

Richard M Caprioli

List of Publications by Year in descending order

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Version: 2024-02-01

382
papers

33,018
citations

2802

94
h-index

5255

165
g-index

415
all docs

415
docs citations

415
times ranked

18932
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Multivariate Analysis Approach to Explore Differential Spatial Protein Profiles in Tissue. <i>Journal of Proteome Research</i> , 2023, 22, 1394-1405.	3.7	4
2	Highly multiplexed immunofluorescence of the human kidney using co-detection by indexing. <i>Kidney International</i> , 2022, 101, 137-143.	5.2	27
3	Spatial mapping of protein composition and tissue organization: a primer for multiplexed antibody-based imaging. <i>Nature Methods</i> , 2022, 19, 284-295.	19.0	156
4	Population pharmacokinetic analysis of dexmedetomidine in children using real-world data from electronic health records and remnant specimens. <i>British Journal of Clinical Pharmacology</i> , 2022, 88, 2885-2898.	2.4	7
5	High Spatial Resolution MALDI Imaging Mass Spectrometry of Fresh-Frozen Bone. <i>Analytical Chemistry</i> , 2022, 94, 3165-3172.	6.5	20
6	Referenced Kendrick Mass Defect Annotation and Class-Based Filtering of Imaging MS Lipidomics Experiments. <i>Analytical Chemistry</i> , 2022, 94, 5504-5513.	6.5	4
7	Pyridine nucleotide redox potential in coronary smooth muscle couples myocardial blood flow to cardiac metabolism. <i>Nature Communications</i> , 2022, 13, 2051.	12.8	5
8	Multimodal Imaging Mass Spectrometry of Murine Gastrointestinal Tract with Retained Luminal Content. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1073-1076.	2.8	2
9	Fundamental aspects of long-acting tenofovir alafenamide delivery from subdermal implants for HIV prophylaxis. <i>Scientific Reports</i> , 2022, 12, 8224.	3.3	5
10	Zn-regulated GTPase metalloprotein activator 1 modulates vertebrate zinc homeostasis. <i>Cell</i> , 2022, 185, 2148-2163.e27.	28.9	39
11	Visualizing <i>Staphylococcus aureus</i> pathogenic membrane modification within the host infection environment by multimodal imaging mass spectrometry. <i>Cell Chemical Biology</i> , 2022, 29, 1209-1217.e4.	5.2	4
12	Spatially Targeted Proteomics of the Host-Pathogen Interface during <i>Staphylococcal</i> Abscess Formation. <i>ACS Infectious Diseases</i> , 2021, 7, 101-113.	3.8	17
13	Impact of temperature-dependent phage expression on <i>Pseudomonas aeruginosa</i> biofilm formation. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 22.	6.4	24
14	An orthogonal methods assessment of topical drug concentrations in skin and the impact for risk assessment in the viable epidermis. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 123, 104934.	2.7	2
15	Diagnosis of melanoma by imaging mass spectrometry: Development and validation of a melanoma prediction model. <i>Journal of Cutaneous Pathology</i> , 2021, 48, 1455-1462.	1.3	8
16	Molecular Mapping of Neutral Lipids Using Silicon Nanopost Arrays and TIMS Imaging Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2519-2527.	2.8	5
17	Î±-Cyano-4-hydroxycinnamic Acid and Tri-Potassium Citrate Salt Pre-Coated Silicon Nanopost Array Provides Enhanced Lipid Detection for High Spatial Resolution MALDI Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 12243-12249.	6.5	9
18	Automated biomarker candidate discovery in imaging mass spectrometry data through spatially localized Shapley additive explanations. <i>Analytica Chimica Acta</i> , 2021, 1177, 338522.	5.4	20

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19	Enhancement of Tryptic Peptide Signals from Tissue Sections Using MALDI IMS Postionization (MALDI-2). <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2583-2591.	2.8	14
20	<i>Clostridioides difficile</i> infection induces a rapid influx of bile acids into the gut during colonization of the host. <i>Cell Reports</i> , 2021, 36, 109683.	6.4	16
21	Protocol for multimodal analysis of human kidney tissue by imaging mass spectrometry and CODEX multiplexed immunofluorescence. <i>STAR Protocols</i> , 2021, 2, 100747.	1.2	14
22	Dear friends and colleagues. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4801.	1.6	0
23	Probiotics Modulate a Novel Amphibian Skin Defense Peptide That Is Antifungal and Facilitates Growth of Antifungal Bacteria. <i>Microbial Ecology</i> , 2020, 79, 192-202.	2.8	44
24	Unsupervised machine learning for exploratory data analysis in imaging mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2020, 39, 245-291.	5.4	147
25	Uncovering matrix effects on lipid analyses in MALDI imaging mass spectrometry experiments. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4491.	1.6	48
26	Modulating Isoprenoid Biosynthesis Increases Lipooligosaccharides and Restores <i>Acinetobacter baumannii</i> Resistance to Host and Antibiotic Stress. <i>Cell Reports</i> , 2020, 32, 108129.	6.4	14
27	Spatial Metabolomics of the Human Kidney using MALDI Trapped Ion Mobility Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 13084-13091.	6.5	49
28	Multimodal Imaging Mass Spectrometry: Next Generation Molecular Mapping in Biology and Medicine. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2401-2415.	2.8	68
29	Accumulation of long-chain fatty acids in the tumor microenvironment drives dysfunction in intrapancreatic CD8+ T cells. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	142
30	Dynamic Range Expansion by Gas-Phase Ion Fractionation and Enrichment for Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 13092-13100.	6.5	17
31	Resolving the Complexity of Spatial Lipidomics Using MALDI TIMS Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 13290-13297.	6.5	70
32	Brain delivery and activity of a lysosomal enzyme using a blood-brain barrier transport vehicle in mice. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	121
33	Lipid Landscape of the Human Retina and Supporting Tissues Revealed by High-Resolution Imaging Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2426-2436.	2.8	28
34	Integrating ion mobility and imaging mass spectrometry for comprehensive analysis of biological tissues: A brief review and perspective. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4614.	1.6	31
35	Histopathologic, immunophenotypic, and proteomics characteristics of low-grade phyllodes tumor and fibroadenoma: more similarities than differences. <i>Npj Breast Cancer</i> , 2020, 6, 27.	5.2	19
36	Integrated molecular imaging technologies for investigation of metals in biological systems: A brief review. <i>Current Opinion in Chemical Biology</i> , 2020, 55, 127-135.	6.1	17

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37	Combined Src/EGFR Inhibition Targets STAT3 Signaling and Induces Stromal Remodeling to Improve Survival in Pancreatic Cancer. <i>Molecular Cancer Research</i> , 2020, 18, 623-631.	3.4	32
38	Discovering New Lipidomic Features Using Cell Type Specific Fluorophore Expression to Provide Spatial and Biological Specificity in a Multimodal Workflow with MALDI Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 7079-7086.	6.5	26
39	Effect of MALDI matrices on lipid analyses of biological tissues using MALDI postionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4663.	1.6	29
40	Sample Preparation and Analysis of Single Cells Using High Performance MALDI FTICR Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2020, 2064, 125-134.	0.9	10
41	Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry: Technology and Applications. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2020, , 109-128.	0.5	1
42	Multiple TOF/TOF events in a single laser shot for multiplexed lipid identifications in MALDI imaging mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2019, 437, 30-37.	1.5	12
43	A recommended and verified procedure for <i>in situ</i> tryptic digestion of formalin-fixed paraffin-embedded tissues for analysis by matrix-assisted laser desorption/ionization imaging mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2019, 54, 716-727.	1.6	32
44	High-Performance Molecular Imaging with MALDI Trapped Ion-Mobility Time-of-Flight (timsTOF) Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 14552-14560.	6.5	148
45	<i>Staphylococcus aureus</i> exhibits heterogeneous siderophore production within the vertebrate host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21980-21982.	7.1	62
46	Combining Salt Doping and Matrix Sublimation for High Spatial Resolution MALDI Imaging Mass Spectrometry of Neutral Lipids. <i>Analytical Chemistry</i> , 2019, 91, 12928-12934.	6.5	43
47	Combining MALDI and transmission geometry laser optics to achieve high sensitivity for ultra-high spatial resolution surface analysis. <i>Journal of Mass Spectrometry</i> , 2019, 54, 366-370.	1.6	35
48	Two Specific Sulfatide Species Are Dysregulated during Renal Development in a Mouse Model of Alport Syndrome. <i>Lipids</i> , 2019, 54, 411-418.	1.7	10
49	MicroLESA: Integrating Autofluorescence Microscopy, In Situ Micro-Digestions, and Liquid Extraction Surface Analysis for High Spatial Resolution Targeted Proteomic Studies. <i>Analytical Chemistry</i> , 2019, 91, 7578-7585.	6.5	51
50	Zinc intoxication induces ferroptosis in A549 human lung cells. <i>Metallomics</i> , 2019, 11, 982-993.	2.4	37
51	Imaging Mass Spectrometry: A Perspective. <i>Journal of Biomolecular Techniques</i> , 2019, 30, 7-11.	1.5	32
52	Imaging mass spectrometry enables molecular profiling of mouse and human pancreatic tissue. <i>Diabetologia</i> , 2019, 62, 1036-1047.	6.3	33
53	Precision Medicine in Pancreatic Disease—Knowledge Gaps and Research Opportunities. <i>Pancreas</i> , 2019, 48, 1250-1258.	1.1	9
54	Protein identification strategies in MALDI imaging mass spectrometry: a brief review. <i>Current Opinion in Chemical Biology</i> , 2019, 48, 64-72.	6.1	121

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55	Discerning the Primary Carcinoma in Malignant Peritoneal and Pleural Effusions Using Imaging Mass Spectrometry—A Feasibility Study. <i>Proteomics - Clinical Applications</i> , 2019, 13, 1800064.	1.6	10
56	Enhanced Ion Transmission Efficiency up to 24×10^4 for MALDI Protein Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 5090-5099.	6.5	41
57	Protein identification in imaging mass spectrometry through spatially targeted liquid microextractions. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 442-450.	1.5	27
58	Pyruvate induces torpor in obese mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 810-815.	7.1	18
59	Regional differences in brain glucose metabolism determined by imaging mass spectrometry. <i>Molecular Metabolism</i> , 2018, 12, 113-121.	6.5	40
60	Integrated molecular imaging reveals tissue heterogeneity driving host-pathogen interactions. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	58
61	Single-Cell Mass Spectrometry Reveals Changes in Lipid and Metabolite Expression in RAW 264.7 Cells upon Lipopolysaccharide Stimulation. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1012-1020.	2.8	32
62	Beyond the H&E: Advanced Technologies for in situ Tissue Biomarker Imaging. <i>ILAR Journal</i> , 2018, 59, 51-65.	1.8	10
63	Heme sensing and detoxification by HatRT contributes to pathogenesis during <i>Clostridium difficile</i> infection. <i>PLoS Pathogens</i> , 2018, 14, e1007486.	4.7	34
64	Post-translational modification of ApoA-1 in metabolic syndrome. <i>Free Radical Biology and Medicine</i> , 2018, 128, S34.	2.9	0
65	Advanced Registration and Analysis of MALDI Imaging Mass Spectrometry Measurements through Autofluorescence Microscopy. <i>Analytical Chemistry</i> , 2018, 90, 12395-12403.	6.5	78
66	Next Generation Histology-Directed Imaging Mass Spectrometry Driven by Autofluorescence Microscopy. <i>Analytical Chemistry</i> , 2018, 90, 12404-12413.	6.5	46
67	Imaging mass spectrometry reveals direct albumin fragmentation within the diabetic kidney. <i>Kidney International</i> , 2018, 94, 292-302.	5.2	7
68	Optic Nerve Regeneration After Crush Remodels the Injury Site: Molecular Insights From Imaging Mass Spectrometry. , 2018, 59, 212.		19
69	Micro-Data-Independent Acquisition for High-Throughput Proteomics and Sensitive Peptide Mass Spectrum Identification. <i>Analytical Chemistry</i> , 2018, 90, 8905-8911.	6.5	19
70	An Integrated, High-Throughput Strategy for Multiomic Systems Level Analysis. <i>Journal of Proteome Research</i> , 2018, 17, 3396-3408.	3.7	32
71	Novel vacuum stable ketone-based matrices for high spatial resolution MALDI imaging mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2018, 53, 1005-1012.	1.6	22
72	Integrated, High-Throughput, Multiomics Platform Enables Data-Driven Construction of Cellular Responses and Reveals Global Drug Mechanisms of Action. <i>Journal of Proteome Research</i> , 2017, 16, 1364-1375.	3.7	34

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73	Connecting imaging mass spectrometry and magnetic resonance imaging-based anatomical atlases for automated anatomical interpretation and differential analysis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 967-977.	2.3	44
74	Enhanced Spatially Resolved Proteomics Using On-Tissue Hydrogel-Mediated Protein Digestion. <i>Analytical Chemistry</i> , 2017, 89, 2948-2955.	6.5	27
75	Mass Spectrometry Imaging Can Distinguish on a Proteomic Level Between Proliferative Nodules Within a Benign Congenital Nevus and Malignant Melanoma. <i>American Journal of Dermatopathology</i> , 2017, 39, 689-695.	0.6	22
76	Imaging MS of Rodent Ocular Tissues and the Optic Nerve. <i>Methods in Molecular Biology</i> , 2017, 1618, 15-27.	0.9	7
77	Dietary Manganese Promotes Staphylococcal Infection of the Heart. <i>Cell Host and Microbe</i> , 2017, 22, 531-542.e8.	11.0	51
78	Label-free molecular imaging of the kidney. <i>Kidney International</i> , 2017, 92, 580-598.	5.2	24
79	Bis(monoacylglycero)phosphate lipids in the retinal pigment epithelium implicate lysosomal/endosomal dysfunction in a model of Stargardt disease and human retinas. <i>Scientific Reports</i> , 2017, 7, 17352.	3.3	37
80	The Use of Multiple Fragmentation Events in a Single Laser Shot for Improved Drug Quantification by MALDI TOF/TOF Mass Spectrometry. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2017, , 269-276.	0.5	0
81	Imaging Mass Spectrometry – Molecular Microscopy for Biological and Clinical Research. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2017, , 115-132.	0.5	4
82	Spatial distributions of glutathione and its endogenous conjugates in normal bovine lens and a model of lens aging. <i>Experimental Eye Research</i> , 2017, 154, 70-78.	2.6	30
83	Absolute Quantification of Rifampicin by MALDI Imaging Mass Spectrometry Using Multiple TOF/TOF Events in a Single Laser Shot. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 136-144.	2.8	56
84	Histology-guided protein digestion/extraction from formalin-fixed and paraffin-embedded pressure ulcer biopsies. <i>Experimental Dermatology</i> , 2016, 25, 143-146.	2.9	16
85	Imaging mass spectrometry for accessing molecular changes during burn wound healing. <i>Wound Repair and Regeneration</i> , 2016, 24, 775-785.	3.0	8
86	Pragmatic pharmacology: population pharmacokinetic analysis of fentanyl using remnant samples from children after cardiac surgery. <i>British Journal of Clinical Pharmacology</i> , 2016, 81, 1165-1174.	2.4	30
87	The Development of Imaging Mass Spectrometry. , 2016, , 285-304.		3
88	Potential of MALDI imaging for the toxicological evaluation of environmental pollutants. <i>Journal of Proteomics</i> , 2016, 144, 133-139.	2.4	32
89	Multiple Time-of-Flight/Time-of-Flight Events in a Single Laser Shot for Improved Matrix-Assisted Laser Desorption/Ionization Tandem Mass Spectrometry Quantification. <i>Analytical Chemistry</i> , 2016, 88, 9780-9788.	6.5	12
90	Dietary zinc alters the microbiota and decreases resistance to <i>Clostridium difficile</i> infection. <i>Nature Medicine</i> , 2016, 22, 1330-1334.	30.7	201

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91	Life history linked to immune investment in developing amphibians. , 2016, 4, cow025.		28
92	Trypsin and MALDI matrix pre-coated targets simplify sample preparation for mapping proteomic distributions within biological tissues by imaging mass spectrometry. Journal of Mass Spectrometry, 2016, 51, 1168-1179.	1.6	19
93	Standard Reticle Slide To Objectively Evaluate Spatial Resolution and Instrument Performance in Imaging Mass Spectrometry. Analytical Chemistry, 2016, 88, 7302-7311.	6.5	10
94	Imaging mass spectrometry assists in the classification of diagnostically challenging atypical Spitzoid neoplasms. Journal of the American Academy of Dermatology, 2016, 75, 1176-1186.e4.	1.2	38
95	The innate immune protein calprotectin promotes Pseudomonas aeruginosa and Staphylococcus aureus interaction. Nature Communications, 2016, 7, 11951.	12.8	114
96	Next-generation technologies for spatial proteomics: Integrating ultra-high speed MALDI-TOF and high mass resolution MALDI FTICR imaging mass spectrometry for protein analysis. Proteomics, 2016, 16, 1678-1689.	2.2	123
97	3-D imaging mass spectrometry of protein distributions in mouse Neurofibromatosis 1 (NF1)-associated optic glioma. Journal of Proteomics, 2016, 149, 77-84.	2.4	17
98	Imaging mass spectrometry: Molecular microscopy for the new age of biology and medicine. Proteomics, 2016, 16, 1607-1612.	2.2	48
99	Absolute Quantitative MALDI Imaging Mass Spectrometry: A Case of Rifampicin in Liver Tissues. Analytical Chemistry, 2016, 88, 2392-2398.	6.5	145
100	Phospholipid profiling identifies acyl chain elongation as a ubiquitous trait and potential target for the treatment of lung squamous cell carcinoma. Oncotarget, 2016, 7, 12582-12597.	1.8	58
101	Pathology interface for the molecular analysis of tissue by mass spectrometry. Journal of Pathology Informatics, 2016, 7, 13.	1.7	11
102	The Need for Speed in Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry. Postdoc Journal, 2016, 4, 3-13.	0.4	17
103	MALDI Imaging Mass Spectrometry as a Lipidomic Approach to Heart Valve Research. Journal of Heart Valve Disease, 2016, 25, 240-252.	0.5	13
104	Decellularization of intact tissue enables MALDI imaging mass spectrometry analysis of the extracellular matrix. Journal of Mass Spectrometry, 2015, 50, 1288-1293.	1.6	32
105	Congenital nevi versus metastatic melanoma in a newborn to a mother with malignant melanoma—diagnosis supported by sex chromosome analysis and Imaging Mass Spectrometry. Journal of Cutaneous Pathology, 2015, 42, 757-764.	1.3	21
106	MALDI FTICR IMS of Intact Proteins: Using Mass Accuracy to Link Protein Images with Proteomics Data. Journal of the American Society for Mass Spectrometry, 2015, 26, 974-985.	2.8	95
107	EXIMS: an improved data analysis pipeline based on a new peak picking method for EXploring Imaging Mass Spectrometry data. Bioinformatics, 2015, 31, 3198-3206.	4.1	31
108	Histology-Directed Microwave Assisted Enzymatic Protein Digestion for MALDI MS Analysis of Mammalian Tissue. Analytical Chemistry, 2015, 87, 670-676.	6.5	28

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109	Image fusion of mass spectrometry and microscopy: a multimodality paradigm for molecular tissue mapping. <i>Nature Methods</i> , 2015, 12, 366-372.	19.0	240
110	Tissue protein imaging at 1 μ m laser spot diameter for high spatial resolution and high imaging speed using transmission geometry MALDI TOF MS. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2337-2342.	3.7	149
111	Peptide spectra in Wilms tumor that associate with adverse outcomes. <i>Journal of Surgical Research</i> , 2015, 196, 332-338.	1.6	4
112	Histology-directed and imaging mass spectrometry: An emerging technology in ectopic calcification. <i>Bone</i> , 2015, 74, 83-94.	2.9	30
113	Adhesive Fiber Stratification in Uropathogenic <i>Escherichia coli</i> Biofilms Unveils Oxygen-Mediated Control of Type 1 Pili. <i>PLoS Pathogens</i> , 2015, 11, e1004697.	4.7	78
114	Non-small cell lung cancer is characterized by dramatic changes in phospholipid profiles. <i>International Journal of Cancer</i> , 2015, 137, 1539-1548.	5.1	143
115	High spatial resolution proteomic comparison of the brain in humans and chimpanzees. <i>Journal of Comparative Neurology</i> , 2015, 523, 2043-2061.	1.6	18
116	Imaging Mass Spectrometry: Enabling a New Age of Discovery in Biology and Medicine Through Molecular Microscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 850-852.	2.8	27
117	High-speed MALDI MS/MS imaging mass spectrometry using continuous raster sampling. <i>Journal of Mass Spectrometry</i> , 2015, 50, 703-710.	1.6	85
118	Are clear cell carcinomas of the ovary and endometrium phenotypically identical? A proteomic analysis. <i>Human Pathology</i> , 2015, 46, 1427-1436.	2.0	12
119	Signal Transducer and Activator of Transcription 3, Mediated Remodeling of the Tumor Microenvironment Results in Enhanced Tumor Drug Delivery in a Mouse Model of Pancreatic Cancer. <i>Gastroenterology</i> , 2015, 149, 1932-1943.e9.	1.3	151
120	Imaging Mass Spectrometry for Assessing Cutaneous Wound Healing: Analysis of Pressure Ulcers. <i>Journal of Proteome Research</i> , 2015, 14, 986-996.	3.7	35
121	David Rittenberg. , 2015, , 177.		0
122	Imaging mass spectrometry: Molecular microscopy for enabling a new age of discovery. <i>Proteomics</i> , 2014, 14, 807-809.	2.2	23
123	MALDI imaging mass spectrometry: Spatial molecular analysis to enable a new age of discovery. <i>Journal of Proteomics</i> , 2014, 107, 71-82.	2.4	230
124	Matrix pre-coated targets for high throughput MALDI imaging of proteins. <i>Journal of Mass Spectrometry</i> , 2014, 49, 417-422.	1.6	23
125	Acyl-Coenzyme A Binding Protein Regulates Beta-Oxidation Required for Growth and Survival of Non-Small Cell Lung Cancer. <i>Cancer Prevention Research</i> , 2014, 7, 748-757.	1.5	36
126	Automated Anatomical Interpretation of Ion Distributions in Tissue: Linking Imaging Mass Spectrometry to Curated Atlases. <i>Analytical Chemistry</i> , 2014, 86, 8974-8982.	6.5	37

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127	A derivatization and validation strategy for determining the spatial localization of endogenous amine metabolites in tissues using MALDI imaging mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2014, 49, 665-673.	1.6	81
128	Advanced mass spectrometry technologies for the study of microbial pathogenesis. <i>Current Opinion in Microbiology</i> , 2014, 19, 45-51.	5.1	34
129	Implementation of a Gaussian Beam Laser and Aspheric Optics for High Spatial Resolution MALDI Imaging MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1079-1082.	2.8	46
130	High Resolution MALDI Imaging Mass Spectrometry of Retinal Tissue Lipids. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1394-1403.	2.8	92
131	Diabetic nephropathy induces alterations in the glomerular and tubule lipid profiles. <i>Journal of Lipid Research</i> , 2014, 55, 1375-1385.	4.2	95
132	Towards automated discrimination of lipids versus peptides from full scan mass spectra. <i>EuPA Open Proteomics</i> , 2014, 4, 87-100.	2.5	6
133	Race Disparities in Peptide Profiles of North American and Kenyan Wilms Tumor Specimens. <i>Journal of the American College of Surgeons</i> , 2014, 218, 707-720.	0.5	26
134	Co-registration of multi-modality imaging allows for comprehensive analysis of tumor-induced bone disease. <i>Bone</i> , 2014, 61, 208-216.	2.9	26
135	Imaging mass spectrometry for assessing temporal proteomics: Analysis of calprotectin in <i>Acinetobacter baumannii</i> pulmonary infection. <i>Proteomics</i> , 2014, 14, 820-828.	2.2	48
136	MALDI Imaging Mass Spectrometry. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2014, , 99-113.	0.5	0
137	Targeted Multiplex Imaging Mass Spectrometry in Transmission Geometry for Subcellular Spatial Resolution. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 609-614.	2.8	49
138	MALDI Imaging and in Situ Identification of Integral Membrane Proteins from Rat Brain Tissue Sections. <i>Analytical Chemistry</i> , 2013, 85, 7191-7196.	6.5	41
139	Imaging mass spectrometry: A new tool for pathology in a molecular age. <i>Proteomics - Clinical Applications</i> , 2013, 7, 733-738.	1.6	67
140	An LC-MS assay for the screening of cardiovascular medications in human samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 937, 44-53.	2.3	35
141	Imaging the Clear Cell Renal Cell Carcinoma Proteome. <i>Journal of Urology</i> , 2013, 189, 1097-1103.	0.4	40
142	Imaging Mass Spectrometry of Intact Biomolecules in Tissue Sections. , 2013, , 393-406.		0
143	Matrix-Assisted Laser Desorption Ionization Imaging Mass Spectrometry: In Situ Molecular Mapping. <i>Biochemistry</i> , 2013, 52, 3818-3828.	2.5	118
144	Analysis of Tissue Specimens by Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry in Biological and Clinical Research. <i>Chemical Reviews</i> , 2013, 113, 2309-2342.	47.7	585

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145	Identification of promethazine as an amyloid-binding molecule using a fluorescence high-throughput assay and MALDI imaging mass spectrometry. <i>NeuroImage: Clinical</i> , 2013, 2, 620-629.	2.7	20
146	Localized in Situ Hydrogel-Mediated Protein Digestion and Extraction Technique for on-Tissue Analysis. <i>Analytical Chemistry</i> , 2013, 85, 2717-2723.	6.5	46
147	Matrix Precoated Targets for Direct Lipid Analysis and Imaging of Tissue. <i>Analytical Chemistry</i> , 2013, 85, 2907-2912.	6.5	44
148	Laser Beam Filtration for High Spatial Resolution MALDI Imaging Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1153-1156.	2.8	75
149	MntABC and MntH Contribute to Systemic <i>Staphylococcus aureus</i> Infection by Competing with Calprotectin for Nutrient Manganese. <i>Infection and Immunity</i> , 2013, 81, 3395-3405.	2.2	173
150	Activation of heme biosynthesis by a small molecule that is toxic to fermenting <i>Staphylococcus aureus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8206-8211.	7.1	40
151	Proteomic patterns of colonic mucosal tissues delineate Crohn's colitis and ulcerative colitis. <i>Proteomics - Clinical Applications</i> , 2013, 7, 541-549.	1.6	48
152	Winners of the 2012 JMS award. <i>Journal of Mass Spectrometry</i> , 2013, 48, 287-290.	1.6	0
153	Differential Intrahepatic Phospholipid Zonation in Simple Steatosis and Nonalcoholic Steatohepatitis. <i>PLoS ONE</i> , 2013, 8, e57165.	2.5	57
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