

# Facundo Fernandez

## List of Publications by Year in descending order

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206  
papers

9,727  
citations

31902

53  
h-index

49773

87  
g-index

222  
all docs

222  
docs citations

222  
times ranked

8470  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ambient Sampling/Ionization Mass Spectrometry: Applications and Current Trends. <i>Analytical Chemistry</i> , 2011, 83, 4508-4538.	3.2	480
2	Mass Spectrometry: Recent Advances in Direct Open Air Surface Sampling/Ionization. <i>Chemical Reviews</i> , 2013, 113, 2269-2308.	23.0	434
3	Counterfeit anti-infective drugs. <i>Lancet Infectious Diseases</i> , The, 2006, 6, 602-613.	4.6	294
4	Triboelectric nanogenerators for sensitive nano-coulomb molecular mass spectrometry. <i>Nature Nanotechnology</i> , 2017, 12, 481-487.	15.6	254
5	Ester-Mediated Amide Bond Formation Driven by Wet-Dry Cycles: A Possible Path to Polypeptides on the Prebiotic Earth. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9871-9875.	7.2	246
6	Recent developments in ambient ionization techniques for analytical mass spectrometry. <i>Analyst</i> , The, 2008, 133, 1297.	1.7	205
7	Desorption electrospray ionization mass spectrometry reveals surface-mediated antifungal chemical defense of a tropical seaweed. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7314-7319.	3.3	200
8	Characterization of Solid Counterfeit Drug Samples by Desorption Electrospray Ionization and Direct-analysis-in-real-time Coupled to Time-of-flight Mass Spectrometry. <i>ChemMedChem</i> , 2006, 1, 702-705.	1.6	199
9	Impact of poor-quality medicines in the "developing" world. <i>Trends in Pharmacological Sciences</i> , 2010, 31, 99-101.	4.0	192
10	A Collaborative Epidemiological Investigation into the Criminal Fake Artesunate Trade in South East Asia. <i>PLoS Medicine</i> , 2008, 5, e32.	3.9	184
11	Guidelines for Field Surveys of the Quality of Medicines: A Proposal. <i>PLoS Medicine</i> , 2009, 6, e1000052.	3.9	152
12	Reactive Desorption Electrospray Ionization Linear Ion Trap Mass Spectrometry of Latest-Generation Counterfeit Antimalarials via Noncovalent Complex Formation. <i>Analytical Chemistry</i> , 2007, 79, 2150-2157.	3.2	143
13	Manslaughter by Fake Artesunate in Asia-Will Africa Be Next?. <i>PLoS Medicine</i> , 2006, 3, e197.	3.9	141
14	Simultaneous Time-Dependent Surface-Enhanced Raman Spectroscopy, Metabolomics, and Proteomics Reveal Cancer Cell Death Mechanisms Associated with Gold Nanorod Photothermal Therapy. <i>Journal of the American Chemical Society</i> , 2016, 138, 15434-15442.	6.6	128
15	COVID-19 and risks to the supply and quality of tests, drugs, and vaccines. <i>The Lancet Global Health</i> , 2020, 8, e754-e755.	2.9	128
16	Optimization of a direct analysis in real time/time-of-flight mass spectrometry method for rapid serum metabolomic fingerprinting. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 68-75.	1.2	121
17	Ambient generation of fatty acid methyl ester ions from bacterial whole cells by direct analysis in real time (DART) mass spectrometry. <i>Chemical Communications</i> , 2007, , 807-809.	2.2	116
18	Metabolomics and proteomics reveal impacts of chemically mediated competition on marine plankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9009-9014.	3.3	112

#	ARTICLE	IF	CITATIONS
19	Poor quality vital anti-malarials in Africa - an urgent neglected public health priority. <i>Malaria Journal</i> , 2011, 10, 352.	0.8	111
20	Small Molecule Ambient Mass Spectrometry Imaging by Infrared Laser Ablation Metastable-Induced Chemical Ionization. <i>Analytical Chemistry</i> , 2010, 82, 2178-2181.	3.2	101
21	Ovarian cancer detection from metabolomic liquid chromatography/mass spectrometry data by support vector machines. <i>BMC Bioinformatics</i> , 2009, 10, 259.	1.2	96
22	Simulations and Experimental Investigation of Atmospheric Transport in an Ambient Metastable-Induced Chemical Ionization Source. <i>Analytical Chemistry</i> , 2009, 81, 322-329.	3.2	96
23	Ester Formation and Hydrolysis during Wet-Dry Cycles: Generation of Far-from-Equilibrium Polymers in a Model Prebiotic Reaction. <i>Macromolecules</i> , 2014, 47, 1334-1343.	2.2	94
24	Combined Fourier-transform infrared imaging and desorption electrospray-ionization linear ion-trap mass spectrometry for analysis of counterfeit antimalarial tablets. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 551-559.	1.9	91
25	Combining Two-Dimensional Diffusion-Ordered Nuclear Magnetic Resonance Spectroscopy, Imaging Desorption Electrospray Ionization Mass Spectrometry, and Direct Analysis in Real-Time Mass Spectrometry for the Integral Investigation of Counterfeit Pharmaceuticals. <i>Analytical Chemistry</i> , 2009, 81, 4803-4812.	3.2	89
26	Fast detection and identification of counterfeit antimalarial tablets by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 181-187.	1.2	86
27	Collision cross section calibrants for negative ion mode traveling wave ion mobility-mass spectrometry. <i>Analyst, The</i> , 2015, 140, 6853-6861.	1.7	86
28	Assessment of hand-held Raman instrumentation for in situ screening for potentially counterfeit artesunate antimalarial tablets by FT-Raman spectroscopy and direct ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2008, 623, 178-186.	2.6	83
29	A Plausible Simultaneous Synthesis of Amino Acids and Simple Peptides on the Primordial Earth. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8132-8136.	7.2	82
30	Nucleoside phosphorylation by the mineral schreibersite. <i>Scientific Reports</i> , 2015, 5, 17198.	1.6	82
31	Mind the gaps - the epidemiology of poor-quality anti-malarials in the malarious world - analysis of the WorldWide Antimalarial Resistance Network database. <i>Malaria Journal</i> , 2014, 13, 139.	0.8	81
32	Direct high-resolution peptide and protein analysis by desorption electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3409-3411.	0.7	80
33	Detecting counterfeit antimalarial tablets by near-infrared spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 1011-1014.	1.4	74
34	Rapid Mass Spectrometric Metabolic Profiling of Blood Sera Detects Ovarian Cancer with High Accuracy. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2010, 19, 2262-2271.	1.1	74
35	Prevalence and Detection of Counterfeit Pharmaceuticals: A Mini Review. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 585-590.	1.8	73
36	Transmission-mode direct analysis in real time and desorption electrospray ionization mass spectrometry of insecticide-treated bednets for malaria control. <i>Analyst, The</i> , 2010, 135, 712.	1.7	70

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37	CHARACTERIZATION OF COUNTERFEIT ARTESUNATE ANTIMALARIAL TABLETS FROM SOUTHEAST ASIA. <i>American Journal of Tropical Medicine and Hygiene</i> , 2006, 75, 804-811.	0.6	70
38	Direct quantitation of active ingredients in solid artesunate antimalarials by noncovalent complex forming reactive desorption electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 380-388.	1.2	69
39	Poor quality drugs: grand challenges in high throughput detection, countrywide sampling, and forensics in developing countries. <i>Analyst, The</i> , 2011, 136, 3073-3082.	1.7	69
40	International Ring Trial of a High Resolution Targeted Metabolomics and Lipidomics Platform for Serum and Plasma Analysis. <i>Analytical Chemistry</i> , 2019, 91, 14407-14416.	3.2	66
41	Highly-accurate metabolomic detection of early-stage ovarian cancer. <i>Scientific Reports</i> , 2015, 5, 16351.	1.6	65
42	Microplasma Discharge Ionization Source for Ambient Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 621-627.	3.2	64
43	Reactive desorption electrospray ionization mass spectrometry (DESI-MS) of natural products of a marine alga. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 245-254.	1.9	61
44	Prebiotic Phosphate Ester Syntheses in a Deep Eutectic Solvent. <i>Journal of Molecular Evolution</i> , 2014, 78, 109-117.	0.8	61
45	Direct Analysis in Real Time Coupled to Multiplexed Drift Tube Ion Mobility Spectrometry for Detecting Toxic Chemicals. <i>Analytical Chemistry</i> , 2011, 83, 1908-1915.	3.2	60
46	Seaweed Allelopathy Against Coral: Surface Distribution of a Seaweed Secondary Metabolite by Imaging Mass Spectrometry. <i>Journal of Chemical Ecology</i> , 2012, 38, 1203-1214.	0.9	60
47	Field detection devices for screening the quality of medicines: a systematic review. <i>BMJ Global Health</i> , 2018, 3, e000725.	2.0	60
48	Desorption Electrospray/Metastable-Induced Ionization: A Flexible Multimode Ambient Ion Generation Technique. <i>Analytical Chemistry</i> , 2009, 81, 7788-7794.	3.2	59
49	Feasibility of Detecting Prostate Cancer by Ultraperformance Liquid Chromatography- <sup>2</sup> Mass Spectrometry Serum Metabolomics. <i>Journal of Proteome Research</i> , 2014, 13, 3444-3454.	1.8	59
50	Ambient mass spectrometry in metabolomics. <i>Analyst, The</i> , 2017, 142, 3101-3117.	1.7	59
51	A stratified random survey of the proportion of poor quality oral artesunate sold at medicine outlets in the Lao PDR - implications for therapeutic failure and drug resistance. <i>Malaria Journal</i> , 2009, 8, 172.	0.8	57
52	Three-Dimensional Mass Spectrometry Imaging Identifies Lipid Markers of Medulloblastoma Metastasis. <i>Scientific Reports</i> , 2019, 9, 2205.	1.6	57
53	Use of refractometry and colorimetry as field methods to rapidly assess antimalarial drug quality. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 43, 105-110.	1.4	56
54	OmniSpect: An Open MATLAB-Based Tool for Visualization and Analysis of Matrix-Assisted Laser Desorption/Ionization and Desorption Electrospray Ionization Mass Spectrometry Images. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 646-649.	1.2	56

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55	Challenges in Identifying the Dark Molecules of Life. <i>Annual Review of Analytical Chemistry</i> , 2019, 12, 177-199.	2.8	55
56	Comparison of the internal energy deposition of direct analysis in real time and electrospray ionization time-of-flight mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 855-863.	1.2	54
57	Biochemical, Molecular, and Functional Characterization of PISCF-Allatostatin, a Regulator of Juvenile Hormone Biosynthesis in the Mosquito <i>Aedes aegypti</i> *. <i>Journal of Biological Chemistry</i> , 2006, 281, 34048-34055.	1.6	51
58	Surveying the sequence diversity of model prebiotic peptides by mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7652-E7659.	3.3	51
59	Seaweeds in the assessment of heavy metal pollution in the Gulf San Jorge, Argentina. <i>Environmental Pollution</i> , 1999, 104, 315-322.	3.7	48
60	Falsified medicines in Africa: all talk, no action. <i>The Lancet Global Health</i> , 2014, 2, e509-e510.	2.9	48
61	Responding to the Pandemic of Falsified Medicines. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 113-118.	0.6	48
62	Hadamard Transform Time-of-Flight Mass Spectrometry: A High-Speed Detector for Capillary-Format Separations. <i>Analytical Chemistry</i> , 2002, 74, 1611-1617.	3.2	47
63	Strain and phase identification of the U.S. category B agent <i>Coxiella burnetii</i> by matrix assisted laser desorption/ionization time-of-flight mass spectrometry and multivariate pattern recognition. <i>Analytica Chimica Acta</i> , 2007, 583, 23-31.	2.6	47
64	Biomarkers of Whale Shark Health: A Metabolomic Approach. <i>PLoS ONE</i> , 2012, 7, e49379.	1.1	47
65	Contrast-Enhanced Differential Mobility-Desorption Electrospray Ionization-Mass Spectrometry Imaging of Biological Tissues. <i>Analytical Chemistry</i> , 2014, 86, 3756-3763.	3.2	47
66	Hadamard Transform Time-of-Flight Mass Spectrometry: More Signal, More of the Time. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 30-35.	7.2	46
67	Continuous Two-Channel Time-of-Flight Mass Spectrometric Detection of Electrosprayed Ions. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6541-6544.	7.2	44
68	Rapid fingerprinting of sterols and related compounds in vegetable and animal oils and phytosterol enriched- margarines by transmission mode direct analysis in real time mass spectrometry. <i>Food Chemistry</i> , 2016, 211, 661-668.	4.2	44
69	Discovery of Lipidome Alterations Following Traumatic Brain Injury via High-Resolution Metabolomics. <i>Journal of Proteome Research</i> , 2018, 17, 2131-2143.	1.8	44
70	Transmission mode direct analysis in real time mass spectrometry for fast untargeted metabolic fingerprinting. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1311-1318.	0.7	43
71	Enhanced Direct Ambient Analysis by Differential Mobility-Filtered Desorption Electrospray Ionization-Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 9159-9163.	3.2	42
72	Collision cross section predictions using 2-dimensional molecular descriptors. <i>Chemical Communications</i> , 2017, 53, 7624-7627.	2.2	42

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73	Karenia brevis allelopathy compromises the lipidome, membrane integrity, and photosynthesis of competitors. <i>Scientific Reports</i> , 2018, 8, 9572.	1.6	42
74	Sensitivity of "Hot Spots" in the Direct Analysis in Real Time Mass Spectrometry of Nerve Agent Simulants. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 153-161.	1.2	41
75	Desorption electrospray ionization reactions between host crown ethers and the influenza neuraminidase inhibitor oseltamivir for the rapid screening of Tamiflu®. <i>Analyst</i> , The, 2008, 133, 1513.	1.7	40
76	Detection of Staphylococcus aureus Using <sup>15</sup> N-Labeled Bacteriophage Amplification Coupled with Matrix-Assisted Laser Desorption/Ionization-Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 2286-2293.	3.2	40
77	Sub-nanoliter metabolomics via mass spectrometry to characterize volume-limited samples. <i>Nature Communications</i> , 2020, 11, 5625.	5.8	39
78	Impaired Clinical Response in a Patient with Uncomplicated Falciparum Malaria Who Received Poor-Quality and Underdosed Intramuscular Artemether. <i>American Journal of Tropical Medicine and Hygiene</i> , 2008, 78, 552-555.	0.6	39
79	Fully Automatic On-line Separation Preconcentration System for Electrothermal Atomic Absorption Spectrometry: Determination of Cadmium and Lead in Sea-water. <i>Analyst</i> , The, 1997, 122, 679-684.	1.7	37
80	Performance, Resolving Power, and Radial Ion Distributions of a Prototype Nanoelectrospray Ionization Resistive Glass Atmospheric Pressure Ion Mobility Spectrometer. <i>Analytical Chemistry</i> , 2007, 79, 7782-7791.	3.2	37
81	Rapid direct analysis in real time (DART) mass spectrometric detection of juvenile hormone III and its terpene precursors. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 3005-3013.	1.9	37
82	A Repeat Random Survey of the Prevalence of Falsified and Substandard Antimalarials in the Lao PDR: A Change for the Better. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 95-104.	0.6	35
83	Quality of Artemisinin-Based Combination Formulations for Malaria Treatment: Prevalence and Risk Factors for Poor Quality Medicines in Public Facilities and Private Sector Drug Outlets in Enugu, Nigeria. <i>PLoS ONE</i> , 2015, 10, e0125577.	1.1	34
84	Quantitation of $\pm$ -hydroxy acids in complex prebiotic mixtures via liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2043-2051.	0.7	34
85	Uncovering PFAS and Other Xenobiotics in the Dark Metabolome Using Ion Mobility Spectrometry, Mass Defect Analysis, and Machine Learning. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9133-9143.	4.6	34
86	Antimalarial drug quality: methods to detect suspect drugs. <i>Therapy: Open Access in Clinical Medicine</i> , 2010, 7, 49-57.	0.2	33
87	Desorption atmospheric pressure photoionization and direct analysis in real time coupled with travelling wave ion mobility mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2325-2336.	0.7	33
88	Quality of Antimalarials at the Epicenter of Antimalarial Drug Resistance: Results from an Overt and Mystery Client Survey in Cambodia. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 39-50.	0.6	33
89	Effect of sequence length, sequence frequency, and data acquisition rate on the performance of a Hadamard transform time-of-flight mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 1302-1311.	1.2	31
90	Nanoelectrospray ion generation for high-throughput mass spectrometry using a micromachined ultrasonic ejector array. <i>Applied Physics Letters</i> , 2005, 86, 203110.	1.5	31

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91	Coupling laser ablation/desorption electrospray ionization to atmospheric pressure drift tube ion mobility spectrometry for the screening of antimalarial drug quality. <i>Analyst, The</i> , 2012, 137, 3039.	1.7	31
92	Feasibility of Early Detection of Cystic Fibrosis Acute Pulmonary Exacerbations by Exhaled Breath Condensate Metabolomics: A Pilot Study. <i>Journal of Proteome Research</i> , 2017, 16, 550-558.	1.8	31
93	Impaired clinical response in a patient with uncomplicated falciparum malaria who received poor-quality and underdosed intramuscular artemether. <i>American Journal of Tropical Medicine and Hygiene</i> , 2008, 78, 552-5.	0.6	31
94	Atmospheric Pressure Drift Tube Ion Mobility Orbitrap Mass Spectrometry: Initial Performance Characterization. <i>Analytical Chemistry</i> , 2017, 89, 11301-11309.	3.2	30
95	Preoperative Metabolic Signatures of Prostate Cancer Recurrence Following Radical Prostatectomy. <i>Journal of Proteome Research</i> , 2019, 18, 1316-1327.	1.8	30
96	Characterization of Yaa Chud Medicine on the Thailand-Myanmar Border: Selecting for Drug-resistant Malaria and Threatening Public Health. <i>American Journal of Tropical Medicine and Hygiene</i> , 2008, 79, 662-669.	0.6	30
97	Characterization of counterfeit artesunate antimalarial tablets from southeast Asia. <i>American Journal of Tropical Medicine and Hygiene</i> , 2006, 75, 804-11.	0.6	30
98	Fast Hadamard Transform Capillary Electrophoresis for On-Line, Time-Resolved Chemical Monitoring. <i>Analytical Chemistry</i> , 2006, 78, 1628-1635.	3.2	29
99	Targeting progesterone signaling prevents metastatic ovarian cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31993-32004.	3.3	29
100	Peptidyl $\beta$ -Ketoamides with Nucleobases, Methylpiperazine, and Dimethylaminoalkyl Substituents as Calpain Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 6326-6336.	2.9	28
101	Ambient mass spectrometry technologies for the detection of falsified drugs. <i>MedChemComm</i> , 2014, 5, 9-19.	3.5	28
102	Amino acids generated from hydrated Titan tholins: Comparison with Miller-Urey electric discharge products. <i>Icarus</i> , 2014, 237, 182-189.	1.1	28
103	Whole Reproductive System Non-Negative Matrix Factorization Mass Spectrometry Imaging of an Early-Stage Ovarian Cancer Mouse Model. <i>PLoS ONE</i> , 2016, 11, e0154837.	1.1	28
104	Kinetics of prebiotic depsipeptide formation from the ester-amide exchange reaction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28441-28450.	1.3	28
105	Correlated Materials Characterization via Multimodal Chemical and Functional Imaging. <i>ACS Nano</i> , 2018, 12, 11798-11818.	7.3	28
106	Mass spectrometry-based non-targeted metabolic profiling for disease detection: Recent developments. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 158-169.	5.8	28
107	Novel application and comparison of multivariate calibration for the simultaneous determination of Cu, Zn and Mn at trace levels using flow injection diode array spectrophotometry. <i>Analytica Chimica Acta</i> , 1999, 398, 93-102.	2.6	27
108	Digitally-Multiplexed Nanoelectrospray Ionization Atmospheric Pressure Drift Tube Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 1587-1594.	3.2	27

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109	Elongation of Model Prebiotic Proto-Peptides by Continuous Monomer Feeding. <i>Macromolecules</i> , 2017, 50, 9286-9294.	2.2	27
110	In vivo modeling of metastatic human high-grade serous ovarian cancer in mice. <i>PLoS Genetics</i> , 2020, 16, e1008808.	1.5	27
111	Serum biomarker profiling by solid-phase extraction with particle-embedded micro tips and matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 997-1008.	0.7	26
112	Quality of Artemisinin-based Combination Therapy for malaria found in Ghanaian markets and public health implications of their use. <i>BMC Pharmacology &amp; Toxicology</i> , 2016, 17, 48.	1.0	26
113	Theoretical and experimental study of the achievable separation power in resistive-glass atmospheric pressure ion mobility spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1911-1918.	0.7	25
114	Multicomponent kinetic determination of Cu, Zn, Co, Ni and Fe at trace levels by first and second order multivariate calibration. <i>Analytica Chimica Acta</i> , 2001, 433, 119-133.	2.6	24
115	A link between lead and cadmium kinetic speciation in seawater and accumulation by the green alga <i>Ulva lactuca</i> . <i>Environmental Pollution</i> , 2006, 141, 126-130.	3.7	24
116	Thioesters provide a plausible prebiotic path to proto-peptides. <i>Nature Communications</i> , 2022, 13, 2569.	5.8	24
117	Analytical Performance of a Venturi-Assisted Array of Micromachined Ultrasonic Electrospays Coupled to Ion Trap Mass Spectrometry for the Analysis of Peptides and Proteins. <i>Analytical Chemistry</i> , 2007, 79, 8154-8161.	3.2	23
118	Prebiotic Origin of Pre-mRNA Building Blocks in a Urea "Warm Little Pond" Scenario. <i>ChemBioChem</i> , 2020, 21, 3504-3510.	1.3	23
119	Rapid resolution of carbohydrate isomers via multi-site derivatization ion mobility-mass spectrometry. <i>Analyst</i> , 2018, 143, 949-955.	1.7	22
120	Flow Injection "Traveling-Wave Ion Mobility" Mass Spectrometry for Prostate-Cancer Metabolomics. <i>Analytical Chemistry</i> , 2018, 90, 13767-13774.	3.2	22
121	Machine Learning-Enabled Renal Cell Carcinoma Status Prediction Using Multiplatform Urine-Based Metabolomics. <i>Journal of Proteome Research</i> , 2021, 20, 3629-3641.	1.8	22
122	Protein identification via surface-induced dissociation in an FT-ICR mass spectrometer and a patchwork sequencing approach. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 700-709.	1.2	21
123	Ion mobility and liquid chromatography/mass spectrometry strategies for exhaled breath condensate glucose quantitation in cystic fibrosis studies. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 2263-2271.	0.7	21
124	Metabolomic Serum Profiling Detects Early-Stage High-Grade Serous Ovarian Cancer in a Mouse Model. <i>Journal of Proteome Research</i> , 2015, 14, 917-927.	1.8	21
125	Visualizing molecular distributions for biomaterials applications with mass spectrometry imaging: a review. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7444-7460.	2.9	21
126	Robotic Surface Analysis Mass Spectrometry (RoSA-MS) of Three-Dimensional Objects. <i>Analytical Chemistry</i> , 2018, 90, 3981-3986.	3.2	21



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127	Carbohydrate isomer resolution via multi-site derivatization cyclic ion mobility-mass spectrometry. <i>Analyst, The</i> , 2019, 144, 7220-7226.	1.7	21
128	Effects of modulation defects on hadamard transform time-of-flight mass spectrometry (HT-TOFMS). <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 278-286.	1.2	20
129	Submicrosecond Surface-Induced Dissociation of Peptide Ions in a MALDI TOF MS. <i>Analytical Chemistry</i> , 2004, 76, 5080-5091.	3.2	20
130	Viable <i>Staphylococcus aureus</i> Quantitation using <sup>15</sup> N Metabolically Labeled Bacteriophage Amplification Coupled with a Multiple Reaction Monitoring Proteomic Workflow. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.012849.	2.5	20
131	Collaborative Health and Enforcement Operations on the Quality of Antimalarials and Antibiotics in Southeast Asia. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 105-112.	0.6	20
132	Fingerprinting of falsified artemisinin combination therapies via direct analysis in real time coupled to a compact single quadrupole mass spectrometer. <i>Analytical Methods</i> , 2016, 8, 6616-6624.	1.3	20
133	Desorption Electrospray Ionization Imaging Mass Spectrometry as a Tool for Investigating Model Prebiotic Reactions on Mineral Surfaces.. <i>Analytical Chemistry</i> , 2013, 85, 1276-1279.	3.2	19
134	An Effective Approach for Coupling Direct Analysis in Real Time with Atmospheric Pressure Drift Tube Ion Mobility Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1538-1548.	1.2	19
135	Laser-Induced Acoustic Desorption Atmospheric Pressure Photoionization via VUV-Generating Microplasmas. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1805-1812.	1.2	19
136	Triboelectric nanogenerator (TENG) mass spectrometry of falsified antimalarials. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1585-1590.	0.7	19
137	Simultaneous Spectrophotometric Determination of Calcium and Magnesium in Mineral Waters by Means of Multivariate Partial Least-squares Regression. <i>Analyst, The</i> , 1997, 122, 639-643.	1.7	18
138	Automatic on-line ultratrace determination of Cd species of environmental significance in natural waters by FI-ETAAS. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 687-695.	1.6	18
139	Comparison of the internal energy deposition of venturi-assisted electrospray ionization and a venturi-assisted array of micromachined ultrasonic electrosprays (AMUSE). <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1320-1329.	1.2	18
140	Robotic plasma probe ionization mass spectrometry (RoPPI-MS) of non-planar surfaces. <i>Analyst, The</i> , 2014, 139, 2658.	1.7	17
141	Space- and Time-Resolved Metabolomics of a High-Grade Serous Ovarian Cancer Mouse Model. <i>Cancers</i> , 2022, 14, 2262.	1.7	17
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