

Akos Vertes

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.

190
papers

8,147
citations

50
h-index

82
g-index

199
ext. papers

8,852
ext. citations

5.3
avg, IF

6.38
L-index

#	Paper	IF	Citations
190	Mass Spectrometry Imaging of Biological Tissues by Laser Desorption Ionization from Silicon Nanopost Arrays.. <i>Methods in Molecular Biology</i> , 2022 , 2437, 89-98	1.4	0
189	Single-Cell Metabolomics with Rapid Determination of Chemical Formulas from Isotopic Fine Structures.. <i>Methods in Molecular Biology</i> , 2022 , 2437, 61-75	1.4	
188	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	16.4	6
187	Mass Spectrometry Imaging of Bio-oligomer Polydispersity in Plant Tissues by Laser Desorption Ionization from Silicon Nanopost Arrays. <i>Angewandte Chemie</i> , 2021 , 133, 9153-9159	3.6	
186	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,	5.6	7
185	Neuropeptide Localization in : From the Central Nervous System to Subcellular Compartments. <i>Frontiers in Molecular Neuroscience</i> , 2021 , 14, 670303	6.1	2
184	Application of chemical graph theory to PAH isomer enumeration and structure in laser desorption/ionization mass spectrometry studies of particulate from an ethylene diffusion flame. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 1345-1353	5.9	1
183	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	7.8	5
182	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	3.5	7
181	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	7.8	5
180	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	6.9	13
179	The Molecular Composition of Soot. <i>Angewandte Chemie</i> , 2020 , 132, 4514-4520	3.6	12
178	Single-Cell Metabolic Profiling: Metabolite Formulas from Isotopic Fine Structures in Heterogeneous Plant Cell Populations. <i>Analytical Chemistry</i> , 2020 , 92, 7289-7298	7.8	18
177	Identification of Metabolites in Single Cells by Ion Mobility Separation and Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2020 , 2064, 9-18	1.4	3
176	Metabolomic Profiling of Adherent Mammalian Cells In Situ by LAESI-MS with Ion Mobility Separation. <i>Methods in Molecular Biology</i> , 2020 , 2084, 235-244	1.4	3
175	Toward Single Cell Molecular Imaging by Matrix-Free Nanophotonic Laser Desorption Ionization Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2020 , 2064, 135-146	1.4	2
174	The Molecular Composition of Soot. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4484-4490	16.4	25

173	Remote ablation chamber for high efficiency particle transfer in laser ablation electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2020 , 145, 5861-5869	5	0
172	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	5	12
171	Mass spectrometry imaging based on laser desorption ionization from inorganic and nanophotonic platforms. <i>View</i> , 2020 , 1, 20200063	7.8	56
170	In-Situ Metabolomic Analysis of Roots Colonized by Beneficial Endophytic Bacteria. <i>Molecular Plant-Microbe Interactions</i> , 2020 , 33, 272-283	3.6	16
169	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	2.2	13
168	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	7.8	28
167	Transcriptional Response of SK-N-AS Cells to Methamidophos (Extended Abstract). <i>Lecture Notes in Computer Science</i> , 2019 , 368-372	0.9	
166	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	7.8	27
165	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	4.9	21
164	Matrix-free mass spectrometry imaging of mouse brain tissue sections on silicon nanopost arrays. <i>Journal of Comparative Neurology</i> , 2019 , 527, 2101-2121	3.4	17
163	Single-Cell Mass Spectrometry of Subpopulations Selected by Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2018 , 90, 4626-4634	7.8	33
162	Einzelzell-Massenspektrometrie zur Untersuchung zellulärer Heterogenität. <i>Angewandte Chemie</i> , 2018 , 130, 4554-4566	3.6	22
161	Subcellular Peptide Localization in Single Identified Neurons by Capillary Microsampling Mass Spectrometry. <i>Scientific Reports</i> , 2018 , 8, 12227	4.9	16
160	Observed metabolic asymmetry within soybean root nodules reflects unexpected complexity in rhizobacteria-legume metabolite exchange. <i>ISME Journal</i> , 2018 , 12, 2335-2338	11.9	27
159	Inferring Mechanism of Action of an Unknown Compound from Time Series Omics Data. <i>Lecture Notes in Computer Science</i> , 2018 , 238-255	0.9	2
158	Single-Cell Mass Spectrometry Approaches to Explore Cellular Heterogeneity. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4466-4477	16.4	158
157	Metabolic Noise and Distinct Subpopulations Observed by Single Cell LAESI Mass Spectrometry of Plant Cells. <i>Frontiers in Plant Science</i> , 2018 , 9, 1646	6.2	24
156	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	15.6	26

155	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	6.9	38
154	Enhanced sensitivity and metabolite coverage with remote laser ablation electrospray ionization-mass spectrometry aided by coaxial plume and gas dynamics. <i>Analyst, The</i> , 2017 , 142, 3157-3164	5.4	9
153	Solvent gradient electrospray for laser ablation electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2017 , 142, 2921-2927	5	6
152	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	5.1	12
151	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, 8989-96	7.8	33
150	Molecular Imaging of Biological Samples on Nanophotonic Laser Desorption Ionization Platforms. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4482-6	16.4	73
149	Turnover rates in microorganisms by laser ablation electrospray ionization mass spectrometry and pulse-chase analysis. <i>Analytica Chimica Acta</i> , 2016 , 902, 1-7	6.6	10
148	Titelbild: Molecular Imaging of Biological Samples on Nanophotonic Laser Desorption Ionization Platforms (Angew. Chem. 14/2016). <i>Angewandte Chemie</i> , 2016 , 128, 4443-4443	3.6	
147	Molecular Imaging of Biological Samples on Nanophotonic Laser Desorption Ionization Platforms. <i>Angewandte Chemie</i> , 2016 , 128, 4558-4562	3.6	15
146	Innenrücktitelbild: Molecular Imaging of Growth, Metabolism, and Antibiotic Inhibition in Bacterial Colonies by Laser Ablation Electrospray Ionization Mass Spectrometry (Angew. Chem. 48/2016). <i>Angewandte Chemie</i> , 2016 , 128, 15405-15405	3.6	
145	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	3.6	8
144	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	16.4	39
143	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	7.8	26
142	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	3.7	29
141	Energy Charge, Redox State, and Metabolite Turnover in Single Human Hepatocytes Revealed by Capillary Microsampling Mass Spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 10397-405	7.8	62
140	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	1.9	46
139	Remote laser ablation electrospray ionization mass spectrometry for non-proximate analysis of biological tissues. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 67-73	2.2	23
138	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, 12130-6	7.8	25

137	Quantification of plant surface metabolites by matrix-assisted laser desorption-ionization mass spectrometry imaging: glucosinolates on Arabidopsis thaliana leaves. <i>Plant Journal</i> , 2015 , 81, 961-72	6.9	55
136	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, 117-27	1.4	14
135	Laser ablation atmospheric pressure photoionization mass spectrometry imaging of phytochemicals from sage leaves. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 2490-6	2.2	24
134	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, 5079-85	5	65
133	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, 5945-53	5	12
132	Human T-lymphotropic virus type 1-infected cells secrete exosomes that contain Tax protein. <i>Journal of Biological Chemistry</i> , 2014 , 289, 22284-305	5.4	110
131	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, 4308-15	7.8	51
130	Subcellular metabolite and lipid analysis of Xenopus laevis eggs by LAESI mass spectrometry. <i>PLoS ONE</i> , 2014 , 9, e115173	3.7	29
129	Relative quantitation in single-cell metabolomics by laser ablation electrospray mass spectrometry. <i>Methods in Molecular Biology</i> , 2014 , 1083, 31-9	1.4	5
128	Chapter 14:Laser Ablation Electrospray Ionization Mass Spectrometry: Mechanisms, Configurations and Imaging Applications. <i>New Developments in Mass Spectrometry</i> , 2014 , 348-371	2.3	
127	Toward single-cell analysis by plume collimation in laser ablation electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 3592-8	7.8	45
126	Metabolic differences in microbial cell populations revealed by nanophotonic ionization. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3650-3	16.4	53
125	Simultaneous detection of nonpolar and polar compounds by heat-assisted laser ablation electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 177-84	7.8	25
124	Comparative local analysis of metabolites, lipids and proteins in intact fish tissues by LAESI mass spectrometry. <i>Analyst, The</i> , 2013 , 138, 3444-9	5	23
123	Metabolic Differences in Microbial Cell Populations Revealed by Nanophotonic Ionization. <i>Angewandte Chemie</i> , 2013 , 125, 3738-3741	3.6	11
122	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	14.6	118
121	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, 3700-2	5.8	18
120	Internal energy deposition and ion fragmentation in atmospheric-pressure mid-infrared laser ablation electrospray ionization. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2501-7	3.6	40

119	Infrared laser ablation atmospheric pressure photoionization mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 1630-6	7.8	60
118	Analytical challenges of microbial biofilms on medical devices. <i>Analytical Chemistry</i> , 2012 , 84, 3858-66	7.8	92
117	Nanophotonic ionization for ultratrace and single-cell analysis by mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 7756-62	7.8	74
116	Observation of Subcellular Metabolite Gradients in Single Cells by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Angewandte Chemie</i> , 2012 , 124, 10532-10535	3.6	12
115	Rücktitelbild: Observation of Subcellular Metabolite Gradients in Single Cells by Laser Ablation Electrospray Ionization Mass Spectrometry (Angew. Chem. 41/2012). <i>Angewandte Chemie</i> , 2012 , 124, 10566-10566	3.6	
114	Observation of subcellular metabolite gradients in single cells by laser ablation electrospray ionization mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10386-9	16.4	87
113	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, 34-8	7.8	35
112	Laser-nanostructure interactions for ion production. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8453-7	3.6	89
111	In situ cell-by-cell imaging and analysis of small cell populations by mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 2947-55	7.8	127
110	Evolution and comparative genomics of subcellular specializations: EST sequencing of Torpedo electric organ. <i>Marine Genomics</i> , 2011 , 4, 33-40	1.9	6
109	Direct detection of diverse metabolic changes in virally transformed and Tax-expressing cells by mass spectrometry. <i>Retrovirology</i> , 2011 , 8, A179	3.6	78
108	Polarization dependent fragmentation of ions produced by laser desorption from nanopost arrays. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 9140-6	3.6	14
107	Direct detection of diverse metabolic changes in virally transformed and tax-expressing cells by mass spectrometry. <i>PLoS ONE</i> , 2010 , 5, e12590	3.7	28
106	Laser ablation electrospray ionization for atmospheric pressure molecular imaging mass spectrometry. <i>Methods in Molecular Biology</i> , 2010 , 656, 159-71	1.4	27
105	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, 982-8	7.8	185
104	Minimally invasive monitoring of cellulose degradation by desorption electrospray ionization and laser ablation electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2010 , 135, 2434-44	5	14
103	Tailored Silicon Nanopost Arrays for Resonant Nanophotonic Ion Production. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4835-4840	3.8	75
102	High-Energy Fragmentation in Nanophotonic Ion Production by Laser-Induced Silicon Microcolumn Arrays. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5574-5581	3.8	13

101	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, 751-8	5	81
100	Direct analysis of single cells by mass spectrometry at atmospheric pressure. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	8
99	Atmospheric-pressure molecular imaging of biological tissues and biofilms by LAESI mass spectrometry. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	13
98	Nanophotonic Ion Sources 2010 ,		7
97	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	2.6	33
96	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	2.6	10
95	Nanophotonic Ion Production from Silicon Microcolumn Arrays. <i>Angewandte Chemie</i> , 2009 , 121, 1697-1706	9.6	4
94	Nanophotonic ion production from silicon microcolumn arrays. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1669-72	16.4	47
93	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	4.7	41
92	In situ metabolic profiling of single cells by laser ablation electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2009 , 81, 8265-71	7.8	224
91	Three-dimensional imaging of metabolites in tissues under ambient conditions by laser ablation electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2009 , 81, 6668-75	7.8	191
90	Ambient molecular imaging and depth profiling of live tissue by infrared laser ablation electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 4575-82	7.8	206
89	Mass spectrometry in proteomics 2008 , 173-194		
88	Atmospheric pressure infrared MALDI imaging mass spectrometry for plant metabolomics. <i>Analytical Chemistry</i> , 2008 , 80, 407-20	7.8	147
87	Competing ion decomposition channels in matrix-assisted laser desorption ionization. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 6952-6	3.4	13
86	Conformational and noncovalent complexation changes in proteins during electrospray ionization. <i>Analytical Chemistry</i> , 2008 , 80, 387-95	7.8	31
85	Early plume expansion in atmospheric pressure midinfrared laser ablation of water-rich targets. <i>Physical Review E</i> , 2008 , 77, 036316	2.4	36
84	Brief outlook 2008 , 555-560		

83	Rapid analysis of pharmaceuticals and excreted xenobiotic and endogenous metabolites with atmospheric pressure infrared MALDI mass spectrometry. <i>Metabolomics</i> , 2008 , 4, 297-311	4.7	19
82	Molecular imaging by Mid-IR laser ablation mass spectrometry. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 885-891	2.6	38
81	Atmospheric pressure molecular imaging by infrared MALDI mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 523-32	7.8	163
80	Soft Laser Desorption Ionization [Maldi, Dios and Nanostructures 2007 , 505-528		10
79	The proteome survey of an electricity-generating organ (Torpedo californica electric organ). <i>Proteomics</i> , 2007 , 7, 617-627	4.8	16
78	Identifying the membrane proteome of HIV-1 latently infected cells. <i>Journal of Biological Chemistry</i> , 2007 , 282, 8207-18	5.4	47
77	Astable regime in electrosprays. <i>Physical Review E</i> , 2007 , 76, 026320	2.4	54
76	Laser ablation electrospray ionization for atmospheric pressure, in vivo, and imaging mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 8098-106	7.8	669
75	Spraying mode effect on droplet formation and ion chemistry in electrosprays. <i>Analytical Chemistry</i> , 2007 , 79, 3105-16	7.8	127
74	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	18
73	How much charge is there on a pulsating Taylor cone?. <i>Applied Physics Letters</i> , 2006 , 89, 064104	3.4	41
72	Phase explosion in atmospheric pressure infrared laser ablation from water-rich targets. <i>Applied Physics Letters</i> , 2006 , 89, 041503	3.4	26
71	Charge reduction in electrosprays: slender nanojets as intermediates. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 6397-404	3.4	23
70	Adjustable fragmentation in laser desorption/ionization from laser-induced silicon microcolumn arrays. <i>Analytical Chemistry</i> , 2006 , 78, 5835-44	7.8	84
69	Order-chaos-order transitions in electrosprays: the electrified dripping faucet. <i>Physical Review Letters</i> , 2006 , 97, 064502	7.4	54
68	Internal energy transfer in laser desorption/ionization from silicon nanowires. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13381-6	3.4	72
67	Electrospray diagnostics by Fourier analysis of current oscillations and fast imaging. <i>Analytical Chemistry</i> , 2005 , 77, 3908-15	7.8	35
66	Desorption/ionization on silicon nanowires. <i>Analytical Chemistry</i> , 2005 , 77, 1641-6	7.8	229

65	Surface modification and laser pulse length effects on internal energy transfer in DIOS. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 24450-6	3.4	73
64	Protein profile of tax-associated complexes. <i>Journal of Biological Chemistry</i> , 2004 , 279, 495-508	5.4	68
63	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	2.6	20
62	Flexing the electrified meniscus: the birth of a jet in electrosprays. <i>Analytical Chemistry</i> , 2004 , 76, 4202-7.8		92
61	Solvated Ion Evaporation from Charged Water Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 7406-7412	2.8	84
60	Laser ablation for analytical sampling: what can we learn from modeling?. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003 , 58, 1867-1893	3.1	347
59	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	2.8	18
58	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	1.9	12
57	Atmospheric pressure matrix-assisted laser desorption ionization as a plume diagnostic tool in laser evaporation methods. <i>Applied Surface Science</i> , 2002 , 197-198, 130-137	6.7	2
56	The effect of the matrix on film properties in matrix-assisted pulsed laser evaporation. <i>Journal of Applied Physics</i> , 2002 , 91, 2055-2058	2.5	89
55	Atmospheric pressure matrix-assisted laser desorption/ionization in transmission geometry. <i>Analytical Chemistry</i> , 2002 , 74, 1891-5	7.8	59
54	Fast Dynamics of Ionization in Ultraviolet Matrix-Assisted Laser Desorption Ionization of Biomolecules. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 3301-3306	3.4	17
53	Internal energy of ions generated by matrix-assisted laser desorption/ionization. <i>Analytical Chemistry</i> , 2002 , 74, 6185-90	7.8	126
52	Vapor deposition of intact polyethylene glycol thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 73, 121-123	2.6	52
51	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	2.9	56
50	Conformation Changes, Complexation, and Phase Transition in Matrix-Assisted Laser Desorption. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2578-2587	3.4	40
49	Remote experimentation over the Net: our first year with MALDI. <i>Analytical Chemistry</i> , 2001 , 73, 440A-445A		1
48	Adduct formation and energy redistribution in UV and IR matrix-assisted laser desorption ionization 2000 , 3935, 76		

47	Time-delayed 2-Pulse Studies of MALDI Matrix Ionization Mechanisms. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 5406-5410	3.4	54
46	Peptide mapping and disulfide bond analysis of myeloid progenitor inhibitory chemokine and keratinocyte growth factor by matrix-assisted laser desorption ionization mass spectrometry. <i>Analytical Biochemistry</i> , 1999 , 267, 125-34	3.1	6
45	A novel scheme for the time-of-flight analysis of extended ion packets. <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 2244-8	2.2	3
44	Molecular Dynamics Study of Vibrational Excitation Dynamics and Desorption in Solid O ₂ . <i>Journal of Physical Chemistry A</i> , 1999 , 103, 2925-2933	2.8	26
43	Velocity Compression in Cylindrical Capacitor Electrospray of Methanol/Water Mixtures. <i>Analytical Chemistry</i> , 1999 , 71, 4111-4113	7.8	11
42	Crystallite size dependence of volatilization in matrix-assisted laser desorption ionization. <i>Applied Surface Science</i> , 1998 , 127-129, 226-234	6.7	46
41	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	7.8	13
40	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	3.4	44
39	Droplet Dynamics Changes in Electrostatic Sprays of Methanol/Water Mixtures. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 9154-9160	2.8	71
38	Protonation of Glyn Homologues in Matrix-Assisted Laser Desorption Ionization. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 6118-6122	3.4	16
37	Primary structure of ovine fibroblast growth factor-1 deduced by protein and cDNA analysis. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 246, 182-91	3.4	
36	Compact tunable Cr:LiSAF laser for infrared matrix-assisted laser desorption/ionization. <i>Rapid Communications in Mass Spectrometry</i> , 1997 , 11, 393-7	2.2	30
35	Matrix-assisted Laser Desorption/Ionization by Two Collinear Subthreshold Laser Pulses. <i>Rapid Communications in Mass Spectrometry</i> , 1997 , 11, 484-488	2.2	23
34	Matrix Guest Energy Transfer in Matrix-assisted Laser Desorption 1997 , 11, 679-682		32
33	Detection and quantitation of beta-2-microglobulin glycosylated end products in human serum by matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical Chemistry</i> , 1996 , 68, 3740-5	7.8	31
32	Amino acid composition and wavelength effects in matrix-assisted laser desorption/ionization. <i>Rapid Communications in Mass Spectrometry</i> , 1995 , 9, 744-752	2.2	40
31	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	2.2	45
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