Livia S Eberlin

List of Publications by Year in descending order

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47006 60623 6,941 85 47 81 citations h-index g-index papers 90 90 90 5733 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Reduced Hemoglobin Signal and Improved Detection of Endogenous Proteins in Blood-Rich Tissues for MALDI Mass Spectrometry Imaging. Journal of the American Society for Mass Spectrometry, 2022, 33, 296-303.	2.8	7
2	MASS SPECTROMETRY TECHNOLOGIES TO ADVANCE CARE FOR CANCER PATIENTS IN CLINICAL AND INTRAOPERATIVE USE. Mass Spectrometry Reviews, 2021, 40, 692-720.	5.4	25
3	Rapid Analysis and Authentication of Meat Using the MasSpec Pen Technology. Journal of Agricultural and Food Chemistry, 2021, 69, 3527-3536.	5.2	15
4	Metabotype analysis of Mthfd1l-null mouse embryos using desorption electrospray ionization mass spectrometry imaging. Analytical and Bioanalytical Chemistry, 2021, 413, 3573-3582.	3.7	7
5	Integrating the MasSpec Pen with Sub-Atmospheric Pressure Chemical Ionization for Rapid Chemical Analysis and Forensic Applications. Analytical Chemistry, 2021, 93, 7549-7556.	6.5	6
6	Clinical Translation and Evaluation of a Handheld and Biocompatible Mass Spectrometry Probe for Surgical Use. Clinical Chemistry, 2021, 67, 1271-1280.	3.2	10
7	Rapid diagnosis and tumor margin assessment during pancreatic cancer surgery with the MasSpec Pen technology. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	33
8	Rapid Screening of COVID-19 Directly from Clinical Nasopharyngeal Swabs Using the MasSpec Pen. Analytical Chemistry, 2021, 93, 12582-12593.	6.5	12
9	Relative Quantitation of Unsaturated Phosphatidylcholines Using 193 nm Ultraviolet Photodissociation Parallel Reaction Monitoring Mass Spectrometry. Journal of the American Chemical Society, 2021, 143, 14622-14634.	13.7	15
10	Integrating the MasSpec Pen to the da Vinci Surgical System for <i>In Vivo</i> Tissue Analysis during a Robotic Assisted Porcine Surgery. Analytical Chemistry, 2020, 92, 11535-11542.	6.5	47
11	Distinguishing Non-Small Cell Lung Cancer Subtypes in Fine Needle Aspiration Biopsies by Desorption Electrospray Ionization Mass Spectrometry Imaging. Clinical Chemistry, 2020, 66, 1424-1433.	3.2	19
12	Double Bond Characterization of Free Fatty Acids Directly from Biological Tissues by Ultraviolet Photodissociation. Analytical Chemistry, 2020, 92, 8386-8395.	6.5	38
13	Multiplatform Investigation of Plasma and Tissue Lipid Signatures of Breast Cancer Using Mass Spectrometry Tools. International Journal of Molecular Sciences, 2020, 21, 3611.	4.1	16
14	Mass Spectrometry Imaging Enables Discrimination of Renal Oncocytoma from Renal Cell Cancer Subtypes and Normal Kidney Tissues. Cancer Research, 2020, 80, 689-698.	0.9	37
15	Spatially Controlled Molecular Analysis of Biological Samples Using Nanodroplet Arrays and Direct Droplet Aspiration. Journal of the American Society for Mass Spectrometry, 2020, 31, 418-428.	2.8	5
16	Mammalian ovarian lipid distributions by desorption electrospray ionization–mass spectrometry (DESI-MS) imaging. Analytical and Bioanalytical Chemistry, 2020, 412, 1251-1262.	3.7	16
17	DESI-MSI and METASPACE indicates lipid abnormalities and altered mitochondrial membrane components in diabetic renal proximal tubules. Metabolomics, 2020, 16, 11.	3.0	34
18	Electrochemical monitoring of the impact of polymicrobial infections on Pseudomonas aeruginosa and growth dependent medium. Biosensors and Bioelectronics, 2019, 142, 111538.	10.1	36

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19	Molecular Imaging of Endometriosis Tissues using Desorption Electrospray Ionization Mass Spectrometry. Scientific Reports, 2019, 9, 15690.	3.3	20
20	Hybrid 193 nm Ultraviolet Photodissociation Mass Spectrometry Localizes Cardiolipin Unsaturations. Analytical Chemistry, 2019, 91, 12509-12516.	6.5	27
21	Preoperative metabolic classification of thyroid nodules using mass spectrometry imaging of fine-needle aspiration biopsies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21401-21408.	7.1	35
22	The importance of clinical tissue imaging. Clinical Mass Spectrometry, 2019, 12, 47-49.	1.9	6
23	Metabolites and Lipids Associated with Fetal Swine Anatomy via Desorption Electrospray Ionization – Mass Spectrometry Imaging. Scientific Reports, 2019, 9, 7247.	3.3	24
24	Performance of the MasSpec Pen for Rapid Diagnosis of Ovarian Cancer. Clinical Chemistry, 2019, 65, 674-683.	3.2	77
25	Ambient Ionization Mass Spectrometry: Recent Developments and Applications. Analytical Chemistry, 2019, 91, 4266-4290.	6.5	313
26	DESI Spray Stability in the Negative Ion Mode Is Dependent on Relative Humidity. Journal of the American Society for Mass Spectrometry, 2019, 30, 376-380.	2.8	8
27	Real-Time Electrochemical Detection of <i>Pseudomonas aeruginosa</i> Phenazine Metabolites Using Transparent Carbon Ultramicroelectrode Arrays. ACS Sensors, 2019, 4, 170-179.	7.8	61
28	Advances in mass spectrometry imaging coupled to ion mobility spectrometry for enhanced imaging of biological tissues. Current Opinion in Chemical Biology, 2018, 42, 138-146.	6.1	85
29	Multicenter Study Using Desorption-Electrospray-Ionization-Mass-Spectrometry Imaging for Breast-Cancer Diagnosis. Analytical Chemistry, 2018, 90, 11324-11332.	6.5	70
30	Desorption Electrospray Ionization Mass Spectrometry Imaging of Proteins Directly from Biological Tissue Sections. Analytical Chemistry, 2018, 90, 7785-7789.	6.5	104
31	FABP4 as a key determinant of metastatic potential of ovarian cancer. Nature Communications, 2018, 9, 2923.	12.8	151
32	Desorption Electrospray Ionization Coupled with Ultraviolet Photodissociation for Characterization of Phospholipid Isomers in Tissue Sections. Analytical Chemistry, 2018, 90, 10100-10104.	6.5	79
33	Detection of Metastatic Breast and Thyroid Cancer in Lymph Nodes by Desorption Electrospray lonization Mass Spectrometry Imaging. Journal of the American Society for Mass Spectrometry, 2017, 28, 1166-1174.	2.8	49
34	Oncogene KRAS activates fatty acid synthase, resulting in specific ERK and lipid signatures associated with lung adenocarcinoma. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4300-4305.	7.1	110
35	Metabolic Markers and Statistical Prediction of Serous Ovarian Cancer Aggressiveness by Ambient Ionization Mass Spectrometry Imaging. Cancer Research, 2017, 77, 2903-2913.	0.9	106
36	Nondestructive tissue analysis for ex vivo and in vivo cancer diagnosis using a handheld mass spectrometry system. Science Translational Medicine, 2017, 9, .	12.4	286

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37	Will Ambient Ionization Mass Spectrometry Become an Integral Technology in the Operating Room of the Future?. Clinical Chemistry, 2016, 62, 1172-1174.	3.2	19
38	Cardiolipins Are Biomarkers of Mitochondria-Rich Thyroid Oncocytic Tumors. Cancer Research, 2016, 76, 6588-6597.	0.9	63
39	Ambient Ionization and FAIMS Mass Spectrometry for Enhanced Imaging of Multiply Charged Molecular Ions in Biological Tissues. Analytical Chemistry, 2016, 88, 11533-11541.	6.5	93
40	Probabilistic Segmentation of Mass Spectrometry (MS) Images Helps Select Important Ions and Characterize Confidence in the Resulting Segments. Molecular and Cellular Proteomics, 2016, 15, 1761-1772.	3.8	54
41	Forensic Chemistry and Ambient Mass Spectrometry: A Perfect Couple Destined for a Happy Marriage?. Analytical Chemistry, 2016, 88, 2515-2526.	6.5	74
42	Ambient Ionization Mass Spectrometry for Cancer Diagnosis and Surgical Margin Evaluation. Clinical Chemistry, 2016, 62, 111-123.	3.2	143
43	Pancreatic Cancer Surgical Resection Margins: Molecular Assessment by Mass Spectrometry Imaging. PLoS Medicine, 2016, 13, e1002108.	8.4	79
44	Protein Analysis by Ambient Ionization Mass Spectrometry Using Trypsin-Immobilized Organosiloxane Polymer Surfaces. Analytical Chemistry, 2015, 87, 12324-12330.	6.5	12
45	<i>Cardinal</i> : an R package for statistical analysis of mass spectrometry-based imaging experiments. Bioinformatics, 2015, 31, 2418-2420.	4.1	203
46	The Role of Abcb5 Alleles in Susceptibility to Haloperidol-Induced Toxicity in Mice and Humans. PLoS Medicine, 2015, 12, e1001782.	8.4	23
47	MYC oncogene overexpression drives renal cell carcinoma in a mouse model through glutamine metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6539-6544.	7.1	211
48	Molecular assessment of surgical-resection margins of gastric cancer by mass-spectrometric imaging. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2436-2441.	7.1	185
49	Imaging of whole zebra fish (<i>Danio rerio</i>) by desorption electrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 2084-2088.	1.5	19
50	Visualizing Dermal Permeation of Sodium Channel Modulators by Mass Spectrometric Imaging. Journal of the American Chemical Society, 2014, 136, 6401-6405.	13.7	31
51	Alteration of the lipid profile in lymphomas induced by MYC overexpression. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10450-10455.	7.1	118
52	Intraoperative mass spectrometry mapping of an onco-metabolite to guide brain tumor surgery. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11121-11126.	7.1	230
53	DESI-MS Imaging of Lipids and Metabolites from Biological Samples. Methods in Molecular Biology, 2014, 1198, 299-311.	0.9	32
54	A Statistical Modeling Approach for Tumor-Type Identification in Surgical Neuropathology Using Tissue Mass Spectrometry Imaging. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 734-744.	6.3	11

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55	Ambient mass spectrometry for the intraoperative molecular diagnosis of human brain tumors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1611-1616.	7.1	251
56	Chemical Aspects of the Extractive Methods of Ambient Ionization Mass Spectrometry. Annual Review of Physical Chemistry, 2013, 64, 481-505.	10.8	107
57	Mass spectrometry imaging under ambient conditions. Mass Spectrometry Reviews, 2013, 32, 218-243.	5.4	406
58	Mass spectrometry imaging as a tool for surgical decisionâ€making. Journal of Mass Spectrometry, 2013, 48, 1178-1187.	1.6	85
59	Desorption Electrospray Ionization Mass Spectrometry Reveals Lipid Metabolism of Individual Oocytes and Embryos. PLoS ONE, 2013, 8, e74981.	2.5	70
60	Classifying Human Brain Tumors by Lipid Imaging with Mass Spectrometry. Cancer Research, 2012, 72, 645-654.	0.9	273
61	Interactive hyperspectral approach for exploring and interpreting DESI-MS images of cancerous and normal tissue sections. Analyst, The, 2012, 137, 2374.	3.5	53
62	Developmental phases of individual mouse preimplantation embryos characterized by lipid signatures using desorption electrospray ionization mass spectrometry. Analytical and Bioanalytical Chemistry, 2012, 404, 2915-2926.	3.7	54
63	Improved spatial resolution in the imaging of biological tissue using desorption electrospray ionization. Analytical and Bioanalytical Chemistry, 2012, 404, 389-398.	3.7	126
64	Data Processing for 3D Mass Spectrometry Imaging. Journal of the American Society for Mass Spectrometry, 2012, 23, 1147-1156.	2.8	44
65	Tissue imprint imaging by desorption electrospray ionization mass spectrometry. Analytical Methods, 2011, 3, 1910.	2.7	48
66	Desorption Electrospray Ionization then MALDI Mass Spectrometry Imaging of Lipid and Protein Distributions in Single Tissue Sections. Analytical Chemistry, 2011, 83, 8366-8371.	6.5	142
67	Perspectives in imaging using mass spectrometry. Chemical Communications, 2011, 47, 2741-2746.	4.1	63
68	New ionization methods and miniature mass spectrometers for biomedicine: DESI imaging for cancer diagnostics and paper spray ionization for therapeutic drug monitoring. Faraday Discussions, 2011, 149, 247-267.	3.2	110
69	Desorption electrospray ionization mass spectrometry for lipid characterization and biological tissue imaging. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 946-960.	2.4	210
70	Data quality in tissue analysis using desorption electrospray ionization. Analytical and Bioanalytical Chemistry, 2011, 401, 1949-1961.	3.7	52
71	Distinctive Glycerophospholipid Profiles of Human Seminoma and Adjacent Normal Tissues by Desorption Electrospray Ionization Imaging Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2011, 22, 1326-1333.	2.8	49
72	Multivariate Statistical Identification of Human Bladder Carcinomas Using Ambient Ionization Imaging Mass Spectrometry. Chemistry - A European Journal, 2011, 17, 2897-2902.	3.3	99

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73	Nondestructive, Histologically Compatible Tissue Imaging by Desorption Electrospray Ionization Mass Spectrometry. ChemBioChem, 2011, 12, 2129-2132.	2.6	125
74	Multivariate statistical differentiation of renal cell carcinomas based on lipidomic analysis by ambient ionization imaging mass spectrometry. Analytical and Bioanalytical Chemistry, 2010, 398, 2969-2978.	3.7	137
75	Threeâ€Dimensional Vizualization of Mouse Brain by Lipid Analysis Using Ambient Ionization Mass Spectrometry. Angewandte Chemie - International Edition, 2010, 49, 873-876.	13.8	170
76	Discrimination of Human Astrocytoma Subtypes by Lipid Analysis Using Desorption Electrospray Ionization Imaging Mass Spectrometry. Angewandte Chemie - International Edition, 2010, 49, 5953-5956.	13.8	116
77	Instantaneous chemical profiles of banknotes by ambient mass spectrometry. Analyst, The, 2010, 135, 2533.	3.5	84
78	Cholesterol Sulfate Imaging in Human Prostate Cancer Tissue by Desorption Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2010, 82, 3430-3434.	6.5	170
79	Analysis of biodiesel and biodiesel–petrodiesel blends by high performance thin layer chromatography combined with easy ambient sonic-spray ionization mass spectrometry. Analyst, The, 2009, 134, 1652.	3.5	67
80	Organic Reactions of Ionic Intermediates Promoted by Atmosphericâ€Pressure Thermal Activation. Angewandte Chemie - International Edition, 2008, 47, 3422-3425.	13.8	64
81	Atmospheric pressure thermal dissociation of phospho- and sulfopeptides. Journal of the American Society for Mass Spectrometry, 2008, 19, 1897-1905.	2.8	14
82	Recognition of Cyclic, Acyclic, Exocyclic, and Spiro Acetals via Structurally Diagnostic Ion/Molecule Reactions with the (CH3)2N-C+â•O Acylium Ion. Journal of Organic Chemistry, 2008, 73, 5549-5557.	3.2	2
83	Single-Shot Biodiesel Analysis: Nearly Instantaneous Typification and Quality Control Solely by Ambient Mass Spectrometry. Analytical Chemistry, 2008, 80, 7882-7886.	6.5	52
84	Neutral Fragment Mass Spectra via Ambient Thermal Dissociation of Peptide and Protein Ions. Journal of the American Chemical Society, 2007, 129, 5880-5886.	13.7	52
85	Ambient Eberlin reactions via desorption electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2006, 41, 1242-1246.	1.6	33