

# Shane Ellis

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3988442/shane-ellis-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	A critical evaluation of the current state-of-the-art in quantitative imaging mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 1275-89	4.4	141
65	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> , <b>2015</b> , 29, 2195-203	2.2	99
64	Automated, parallel mass spectrometry imaging and structural identification of lipids. <i>Nature Methods</i> , <b>2018</b> , 15, 515-518	21.6	93
63	Understanding Detrimental and Beneficial Grain Boundary Effects in Halide Perovskites. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804792	24	90
62	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozone-Induced Dissociation. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 10530-10534	16.4	86
61	Surface analysis of lipids by mass spectrometry: more than just imaging. <i>Progress in Lipid Research</i> , <b>2013</b> , 52, 329-53	14.3	80
60	Methods for full resolution data exploration and visualization for large 2D and 3D mass spectrometry imaging datasets. <i>International Journal of Mass Spectrometry</i> , <b>2014</b> , 362, 40-47	1.9	61
59	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> , <b>2016</b> , 104, 69-78	4.6	57
58	Laser post-ionisation combined with a high resolving power orbitrap mass spectrometer for enhanced MALDI-MS imaging of lipids. <i>Chemical Communications</i> , <b>2017</b> , 53, 7246-7249	5.8	55
57	Imaging of human lens lipids by desorption electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2010</b> , 21, 2095-104	3.5	53
56	Using ambient ozone for assignment of double bond position in unsaturated lipids. <i>Analyst, The</i> , <b>2012</b> , 137, 1100-10	5	52
55	Direct lipid profiling of single cells from inkjet printed microarrays. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 9679-9688	4.3	47
54	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> , <b>2017</b> , 89, 7493-7501	7.8	46
53	Reshaping Lipid Biochemistry by Pushing Barriers in Structural Lipidomics. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6492-6501	16.4	42
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> , <b>2020</b> , 412, 2277-2289	4.4	39
51	Sex-specific triacylglycerides are widely conserved in <i>Drosophila</i> and mediate mating behavior. <i>ELife</i> , <b>2014</b> , 3, e01751	8.9	38
50	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> , <b>2019</b> , 9, 8	4.9	37

49	Enhanced Sensitivity Using MALDI Imaging Coupled with Laser Postionization (MALDI-2) for Pharmaceutical Research. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 10840-10848	7.8	34
48	Spatial Systems Lipidomics Reveals Nonalcoholic Fatty Liver Disease Heterogeneity. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5130-5138	7.8	31
47	Three-Dimensional Mass Spectrometry Imaging Identifies Lipid Markers of Medulloblastoma Metastasis. <i>Scientific Reports</i> , <b>2019</b> , 9, 2205	4.9	31
46	Ultra-High Mass Resolving Power, Mass Accuracy, and Dynamic Range MALDI Mass Spectrometry Imaging by 21-T FT-ICR MS. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 3133-3142	7.8	29
45	MALDI mass spectrometry imaging in microscope mode with infrared lasers: bypassing the diffraction limits. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 321-5	7.8	29
44	Apocryphal FADS2 activity promotes fatty acid diversification in cancer. <i>Cell Reports</i> , <b>2021</b> , 34, 108738	10.6	28
43	More from less: high-throughput dual polarity lipid imaging of biological tissues. <i>Analyst, The</i> , <b>2016</b> , 141, 3832-41	5	27
42	Stearoyl-CoA desaturase-1 impairs the reparative properties of macrophages and microglia in the brain. <i>Journal of Experimental Medicine</i> , <b>2020</b> , 217,	16.6	25
41	Instability of the cellular lipidome with age. <i>Age</i> , <b>2012</b> , 34, 935-47		24
40	Targeted Drug and Metabolite Imaging: Desorption Electrospray Ionization Combined with Triple Quadrupole Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 13229-13235	7.8	24
39	Advances in mass spectrometry imaging enabling observation of localised lipid biochemistry within tissues. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2019</b> , 120, 115197	14.6	23
38	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> , <b>2020</b> , 31, 155-163	3.5	22
37	Spatial Autocorrelation in Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 5871-8	7.8	21
36	Development and evaluation of matrix application techniques for high throughput mass spectrometry imaging of tissues in the clinic. <i>Clinical Mass Spectrometry</i> , <b>2019</b> , 12, 7-15	1.9	20
35	Simultaneous lipidomic and transcriptomic profiling in mouse brain punches of acute epileptic seizure model compared to controls. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 283-297	6.3	20
34	Digestion-Free Analysis of Peptides from 30-year-old Formalin-Fixed, Paraffin-Embedded Tissue by Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 9272-9280	7.8	20
33	NF- $\kappa$ B-mediated metabolic remodelling in the inflamed heart in acute viral myocarditis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2018</b> , 1864, 2579-2589	6.9	20
32	Detection of Localized Hepatocellular Amino Acid Kinetics by using Mass Spectrometry Imaging of Stable Isotopes. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 7146-7150	16.4	19

31	Simultaneous Detection of Zinc and Its Pathway Metabolites Using MALDI MS Imaging of Prostate Tissue. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 3171-3179	7.8	19
30	Host-based lipid inflammation drives pathogenesis in infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 12596-12601	11.5	18
29	Mass Spectrometry Imaging with Isomeric Resolution Enabled by Ozone-Induced Dissociation. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 10690-10694	3.6	16
28	Rapid Identification of Ischemic Injury in Renal Tissue by Mass-Spectrometry Imaging. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 3575-3581	7.8	15
27	Enhanced detection of high-mass proteins by using an active pixel detector. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 11261-4	16.4	15
26	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> , <b>2014</b> , 1841, 1285-91	5	14
25	Visualizing molecular distributions for biomaterials applications with mass spectrometry imaging: a review. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 7444-7460	7.3	14
24	Strategies for managing multi-patient 3D mass spectrometry imaging data. <i>Journal of Proteomics</i> , <b>2019</b> , 193, 184-191	3.9	14
23	Class-specific depletion of lipid ion signals in tissues upon formalin fixation. <i>International Journal of Mass Spectrometry</i> , <b>2019</b> , 446, 116212	1.9	11
22	Mass Spectrometry Imaging of Lipids with Isomer Resolution Using High-Pressure Ozone-Induced Dissociation. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 9826-9834	7.8	10
21	Experimental and Data Analysis Considerations for Three-Dimensional Mass Spectrometry Imaging in Biomedical Research. <i>Molecular Imaging and Biology</i> , <b>2021</b> , 23, 149-159	3.8	8
20	Reshaping Lipid Biochemistry by Pushing Barriers in Structural Lipidomics. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6560-6569	3.6	7
19	Direct ion imaging approach for investigation of ion dynamics in multipole ion guides. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 3714-20	7.8	6
18	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> , <b>2014</b> , 25, 809-19	3.5	6
17	Radical Generation from the Gas-Phase Activation of Ionized Lipid Ozonides. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 1345-1358	3.5	6
16	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> , <b>2014</b> , 25, 1780-7	3.5	6
15	Maintenance of Deep Lung Architecture and Automated Airway Segmentation for 3D Mass Spectrometry Imaging. <i>Scientific Reports</i> , <b>2019</b> , 9, 20160	4.9	5
14	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> , <b>2021</b> , 32, 569-580	3.5	5

13	Combined X-ray CT and mass spectrometry for biomedical imaging applications. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, C04029-C04029	1	4
12	Mass spectrometry imaging of phosphatidylcholine metabolism in lungs administered with therapeutic surfactants and isotopic tracers. <i>Journal of Lipid Research</i> , <b>2021</b> , 62, 100023	6.3	4
11	Passivation Properties and Formation Mechanism of Amorphous Halide Perovskite Thin Films. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010330	15.6	4
10	Detection of Localized Hepatocellular Amino Acid Kinetics by using Mass Spectrometry Imaging of Stable Isotopes. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7252-7256	3.6	3
9	Stigmatic imaging of secondary ions in MeV-SIMS spectrometry by linear Time-of-Flight mass spectrometer and the TimePix detector. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2019</b> , 452, 1-6	1.2	2
8	Multimodal molecular imaging: Insight into the complexity of biological surfaces through speed, resolution and identification. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 2235-2236	0.5	2
7	Isomer-Resolved Imaging of Prostate Cancer Tissues Reveals Specific Lipid Unsaturation Profiles Associated With Lymphocytes and Abnormal Prostate Epithelia. <i>Frontiers in Endocrinology</i> , <b>2021</b> , 12, 689600	5.7	2
6	Sphingolipids control dermal fibroblast heterogeneity.. <i>Science</i> , <b>2022</b> , 376, eabh1623	33.3	2
5	Enhanced Detection of High-Mass Proteins by Using an Active Pixel Detector. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 11471-11474	3.6	1
4	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> , <b>2021</b> , 465, 116602	1.9	1
3	Isomeric lipid signatures reveal compartmentalized fatty acid metabolism in cancer.. <i>Journal of Lipid Research</i> , <b>2022</b> , 100223	6.3	1
2	Infrared Laser Desorption and Electrospray Ionisation of Non-Covalent Protein Complexes: Generation of Intact, Multiply Charged Species. <i>Analysis &amp; Sensing</i> , <b>2021</b> , 1, 44-47		0
1	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> , <b>2022</b> , 57, e4820	2.2	0