using Mass Spectrometry Imaging of Stable Isotopes. Angewandte Chemie, 2017, 129, 7252-7256.	2.0	3
46	Visualizing molecular distributions for biomaterials applications with mass spectrometry imaging: a review. Journal of Materials Chemistry B, 2017, 5, 7444-7460.	5.8	21
47	Host-based lipid inflammation drives pathogenesis in Francisella infection. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12596-12601.	7.1	33
48	Radical Generation from the Gas-Phase Activation of Ionized Lipid Ozonides. Journal of the American Society for Mass Spectrometry, 2017, 28, 1345-1358.	2.8	10
49	More from less: high-throughput dual polarity lipid imaging of biological tissues. Analyst, The, 2016, 141, 3832-3841.	3.5	38
50	Enhanced capabilities for imaging gangliosides in murine brain with matrix-assisted laser desorption/ionization and desorption electrospray ionization mass spectrometry coupled to ion mobility separation. Methods, 2016, 104, 69-78.	3.8	70
51	Spatial Autocorrelation in Mass Spectrometry Imaging. Analytical Chemistry, 2016, 88, 5871-5878.	6.5	29
52	Multimodal molecular imaging: Insight into the complexity of biological surfaces through speed, resolution and identification. Microscopy and Microanalysis, 2015, 21, 2235-2236.	0.4	2
53	Use of advantageous, volatile matrices enabled by next-generation high-speed matrix-assisted laser desorption/ionization time-of-flight imaging employing a scanning laser beam. Rapid Communications in Mass Spectrometry, 2015, 29, 2195-2203.	1.5	119
54	Direct Ion Imaging Approach for Investigation of Ion Dynamics in Multipole Ion Guides. Analytical Chemistry, 2015, 87, 3714-3720.	6.5	8

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55	Experimental Investigation of the 2D Ion Beam Profile Generated by an ESI Octopole-QMS System. Journal of the American Society for Mass Spectrometry, 2014, 25, 1780-1787.	2.8	10
56	Combined X-ray CT and mass spectrometry for biomedical imaging applications. Journal of Instrumentation, 2014, 9, C04029-C04029.	1.2	4
57	Sex-specific triacylglycerides are widely conserved in Drosophila and mediate mating behavior. ELife, 2014, 3, e01751.	6.0	44
58	Methods for full resolution data exploration and visualization for large 2D and 3D mass spectrometry imaging datasets. International Journal of Mass Spectrometry, 2014, 362, 40-47.	1.5	69
59	A critical evaluation of the current state-of-the-art in quantitative imaging mass spectrometry. Analytical and Bioanalytical Chemistry, 2014, 406, 1275-1289.	3.7	157
60	MALDI Mass Spectrometry Imaging in Microscope Mode with Infrared Lasers: Bypassing the Diffraction Limits. Analytical Chemistry, 2014, 86, 321-325.	6.5	32
61	Time-Resolved Imaging of the MALDI Linear-TOF Ion Cloud: Direct Visualization and Exploitation of Ion Optical Phenomena Using a Position- and Time-Sensitive Detector. Journal of the American Society for Mass Spectrometry, 2014, 25, 809-819.	2.8	9
62	Characterisation of sphingolipids in the human lens by thin layer chromatographyâ€"desorption electrospray ionisation mass spectrometry. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1285-1291.	2.4	15
63	Enhanced Detection of Highâ€Mass Proteins by Using an Active Pixel Detector. Angewandte Chemie - International Edition, 2013, 52, 11261-11264.	13.8	21
64	Surface analysis of lipids by mass spectrometry: More than just imaging. Progress in Lipid Research, 2013, 52, 329-353.	11.6	95
65	Instability of the cellular lipidome with age. Age, 2012, 34, 935-947.	3.0	34
66	Using ambient ozone for assignment of double bond position in unsaturated lipids. Analyst, The, 2012, 137, 1100-1110.	3.5	57
67	Direct Lipid Profiling of Single Cells from Inkjet Printed Microarrays. Analytical Chemistry, 2012, 84, 9679-9683.	6.5	53
68	Imaging of human lens lipids by desorption electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2010, 21, 2095-2104.	2.8	61