

Renato Zenobi

List of Publications by Year in descending order

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445
papers

20,997
citations

11639

70
h-index

19726

117
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473
all docs

473
docs citations

473
times ranked

16631
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale chemical analysis by tip-enhanced Raman spectroscopy. <i>Chemical Physics Letters</i> , 2000, 318, 131-136.	1.2	1,418
2	Ion formation in MALDI mass spectrometry. <i>Mass Spectrometry Reviews</i> , 1998, 17, 337-366.	2.8	695
3	Quantitative determination of noncovalent binding interactions using soft ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2002, 216, 1-27.	0.7	457
4	Single Molecule Tip-Enhanced Raman Spectroscopy with Silver Tips. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1733-1738.	1.5	314
5	Synthesis of a Two-Dimensional Covalent Organic Monolayer through Dynamic Imine Chemistry at the Air/Water Interface. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 213-217.	7.2	276
6	High-quality near-field optical probes by tube etching. <i>Applied Physics Letters</i> , 1999, 75, 160-162.	1.5	275
7	Nanoscale Chemical Imaging Using Tip-Enhanced Raman Spectroscopy: A Critical Review. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5940-5954.	7.2	272
8	Chemical cross-linking with NHS esters: a systematic study on amino acid reactivities. <i>Journal of Mass Spectrometry</i> , 2009, 44, 694-706.	0.7	233
9	Tip-enhanced Raman Spectroscopy – Its status, challenges and future directions. <i>Chemical Physics Letters</i> , 2009, 472, 1-13.	1.2	229
10	What can we learn from ambient ionization techniques?. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1947-1963.	1.2	225
11	Mass spectrometry-based metabolomics of single yeast cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8790-8794.	3.3	214
12	Rapid detection of melamine in untreated milk and wheat gluten by ultrasound-assisted extractive electrospray ionization mass spectrometry (EESI-MS). <i>Chemical Communications</i> , 2009, , 559-561.	2.2	203
13	Rapid In-Vivo Fingerprinting of Nonvolatile Compounds in Breath by Extractive Electrospray Ionization Quadrupole Time-of-Flight Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 580-583.	7.2	194
14	Graphite/Liquid Mixed Matrices for Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 1996, 68, 3321-3329.	3.2	190
15	Near-Field Surface-Enhanced Raman Imaging of Dye-Labeled DNA with 100-nm Resolution. <i>Analytical Chemistry</i> , 1998, 70, 2646-2650.	3.2	183
16	Infrared and Raman chemical imaging and spectroscopy at the nanoscale. <i>Chemical Society Reviews</i> , 2020, 49, 3315-3347.	18.7	178
17	The Matrix Suppression Effect and Ionization Mechanisms in Matrix-assisted Laser Desorption/Ionization. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 871-877.	0.7	173
18	Nanoscale Chemical Imaging of Single-Layer Graphene. <i>ACS Nano</i> , 2011, 5, 8442-8448.	7.3	162

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19	Developments in and practical guidelines for tip-enhanced Raman spectroscopy. <i>Nanoscale</i> , 2012, 4, 1856-1870.	2.8	161
20	Nanoscale Roughness on Metal Surfaces Can Increase Tip-Enhanced Raman Scattering by an Order of Magnitude. <i>Nano Letters</i> , 2007, 7, 1401-1405.	4.5	160
21	On-Line Analysis of Exhaled Breath. <i>Chemical Reviews</i> , 2019, 119, 10803-10828.	23.0	157
22	Performing tip-enhanced Raman spectroscopy in liquids. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1392-1399.	1.2	156
23	Neutral Desorption Sampling of Living Objects for Rapid Analysis by Extractive Electrospray Ionization Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7591-7594.	7.2	150
24	Near-field surface-enhanced Raman spectroscopy of dye molecules adsorbed on silver island films. <i>Chemical Physics Letters</i> , 1998, 283, 381-385.	1.2	148
25	Towards chemical analysis of nanostructures in biofilms II: tip-enhanced Raman spectroscopy of alginates. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1907-1916.	1.9	138
26	A MALDI Sample Preparation Method Suitable for Insoluble Polymers. <i>Analytical Chemistry</i> , 2000, 72, 1707-1710.	3.2	137
27	Analytical techniques for single-cell metabolomics: state of the art and trends. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2493-2504.	1.9	136
28	Single-Cell MALDI-MS as an Analytical Tool for Studying Intrapopulation Metabolic Heterogeneity of Unicellular Organisms. <i>Analytical Chemistry</i> , 2010, 82, 7394-7400.	3.2	132
29	Mass Spectrometric Method for Analyzing Metabolites in Yeast with Single Cell Sensitivity. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5382-5385.	7.2	130
30	Synthesis of Two-Dimensional Analogues of Copolymers by Site-to-Site Transmetalation of Organometallic Monolayer Sheets. <i>Journal of the American Chemical Society</i> , 2014, 136, 6103-6110.	6.6	128
31	Analysis of Megadalton Ions Using Cryodetection MALDI Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2005, 77, 4329-4337.	3.2	125
32	Multi-metal electrohydrodynamic redox 3D printing at the submicron scale. <i>Nature Communications</i> , 2019, 10, 1853.	5.8	125
33	Neutral desorption sampling coupled to extractive electrospray ionization mass spectrometry for rapid differentiation of biosamples by metabolomic fingerprinting. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1123-1135.	0.7	120
34	Supramolecular Capsules: Strong versus Weak Chalcogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17259-17264.	7.2	117
35	Single cell metabolomics. <i>Current Opinion in Biotechnology</i> , 2011, 22, 26-31.	3.3	114
36	Differentiation of Maturity and Quality of Fruit Using Noninvasive Extractive Electrospray Ionization Quadrupole Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 1447-1455.	3.2	113

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37	Tip-Enhanced Raman Spectroscopy Can See More: The Case of Cytochrome c. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4867-4873.	1.5	113
38	Shrinking droplets in electrospray ionization and their influence on chemical equilibria. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 385-393.	1.2	111
39	Label-free determination of protein-ligand binding constants using mass spectrometry and validation using surface plasmon resonance and isothermal titration calorimetry. <i>Journal of Molecular Recognition</i> , 2009, 22, 319-329.	1.1	110
40	Interfacing Droplet Microfluidics with Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry: Label-Free Content Analysis of Single Droplets. <i>Analytical Chemistry</i> , 2013, 85, 1285-1289.	3.2	110
41	Nanoscale Atmospheric Pressure Laser Ablation-Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 1399-1402.	3.2	107
42	High-density micro-arrays for mass spectrometry. <i>Lab on A Chip</i> , 2010, 10, 3206.	3.1	105
43	Nanoscale chemical imaging of segregated lipid domains using tip-enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9978.	1.3	105
44	Tip-enhanced Raman spectroscopy: principles, practice, and applications to nanospectroscopic imaging of 2D materials. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 37-61.	1.9	104
45	Modern Raman Imaging: Vibrational Spectroscopy on the Micrometer and Nanometer Scales. <i>Annual Review of Analytical Chemistry</i> , 2013, 6, 379-398.	2.8	100
46	On the Mechanism of Extractive Electrospray Ionization. <i>Analytical Chemistry</i> , 2010, 82, 4494-4500.	3.2	98
47	Full Spectroscopic Tip-Enhanced Raman Imaging of Single Nanotapes Formed from β -Amyloid(1-40) Peptide Fragments. <i>ACS Nano</i> , 2013, 7, 911-920.	7.3	96
48	Pulsed laser-induced desorption and optical imaging on a nanometer scale with scanning near-field microscopy using chemically etched fiber tips. <i>Applied Physics Letters</i> , 1996, 68, 2491-2492.	1.5	95
49	Neutral desorption sampling of biological surfaces for rapid chemical characterization by extractive electrospray ionization mass spectrometry. <i>Nature Protocols</i> , 2008, 3, 1467-1475.	5.5	95
50	Plasmon-Driven Photocatalysis Leads to Products Known from E-beam and X-ray-Induced Surface Chemistry. <i>Nano Letters</i> , 2018, 18, 6740-6749.	4.5	95
51	Tip-enhanced Raman spectroscopy – an interlaboratory reproducibility and comparison study. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 22-31.	1.2	94
52	Direct Coupling of Solid-Phase Microextraction with Mass Spectrometry: Sub-pg/g Sensitivity Achieved Using a Dielectric Barrier Discharge Ionization Source. <i>Analytical Chemistry</i> , 2016, 88, 7252-7258.	3.2	92
53	Which electrospray-based ionization method best reflects protein-ligand interactions found in solution? A comparison of ESI, nanoESI, and ESSI for the determination of dissociation constants with mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 332-343.	1.2	91
54	Single-Cell Mass Spectrometry of Metabolites Extracted from Live Cells by Fluidic Force Microscopy. <i>Analytical Chemistry</i> , 2017, 89, 5017-5023.	3.2	90

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55	The matrix suppression effect in matrix-assisted laser desorption/ionization: application to negative ions and further characteristics. , 1998, 12, 529-534.		88
56	Laser Mass Spectrometric Analysis of Polycyclic Aromatic Hydrocarbons with Wide Wavelength Range Laser Multiphoton Ionization Spectroscopy. Analytical Chemistry, 1998, 70, 2660-2665.	3.2	88
57	Nanoscale Probing of a Polymer Blend Thin Film with Tip-Enhanced Raman Spectroscopy. Small, 2009, 5, 952-960.	5.2	88
58	Role of Electrons in Laser Desorption/Ionization Mass Spectrometry. Analytical Chemistry, 2003, 75, 6063-6067.	3.2	86
59	Towards rapid nanoscale chemical analysis using tip-enhanced Raman spectroscopy with Ag-coated dielectric tips. Analytical and Bioanalytical Chemistry, 2007, 387, 2655-2662.	1.9	86
60	Nanometre-scale spectroscopic visualization of catalytic sites during a hydrogenation reaction on a Pd/Au bimetallic catalyst. Nature Catalysis, 2020, 3, 834-842.	16.1	84
61	Ionization mechanisms in matrix-assisted laser desorption/ionization mass spectrometry: contribution of pre-formed ions. Rapid Communications in Mass Spectrometry, 1997, 11, 1483-1492.	0.7	83
62	Near-Field Heating, Annealing, and Signal Loss in Tip-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 2104-2108.	1.5	83
63	Asphaltene Adsorption onto an Iron Surface: Combined Near-Infrared (NIR), Raman, and AFM Study of the Kinetics, Thermodynamics, and Layer Structure. Energy & Fuels, 2011, 25, 189-196.	2.5	80
64	Understanding tip-enhanced Raman spectra of biological molecules: a combined Raman, SERS and TERS study. Journal of Raman Spectroscopy, 2012, 43, 1895-1904.	1.2	80
65	Thermal Denaturation of DNA G-Quadruplexes and Their Complexes with Ligands: Thermodynamic Analysis of the Multiple States Revealed by Mass Spectrometry. Journal of the American Chemical Society, 2018, 140, 12553-12565.	6.6	78
66	Optical Spectroscopy and Laser Desorption on a Nanometer Scale. Analytical Chemistry, 1997, 69, 749-754.	3.2	77
67	Mass spectrometric determination of association constants of adenylate kinase with two noncovalent inhibitors. Journal of the American Society for Mass Spectrometry, 2003, 14, 442-448.	1.2	74
68	Applying mass spectrometry to study noncovalent biomolecule complexes. Mass Spectrometry Reviews, 2016, 35, 48-70.	2.8	74
69	Enhancement of Raman Signals with Silver-Coated Tips. Applied Spectroscopy, 2006, 60, 1142-1147.	1.2	73
70	Real-time, on-line monitoring of organic chemical reactions using extractive electrospray ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 2993-2998.	0.7	72
71	Rapid classification of perfumes by extractive electrospray ionization mass spectrometry (EESI-MS). Rapid Communications in Mass Spectrometry, 2008, 22, 2009-2014.	0.7	70
72	Direct Quantification of Chemical Warfare Agents and Related Compounds at Low ppt Levels: Comparing Active Capillary Dielectric Barrier Discharge Plasma Ionization and Secondary Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2015, 87, 723-729.	3.2	70

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73	Atmospheric pressure glow discharge desorption mass spectrometry for rapid screening of pesticides in food. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2791-2798.	0.7	68
74	Active capillary plasma source for ambient mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1447-1452.	0.7	68
75	The reaction of hydrogen peroxide with hemoglobin induces extensive γ -globin crosslinking and impairs the interaction of hemoglobin with endogenous scavenger pathways. <i>Free Radical Biology and Medicine</i> , 2008, 45, 1150-1158.	1.3	66
76	Circadian Variation of the Human Metabolome Captured by Real-Time Breath Analysis. <i>PLoS ONE</i> , 2014, 9, e114422.	1.1	65
77	Vertical transport and plant uptake of nanoparticles in a soil mesocosm experiment. <i>Journal of Nanobiotechnology</i> , 2016, 14, 40.	4.2	64
78	Controlled Formation of Isolated Silver Islands for Surface-Enhanced Raman Scattering. <i>Applied Spectroscopy</i> , 2000, 54, 1577-1583.	1.2	63
79	Characterizing unusual metal substrates for gap-mode tip-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 227-233.	1.2	63
80	Reduction of Cu(II) in matrix-assisted laser desorption/ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 42-50.	1.2	62
81	Microfluidic Platform for Multimodal Analysis of Enzyme Secretion in Nanoliter Droplet Arrays. <i>Analytical Chemistry</i> , 2019, 91, 2066-2073.	3.2	62
82	Immunoassays with Direct Mass Spectrometric Detection. <i>Analytical Chemistry</i> , 2006, 78, 3562-3570.	3.2	60
83	Real-time monitoring of exhaled drugs by mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2014, 33, 394-413.	2.8	60
84	MALDI Mass Spectrometry of Dye~Peptide and Dye~Protein Complexes. <i>Analytical Chemistry</i> , 1998, 70, 1536-1543.	3.2	59
85	Fragmentation of benzylpyridinium α -thermometer ions and its effect on the accuracy of internal energy calibration. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 172-177.	1.2	59
86	Multidimensional Analysis of Single Algal Cells by Integrating Microspectroscopy with Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 1843-1849.	3.2	59
87	Human Breath Analysis May Support the Existence of Individual Metabolic Phenotypes. <i>PLoS ONE</i> , 2013, 8, e59909.	1.1	59
88	Ultrafine Cellulose Nanofiber-Assisted Physical and Chemical Cross-Linking of MXene Sheets for Electromagnetic Interference Shielding. <i>Small Methods</i> , 2021, 5, e2100889.	4.6	59
89	Internal energies of analyte ions generated from different matrix-assisted laser desorption/ionization matrices. <i>Journal of Mass Spectrometry</i> , 2000, 35, 1035-1041.	0.7	58
90	Evolution of the solvent polarity in an electrospray plume. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 378-385.	1.2	58

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91	Real-time, in vivo monitoring and pharmacokinetics of valproic acid via a novel biomarker in exhaled breath. <i>Chemical Communications</i> , 2011, 47, 4884.	2.2	58
92	Expanding metabolite coverage of real-time breath analysis by coupling a universal secondary electrospray ionization source and high resolution mass spectrometry—a pilot study on tobacco smokers. <i>Journal of Breath Research</i> , 2016, 10, 016010.	1.5	58
93	Clear evidence of fluorescence resonance energy transfer in gas-phase ions. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 1481-1487.	1.2	57
94	Protein structure information from mass spectrometry? Selective titration of arginine residues by sulfonates. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 810-818.	1.2	56
95	Analysis of single algal cells by combining mass spectrometry with Raman and fluorescence mapping. <i>Analyst</i> , 2013, 138, 6732.	1.7	56
96	Laser-induced molecular desorption and particle ejection from organic films. <i>Applied Surface Science</i> , 1999, 137, 125-135.	3.1	55
97	Epitope mapping on bovine prion protein using chemical cross-linking and mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2008, 43, 185-195.	0.7	55
98	Binding constant determination of high-affinity protein-ligand complexes by electrospray ionization mass spectrometry and ligand competition. <i>Journal of Mass Spectrometry</i> , 2008, 43, 600-608.	0.7	55
99	Missing Amide I Mode in Gap-Mode Tip-Enhanced Raman Spectra of Proteins. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23061-23066.	1.5	55
100	Monitoring Diurnal Changes in Exhaled Human Breath. <i>Analytical Chemistry</i> , 2013, 85, 369-373.	3.2	55
101	Drug Pharmacokinetics Determined by Real-Time Analysis of Mouse Breath. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7815-7818.	7.2	55
102	Time Resolved Infrared Spectroscopic Analysis of Aerosol Formed by Photo-Oxidation of 1,3,5-Trimethylbenzene and α -Pinene. <i>Aerosol Science and Technology</i> , 2005, 39, 822-830.	1.5	54
103	Rapid fingerprinting and classification of extra virgin olive oil by microjet sampling and extractive electrospray ionization mass spectrometry. <i>Analyst</i> , 2010, 135, 773.	1.7	54
104	Detection of Diethyl Phthalate in Perfumes by Extractive Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 123-129.	3.2	53
105	Probing the hydrophobic effect of noncovalent complexes by mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 286-289.	1.2	53
106	Pesticide analysis at ppt concentration levels: coupling nano-liquid chromatography with dielectric barrier discharge ionization-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3425-3434.	1.9	53
107	Atmospheric pressure soft ionization for gas chromatography with dielectric barrier discharge ionization-mass spectrometry (GC-DBDI-MS). <i>Analyst</i> , 2017, 142, 1909-1915.	1.7	53
108	Polymer cationization in matrix-assisted laser desorption/ionization. <i>European Journal of Mass Spectrometry</i> , 1998, 4, 421.	0.7	52

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109	Towards Nanoscale Molecular Analysis at Atmospheric Pressure by a Near-Field Laser Ablation Ion Trap/Time-of-Flight Mass Spectrometer. <i>Analytical Chemistry</i> , 2008, 80, 6537-6544.	3.2	52
110	The origin of electrons in MALDI and their use for sympathetic cooling of negative ions in FTICR. <i>International Journal of Mass Spectrometry</i> , 2002, 220, 11-19.	0.7	51
111	Production and fragmentation of multiply charged ions in "electron-free" matrix-assisted laser desorption/ionization. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 2343-2348.	0.7	51
112	High-Resolution Droplet-Based Fractionation of Nano-LC Separations onto Microarrays for MALDI-MS Analysis. <i>Analytical Chemistry</i> , 2014, 86, 4848-4855.	3.2	51
113	Effects of CPAP therapy withdrawal on exhaled breath pattern in obstructive sleep apnoea. <i>Thorax</i> , 2016, 71, 110-117.	2.7	51
114	Quantifying Protein-Protein Interactions Within Noncovalent Complexes Using Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 9251-9259.	3.2	50
115	Influence of Dimethylsulfoxide on Protein-Ligand Binding Affinities. <i>Analytical Chemistry</i> , 2013, 85, 2724-2730.	3.2	50
116	Rapid Characterization of Complex Viscous Liquids at the Molecular Level. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8277-8280.	7.2	49
117	Breath Analysis in Real Time by Mass Spectrometry in Chronic Obstructive Pulmonary Disease. <i>Respiration</i> , 2014, 87, 301-310.	1.2	49
118	Identification of 2-Alkenals, 4-Hydroxy-2-alkenals, and 4-Hydroxy-2,6-alkadienals in Exhaled Breath Condensate by UHPLC-HRMS and in Breath by Real-Time HRMS. <i>Analytical Chemistry</i> , 2015, 87, 3087-3093.	3.2	49
119	Immobilization of molecular catalysts on electrode surfaces using host-guest interactions. <i>Nature Chemistry</i> , 2021, 13, 523-529.	6.6	49
120	Scanning Near-Field Optical Microscopy and Spectroscopy as a Tool for Chemical Analysis. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1746-1756.	7.2	48
121	Critical evaluation of mass spectrometric measurement of dissociation constants: accuracy and cross-validation against surface plasmon resonance and circular dichroism for the calmodulin-melittin system. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 6187.	1.3	48
122	Determination of zinc to beta-peptide binding constants with electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2005, 40, 777-784.	0.7	47
123	High-throughput screening of PAHs and polar trace contaminants in water matrices by direct solid-phase microextraction coupled to a dielectric barrier discharge ionization source. <i>Analytica Chimica Acta</i> , 2018, 1030, 125-132.	2.6	47
124	Tuning the resonance frequency of Ag-coated dielectric tips. <i>Optics Express</i> , 2007, 15, 8309.	1.7	46
125	Exploring fluorescence and fragmentation of ions produced by electrospray ionization in ultrahigh vacuum. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 1731-1738.	1.2	46
126	Determination of Protein-Ligand Binding Constants of a Cooperatively Regulated Tetrameric Enzyme Using Electrospray Mass Spectrometry. <i>ACS Chemical Biology</i> , 2014, 9, 218-226.	1.6	46

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127	Real-time mass spectrometric identification of metabolites characteristic of chronic obstructive pulmonary disease in exhaled breath. <i>Clinical Mass Spectrometry</i> , 2018, 7, 29-35.	1.9	46
128	Matrix-dependent cationization in MALDI mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2004, 39, 808-816.	0.7	45
129	Fast polymer fingerprinting using flowing afterglow atmospheric pressure glow discharge mass spectrometry. <i>Analyst, The</i> , 2009, 134, 1629.	1.7	45
130	Simultaneous sampling of volatile and non-volatile analytes in beer for fast fingerprinting by extractive electrospray ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 405-413.	1.9	45
131	What Happens to Hydrophobic Interactions during Transfer from the Solution to the Gas Phase? The Case of Electrospray-Based Soft Ionization Methods. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1167-1177.	1.2	45
132	Lab-on-a-Chip: Extending the functionality of MALDI-MS and LDI-MS targets. <i>Mass Spectrometry Reviews</i> , 2011, 30, 435-478.	2.8	45
133	Chemical Mapping of Nanodefects within 2D Covalent Monolayers by Tip-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2018, 12, 5021-5029.	7.3	45
134	Mass spectrometric studies of dissociation constants of noncovalent complexes. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2011, 107, 199.	4.4	44
135	Intracellular CHO Cell Metabolite Profiling Reveals Steady-State Dependent Metabolic Fingerprints in Perfusion Culture. <i>Biotechnology Progress</i> , 2017, 33, 879-890.	1.3	44
136	Shell-Isolated Tip-Enhanced Raman and Fluorescence Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7523-7527.	7.2	44
137	Real-Time Monitoring of Tricarboxylic Acid Metabolites in Exhaled Breath. <i>Analytical Chemistry</i> , 2018, 90, 6453-6460.	3.2	44
138	Characterization of high molecular weight multimeric states of human haptoglobin and hemoglobin-based oxygen carriers by high-mass MALDI MS. <i>Journal of Separation Science</i> , 2009, 32, 1224-1230.	1.3	43
139	Influence of Ammonium Acetate Concentration on Receptor-Ligand Binding Affinities Measured by Native Nano ESI-MS: A Systematic Study. <i>Analytical Chemistry</i> , 2015, 87, 10378-10384.	3.2	43
140	Toward an Effective Control of DNA's Submolecular Conformation on a Surface. <i>Macromolecules</i> , 2016, 49, 643-652.	2.2	43
141	Mass-Spectrometric Detection of Omega-Oxidation Products of Aliphatic Fatty Acids in Exhaled Breath. <i>Analytical Chemistry</i> , 2017, 89, 10329-10334.	3.2	43
142	Direct Nanospectroscopic Verification of the Amyloid Aggregation Pathway. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8519-8524.	7.2	43
143	Time-Resolved Surface Temperature Measurement of MALDI Matrices under Pulsed UV Laser Irradiation. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2405-2410.	1.1	42
144	Estrogen receptor-ligand complexes measured by chip-based nanoelectrospray mass spectrometry: An approach for the screening of endocrine disruptors. <i>Protein Science</i> , 2007, 16, 938-946.	3.1	42

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145	Native Electrospray Ionization Mass Spectrometry Reveals Multiple Facets of Aptamer-Ligand Interactions: From Mechanism to Binding Constants. <i>Journal of the American Chemical Society</i> , 2018, 140, 7486-7497.	6.6	42
146	Multifunctional microscope for far-field and tip-enhanced Raman spectroscopy. <i>Review of Scientific Instruments</i> , 2006, 77, 023104.	0.6	41
147	Solid-Phase Microextraction Coupled to Capillary Atmospheric Pressure Photoionization-Mass Spectrometry for Direct Analysis of Polar and Nonpolar Compounds. <i>Analytical Chemistry</i> , 2018, 90, 5015-5022.	3.2	41
148	A benchmarking protocol for breath analysis: the peppermint experiment. <i>Journal of Breath Research</i> , 2020, 14, 046008.	1.5	41
149	Characterization of antibody-antigen interactions: Comparison between surface plasmon resonance measurements and high-mass matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2008, 375, 35-45.	1.1	40
150	Minimally Invasive Characterization of Covalent Monolayer Sheets Using Tip-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2015, 9, 4252-4259.	7.3	40
151	Molecular breath analysis supports altered amino acid metabolism in idiopathic pulmonary fibrosis. <i>Respirology</i> , 2019, 24, 437-444.	1.3	40
152	Towards chemical analysis of nanostructures in biofilms I: imaging of biological nanostructures. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1899-1905.	1.9	39
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442	Title is missing!. , 2019, 14, e0223877.		0
443	Title is missing!. , 2019, 14, e0223877.		0
444	Title is missing!. , 2019, 14, e0223877.		0
445	Title is missing!. , 2019, 14, e0223877.		0