# Richard M Caprioli

# 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.

27,626 88 376 155 h-index g-index citations papers 6.6 7.28 30,335 414 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
376	Pyridine nucleotide redox potential in coronary smooth muscle couples myocardial blood flow to cardiac metabolism <i>Nature Communications</i> , <b>2022</b> , 13, 2051	17.4	Ο
375	Fundamental aspects of long-acting tenofovir alafenamide delivery from subdermal implants for HIV prophylaxis <i>Scientific Reports</i> , <b>2022</b> , 12, 8224	4.9	1
374	Zn-regulated GTPase metalloprotein activator 1 modulates vertebrate zinc homeostasis <i>Cell</i> , <b>2022</b>	56.2	5
373	Spatial mapping of protein composition and tissue organization: a primer for multiplexed antibody-based imaging. <i>Nature Methods</i> , <b>2021</b> ,	21.6	6
372	Highly multiplexed immunofluorescence of the human kidney using co-detection by indexing. <i>Kidney International</i> , <b>2021</b> ,	9.9	4
371	Impact of temperature-dependent phage expression on Pseudomonas aeruginosa biofilm formation. <i>Npj Biofilms and Microbiomes</i> , <b>2021</b> , 7, 22	8.2	5
370	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> , <b>2021</b> , 123, 104934	3.4	1
369	Spatially Targeted Proteomics of the Host-Pathogen Interface during Staphylococcal Abscess Formation. <i>ACS Infectious Diseases</i> , <b>2021</b> , 7, 101-113	5.5	5
368	Diagnosis of melanoma by imaging mass spectrometry: Development and validation of a melanoma prediction model. <i>Journal of Cutaneous Pathology</i> , <b>2021</b> , 48, 1455-1462	1.7	3
367	Molecular Mapping of Neutral Lipids Using Silicon Nanopost Arrays and TIMS Imaging Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 2519-2527	3.5	2
366	Ecyano-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> , <b>2021</b> , 93, 12243-12249	7.8	3
365	Automated biomarker candidate discovery in imaging mass spectrometry data through spatially localized Shapley additive explanations. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1177, 338522	6.6	4
364	Enhancement of Tryptic Peptide Signals from Tissue Sections Using MALDI IMS Postionization (MALDI-2). <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 2583-2591	3.5	2
363	Clostridioides difficile infection induces a rapid influx of bile acids into the gut during colonization of the host. <i>Cell Reports</i> , <b>2021</b> , 36, 109683	10.6	2
362	Protocol for multimodal analysis of human kidney tissue by imaging mass spectrometry and CODEX multiplexed immunofluorescence. <i>STAR Protocols</i> , <b>2021</b> , 2, 100747	1.4	2
361	Brain delivery and activity of a lysosomal enzyme using a blood-brain barrier transport vehicle in mice. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	57
360	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> , <b>2020</b> , 31, 2426-2436	3.5	12

# (2019-2020)

359	Integrating ion mobility and imaging mass spectrometry for comprehensive analysis of biological tissues: A brief review and perspective. <i>Journal of Mass Spectrometry</i> , <b>2020</b> , 55, e4614	2.2	15
358	Histopathologic, immunophenotypic, and proteomics characteristics of low-grade phyllodes tumor and fibroadenoma: more similarities than differences. <i>Npj Breast Cancer</i> , <b>2020</b> , 6, 27	7.8	7
357	Integrated molecular imaging technologies for investigation of metals in biological systems: A brief review. <i>Current Opinion in Chemical Biology</i> , <b>2020</b> , 55, 127-135	9.7	8
356	Combined Src/EGFR Inhibition Targets STAT3 Signaling and Induces Stromal Remodeling to Improve Survival in Pancreatic Cancer. <i>Molecular Cancer Research</i> , <b>2020</b> , 18, 623-631	6.6	17
355	Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry: Technology and Applications. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , <b>2020</b> , 109-128	0.1	
354	Sample Preparation and Analysis of Single Cells Using High Performance MALDI FTICR Mass Spectrometry. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2064, 125-134	1.4	6
353	Unsupervised machine learning for exploratory data analysis in imaging mass spectrometry. <i>Mass Spectrometry Reviews</i> , <b>2020</b> , 39, 245-291	11	64
352	Uncovering matrix effects on lipid analyses in MALDI imaging mass spectrometry experiments. <i>Journal of Mass Spectrometry</i> , <b>2020</b> , 55, e4491	2.2	26
351	Modulating Isoprenoid Biosynthesis Increases Lipooligosaccharides and Restores Acinetobacter baumannii Resistance to Host and Antibiotic Stress. <i>Cell Reports</i> , <b>2020</b> , 32, 108129	10.6	2
350	Spatial Metabolomics of the Human Kidney using MALDI Trapped Ion Mobility Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13084-13091	7.8	21
349	Multimodal Imaging Mass Spectrometry: Next Generation Molecular Mapping in Biology and Medicine. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2020</b> , 31, 2401-2415	3.5	19
348	Accumulation of long-chain fatty acids in the tumor microenvironment drives dysfunction in intrapancreatic CD8+ T cells. <i>Journal of Experimental Medicine</i> , <b>2020</b> , 217,	16.6	37
347	Dynamic Range Expansion by Gas-Phase Ion Fractionation and Enrichment for Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13092-13100	7.8	4
346	Resolving the Complexity of Spatial Lipidomics Using MALDI TIMS Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 13290-13297	7.8	21
345	Probiotics Modulate a Novel Amphibian Skin Defense Peptide That Is Antifungal and Facilitates Growth of Antifungal Bacteria. <i>Microbial Ecology</i> , <b>2020</b> , 79, 192-202	4.4	14
344	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> , <b>2020</b> , 92, 7079-7086	7.8	15
343	Effect of MALDI matrices on lipid analyses of biological tissues using MALDI-2 postionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2020</b> , 55, e4663	2.2	5
342	Combining Salt Doping and Matrix Sublimation for High Spatial Resolution MALDI Imaging Mass Spectrometry of Neutral Lipids. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 12928-12934	7.8	22

341	Combining MALDI-2 and transmission geometry laser optics to achieve high sensitivity for ultra-high spatial resolution surface analysis. <i>Journal of Mass Spectrometry</i> , <b>2019</b> , 54, 366-370	2.2	21
340	Two Specific Sulfatide Species Are Dysregulated during Renal Development in a Mouse Model of Alport Syndrome. <i>Lipids</i> , <b>2019</b> , 54, 411-418	1.6	1
339	MicroLESA: Integrating Autofluorescence Microscopy, In Situ Micro-Digestions, and Liquid Extraction Surface Analysis for High Spatial Resolution Targeted Proteomic Studies. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7578-7585	7.8	29
338	Zinc intoxication induces ferroptosis in A549 human lung cells. <i>Metallomics</i> , <b>2019</b> , 11, 982-993	4.5	15
337	Imaging Mass Spectrometry: A Perspective. <i>Journal of Biomolecular Techniques</i> , <b>2019</b> , 30, 7-11	1.1	13
336	Imaging mass spectrometry enables molecular profiling of mouse and human pancreatic tissue. <i>Diabetologia</i> , <b>2019</b> , 62, 1036-1047	10.3	23
335	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> , <b>2019</b> , 437, 30-37	1.9	8
334	A recommended and verified procedure for in situ 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> , <b>2019</b> , 54, 716-727	2.2	19
333	High-Performance Molecular Imaging with MALDI Trapped Ion-Mobility Time-of-Flight (timsTOF) Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 14552-14560	7.8	67
332	exhibits heterogeneous siderophore production within the vertebrate host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 21980-21982	11.5	36
331	Precision Medicine in Pancreatic Disease-Knowledge Gaps and Research Opportunities: Summary of a National Institute of Diabetes and Digestive and Kidney Diseases Workshop. <i>Pancreas</i> , <b>2019</b> , 48, 1250-	- <del>72</del> 58	6
330	Protein identification strategies in MALDI imaging mass spectrometry: a brief review. <i>Current Opinion in Chemical Biology</i> , <b>2019</b> , 48, 64-72	9.7	71
329	Discerning the Primary Carcinoma in Malignant Peritoneal and Pleural Effusions Using Imaging Mass Spectrometry-A Feasibility Study. <i>Proteomics - Clinical Applications</i> , <b>2019</b> , 13, e1800064	3.1	5
328	Enhanced Ion Transmission Efficiency up to m/ z 24 000 for MALDI Protein Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5090-5099	7.8	26
327	Protein identification in imaging mass spectrometry through spatially targeted liquid micro-extractions. <i>Rapid Communications in Mass Spectrometry</i> , <b>2018</b> , 32, 442-450	2.2	22
326	Pyruvate induces torpor in obese mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 810-815	11.5	11
325	Regional differences in brain glucose metabolism determined by imaging mass spectrometry. <i>Molecular Metabolism</i> , <b>2018</b> , 12, 113-121	8.8	26
324	Integrated molecular imaging reveals tissue heterogeneity driving host-pathogen interactions. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	39

#### (2017-2018)

323	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> , <b>2018</b> , 29, 1012-1020	3.5	18
322	Optic Nerve Regeneration After Crush Remodels the Injury Site: Molecular Insights From Imaging Mass Spectrometry <b>2018</b> , 59, 212-222		11
321	Micro-Data-Independent Acquisition for High-Throughput Proteomics and Sensitive Peptide Mass Spectrum Identification. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 8905-8911	7.8	12
320	An Integrated, High-Throughput Strategy for Multiomic Systems Level Analysis. <i>Journal of Proteome Research</i> , <b>2018</b> , 17, 3396-3408	5.6	21
319	Novel vacuum stable ketone-based matrices for high spatial resolution MALDI imaging mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2018</b> , 53, 1005-1012	2.2	13
318	Beyond the H&E: Advanced Technologies for in situ Tissue Biomarker Imaging. <i>ILAR Journal</i> , <b>2018</b> , 59, 51-65	1.7	6
317	Heme sensing and detoxification by HatRT contributes to pathogenesis during Clostridium difficile infection. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007486	7.6	17
316	Advanced Registration and Analysis of MALDI Imaging Mass Spectrometry Measurements through Autofluorescence Microscopy. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 12395-12403	7.8	45
315	Next Generation Histology-Directed Imaging Mass Spectrometry Driven by Autofluorescence Microscopy. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 12404-12413	7.8	30
314	Imaging mass spectrometry reveals direct albumin fragmentation within the diabetic kidney. <i>Kidney International</i> , <b>2018</b> , 94, 292-302	9.9	5
313	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> , <b>2017</b> , 16, 136	54 <sup>5</sup> 137.	5 <sup>25</sup>
312	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> , <b>2017</b> , 1865, 967-977	4	31
311	Enhanced Spatially Resolved Proteomics Using On-Tissue Hydrogel-Mediated Protein Digestion. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2948-2955	7.8	22
310	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> , <b>2017</b> , 39, 689-695	0.9	13
309	Imaging MS of Rodent Ocular Tissues and the Optic Nerve. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1618, 15-27	1.4	4
308	Dietary Manganese Promotes Staphylococcal Infection of the Heart. <i>Cell Host and Microbe</i> , <b>2017</b> , 22, 531-542.e8	23.4	37
307	Label-free molecular imaging of the kidney. <i>Kidney International</i> , <b>2017</b> , 92, 580-598	9.9	16
306	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> <b>2017</b> , 7, 17352	4.9	25

305	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> , <b>2017</b> , 269-276	0.1	
304	Imaging Mass Spectrometry IMolecular Microscopy for Biological and Clinical Research. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , <b>2017</b> , 115-132	0.1	2
303	Spatial distributions of glutathione and its endogenous conjugates in normal bovine lens and a model of lens aging. <i>Experimental Eye Research</i> , <b>2017</b> , 154, 70-78	3.7	21
302	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> , <b>2017</b> , 28, 136-144	3.5	44
301	Imaging mass spectrometry assists in the classification of diagnostically challenging atypical Spitzoid neoplasms. <i>Journal of the American Academy of Dermatology</i> , <b>2016</b> , 75, 1176-1186.e4	4.5	36
300	The innate immune protein calprotectin promotes Pseudomonas aeruginosa and Staphylococcus aureus interaction. <i>Nature Communications</i> , <b>2016</b> , 7, 11951	17.4	70
299	Next-generation technologies for spatial proteomics: Integrating ultra-high speed MALDI-TOF and high mass resolution MALDI FTICR imaging mass spectrometry for protein analysis. <i>Proteomics</i> , <b>2016</b> , 16, 1678-89	4.8	97
298	3-D imaging mass spectrometry of protein distributions in mouse Neurofibromatosis 1 (NF1)-associated optic glioma. <i>Journal of Proteomics</i> , <b>2016</b> , 149, 77-84	3.9	14
297	Imaging mass spectrometry: Molecular microscopy for the new age of biology and medicine. <i>Proteomics</i> , <b>2016</b> , 16, 1607-12	4.8	43
296	Absolute Quantitative MALDI Imaging Mass Spectrometry: A Case of Rifampicin in Liver Tissues. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 2392-8	7.8	115
295	The Need for Speed in Matrix-Assisted Laser Desorption/Ionization Imaging Mass Spectrometry. <i>Postdoc Journal</i> , <b>2016</b> , 4, 3-13		11
294	Phospholipid profiling identifies acyl chain elongation as a ubiquitous trait and potential target for the treatment of lung squamous cell carcinoma. <i>Oncotarget</i> , <b>2016</b> , 7, 12582-97	3.3	45
293	Pathology interface for the molecular analysis of tissue by mass spectrometry. <i>Journal of Pathology Informatics</i> , <b>2016</b> , 7, 13	4.4	9
292	Histology-guided protein digestion/extraction from formalin-fixed and paraffin-embedded pressure ulcer biopsies. <i>Experimental Dermatology</i> , <b>2016</b> , 25, 143-6	4	15
291	Imaging mass spectrometry for accessing molecular changes during burn wound healing. <i>Wound Repair and Regeneration</i> , <b>2016</b> , 24, 775-785	3.6	8
290	Pragmatic pharmacology: population pharmacokinetic analysis of fentanyl using remnant samples from children after cardiac surgery. <i>British Journal of Clinical Pharmacology</i> , <b>2016</b> , 81, 1165-74	3.8	15
289	The Development of Imaging Mass Spectrometry <b>2016</b> , 285-304		3
288	Potential of MALDI imaging for the toxicological evaluation of environmental pollutants. <i>Journal of Proteomics</i> , <b>2016</b> , 144, 133-9	3.9	24

#### (2015-2016)

287	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> , <b>2016</b> , 88, 9780-9788	7.8	10
286	Dietary zinc alters the microbiota and decreases resistance to Clostridium difficile infection. <i>Nature Medicine</i> , <b>2016</b> , 22, 1330-1334	50.5	136
285	Life history linked to immune investment in developing amphibians <b>2016</b> , 4, cow025		20
284	Trypsin and MALDI matrix pre-coated targets simplify sample preparation for mapping proteomic distributions within biological tissues by imaging mass spectrometry. <i>Journal of Mass Spectrometry</i> , <b>2016</b> , 51, 1168-1179	2.2	12
283	Standard Reticle Slide To Objectively Evaluate Spatial Resolution and Instrument Performance in Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7302-11	7.8	7
282	MALDI Imaging Mass Spectrometry as a Lipidomic Approach to Heart Valve Research. <i>Journal of Heart Valve Disease</i> , <b>2016</b> , 25, 240-252		12
281	Image fusion of mass spectrometry and microscopy: a multimodality paradigm for molecular tissue mapping. <i>Nature Methods</i> , <b>2015</b> , 12, 366-72	21.6	167
<b>2</b> 80	Tissue protein imaging at 1 <sup>th</sup> laser spot diameter for high spatial resolution and high imaging speed using transmission geometry MALDI TOF MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 2337-42	4.4	115
279	Peptide spectra in Wilms tumor that associate with adverse outcomes. <i>Journal of Surgical Research</i> , <b>2015</b> , 196, 332-8	2.5	4
278	Histology-directed and imaging mass spectrometry: An emerging technology in ectopic calcification. <i>Bone</i> , <b>2015</b> , 74, 83-94	4.7	22
277	Adhesive fiber stratification in uropathogenic Escherichia coli biofilms unveils oxygen-mediated control of type 1 pili. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004697	7.6	52
276	Non-small cell lung cancer is characterized by dramatic changes in phospholipid profiles. <i>International Journal of Cancer</i> , <b>2015</b> , 137, 1539-48	7.5	116
275	High spatial resolution proteomic comparison of the brain in humans and chimpanzees. <i>Journal of Comparative Neurology</i> , <b>2015</b> , 523, 2043-61	3.4	16
274	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> , <b>2015</b> , 26, 850-2	3.5	24
273	High-speed MALDI MS/MS imaging mass spectrometry using continuous raster sampling. <i>Journal of Mass Spectrometry</i> , <b>2015</b> , 50, 703-10	2.2	59
272	Are clear cell carcinomas of the ovary and endometrium phenotypically identical? A proteomic analysis. <i>Human Pathology</i> , <b>2015</b> , 46, 1427-36	3.7	10
271	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> , <b>2015</b> , 149, 1932-1943.e9	13.3	107
270	Imaging mass spectrometry for assessing cutaneous wound healing: analysis of pressure ulcers.  Journal of Proteome Research, 2015, 14, 986-96	5.6	32

269	Decellularization of intact tissue enables MALDI imaging mass spectrometry analysis of the extracellular matrix. <i>Journal of Mass Spectrometry</i> , <b>2015</b> , 50, 1288-93	2.2	29
268	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, <b>2015</b> , 42, 757-64	1.7	19
267	MALDI FTICR IMS of Intact Proteins: Using Mass Accuracy to Link Protein Images with Proteomics Data. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2015</b> , 26, 974-85	3.5	75
266	EXIMS: an improved data analysis pipeline based on a new peak picking method for EXploring Imaging Mass Spectrometry data. <i>Bioinformatics</i> , <b>2015</b> , 31, 3198-206	7.2	22
265	Histology-directed microwave assisted enzymatic protein digestion for MALDI MS analysis of mammalian tissue. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 670-6	7.8	25
264	David Rittenberg <b>2015</b> , 177		
263	Matrix pre-coated targets for high throughput MALDI imaging of proteins. <i>Journal of Mass Spectrometry</i> , <b>2014</b> , 49, 417-22	2.2	20
262	Acyl-coenzyme A-binding protein regulates Beta-oxidation required for growth and survival of non-small cell lung cancer. <i>Cancer Prevention Research</i> , <b>2014</b> , 7, 748-57	3.2	26
261	Automated anatomical interpretation of ion distributions in tissue: linking imaging mass spectrometry to curated atlases. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 8974-82	7.8	32
<b>2</b> 60	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> , <b>2014</b> , 49, 665-73	2.2	65
259	Advanced mass spectrometry technologies for the study of microbial pathogenesis. <i>Current Opinion in Microbiology</i> , <b>2014</b> , 19, 45-51	7.9	25
258	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> , <b>2014</b> , 25, 1079-82	3.5	35
257	High resolution MALDI imaging mass spectrometry of retinal tissue lipids. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2014</b> , 25, 1394-403	3.5	74
256	Diabetic nephropathy induces alterations in the glomerular and tubule lipid profiles. <i>Journal of Lipid Research</i> , <b>2014</b> , 55, 1375-85	6.3	67
255	Towards automated discrimination of lipids versus peptides from full scan mass spectra. <i>EuPA Open Proteomics</i> , <b>2014</b> , 4, 87-100	0.1	5
254	Race disparities in peptide profiles of North American and Kenyan Wilms tumor specimens. <i>Journal of the American College of Surgeons</i> , <b>2014</b> , 218, 707-20	4.4	19
253	Co-registration of multi-modality imaging allows for comprehensive analysis of tumor-induced bone disease. <i>Bone</i> , <b>2014</b> , 61, 208-16	4.7	22
252	Imaging mass spectrometry for assessing temporal proteomics: analysis of calprotectin in Acinetobacter baumannii pulmonary infection. <i>Proteomics</i> , <b>2014</b> , 14, 820-828	4.8	39

# (2013-2014)

251	Imaging mass spectrometry: molecular microscopy for enabling a new age of discovery. <i>Proteomics</i> , <b>2014</b> , 14, 807-9	4.8	20
250	MALDI imaging mass spectrometry: spatial molecular analysis to enable a new age of discovery. Journal of Proteomics, <b>2014</b> , 107, 71-82	3.9	198
249	MALDI Imaging Mass Spectrometry. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , <b>2014</b> , 99-113	0.1	
248	Targeted multiplex imaging mass spectrometry in transmission geometry for subcellular spatial resolution. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 609-14	3.5	38
247	MALDI imaging and in situ identification of integral membrane proteins from rat brain tissue sections. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 7191-6	7.8	37
246	Imaging mass spectrometry: a new tool for pathology in a molecular age. <i>Proteomics - Clinical Applications</i> , <b>2013</b> , 7, 733-8	3.1	57
245	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> , <b>2013</b> , 937, 44-53	3.2	32
244	Imaging the clear cell renal cell carcinoma proteome. <i>Journal of Urology</i> , <b>2013</b> , 189, 1097-103	2.5	36
243	Imaging Mass Spectrometry of Intact Biomolecules in Tissue Sections <b>2013</b> , 393-406		
242	Matrix-assisted laser desorption ionization imaging mass spectrometry: in situ molecular mapping. <i>Biochemistry</i> , <b>2013</b> , 52, 3818-28	3.2	101
241	Analysis of tissue specimens by matrix-assisted laser desorption/ionization imaging mass spectrometry in biological and clinical research. <i>Chemical Reviews</i> , <b>2013</b> , 113, 2309-42	68.1	468
240	Identification of promethazine as an amyloid-binding molecule using a fluorescence high-throughput assay and MALDI imaging mass spectrometry. <i>NeuroImage: Clinical</i> , <b>2013</b> , 2, 620-9	5.3	17
239	Imaging Mass Spectrometry of Proteins and Peptides <b>2013</b> , 277-302		
238	Localized in situ hydrogel-mediated protein digestion and extraction technique for on-tissue analysis. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 2717-23	7.8	39
237	Matrix precoated targets for direct lipid analysis and imaging of tissue. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 2907-12	7.8	39
236	Imaging mass spectrometry of intact biomolecules in tissue sections <b>2013</b> , 339-352		
235	Laser beam filtration for high spatial resolution MALDI imaging mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2013</b> , 24, 1153-6	3.5	63
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