

# Akos Vertes

## List of Publications by Year in descending order

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189  
papers

9,349  
citations

36203

51  
h-index

48187

88  
g-index

199  
all docs

199  
docs citations

199  
times ranked

5921  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Ablation Electrospray Ionization for Atmospheric Pressure, in Vivo, and Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 8098-8106.	3.2	743
2	Laser ablation for analytical sampling: what can we learn from modeling?. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 1867-1893.	1.5	395
3	In Situ Metabolic Profiling of Single Cells by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 8265-8271.	3.2	259
4	Desorption/Ionization on Silicon Nanowires. <i>Analytical Chemistry</i> , 2005, 77, 1641-1646.	3.2	250
5	Ambient Molecular Imaging and Depth Profiling of Live Tissue by Infrared Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 4575-4582.	3.2	228
6	Single-Cell Mass Spectrometry Approaches to Explore Cellular Heterogeneity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4466-4477.	7.2	224
7	Three-Dimensional Imaging of Metabolites in Tissues under Ambient Conditions by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 6668-6675.	3.2	205
8	Simultaneous Imaging of Small Metabolites and Lipids in Rat Brain Tissues at Atmospheric Pressure by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 982-988.	3.2	198
9	Atmospheric Pressure Molecular Imaging by Infrared MALDI Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 523-532.	3.2	185
10	Atmospheric Pressure Infrared MALDI Imaging Mass Spectrometry for Plant Metabolomics. <i>Analytical Chemistry</i> , 2008, 80, 407-420.	3.2	163
11	Spraying Mode Effect on Droplet Formation and Ion Chemistry in Electrospays. <i>Analytical Chemistry</i> , 2007, 79, 3105-3116.	3.2	151
12	In Situ Cell-by-Cell Imaging and Analysis of Small Cell Populations by Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 2947-2955.	3.2	143
13	Internal Energy of Ions Generated by Matrix-Assisted Laser Desorption/Ionization. <i>Analytical Chemistry</i> , 2002, 74, 6185-6190.	3.2	137
14	Human T-lymphotropic Virus Type 1-infected Cells Secrete Exosomes That Contain Tax Protein. <i>Journal of Biological Chemistry</i> , 2014, 289, 22284-22305.	1.6	134
15	Ambient mass spectrometry for in vivo local analysis and in situ molecular tissue imaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 34, 22-34.	5.8	120
16	Analytical Challenges of Microbial Biofilms on Medical Devices. <i>Analytical Chemistry</i> , 2012, 84, 3858-3866.	3.2	113
17	Expansion of laser-generated plumes near the plasma ignition threshold. <i>Analytical Chemistry</i> , 1991, 63, 314-320.	3.2	104
18	Hydrodynamic model of matrix-assisted laser desorption mass spectrometry. <i>Analytical Chemistry</i> , 1993, 65, 2389-2393.	3.2	104

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19	Observation of Subcellular Metabolite Gradients in Single Cells by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10386-10389.	7.2	102
20	Flexing the Electrified Meniscus: The Birth of a Jet in Electrospays. <i>Analytical Chemistry</i> , 2004, 76, 4202-4207.	3.2	100
21	The effect of the matrix on film properties in matrix-assisted pulsed laser evaporation. <i>Journal of Applied Physics</i> , 2002, 91, 2055-2058.	1.1	97
22	Laser nanostructure interactions for ion production. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8453.	1.3	97
23	Solvated Ion Evaporation from Charged Water Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2003, 107, 7406-7412.	1.1	92
24	Adjustable Fragmentation in Laser Desorption/Ionization from Laser-Induced Silicon Microcolumn Arrays. <i>Analytical Chemistry</i> , 2006, 78, 5835-5844.	3.2	90
25	Direct analysis of lipids and small metabolites in mouse brain tissue by AP IR-MALDI and reactive LAESI mass spectrometry. <i>Analyst, The</i> , 2010, 135, 751.	1.7	90
26	Mass spectrometry imaging based on laser desorption ionization from inorganic and nanophotonic platforms. <i>View</i> , 2020, 1, 20200063.	2.7	87
27	Homogeneous bottleneck model of matrix-assisted ultraviolet laser desorption of large molecules. <i>Rapid Communications in Mass Spectrometry</i> , 1990, 4, 228-233.	0.7	86
28	Molecular Imaging of Biological Samples on Nanophotonic Laser Desorption Ionization Platforms. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4482-4486.	7.2	86
29	Nanophotonic Ionization for Ultratrace and Single-Cell Analysis by Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 7756-7762.	3.2	83
30	In Situ metabolic analysis of single plant cells by capillary microsampling and electrospray ionization mass spectrometry with ion mobility separation. <i>Analyst, The</i> , 2014, 139, 5079-5085.	1.7	82
31	Energy Charge, Redox State, and Metabolite Turnover in Single Human Hepatocytes Revealed by Capillary Microsampling Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 10397-10405.	3.2	82
32	Protein Profile of Tax-associated Complexes. <i>Journal of Biological Chemistry</i> , 2004, 279, 495-508.	1.6	79
33	Internal Energy Transfer in Laser Desorption/Ionization from Silicon Nanowires. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13381-13386.	1.2	79
34	Tailored Silicon Nanopost Arrays for Resonant Nanophotonic Ion Production. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4835-4840.	1.5	79
35	Droplet Dynamics Changes in Electrostatic Sprays of Methanol-Water Mixtures. <i>Journal of Physical Chemistry A</i> , 1998, 102, 9154-9160.	1.1	78
36	Surface Modification and Laser Pulse Length Effects on Internal Energy Transfer in DIOS. <i>Journal of Physical Chemistry B</i> , 2005, 109, 24450-24456.	1.2	76

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37	Total yield measurements in matrix-assisted laser desorption using a quartz crystal microbalance. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 149-154.	0.7	75
38	Sublimation versus fragmentation in matrix-assisted laser desorption. <i>Chemical Physics Letters</i> , 1990, 171, 284-290.	1.2	73
39	Infrared Laser Ablation Atmospheric Pressure Photoionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 1630-1636.	3.2	69
40	Resonant infrared pulsed-laser deposition of polymer films using a free-electron laser. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 2698-2702.	0.9	68
41	Quantification of plant surface metabolites by matrix-assisted laser desorption/ionization mass spectrometry imaging: glucosinolates on <i>Arabidopsis thaliana</i> leaves. <i>Plant Journal</i> , 2015, 81, 961-972.	2.8	68
42	Atmospheric Pressure Matrix-Assisted Laser Desorption/Ionization in Transmission Geometry. <i>Analytical Chemistry</i> , 2002, 74, 1891-1895.	3.2	67
43	Order-Chaos-Order Transitions in Electrosprays: The Electrified Dripping Faucet. <i>Physical Review Letters</i> , 2006, 97, 064502.	2.9	61
44	Noncovalent protein-oligonucleotide interactions monitored by matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical Chemistry</i> , 1995, 67, 4542-4548.	3.2	59
45	Astable regime in electrosprays. <i>Physical Review E</i> , 2007, 76, 026320.	0.8	59
46	Identifying the Membrane Proteome of HIV-1 Latently Infected Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 8207-8218.	1.6	58
47	Vapor deposition of intact polyethylene glycol thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 73, 121-123.	1.1	57
48	Metabolic Differences in Microbial Cell Populations Revealed by Nanophotonic Ionization. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3650-3653.	7.2	57
49	Time-delayed 2-Pulse Studies of MALDI Matrix Ionization Mechanisms. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5406-5410.	1.2	56
50	High-Throughput Cell and Tissue Analysis with Enhanced Molecular Coverage by Laser Ablation Electrospray Ionization Mass Spectrometry Using Ion Mobility Separation. <i>Analytical Chemistry</i> , 2014, 86, 4308-4315.	3.2	55
51	Nanophotonic Ion Production from Silicon Microcolumn Arrays. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1669-1672.	7.2	53
52	Ambient molecular imaging by laser ablation electrospray ionization mass spectrometry with ion mobility separation. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 681-689.	0.7	53
53	Modeling the thermal-to-plasma transitions for Cu photoablation. <i>IBM Journal of Research and Development</i> , 1994, 38, 3-10.	3.2	52
54	Toward Single-Cell Analysis by Plume Collimation in Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 3592-3598.	3.2	52

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55	Hydrodynamic modelling of laser plasma ionization processes. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1989, 94, 63-85.	1.9	51
56	Threshold conditions of plasma ignition in laser ionization mass spectrometry of solids. <i>Analytical Chemistry</i> , 1989, 61, 1029-1035.	3.2	51
57	New matrices and accelerating voltage effects in matrix-assisted laser desorption/ionization of synthetic polymers. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 1141-1147.	0.7	51
58	Molecular Imaging of Growth, Metabolism, and Antibiotic Inhibition in Bacterial Colonies by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15035-15039.	7.2	50
59	Crystallite size dependence of volatilization in matrix-assisted laser desorption ionization. <i>Applied Surface Science</i> , 1998, 127-129, 226-234.	3.1	48
60	How much charge is there on a pulsating Taylor cone?. <i>Applied Physics Letters</i> , 2006, 89, 064104.	1.5	48
61	Laser ablation electrospray ionization mass spectrometry with ion mobility separation reveals metabolites in the symbiotic interactions of soybean roots and rhizobia. <i>Plant Journal</i> , 2017, 91, 340-354.	2.8	48
62	Molecular Dynamics of Matrix-Assisted Laser Desorption of Leucine Enkephalin Guest Molecules from Nicotinic Acid Host Crystal. <i>Journal of Physical Chemistry B</i> , 1998, 102, 4770-4778.	1.2	47
63	Molecular imaging by Mid-IR laser ablation mass spectrometry. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 885-891.	1.1	47
64	Influence of axial and radial diffusion processes on the analytical performance of a glow discharge cell. <i>Analytical Chemistry</i> , 1992, 64, 1855-1863.	3.2	45
65	Amino acid composition and wavelength effects in matrix-assisted laser desorption/ionization. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 744-752.	0.7	43
66	Conformation Changes, Complexation, and Phase Transition in Matrix-Assisted Laser Desorption. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2578-2587.	1.2	42
67	In vitro analysis of metabolites from the untreated tissue of <i>Torpedo californica</i> electric organ by mid-infrared laser ablation electrospray ionization mass spectrometry. <i>Metabolomics</i> , 2009, 5, 263-276.	1.4	42
68	Internal energy deposition and ion fragmentation in atmospheric-pressure mid-infrared laser ablation electrospray ionization. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2501.	1.3	41
69	Rapid Assessment of Human Amylin Aggregation and Its Inhibition by Copper(II) Ions by Laser Ablation Electrospray Ionization Mass Spectrometry with Ion Mobility Separation. <i>Analytical Chemistry</i> , 2015, 87, 9829-9837.	3.2	41
70	Electrospray Diagnostics by Fourier Analysis of Current Oscillations and Fast Imaging. <i>Analytical Chemistry</i> , 2005, 77, 3908-3915.	3.2	40
71	Early plume expansion in atmospheric pressure midinfrared laser ablation of water-rich targets. <i>Physical Review E</i> , 2008, 77, 036316.	0.8	40
72	Metabolic Noise and Distinct Subpopulations Observed by Single Cell LAESI Mass Spectrometry of Plant Cells in situ. <i>Frontiers in Plant Science</i> , 2018, 9, 1646.	1.7	40

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73	Ambient Metabolic Profiling and Imaging of Biological Samples with Ultrahigh Molecular Resolution Using Laser Ablation Electrospray Ionization 21 Tesla FTICR Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 5028-5035.	3.2	40
74	Observed metabolic asymmetry within soybean root nodules reflects unexpected complexity in rhizobacteria-legume metabolite exchange. <i>ISME Journal</i> , 2018, 12, 2335-2338.	4.4	39
75	Direct Analysis of Phycobilisomal Antenna Proteins and Metabolites in Small Cyanobacterial Populations by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 34-38.	3.2	38
76	Large-Scale Metabolite Analysis of Standards and Human Serum by Laser Desorption Ionization Mass Spectrometry from Silicon Nanopost Arrays. <i>Analytical Chemistry</i> , 2016, 88, 8989-8996.	3.2	38
77	Single-Cell Mass Spectrometry of Subpopulations Selected by Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2018, 90, 4626-4634.	3.2	37
78	Single-Cell Metabolic Profiling: Metabolite Formulas from Isotopic Fine Structures in Heterogeneous Plant Cell Populations. <i>Analytical Chemistry</i> , 2020, 92, 7289-7298.	3.2	37
79	Matrix-Guest Energy Transfer in Matrix-assisted Laser Desorption. , 1997, 11, 679-682.		36
80	Ablation and analysis of small cell populations and single cells by consecutive laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 121-126.	1.1	36
81	The Molecular Composition of Soot. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4484-4490.	7.2	36
82	Compact Tunable Cr:LiSAF Laser for Infrared Matrix-assisted Laser Desorption/Ionization. , 1997, 11, 393-397.		35
83	Conformational and Noncovalent Complexation Changes in Proteins during Electrospray Ionization. <i>Analytical Chemistry</i> , 2008, 80, 387-395.	3.2	35
84	Inorganic mass spectrometry of solid samples. <i>Fresenius' Journal of Analytical Chemistry</i> , 1990, 337, 638-647.	1.5	33
85	Laser Ablation Electrospray Ionization for Atmospheric Pressure Molecular Imaging Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2010, 656, 159-171.	0.4	33
86	Subcellular Metabolite and Lipid Analysis of <i>Xenopus laevis</i> Eggs by LAESI Mass Spectrometry. <i>PLoS ONE</i> , 2014, 9, e115173.	1.1	33
87	Concentration-dependent diffusivity: Hydrogen percolation in WO <sub>3</sub> . <i>Journal of Applied Physics</i> , 1983, 54, 199-203.	1.1	32
88	Detection and Quantitation of Î <sup>2</sup> -2-Microglobulin Glycosylated End Products in Human Serum by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 1996, 68, 3740-3745.	3.2	32
89	High Throughput Complementary Analysis and Quantitation of Metabolites by MALDI- and Silicon Nanopost Array-Laser Desorption/Ionization-Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 3951-3958.	3.2	32
90	Matrix-assisted laser desorption of peptides in transmission geometry. <i>Rapid Communications in Mass Spectrometry</i> , 1990, 4, 263-266.	0.7	31

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91	Quantitative characterization of individual particle surfaces by fractal analysis of scanning electron microscope images. <i>Fresenius' Journal of Analytical Chemistry</i> , 1994, 350, 440-447.	1.5	31
92	Dynamics of hydrogen bonding and energy transfer in matrix-assisted laser desorption. <i>Chemical Physics Letters</i> , 1995, 247, 142-148.	1.2	31
93	Molecular Dynamics Study of Vibrational Excitation Dynamics and Desorption in Solid O <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , 1999, 103, 2925-2933.	1.1	31
94	Laser desorption ionization (LDI) silicon nanopost array chips fabricated using deep UV projection lithography and deep reactive ion etching. <i>RSC Advances</i> , 2015, 5, 72051-72057.	1.7	31
95	Trace Analysis and Reaction Monitoring by Nanophotonic Ionization Mass Spectrometry from Elevated Bowtie and Silicon Nanopost Arrays. <i>Advanced Functional Materials</i> , 2018, 28, 1801730.	7.8	31
96	Direct Detection of Diverse Metabolic Changes in Virally Transformed and Tax-Expressing Cells by Mass Spectrometry. <i>PLoS ONE</i> , 2010, 5, e12590.	1.1	30
97	Sample erosion studies and modeling in a glow discharge ionization cell. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1991, 46, 283-290.	1.5	29
98	In Situ Analysis of Small Populations of Adherent Mammalian Cells Using Laser Ablation Electrospray Ionization Mass Spectrometry in Transmission Geometry. <i>Analytical Chemistry</i> , 2015, 87, 12130-12136.	3.2	29
99	An inductive detector for time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 317-322.	0.7	28
100	Mass Spectrometry Imaging of Lipids in Human Skin Disease Model Hidradenitis Suppurativa by Laser Desorption Ionization from Silicon Nanopost Arrays. <i>Scientific Reports</i> , 2019, 9, 17508.	1.6	28
101	Phase explosion in atmospheric pressure infrared laser ablation from water-rich targets. <i>Applied Physics Letters</i> , 2006, 89, 041503.	1.5	27
102	Simultaneous Detection of Nonpolar and Polar Compounds by Heat-Assisted Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 177-184.	3.2	27
103	Comparative local analysis of metabolites, lipids and proteins in intact fish tissues by LAESI mass spectrometry. <i>Analyst, The</i> , 2013, 138, 3444.	1.7	26
104	Laser ablation atmospheric pressure photoionization mass spectrometry imaging of phytochemicals from sage leaves. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2490-2496.	0.7	26
105	Einzelzell- <sup>19</sup> F-Massenspektrometrie zur Untersuchung zellulärer Heterogenität. <i>Angewandte Chemie</i> , 2018, 130, 4554-4566.	1.6	25
106	Optical Microscopy-Guided Laser Ablation Electrospray Ionization Ion Mobility Mass Spectrometry: Ambient Single Cell Metabolomics with Increased Confidence in Molecular Identification. <i>Metabolites</i> , 2021, 11, 200.	1.3	25
107	Laser microprobe mass spectrometry of quaternary phosphonium salts: Direct versus matrix-assisted laser desorption. <i>Journal of the American Society for Mass Spectrometry</i> , 1993, 4, 798-812.	1.2	24
108	Matrix-assisted Laser Desorption/Ionization by Two Collinear Subthreshold Laser Pulses. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 484-488.	0.7	24

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109	Charge Reduction in Electrosprays: Slender Nanojets as Intermediates. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6397-6404.	1.2	24
110	Remote laser ablation electrospray ionization mass spectrometry for nonproximate analysis of biological tissues. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 67-73.	0.7	24
111	Subcellular Peptide Localization in Single Identified Neurons by Capillary Microsampling Mass Spectrometry. <i>Scientific Reports</i> , 2018, 8, 12227.	1.6	24
112	Matrix-free mass spectrometry imaging of mouse brain tissue sections on silicon nanopost arrays. <i>Journal of Comparative Neurology</i> , 2019, 527, 2101-2121.	0.9	23
113	In-Situ Metabolomic Analysis of <i>Setaria viridis</i> Roots Colonized by Beneficial Endophytic Bacteria. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 272-283.	1.4	23
114	Laser pulse length dependence of internal energy transfer in UV-MALDI-MS. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 823-825.	1.1	22
115	Laser desorption/ionization from nanostructured surfaces: nanowires, nanoparticle films and silicon microcolumn arrays. <i>Journal of Physics: Conference Series</i> , 2007, 59, 548-544.	0.3	22
116	Rapid analysis of pharmaceuticals and excreted xenobiotic and endogenous metabolites with atmospheric pressure infrared MALDI mass spectrometry. <i>Metabolomics</i> , 2008, 4, 297-311.	1.4	22
117	Mass Spectrometry Imaging of Bio-oligomer Polydispersity in Plant Tissues by Laser Desorption Ionization from Silicon Nanopost Arrays. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9071-9077.	7.2	22
118	Kinetic energy distribution of ions generated by laser ionization sources. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1988, 83, 45-70.	1.9	21
119	Multimodal imaging of biological tissues using combined MALDI and NAPA-LDI mass spectrometry for enhanced molecular coverage. <i>Analyst, The</i> , 2020, 145, 6910-6918.	1.7	21
120	Metabolomic profiling of wild-type and mutant soybean root nodules using laser-ablation electrospray ionization mass spectrometry reveals altered metabolism. <i>Plant Journal</i> , 2020, 103, 1937-1958.	2.8	21
121	Ambient Single-Cell Analysis and Native Tissue Imaging Using Laser-Ablation Electrospray Ionization Mass Spectrometry with Increased Spatial Resolution. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2490-2494.	1.2	20
122	Diagnostics and modeling of plasma processes in ion sources. <i>Mass Spectrometry Reviews</i> , 1990, 9, 71-113.	2.8	19
123	The proteome survey of an electricity-generating organ ( <i>Torpedo californica</i> electric organ). <i>Proteomics</i> , 2007, 7, 617-627.	1.3	19
124	Effect of progesterone and its synthetic analogs on reproduction and embryonic development of a freshwater invertebrate model. <i>Aquatic Toxicology</i> , 2017, 190, 94-103.	1.9	19
125	Fast Dynamics of Ionization in Ultraviolet Matrix-Assisted Laser Desorption Ionization of Biomolecules. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3301-3306.	1.2	18
126	Pumping Rate and Surface Morphology Dependence of Ionization Processes in Matrix-Assisted Laser Desorption Ionization. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9754-9761.	1.1	18



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127	Rapid, non-targeted discovery of biochemical transformation and biomarker candidates in oncovirus-infected cell lines using LAESI mass spectrometry. <i>Chemical Communications</i> , 2012, 48, 3700-3702.	2.2	18
128	Mass spectrometry imaging of triglycerides in biological tissues by laser desorption ionization from silicon nanopost arrays. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4443.	0.7	18
129	The Molecular Composition of Soot. <i>Angewandte Chemie</i> , 2020, 132, 4514-4520.	1.6	18
130	High-Throughput Analysis of Tissue-Embedded Single Cells by Mass Spectrometry with Bimodal Imaging and Object Recognition. <i>Analytical Chemistry</i> , 2021, 93, 9677-9687.	3.2	17
131	Automated Cell-by-Cell Tissue Imaging and Single-Cell Analysis for Targeted Morphologies by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2015, 1203, 117-127.	0.4	17
132	Laser microprobe mass spectrometry: Possibilities and limitations. <i>Mikrochimica Acta</i> , 1990, 102, 283-303.	2.5	16
133	Protonation of Glyn Homologues in Matrix-Assisted Laser Desorption Ionization. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6118-6122.	1.2	16
134	Atmospheric-pressure Molecular Imaging of Biological Tissues and Biofilms by LAESI Mass Spectrometry. <i>Journal of Visualized Experiments</i> , 2010, , .	0.2	16
135	Minimally invasive monitoring of cellulose degradation by desorption electrospray ionization and laser ablation electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2010, 135, 2434.	1.7	16
136	Molecular Imaging of Biological Samples on Nanophotonic Laser Desorption Ionization Platforms. <i>Angewandte Chemie</i> , 2016, 128, 4558-4562.	1.6	16
137	Development and Characterization of Gas Chromatographic Columns for the Analysis of Prebiological Molecules in Titan's Atmosphere. <i>Analytical Chemistry</i> , 1998, 70, 689-697.	3.2	15
138	Soft Laser Desorption Ionization "Maldi, Dios and Nanostructures. , 2007, , 505-528.		15
139	Competing Ion Decomposition Channels in Matrix-Assisted Laser Desorption Ionization. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6952-6956.	1.2	15
140	Polarization dependent fragmentation of ions produced by laser desorption from nanopost arrays. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9140.	1.3	15
141	Modeling the cluster formation during infrared and ultraviolet matrix-assisted laser desorption ionization of oligonucleotides in succinic acid matrix with molecular mechanics. <i>Theoretical Chemistry Accounts</i> , 2002, 107, 319-325.	0.5	13
142	High-Energy Fragmentation in Nanophotonic Ion Production by Laser-Induced Silicon Microcolumn Arrays. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5574-5581.	1.5	13
143	Metabolic transformation of microalgae due to light acclimation and genetic modifications followed by laser ablation electrospray ionization mass spectrometry with ion mobility separation. <i>Analyst, The</i> , 2014, 139, 5945-5953.	1.7	13
144	Turnover rates in microorganisms by laser ablation electrospray ionization mass spectrometry and pulse-chase analysis. <i>Analytica Chimica Acta</i> , 2016, 902, 1-7.	2.6	13

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145	Velocity Compression in Cylindrical Capacitor Electrospray of Methanol~Water Mixtures. <i>Analytical Chemistry</i> , 1999, 71, 4111-4113.	3.2	12
146	Molecular Imaging of Growth, Metabolism, and Antibiotic Inhibition in Bacterial Colonies by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Angewandte Chemie</i> , 2016, 128, 15259-15263.	1.6	12
147	In Vivo Chemical Analysis of Plant Sap from the Xylem and Single Parenchymal Cells by Capillary Microsampling Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 7299-7306.	3.2	12
148	Quasipercolation: Charge transport in fluctuating systems. <i>Journal of Chemical Physics</i> , 1982, 76, 678-683.	1.2	11
149	Assessment of laser-induced thermal load on silicon nanostructures based on ion desorption yields. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 539-544.	1.1	11
150	Direct Analysis of Single Cells by Mass Spectrometry at Atmospheric Pressure. <i>Journal of Visualized Experiments</i> , 2010, , .	0.2	10
151	Solvent gradient electrospray for laser ablation electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2017, 142, 2921-2927.	1.7	10
152	Quasifree electron mobility by the method of partial waves in liquid hydrocarbons and in fluid argon. <i>Journal of Chemical Physics</i> , 1983, 79, 5558-5562.	1.2	9
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