

Shane Ellis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

1,786

citations

25

h-index

41

g-index

74

ext. papers

2,352

ext. citations

7.3

avg, IF

5.14

L-index

#	Paper	IF	Citations
66	Characterization of microchannel plate detector response for the detection of native multiply charged high mass single ions in orthogonal-time-of-flight mass spectrometry using a Timepix detector.. <i>Journal of Mass Spectrometry</i> , 2022 , 57, e4820	2.2	0
65	Sphingolipids control dermal fibroblast heterogeneity.. <i>Science</i> , 2022 , 376, eabh1623	33.3	2
64	Isomeric lipid signatures reveal compartmentalized fatty acid metabolism in cancer.. <i>Journal of Lipid Research</i> , 2022 , 100223	6.3	1
63	A novel dual ionization modality source for infrared laser ablation post-ionization mass spectrometry imaging to study fungicide metabolism and transport. <i>International Journal of Mass Spectrometry</i> , 2021 , 465, 116602	1.9	1
62	Infrared Laser Desorption and Electrospray Ionisation of Non-Covalent Protein Complexes: Generation of Intact, Multiply Charged Species. <i>Analysis & Sensing</i> , 2021 , 1, 44-47		0
61	Experimental and Data Analysis Considerations for Three-Dimensional Mass Spectrometry Imaging in Biomedical Research. <i>Molecular Imaging and Biology</i> , 2021 , 23, 149-159	3.8	8
60	Mass spectrometry imaging of phosphatidylcholine metabolism in lungs administered with therapeutic surfactants and isotopic tracers. <i>Journal of Lipid Research</i> , 2021 , 62, 100023	6.3	4
59	Apocryphal FADS2 activity promotes fatty acid diversification in cancer. <i>Cell Reports</i> , 2021 , 34, 108738	10.6	28
58	Passivation Properties and Formation Mechanism of Amorphous Halide Perovskite Thin Films. <i>Advanced Functional Materials</i> , 2021 , 31, 2010330	15.6	4
57	Mass Spectrometry Imaging of Lipids with Isomer Resolution Using High-Pressure Ozone-Induced Dissociation. <i>Analytical Chemistry</i> , 2021 , 93, 9826-9834	7.8	10
56	Isomer-Resolved Imaging of Prostate Cancer Tissues Reveals Specific Lipid Unsaturation Profiles Associated With Lymphocytes and Abnormal Prostate Epithelia. <i>Frontiers in Endocrinology</i> , 2021 , 12, 689600	5.7	2
55	Ion Imaging of Native Protein Complexes Using Orthogonal Time-of-Flight Mass Spectrometry and a Timepix Detector. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 569-580	3.5	5
54	Ultra-High Mass Resolving Power, Mass Accuracy, and Dynamic Range MALDI Mass Spectrometry Imaging by 21-T FT-ICR MS. <i>Analytical Chemistry</i> , 2020 , 92, 3133-3142	7.8	29
53	Simultaneous Detection of Zinc and Its Pathway Metabolites Using MALDI MS Imaging of Prostate Tissue. <i>Analytical Chemistry</i> , 2020 , 92, 3171-3179	7.8	19
52	Evaluation of lipid coverage and high spatial resolution MALDI-imaging capabilities of oversampling combined with laser post-ionisation. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 2277-2289	4.4	39
51	LipostarMSI: Comprehensive, Vendor-Neutral Software for Visualization, Data Analysis, and Automated Molecular Identification in Mass Spectrometry Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 155-163	3.5	22
50	Stearoyl-CoA desaturase-1 impairs the reparative properties of macrophages and microglia in the brain. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	25

49	Class-specific depletion of lipid ion signals in tissues upon formalin fixation. <i>International Journal of Mass Spectrometry</i> , 2019 , 446, 116212	1.9	11
48	Development and evaluation of matrix application techniques for high throughput mass spectrometry imaging of tissues in the clinic. <i>Clinical Mass Spectrometry</i> , 2019 , 12, 7-15	1.9	20
47	Rapid Identification of Ischemic Injury in Renal Tissue by Mass-Spectrometry Imaging. <i>Analytical Chemistry</i> , 2019 , 91, 3575-3581	7.8	15
46	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. <i>Scientific Reports</i> , 2019 , 9, 8	4.9	37
45	Stigmatic imaging of secondary ions in MeV-SIMS spectrometry by linear Time-of-Flight mass spectrometer and the TimePix detector. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 452, 1-6	1.2	2
44	Advances in mass spectrometry imaging enabling observation of localised lipid biochemistry within tissues. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 120, 115197	14.6	23
43	Enhanced Sensitivity Using MALDI Imaging Coupled with Laser Postionization (MALDI-2) for Pharmaceutical Research. <i>Analytical Chemistry</i> , 2019 , 91, 10840-10848	7.8	34
42	Three-Dimensional Mass Spectrometry Imaging Identifies Lipid Markers of Medulloblastoma Metastasis. <i>Scientific Reports</i> , 2019 , 9, 2205	4.9	31
41	Maintenance of Deep Lung Architecture and Automated Airway Segmentation for 3D Mass Spectrometry Imaging. <i>Scientific Reports</i> , 2019 , 9, 20160	4.9	5
40	Reshaping Lipid Biochemistry by Pushing Barriers in Structural Lipidomics. <i>Angewandte Chemie</i> , 2019 , 131, 6560-6569	3.6	7
39	Reshaping Lipid Biochemistry by Pushing Barriers in Structural Lipidomics. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6492-6501	16.4	42
38	Strategies for managing multi-patient 3D mass spectrometry imaging data. <i>Journal of Proteomics</i> , 2019 , 193, 184-191	3.9	14
37	Simultaneous lipidomic and transcriptomic profiling in mouse brain punches of acute epileptic seizure model compared to controls. <i>Journal of Lipid Research</i> , 2018 , 59, 283-297	6.3	20
36	Spatial Systems Lipidomics Reveals Nonalcoholic Fatty Liver Disease Heterogeneity. <i>Analytical Chemistry</i> , 2018 , 90, 5130-5138	7.8	31
35	Digestion-Free Analysis of Peptides from 30-year-old Formalin-Fixed, Paraffin-Embedded Tissue by Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2018 , 90, 9272-9280	7.8	20
34	NF- κ B-mediated metabolic remodelling in the inflamed heart in acute viral myocarditis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 2579-2589	6.9	20
33	Understanding Detrimental and Beneficial Grain Boundary Effects in Halide Perovskites. <i>Advanced Materials</i> , 2018 , 30, e1804792	24	90
32	Targeted Drug and Metabolite Imaging: Desorption Electrospray Ionization Combined with Triple Quadrupole Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 13229-13235	7.8	24

31	Automated, parallel mass spectrometry imaging and structural identification of lipids. <i>Nature Methods</i> , 2018 , 15, 515-518	21.6	93
30	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozone-Induced Dissociation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10530-10534	16.4	86
29	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozone-Induced Dissociation. <i>Angewandte Chemie</i> , 2018 , 130, 10690-10694	3.6	16
28	Detection of Localized Hepatocellular Amino Acid Kinetics by using Mass Spectrometry Imaging of Stable Isotopes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7146-7150	16.4	19
27	Design and Performance of a Novel Interface for Combined Matrix-Assisted Laser Desorption Ionization at Elevated Pressure and Electrospray Ionization with Orbitrap Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 7493-7501	7.8	46
26	Laser post-ionisation combined with a high resolving power orbitrap mass spectrometer for enhanced MALDI-MS imaging of lipids. <i>Chemical Communications</i> , 2017 , 53, 7246-7249	5.8	55
25	Detection of Localized Hepatocellular Amino Acid Kinetics by using Mass Spectrometry Imaging of Stable Isotopes. <i>Angewandte Chemie</i> , 2017 , 129, 7252-7256	3.6	3
24	Visualizing molecular distributions for biomaterials applications with mass spectrometry imaging: a review. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7444-7460	7.3	14
23	Host-based lipid inflammation drives pathogenesis in infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12596-12601	11.5	18
22	Radical Generation from the Gas-Phase Activation of Ionized Lipid Ozonides. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1345-1358	3.5	6
21	More from less: high-throughput dual polarity lipid imaging of biological tissues. <i>Analyst</i> , 2016 , 141, 3832-41	5	27
20	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. <i>Methods</i> , 2016 , 104, 69-78	4.6	57
19	Spatial Autocorrelation in Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2016 , 88, 5871-8	7.8	21
18	Direct ion imaging approach for investigation of ion dynamics in multipole ion guides. <i>Analytical Chemistry</i> , 2015 , 87, 3714-20	7.8	6
17	Multimodal molecular imaging: Insight into the complexity of biological surfaces through speed, resolution and identification. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2235-2236	0.5	2
16	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. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 2195-203	2.2	99
15	Methods for full resolution data exploration and visualization for large 2D and 3D mass spectrometry imaging datasets. <i>International Journal of Mass Spectrometry</i> , 2014 , 362, 40-47	1.9	61
14	A critical evaluation of the current state-of-the-art in quantitative imaging mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 1275-89	4.4	141

13	MALDI mass spectrometry imaging in microscope mode with infrared lasers: bypassing the diffraction limits. <i>Analytical Chemistry</i> , 2014 , 86, 321-5	7.8	29
12	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. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 809-19	3.5	6
11	Characterisation of sphingolipids in the human lens by thin layer chromatography-desorption electrospray ionisation mass spectrometry. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014 , 1841, 1285-91	5	14
10	Experimental investigation of the 2D ion beam profile generated by an ESI octopole-QMS system. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 1780-7	3.5	6
9	Combined X-ray CT and mass spectrometry for biomedical imaging applications. <i>Journal of Instrumentation</i> , 2014 , 9, C04029-C04029	1	4
8	Sex-specific triacylglycerides are widely conserved in <i>Drosophila</i> and mediate mating behavior. <i>ELife</i> , 2014 , 3, e01751	8.9	38
7	Enhanced detection of high-mass proteins by using an active pixel detector. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11261-4	16.4	15
6	Surface analysis of lipids by mass spectrometry: more than just imaging. <i>Progress in Lipid Research</i> , 2013 , 52, 329-53	14.3	80
5	Enhanced Detection of High-Mass Proteins by Using an Active Pixel Detector. <i>Angewandte Chemie</i> , 2013 , 125, 11471-11474	3.6	1
4	Instability of the cellular lipidome with age. <i>Age</i> , 2012 , 34, 935-47		24
3	Using ambient ozone for assignment of double bond position in unsaturated lipids. <i>Analyst, The</i> , 2012 , 137, 1100-10	5	52
2	Direct lipid profiling of single cells from inkjet printed microarrays. <i>Analytical Chemistry</i> , 2012 , 84, 9679-838	3.3	47
1	Imaging of human lens lipids by desorption electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 2095-104	3.5	53