Sarah Trimpin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Applications of vacuum MAI on a portable mass spectrometer. International Journal of Mass Spectrometry, 2022, 474, 116798.	0.7	5
2	Comparison of gaseous ubiquitin ion structures obtained from a solid and solution matrix using ion mobility spectrometry/mass spectrometry. Rapid Communications in Mass Spectrometry, 2021, 35, e8793.	0.7	3
3	An overview of biological applications and fundamentals of new <i>inlet</i> and <i>vacuum</i> ionization technologies. Rapid Communications in Mass Spectrometry, 2021, 35, e8829.	0.7	9
4	Resolving Isomers of Star-Branched Poly(Ethylene Glycols) by IMS-MS Using Multiply Charged Ions. Journal of the American Society for Mass Spectrometry, 2021, 32, 21-32.	1.2	6
5	Toward understanding the ionization mechanism of matrixâ€assisted ionization using mass spectrometry experiment and theory. Rapid Communications in Mass Spectrometry, 2021, 35, e8382.	0.7	13
6	Matrixâ€assisted ionization mass spectrometry in targeted protein analysis – An initial evaluation. Rapid Communications in Mass Spectrometry, 2021, 35, e8437.	0.7	8
7	Development of a robotics platform for automated multiâ€ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2021, 35, e8449.	0.7	9
8	Sublimation Driven Ionization for Use in Mass Spectrometry: Mechanistic Implications. Journal of the American Society for Mass Spectrometry, 2021, 32, 114-123.	1.2	9
9	A Combination MAI and MALDI Vacuum Source Operational from Atmospheric Pressure for Fast, Robust, and Sensitive Analyses. Journal of the American Society for Mass Spectrometry, 2021, 32, 124-132.	1.2	6
10	Expression and <i>In Vivo</i> Characterization of the Antimicrobial Peptide Oncocin and Variants Binding to Ribosomes. Biochemistry, 2020, 59, 3380-3391.	1.2	12
11	New mass spectrometry concepts for characterization of synthetic polymers and additives. Rapid Communications in Mass Spectrometry, 2020, 34, e8768.	0.7	1
12	Novel ionization processes for use in mass spectrometry: â€~Squeezing' nonvolatile analyte ions from crystals and droplets. Rapid Communications in Mass Spectrometry, 2019, 33, 96-120.	0.7	26
13	1000-Fold Preconcentration of Per- and Polyfluorinated Alkyl Substances within 10 Minutes via Electrochemical Aerosol Formation. Analytical Chemistry, 2019, 91, 14352-14358.	3.2	28
14	Fundamental Studies of New Ionization Technologies and Insights from IMS-MS. Journal of the American Society for Mass Spectrometry, 2019, 30, 1133-1147.	1.2	17
15	Unprecedented Ionization Processes in Mass Spectrometry Provide Missing Link between ESI and MALDI. ChemPhysChem, 2018, 19, 550-550.	1.0	0
16	Unprecedented Ionization Processes in Mass Spectrometry Provide Missing Link between ESI and MALDI. ChemPhysChem, 2018, 19, 581-589.	1.0	16
17	Spontaneous Charge Separation and Sublimation Processes are Ubiquitous in Nature and in Ionization Processes in Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 304-315.	1.2	26
18	Vacuum Matrix-Assisted Ionization Source Offering Simplicity, Sensitivity, and Exceptional Robustness in Mass Spectrometry. Analytical Chemistry, 2018, 90, 11188-11192.	3.2	20

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19	An LC/MS Method Providing Improved Sensitivity: Electrospray Ionization Inlet. Analytical Chemistry, 2017, 89, 4798-4802.	3.2	16
20	Development of an easily adaptable, high sensitivity source for inlet ionization. Analytical Methods, 2017, 9, 4971-4978.	1.3	14
21	Advances in Ionization for Mass Spectrometry. Analytical Chemistry, 2017, 89, 372-388.	3.2	90
22	A broadâ€based study on hyphenating new ionization technologies with MS/MS for PTMs and tissue characterization. Proteomics, 2016, 16, 1695-1706.	1.3	19
23	Myelinâ€ŧargeted, texaphyrinâ€based multimodal imaging agent for magnetic resonance and optical imaging. Contrast Media and Molecular Imaging, 2016, 11, 492-505.	0.4	8
24	Rapid high mass resolution mass spectrometry using matrix-assisted ionization. Methods, 2016, 104, 63-68.	1.9	21
25	Simplifying the ion source for mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 2568-2572.	0.7	22
26	Matrix-Assisted Ionization on a Portable Mass Spectrometer: Analysis Directly from Biological and Synthetic Materials. Analytical Chemistry, 2016, 88, 10831-10836.	3.2	42
27	"Magic" Ionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2016, 27, 4-21.	1.2	62
28	Drug Detection and Quantification Directly from Tissue Using Novel Ionization Methods for Mass Spectrometry. European Journal of Mass Spectrometry, 2015, 21, 201-210.	0.5	20
29	Use of Ion Mobility Spectrometry–Mass Spectrometry to Elucidate Architectural Dispersity within Star Polymers. ACS Macro Letters, 2015, 4, 778-782.	2.3	30
30	Reproducibility and Quantification of Illicit Drugs Using Matrix-Assisted Ionization (MAI) Mass Spectrometry. Analytical Chemistry, 2015, 87, 8301-8306.	3.2	25
31	High-Throughput Characterization of Small and Large Molecules Using Only a Matrix and the Vacuum of a Mass Spectrometer. Analytical Chemistry, 2015, 87, 4667-4674.	3.2	31
32	Matrix-Assisted Ionization-Ion Mobility Spectrometry-Mass Spectrometry: Selective Analysis of a Europium–PEG Complex in a Crude Mixture. Journal of the American Society for Mass Spectrometry, 2015, 26, 2086-2095.	1.2	14
33	Magic matrices for ionization in mass spectrometry. International Journal of Mass Spectrometry, 2015, 377, 532-545.	0.7	43
34	Characterizing synthetic polymers and additives using new ionization methods for mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 1175-1184.	0.7	17
35	Transmission Geometry Laserspray Ionization <i>Vacuum</i> Using an Atmospheric Pressure Inlet. Analytical Chemistry, 2014, 86, 6208-6213.	3.2	16
36	Gas-Phase Ions Produced by Freezing Water or Methanol for Analysis Using Mass Spectrometry. Analytical Chemistry, 2014, 86, 7343-7350.	3.2	19

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37	Matrix-Assisted Ionization Vacuum for High-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometers. Analytical Chemistry, 2014, 86, 6792-6796.	3.2	27
38	High-Throughput Solvent Assisted Ionization <i>Inlet</i> for Use in Mass Spectrometry. Analytical Chemistry, 2014, 86, 1000-1006.	3.2	30
39	Toward high spatial resolution sampling and characterization of biological tissue surfaces using mass spectrometry. Analytical and Bioanalytical Chemistry, 2014, 406, 4053-4061.	1.9	12
40	Inlet and Vacuum Ionization from Ambient Conditions. New Developments in Mass Spectrometry, 2014, , 423-444.	0.2	4
41	Laserspray and Matrix-Assisted Ionization Inlet Coupled to High-Field FT-ICR Mass Spectrometry for Peptide and Protein Analysis. Journal of the American Society for Mass Spectrometry, 2013, 24, 320-328.	1.2	28
42	The potential for clinical applications using a new ionization method combined with ion mobility spectrometry-mass spectrometry. International Journal for Ion Mobility Spectrometry, 2013, 16, 145-159.	1.4	33
43	New ionization processes and applications for use in mass spectrometry. Critical Reviews in Biochemistry and Molecular Biology, 2013, 48, 409-429.	2.3	31
44	New Ionization Method for Analysis on Atmospheric Pressure Ionization Mass Spectrometers Requiring Only Vacuum and Matrix Assistance. Analytical Chemistry, 2013, 85, 2005-2009.	3.2	49
45	Matrix Assisted Ionization in Vacuum, a Sensitive and Widely Applicable Ionization Method for Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2013, 24, 722-732.	1.2	87
46	A New Matrix Assisted Ionization Method for the Analysis of Volatile and Nonvolatile Compounds by Atmospheric Probe Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2013, 24, 1102-1107.	1.2	41
47	Matrix Assisted Ionization Vacuum (MAIV), a New Ionization Method for Biological Materials Analysis Using Mass Spectrometry. Molecular and Cellular Proteomics, 2013, 12, 792-796.	2.5	77
48	Localization and imaging of gangliosides in mouse brain tissue sections by laserspray ionization inlet. Journal of Lipid Research, 2012, 53, 1390-1398.	2.0	36
49	Matrix Assisted Ionization: New Aromatic and Nonaromatic Matrix Compounds Producing Multiply Charged Lipid, Peptide, and Protein Ions in the Positive and Negative Mode Observed Directly from Surfaces. Journal of the American Society for Mass Spectrometry, 2012, 23, 1625-1643.	1.2	61
50	A Mechanism for Ionization of Nonvolatile Compounds in Mass Spectrometry: Considerations from MALDI and Inlet Ionization. Journal of the American Society for Mass Spectrometry, 2012, 23, 1644-1660.	1.2	110
51	Laserspray Ionization Imaging of Multiply Charged Ions Using a Commercial Vacuum MALDI Ion Source. Analytical Chemistry, 2012, 84, 9079-9084.	3.2	40
52	A New Approach to High Sensitivity Liquid Chromatography-Mass Spectrometry of Peptides using Nanoflow Solvent Assisted Inlet Ionization. Journal of the American Society for Mass Spectrometry, 2012, 23, 442-445.	1.2	29
53	Producing Highly Charged Ions without Solvent Using Laserspray Ionization: A Total Solvent-Free Analysis Approach at Atmospheric Pressure. Analytical Chemistry, 2011, 83, 4076-4084.	3.2	21
54	Laserspray Ionization, a New Method for Protein Analysis Directly from Tissue at Atmospheric Pressure with Ultrahigh Mass Resolution and Electron Transfer Dissociation. Molecular and Cellular Proteomics, 2011, 10, S1-S8.	2.5	59

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55	Inlet Ionization: A New Highly Sensitive Approach for Liquid Chromatography/Mass Spectrometry of Small and Large Molecules. Analytical Chemistry, 2011, 83, 7591-7594.	3.2	55
56	Commercial Intermediate Pressure MALDI Ion Mobility Spectrometry Mass Spectrometer Capable of Producing Highly Charged Laserspray Ionization Ions. Analytical Chemistry, 2011, 83, 678-684.	3.2	52
57	Extending the Laserspray Ionization Concept to Produce Highly Charged Ions at High Vacuum on a Time-of-Flight Mass Analyzer. Analytical Chemistry, 2011, 83, 5469-5475.	3.2	51
58	Architectural Differentiation of Linear and Cyclic Polymeric Isomers by Ion Mobility Spectrometry-Mass Spectrometry. Macromolecules, 2011, 44, 6915-6918.	2.2	87
59	Highâ€throughput analysis of peptides and proteins by laserspray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 247-250.	0.7	17
60	Imaging mass spectrometry in transmission geometry. Rapid Communications in Mass Spectrometry, 2011, 25, 815-820.	0.7	61
61	Inlet ionization: protein analyses from the solid state without the use of a voltage or a laser producing up to 67 charges on the 66 kDa BSA protein. Rapid Communications in Mass Spectrometry, 2011, 25, 3453-3456.	0.7	29
62	An alternative ionization paradigm for atmospheric pressure mass spectrometry: Flying elephants from Trojan horses. International Journal of Mass Spectrometry, 2011, 300, 167-172.	0.7	40
63	A perspective on MALDI alternatives—total solventâ€free analysis and electron transfer dissociation of highly charged ions by laserspray ionization. Journal of Mass Spectrometry, 2010, 45, 471-485.	0.7	32
64	Laserspray ionization (LSI) ion mobility spectrometry (IMS) mass spectrometry. Journal of the American Society for Mass Spectrometry, 2010, 21, 1260-1264.	1.2	52
65	Laserspray Ionization Using an Atmospheric Solids Analysis Probe for Sample Introduction. Journal of the American Society for Mass Spectrometry, 2010, 21, 1889-92.	1.2	16
66	Automated Solvent-Free Matrix Deposition for Tissue Imaging by Mass Spectrometry. Analytical Chemistry, 2010, 82, 359-367.	3.2	62
67	Laserspray Ionization on a Commercial Atmospheric Pressure-MALDI Mass Spectrometer Ion Source: Selecting Singly or Multiply Charged Ions. Analytical Chemistry, 2010, 82, 4998-5001.	3.2	57
68	Laserspray Ionization, a New Atmospheric Pressure MALDI Method for Producing Highly Charged Gas-phase Ions of Peptides and Proteins Directly from Solid Solutions. Molecular and Cellular Proteomics, 2010, 9, 362-367.	2.5	127
69	Laserspray Ionization-Ion Mobility Spectrometryâ^'Mass Spectrometry: Baseline Separation of Isomeric Amyloids without the Use of Solvents Desorbed and Ionized Directly from a Surface. Journal of Proteome Research, 2010, 9, 6077-6081.	1.8	49
70	Mass Spectrometry of Synthetic Polymers. Analytical Chemistry, 2010, 82, 4811-4829.	3.2	109
71	New Paradigm in Ionization: Multiply Charged Ion Formation from a Solid Matrix without a Laser or Voltage. Analytical Chemistry, 2010, 82, 9164-9168.	3.2	94
72	Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Method for Selectively Producing Either Singly or Multiply Charged Molecular Ions. Analytical Chemistry, 2010, 82, 11-15.	3.2	92

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73	Analysis of insoluble proteins. BioTechniques, 2009, 46, 321-326.	0.8	3
74	Analysis of insoluble proteins. BioTechniques, 2009, 46, 409-419.	0.8	31
75	Fieldâ€free transmission geometry atmospheric pressure matrixâ€assisted laser desorption/ionization for rapid analysis of unadulterated tissue samples. Rapid Communications in Mass Spectrometry, 2009, 23, 3023-3027.	0.7	56
76	Profiling of phospholipids and related lipid structures using multidimensional ion mobility spectrometry-mass spectrometry. International Journal of Mass Spectrometry, 2009, 287, 58-69.	0.7	56
77	Rapid methods of polymer and polymer additives identification: Multi-sample solvent-free MALDI, pyrolysis at atmospheric pressure, and atmospheric solids analysis probe mass spectrometry. Analytica Chimica Acta, 2009, 654, 20-25.	2.6	61
78	Mass Spectrometry of Synthetic Polymers. Analytical Chemistry, 2008, 80, 4349-4361.	3.2	88
79	Ion Mobility Spectrometry/Mass Spectrometry Snapshots for Assessing the Molecular Compositions of Complex Polymeric Systems. Analytical Chemistry, 2008, 80, 9073-9083.	3.2	162
80	Resolving Oligomers from Fully Grown Polymers with IMSâ^'MS. Analytical Chemistry, 2007, 79, 7965-7974.	3.2	135
81	Fractionation and Solvent-Free MALDI-MS Analysis of Polymers Using Liquid Adsorption Chromatography at Critical Conditions in Combination with a Multisample On-Target Homogenization/Transfer Sample Preparation Method. Analytical Chemistry, 2007, 79, 7565-7570.	3.2	49
82	Solvent-Free MALDI-MS for the Analysis of a Membrane Protein via the Mini Ball Mill Approach:Â Case Study of Bacteriorhodopsin. Analytical Chemistry, 2007, 79, 71-78.	3.2	44
83	Mapping the human plasma proteome by SCX-LC-IMS-MS. Journal of the American Society for Mass Spectrometry, 2007, 18, 1249-1264.	1.2	171
84	Solvent-free MALDI-MS for the analysis of β-amyloid peptides via the mini-ball mill approach: Qualitative and quantitative advances. Journal of the American Society for Mass Spectrometry, 2007, 18, 1533-1543.	1.2	42
85	Charge-remote fragmentation of lithiated fatty acids on a TOF-TOF instrument using matrix-ionization. Journal of the American Society for Mass Spectrometry, 2007, 18, 1967-1972.	1.2	57
86	Multisample preparation methods for the solvent-free MALDI-MS analysis of synthetic polymers. Journal of the American Society for Mass Spectrometry, 2007, 18, 377-381.	1.2	36
87	Solvent-free MALDI-MS for the analysis of biological samples via a mini-ball mill approach. Journal of the American Society for Mass Spectrometry, 2005, 16, 542-547.	1.2	39
88	Novel Approach to Ladder-Type Polymers: Polydithiathianthrene via the Intramolecular Acid-Induced Cyclization of Methylsulfinyl-Substituted Poly(meta-phenylene sulfide). Macromolecular Chemistry and Physics, 2001, 202, 2832-2842.	1,1	31