Zoltan Takats

List of Publications by Year
in descending order

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167 papers	14,846 citations	29994 54 h-index	19136 118 g-index
173 all docs	173 docs citations	173 times ranked	11819 citing authors

#	Article	IF	Citations
1	Diagnostic Accuracy of Nipple Discharge Fluid Cytology: A Meta-Analysis and Systematic Review of the Literature. Annals of Surgical Oncology, 2022, 29, 1774-1786.	0.7	5
2	Method To Visualize the Intratumor Distribution and Impact of Gemcitabine in Pancreatic Ductal Adenocarcinoma by Multimodal Imaging. Analytical Chemistry, 2022, 94, 1795-1803.	3.2	20
3	Antiviral metabolite 3â€²-deoxy-3â€²,4â€²-didehydro-cytidine is detectable in serum and identifies acute viral infections including COVID-19. Med, 2022, 3, 204-215.e6.	2.2	12
4	Correlating Mass Spectrometry Imaging and Liquid Chromatography-Tandem Mass Spectrometry for Tissue-Based Pharmacokinetic Studies. Metabolites, 2022, 12, 261.	1.3	4
5	Implementation of corticosteroids in treatment of COVID-19 in the ISARIC WHO Clinical Characterisation Protocol UK: prospective, cohort study. The Lancet Digital Health, 2022, 4, e220-e234.	5.9	20
6	Mass recalibration for desorption electrospray ionization mass spectrometry imaging using endogenous reference ions. BMC Bioinformatics, 2022, 23, 133.	1.2	3
7	¹H NMR Signals from Urine Excreted Protein Are a Source of Bias in Probabilistic Quotient Normalization. Analytical Chemistry, 2022, 94, 6919-6923.	3.2	2
8	Automated Cancer Diagnostics via Analysis of Optical and Chemical Images by Deep and Shallow Learning. Metabolites, 2022, 12, 455.	1.3	0
9	Atmospheric-Pressure Infrared Laser-Ablation Plasma-Postionization Mass Spectrometry Imaging of Formalin-Fixed Paraffin-Embedded (FFPE) and Fresh-Frozen Tissue Sections with No Sample Preparation. Analytical Chemistry, 2022, 94, 9970-9974.	3.2	5
10	High Resolution Ambient MS Imaging of Biological Samples by Desorption Electro-Flow Focussing Ionization. Analytical Chemistry, 2022, 94, 10035-10044.	3.2	12
11	Diagnostic Accuracy of Nipple Aspirate Fluid Cytology in Asymptomatic Patients: A Meta-analysis and Systematic Review of the Literature. Annals of Surgical Oncology, 2021, 28, 3751-3760.	0.7	5
12	ASO Author Reflections: Diagnostic Accuracy of Nipple Aspirate Fluid Cytology in Asymptomatic Patients and Its Predictive Validity on Future Risk of Breast Cancer: A Meta-Analysis and Systematic Review of the Literature. Annals of Surgical Oncology, 2021, 28, 3761-3762.	0.7	2
13	Representing the Metabolome with High Fidelity: Range and Response as Quality Control Factors in LC-MS-Based Global Profiling. Analytical Chemistry, 2021, 93, 1924-1933.	3.2	26
14	Comparison of 13 C MRI of hyperpolarized [1â€•13 C]pyruvate and lactate with the corresponding mass spectrometry images in a murine lymphoma model. Magnetic Resonance in Medicine, 2021, 85, 3027-3035.	1.9	9
15	Evaluation of UV-C Decontamination of Clinical Tissue Sections for Spatially Resolved Analysis by Mass Spectrometry Imaging (MSI). Analytical Chemistry, 2021, 93, 2767-2775.	3.2	2
16	Deep Learning-Based Annotation Transfer between Molecular Imaging Modalities: An Automated Workflow for Multimodal Data Integration. Analytical Chemistry, 2021, 93, 3061-3071.	3.2	31
17	Validation of Ultrasonic Harmonic Scalpel for Real-Time Tissue Identification Using Rapid Evaporative Ionization Mass Spectrometry. Analytical Chemistry, 2021, 93, 5906-5916.	3.2	13
18	Endogenous aldehyde accumulation generates genotoxicity and exhaled biomarkers in esophageal adenocarcinoma. Nature Communications, 2021, 12, 1454.	5.8	20

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19	Breast health screening: a UK-wide questionnaire. BMJ Nutrition, Prevention and Health, 2021, 4, 206-212.	1.9	4
20	Sample Preparation Free Mass Spectrometry Using Laser-Assisted Rapid Evaporative Ionization Mass Spectrometry: Applications to Microbiology, Metabolic Biofluid Phenotyping, and Food Authenticity. Journal of the American Society for Mass Spectrometry, 2021, 32, 1393-1401.	1.2	16
21	Enhanced triacylglycerol catabolism by carboxylesterase 1 promotes aggressive colorectal carcinoma. Journal of Clinical Investigation, 2021, 131, .	3.9	25
22	Characterisation of in-hospital complications associated with COVID-19 using the ISARIC WHO Clinical Characterisation Protocol UK: a prospective, multicentre cohort study. Lancet, The, 2021, 398, 223-237.	6.3	110
23	Rapid ex vivo molecular fingerprinting of biofluids using laser-assisted rapid evaporative ionization mass spectrometry. Nature Protocols, 2021, 16, 4327-4354.	5.5	10
24	Direct Water-Assisted Laser Desorption/Ionization Mass Spectrometry Lipidomic Analysis and Classification of Formalin-Fixed Paraffin-Embedded Sarcoma Tissues without Dewaxing. Clinical Chemistry, 2021, 67, 1513-1523.	1.5	9
25	Implications of Peak Selection in the Interpretation of Unsupervised Mass Spectrometry Imaging Data Analyses. Analytical Chemistry, 2021, 93, 2309-2316.	3.2	18
26	The amino acid transporter SLC7A5 is required for efficient growth of KRAS-mutant colorectal cancer. Nature Genetics, 2021, 53, 16-26.	9.4	114
27	Lactate dehydrogenase activity staining demonstrates time-dependent immune cell infiltration in human ex-vivo burn-injured skin. Scientific Reports, 2021, 11, 21249.	1.6	6
28	The effect of sample age on the metabolic information extracted from formalin-fixed and paraffin embedded tissue samples using desorption electrospray ionization mass spectrometry imaging. Journal of Mass Spectrometry and Advances in the Clinical Lab, 2021, 22, 50-55.	1.3	8
29	Modality Agnostic Model for Spatial Resolution in Mass Spectrometry Imaging: Application to MALDI MSI Data. Analytical Chemistry, 2021, 93, 15295-15305.	3.2	4
30	Holistic Characterization of a Salmonella Typhimurium Infection Model Using Integrated Molecular Imaging. Journal of the American Society for Mass Spectrometry, 2021, 32, 2791-2802.	1.2	6
31	Direct on-swab metabolic profiling of vaginal microbiome host interactions during pregnancy and preterm birth. Nature Communications, 2021, 12, 5967.	5.8	33
32	Mass spectrometry transanal minimally invasive surgery (MS-TAMIS) to promote organ preservation in rectal cancer. Surgical Endoscopy and Other Interventional Techniques, 2020, 34, 3618-3625.	1.3	13
33	A Critical and Concise Review of Mass Spectrometry Applied to Imaging in Drug Discovery. SLAS Discovery, 2020, 25, 963-976.	1.4	42
34	Laser-assisted rapid evaporative ionisation mass spectrometry (LA-REIMS) as a metabolomics platform in cervical cancer screening. EBioMedicine, 2020, 60, 103017.	2.7	29
35	De Novo Lipogenesis Alters the Phospholipidome of Esophageal Adenocarcinoma. Cancer Research, 2020, 80, 2764-2774.	0.4	23
36	Universal Sample Preparation Unlocking Multimodal Molecular Tissue Imaging. Analytical Chemistry, 2020, 92, 11080-11088.	3.2	64

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37	Metabolic Fingerprinting Links Oncogenic PIK3CA with Enhanced Arachidonic Acid-Derived Eicosanoids. Cell, 2020, 181, 1596-1611.e27.	13.5	77
38	Rapid LA-REIMS and comprehensive UHPLC-HRMS for metabolic phenotyping of feces. Talanta, 2020, 217, 121043.	2.9	16
39	The intelligent knife (iKnife) and its intraoperative diagnostic advantage for the treatment of cervical disease. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7338-7346.	3.3	59
40	SPUTNIK: an R package for filtering of spatially related peaks in mass spectrometry imaging data. Bioinformatics, 2019, 35, 178-180.	1.8	20
41	Off-Colony Screening of Biosynthetic Libraries by Rapid Laser-Enabled Mass Spectrometry. ACS Synthetic Biology, 2019, 8, 2566-2575.	1.9	17
42	Water-assisted laser desorption/ionization mass spectrometry for minimally invasive in vivo and real-time surface analysis using SpiderMass. Nature Protocols, 2019, 14, 3162-3182.	5.5	41
43	Evaluation of Direct from Sample Metabolomics of Human Feces Using Rapid Evaporative Ionization Mass Spectrometry. Analytical Chemistry, 2019, 91, 13448-13457.	3.2	22
44	Systematic Isolation and Structure Elucidation of Urinary Metabolites Optimized for the Analytical-Scale Molecular Profiling Laboratory. Analytical Chemistry, 2019, 91, 8873-8882.	3.2	11
45	Matrix Assisted Rapid Evaporative Ionization Mass Spectrometry. Analytical Chemistry, 2019, 91, 9784-9791.	3.2	37
46	Colocalization Features for Classification of Tumors Using Desorption Electrospray Ionization Mass Spectrometry Imaging. Analytical Chemistry, 2019, 91, 6530-6540.	3.2	17
47	Rapid detection and specific identification of offals within minced beef samples utilising ambient mass spectrometry. Scientific Reports, 2019, 9, 6295.	1.6	38
48	Utilisation of Ambient Laser Desorption Ionisation Mass Spectrometry (ALDI-MS) Improves Lipid-Based Microbial Species Level Identification. Scientific Reports, 2019, 9, 3006.	1.6	23
49	Network Mapping of Molecular Biomarkers Influencing Radiation Response in Rectal Cancer. Clinical Colorectal Cancer, 2019, 18, e210-e222.	1.0	7
50	Optical Technologies for Endoscopic Real-Time Histologic Assessment of Colorectal Polyps: A Meta-Analysis. American Journal of Gastroenterology, 2019, 114, 1219-1230.	0.2	17
51	Construction and testing of an atmospheric-pressure transmission-mode matrix assisted laser desorption ionisation mass spectrometry imaging ion source with plasma ionisation enhancement. Analytica Chimica Acta, 2019, 1051, 110-119.	2.6	23
52	Application of novel solid phase extraction-NMR protocols for metabolic profiling of human urine. Faraday Discussions, 2019, 218, 395-416.	1.6	0
53	The surgical intelligent knife distinguishes normal, borderline and malignant gynaecological tissues using rapid evaporative ionisation mass spectrometry (REIMS). British Journal of Cancer, 2018, 118, 1349-1358.	2.9	115
54	Correlated Heterospectral Lipidomics for Biomolecular Profiling of Remyelination in Multiple Sclerosis. ACS Central Science, 2018, 4, 39-51.	5.3	44

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55	Rapid evaporative ionisation mass spectrometry and chemometrics for high-throughput screening of growth promoters in meat producing animals. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2018, 35, 900-910.	1.1	37
56	Mass spectrometry approaches to metabolic profiling of microbial communities within the human gastrointestinal tract. Methods, 2018, 149, 13-24.	1.9	21
57	Assessment of microbiota:host interactions at the vaginal mucosa interface. Methods, 2018, 149, 74-84.	1.9	20
58	BASIS: High-performance bioinformatics platform for processing of large-scale mass spectrometry imaging data in chemically augmented histology. Scientific Reports, 2018, 8, 4053.	1.6	30
59	Effect of Electrode Geometry on the Classification Performance of Rapid Evaporative Ionization Mass Spectrometric (REIMS) Bacterial Identification. Journal of the American Society for Mass Spectrometry, 2018, 29, 26-33.	1.2	20
60	Real-Time Molecular Diagnosis of Tumors Using Water-Assisted Laser Desorption/Ionization Mass Spectrometry Technology. Cancer Cell, 2018, 34, 840-851.e4.	7.7	71
61	Metabolic Biomarkers of Ageing in C57BL/6J Wild-Type and Flavin-Containing Monooxygenase 5 (FMO5)-Knockout Mice. Frontiers in Molecular Biosciences, 2018, 5, 28.	1.6	14
62	Metabolic Phenotyping and Strain Characterisation of Pseudomonas aeruginosa Isolates from Cystic Fibrosis Patients Using Rapid Evaporative Ionisation Mass Spectrometry. Scientific Reports, 2018, 8, 10952.	1.6	22
63	Pragmatic and rapid analysis of carbonyl, oxidation and chlorination nucleoside-adducts in murine tissue by UPLC-ESI-MS/MS. Talanta, 2018, 190, 436-442.	2.9	1
64	Deep learning and 3D-DESI imaging reveal the hidden metabolic heterogeneity of cancer. Chemical Science, 2017, 8, 3500-3511.	3.7	117
65	Diagnostic Accuracy of Intraoperative Techniques for Margin Assessment in Breast Cancer Surgery. Annals of Surgery, 2017, 265, 300-310.	2.1	180
66	Current and future therapies for Pseudomonas aeruginosa infection in patients with cystic fibrosis. FEMS Microbiology Letters, 2017, 364, .	0.7	85
67	Rapid evaporative ionization mass spectrometry for high-throughput screening in food analysis: The case of boar taint. Talanta, 2017, 169, 30-36.	2.9	79
68	Reducing the Margins of Error During Breast-Conserving Surgery. JAMA Surgery, 2017, 152, 517.	2.2	9
69	Medical Swab Analysis Using Desorption Electrospray Ionization Mass Spectrometry: A Noninvasive Approach for Mucosal Diagnostics. Analytical Chemistry, 2017, 89, 1540-1550.	3.2	31
70	Rapid Evaporative Ionisation Mass Spectrometry of surgical vapours towards an intelligent knife for precision breast surgery. European Journal of Surgical Oncology, 2017, 43, S6.	0.5	0
71	Translational utility of a hierarchical classification strategy in biomolecular data analytics. Scientific Reports, 2017, 7, 14981.	1.6	7
72	Faster, More Reproducible DESI-MS for Biological Tissue Imaging. Journal of the American Society for Mass Spectrometry, 2017, 28, 2090-2098.	1.2	84

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73	Rapid evaporative ionisation mass spectrometry of electrosurgical vapours for the identification of breast pathology: towards an intelligent knife for breast cancer surgery. Breast Cancer Research, 2017, 19, 59.	2.2	157
74	A novel methodology for in vivo endoscopic phenotyping of colorectal cancer based on real-time analysis of the mucosal lipidome: a prospective observational study of the iKnife. Surgical Endoscopy and Other Interventional Techniques, 2017, 31, 1361-1370.	1.3	92
75	A real time metabolomic profiling approach to detecting fish fraud using rapid evaporative ionisation mass spectrometry. Metabolomics, 2017, 13, 153.	1.4	80
76	Imaging of Esophageal Lymph Node Metastases by Desorption Electrospray Ionization Mass Spectrometry. Cancer Research, 2016, 76, 5647-5656.	0.4	29
77	Shotgun Lipidomic Profiling of the NCI60 Cell Line Panel Using Rapid Evaporative Ionization Mass Spectrometry. Analytical Chemistry, 2016, 88, 7507-7514.	3.2	34
78	Epithelial ovarian carcinoma diagnosis by desorption electrospray ionization mass spectrometry imaging. Scientific Reports, 2016, 6, 39219.	1.6	67
79	Intraoperative tissue identification by mass spectrometric technologies. TrAC - Trends in Analytical Chemistry, 2016, 85, 2-9.	5.8	32
80	Pseudomonas aeruginosainfection in cystic fibrosis: pathophysiological mechanisms and therapeutic approaches. Expert Review of Respiratory Medicine, 2016, 10, 685-697.	1.0	114
81	Development and Application of Ultra-Performance Liquid Chromatography-TOF MS for Precision Large Scale Urinary Metabolic Phenotyping. Analytical Chemistry, 2016, 88, 9004-9013.	3.2	113
82	Automated High-Throughput Identification and Characterization of Clinically Important Bacteria and Fungi using Rapid Evaporative Ionization Mass Spectrometry. Analytical Chemistry, 2016, 88, 9419-9426.	3.2	66
83	Rapid Evaporative Ionisation Mass Spectrometry (REIMS) Provides Accurate Direct from Culture Species Identification within the Genus Candida. Scientific Reports, 2016, 6, 36788.	1.6	48
84	Real time intraoperative classification of breast tissue with the intelligent knife. European Journal of Surgical Oncology, 2016, 42, S25.	0.5	3
85	Identification of the Species of Origin for Meat Products by Rapid Evaporative Ionization Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2016, 64, 4793-4800.	2.4	121
86	Investigation of the Impact of Desorption Electrospray Ionization Sprayer Geometry on Its Performance in Imaging of Biological Tissue. Analytical Chemistry, 2016, 88, 4808-4816.	3.2	23
87	Aurora kinase inhibitor nanoparticles target tumors with favorable therapeutic index in vivo. Science Translational Medicine, 2016, 8, 325ra17.	5.8	171
88	Spatially resolved profiling of colorectal cancer lipid biochemistry via DESI imaging mass spectrometry to reveal morphology-dependent alterations in fatty acid metabolism.. Journal of Clinical Oncology, 2016, 34, e15104-e15104.	0.8	4
89	In Vivo Endoscopic Tissue Identification by Rapid Evaporative Ionization Mass Spectrometry (REIMS). Angewandte Chemie - International Edition, 2015, 54, 11059-11062.	7.2	97
90	Benchmark datasets for 3D MALDI- and DESI-imaging mass spectrometry. GigaScience, 2015, 4, 20.	3.3	53

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91	Repeatability and reproducibility of desorption electrospray ionization-mass spectrometry (DESI-MS) for the imaging analysis of human cancer tissue: a gateway for clinical applications. Analytical Methods, 2015, 7, 71-80.	1.3	54
92	Spatially Resolved Metabolic Phenotyping of Breast Cancer by Desorption Electrospray Ionization Mass Spectrometry. Cancer Research, 2015, 75, 1828-1837.	0.4	134
93	Endocannabinoid-mediated modulation of Gq/11 protein-coupled receptor signaling-induced vasoconstriction and hypertension. Molecular and Cellular Endocrinology, 2015, 403, 46-56.	1.6	31
94	Rapid Evaporative Ionization Mass Spectrometry Imaging Platform for Direct Mapping from Bulk Tissue and Bacterial Growth Media. Analytical Chemistry, 2015, 87, 2527-2534.	3.2	85
95	11. Intra-operative Rapid Evaporative Ionisation Mass Spectrometry: A future intelligent knife (iKnife) for oncological margin control?. European Journal of Surgical Oncology, 2015, 41, S20.	0.5	1
96	Unique metabolites protect earthworms against plant polyphenols. Nature Communications, 2015, 6, 7869.	5.8	71
97	Quantitative Analytical Method for the Determination of Biotinidase Activity in Dried Blood Spot Samples. Analytical Chemistry, 2015, 87, 10573-10578.	3.2	4
98	Development of nanoelectrospray high resolution isotope dilution mass spectrometry for targeted quantitative analysis of urinary metabolites: application to population profiling and clinical studies. Analytical Methods, 2015, 7, 5122-5133.	1.3	8
99	A comprehensive high-resolution mass spectrometry approach for characterization of metabolites by combination of ambient ionization, chromatography and imaging methods. Rapid Communications in Mass Spectrometry, 2014, 28, 1779-1791.	0.7	27
100	Chemo-informatic strategy for imaging mass spectrometry-based hyperspectral profiling of lipid signatures in colorectal cancer. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1216-1221.	3.3	120
101	Tu1477 Near Real Time Characterisation of Colorectal Cancer and Adenomatous Polyps Using Rapid Evaporative Ionisation Mass Spectrometry (Reims). Gastrointestinal Endoscopy, 2014, 79, AB554.	0.5	1
102	Mass Spectrometry Imaging of Cassette-Dosed Drugs for Higher Throughput Pharmacokinetic and Biodistribution Analysis. Analytical Chemistry, 2014, 86, 8473-8480.	3.2	82
103	Characterization and Identification of Clinically Relevant Microorganisms Using Rapid Evaporative Ionization Mass Spectrometry. Analytical Chemistry, 2014, 86, 6555-6562.	3.2	85
104	Analysis of dried blood spot samples by high resolution mass spectrometry â€" From newborn screening to cancer diagnostics. Clinical Biochemistry, 2014, 47, 699.	0.8	6
105	Analysis of intact bacteria using rapid evaporative ionisation mass spectrometry. Chemical Communications, 2013, 49, 6188.	2.2	61
106	Intraoperative Tissue Identification Using Rapid Evaporative Ionization Mass Spectrometry. Science Translational Medicine, 2013, 5, 194ra93.	5.8	488
107	Verification of Skin Autofluorescence Values by Mass Spectrometry in Adolescents with Type 1 Diabetes: Brief Report. Diabetes Technology and Therapeutics, 2013, 15, 269-272.	2.4	8
108	Novel data processing and image co-registration algorithm for region-specific lipid profiling in colorectal cancer tissue using DESI imaging mass spectrometry.. Journal of Clinical Oncology, 2013, 31, e14620-e14620.	0.8	1

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109	Carboxypeptidase-M is regulated by lipids and CSFs in macrophages and dendritic cells and expressed selectively in tissue granulomas and foam cells. Laboratory Investigation, 2012, 92, 345-361.	1.7	18
110	Metabolic phenotyping in clinical and surgical environments. Nature, 2012, 491, 384-392.	13.7	450
111	Surgical systems biology and personalized longitudinal phenotyping in critical care. Personalized Medicine, 2012, 9, 593-608.	0.8	6
112	Luminal cholinergic signalling in airway lining fluid: a novel mechanism for activating chloride secretion via Ca²⁺â€dependent Cl^{â€} and K⁺ channels. British Journal of Pharmacology, 2012, 166, 1388-1402.	2.7	23
113	Analysis of wastewater samples by direct combination of thin-film microextraction and desorption electrospray ionization mass spectrometry. Analyst, The, 2012, 137, 4037.	1.7	51
114	Metabonomics of Newborn Screening Dried Blood Spot Samples: A Novel Approach in the Screening and Diagnostics of Inborn Errors of Metabolism. Analytical Chemistry, 2012, 84, 10113-10120.	3.2	72
115	Identifying the margin: a new method to distinguish between cancerous and noncancerous tissue during surgery. Future Oncology, 2012, 8, 113-116.	1.1	14
116	Analysis of colorectal adenocarcinoma tissue by desorption electrospray ionization mass spectrometric imaging. Analytical and Bioanalytical Chemistry, 2012, 403, 2315-2325.	1.9	88
117	Antibody binding shift assay for rapid screening of drug interactions with the human ABCG2 multidrug transporter. European Journal of Pharmaceutical Sciences, 2012, 45, 101-109.	1.9	35
118	Intact skin analysis by desorption electrospray ionizationmass spectrometry. Analyst, The, 2011, 136, 835-840.	1.7	19
119	Real Time Analysis of Brain Tissue by Direct Combination of Ultrasonic Surgical Aspiration and Sonic Spray Mass Spectrometry. Analytical Chemistry, 2011, 83, 7729-7735.	3.2	95
120	Clinical validation of cutoff target ranges in newborn screening of metabolic disorders by tandem mass spectrometry: A worldwide collaborative project. Genetics in Medicine, 2011, 13, 230-254.	1.1	308
121	In Situ, Real-Time Identification of Biological Tissues by Ultraviolet and Infrared Laser Desorption Ionization Mass Spectrometry. Analytical Chemistry, 2011, 83, 1632-1640.	3.2	83
122	Mass spectrometry imaging with high resolution in mass and space (HR2 MSI) for reliable investigation of drug compound distributions on the cellular level. Analytical and Bioanalytical Chemistry, 2011, 401, 65-73.	1.9	133
123	Electrospray Post-Ionization Mass Spectrometry of Electrosurgical Aerosols. Journal of the American Society for Mass Spectrometry, 2011, 22, 2082-9.	1.2	18
124	Histology by Mass Spectrometry: Labelâ€Free Tissue Characterization Obtained from Highâ€Accuracy Bioanalytical Imaging. Angewandte Chemie - International Edition, 2010, 49, 3834-3838.	7.2	184
125	Hepcidin concentrations and iron homeostasis in preeclampsia. Clinical Chemistry and Laboratory Medicine, 2010, 48, 1423-1426.	1.4	36
126	Analysis of triglycerides in food items by desorption electrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 2186-2192.	0.7	54

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127	Identification of Biological Tissues by Rapid Evaporative Ionization Mass Spectrometry. Analytical Chemistry, 2010, 82, 7343-7350.	3.2	186
128	In Vivo, In Situ Tissue Analysis Using Rapid Evaporative Ionization Mass Spectrometry. Angewandte Chemie - International Edition, 2009, 48, 8240-8242.	7.2	261
129	Selective detection of specific protein-ligand complexes by electrosonic spray-precursor ion scan tandem mass spectrometry. Journal of the American Society for Mass Spectrometry, 2009, 20, 227-237.	1.2	6
130	Analysis of Biological Fluids by Direct Combination of Solid Phase Extraction and Desorption Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2009, 81, 1669-1675.	3.2	55
131	Characterization of DESIâ€FTICR mass spectrometryâ€"from ECD to accurate mass tissue analysis. Journal of Mass Spectrometry, 2008, 43, 196-203.	0.7	27
132	Coupling Desorption Electrospray Ionization with Ion Mobility/Mass Spectrometry for Analysis of Protein Structure:Â Evidence for Desorption of Folded and Denatured States. Journal of Physical Chemistry B, 2006, 110, 5045-5051.	1.2	116
133	Optimization of MALDI-TOF MS for strain level differentiation of Arthrobacter isolates. Journal of Microbiological Methods, 2006, 66, 399-409.	0.7	121
134	Ambient Mass Spectrometry. Science, 2006, 311, 1566-1570.	6.0	1,291
135	Direct Characterization of Enzyme-Substrate Complexes by Using Electrosonic Spray Ionization Mass Spectrometry. Angewandte Chemie - International Edition, 2005, 44, 913-916.	7.2	46
136	Cover Picture: Mass Spectrometric Profiling of Intact Biological Tissue by Using Desorption Electrospray Ionization (Angew. Chem. Int. Ed. 43/2005). Angewandte Chemie - International Edition, 2005, 44, 6967-6967.	7.2	0
137	Direct Characterization of Enzyme-Substrate Complexes by Using Electrosonic Spray Ionization Mass Spectrometry. Angewandte Chemie, 2005, 117, 935-938.	1.6	3
138	Ambient mass spectrometry using desorption electrospray ionization (DESI): instrumentation, mechanisms and applications in forensics, chemistry, and biology. Journal of Mass Spectrometry, 2005, 40, 1261-1275.	0.7	773
139	Rapid in situ detection of alkaloids in plant tissue under ambient conditions using desorption electrospray ionization. Analyst, The, 2005, 130, 1624.	1.7	193
140	High-Throughput Mass Spectrometer Using Atmospheric Pressure Ionization and a Cylindrical Ion Trap Array. Analytical Chemistry, 2005, 77, 459-470.	3.2	20
141	Degradation of atrazine in a laboratory scale model system with Danube river sediment. Water Research, 2005, 39, 1560-1568.	5.3	48
142	Direct, trace level detection of explosives on ambient surfaces by desorption electrospray ionization mass spectrometry. Chemical Communications, 2005, , 1950-1952.	2.2	382
143	Desorption Electrospray Ionization of Explosives on Surfaces:Â Sensitivity and Selectivity Enhancement by Reactive Desorption Electrospray Ionization. Analytical Chemistry, 2005, 77, 6755-6764.	3.2	332
144	Desorption Electrospray Ionization Mass Spectrometry for High-Throughput Analysis of Pharmaceutical Samples in the Ambient Environment. Analytical Chemistry, 2005, 77, 6915-6927.	3.2	326

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145	Atmospheric pressure chemical ionization mass spectrometry of aldehydes in biological matrices. Rapid Communications in Mass Spectrometry, 2004, 18, 2473-2478.	0.7	43
146	Chiral enrichment of serine via formation, dissociation, and soft-landing of octameric cluster ions. Journal of the American Society for Mass Spectrometry, 2004, 15, 1360-1365.	1.2	63
147	Ion soft-landing into liquids: Protein identification, separation, and purification with retention of biological activity. Journal of the American Society for Mass Spectrometry, 2004, 15, 1874-1884.	1.2	93
148	Mass Spectrometry Sampling Under Ambient Conditions with Desorption Electrospray Ionization. Science, 2004, 306, 471-473.	6.0	2,886
149	Thermal formation of serine octamer ions. Chemical Communications, 2004, , 444-445.	2.2	32
150	Preparative Linear Ion Trap Mass Spectrometer for Separation and Collection of Purified Proteins and Peptides in Arrays Using Ion Soft Landing. Analytical Chemistry, 2004, 76, 6293-6305.	3.2	70
151	Electrosonic Spray Ionization. A Gentle Technique for Generating Folded Proteins and Protein Complexes in the Gas Phase and for Studying Ionâ˜Molecule Reactions at Atmospheric Pressure. Analytical Chemistry, 2004, 76, 4050-4058.	3.2	250
152	Formation of solvated ions in the atmospheric interface of an electrospray ionization triple-quadrupole mass spectrometer. Journal of Mass Spectrometry, 2003, 38, 1245-1251.	0.7	22
153	Serine Octamer Reactions: Indicators of Prebiotic Relevance. Angewandte Chemie - International Edition, 2003, 42, 3521-3523.	7.2	100
154	Cover Picture: Serine Octamer Reactions: Indicators of Prebiotic Relevance (Angew. Chem. Int. Ed.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.2	0
155	Hydrogen/deuterium exchange of electrosprayed ions in the atmospheric interface of a commercial tripleâ€“quadrupole mass spectrometer. International Journal of Mass Spectrometry, 2003, 228, 729-741.	0.7	22
156	Mass spectrometric analysis of combinatorial peptide libraries derived from the tandem repeat unit of MUC2 mucin. Journal of Peptide Science, 2003, 9, 361-374.	0.8	4
157	Direct tandem mass spectrometric analysis of amino acids in dried blood spots without chemical derivatization for neonatal screening. Rapid Communications in Mass Spectrometry, 2003, 17, 983-990.	0.7	53
158	Amino Acid Clusters Formed by Sonic Spray Ionization. Analytical Chemistry, 2003, 75, 1514-1523.	3.2	137
159	Atmospheric Pressure Gas-Phase H/D Exchange of Serine Octamers. Analytical Chemistry, 2003, 75, 6147-6154.	3.2	53
160	Preparing Protein Microarrays by Soft-Landing of Mass-Selected Ions. Science, 2003, 301, 1351-1354.	6.0	261
161	Antagonistic reactions of arginine and lysine against formaldehyde and their relation to cell proliferation, apoptosis, folate cycle and photosynthesis. Molecular and Cellular Biochemistry, 2003, 244, 167-76.	1.4	2
162	Feasibility of Formation of Hot Ions in Electrospray. Analytical Chemistry, 2002, 74, 6427-6429.	3.2	26

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163	Single-sided membrane introduction mass spectrometry for on-line determination of semi-volatile organic compounds in air. Analyst, The, 2001, 126, 1980-1984.	1.7	38
164	Organic Chloramine Analysis and Free Chlorine Quantification by Electrospray and Atmospheric Pressure Chemical Ionization Tandem Mass Spectrometry. Analytical Chemistry, 2001, 73, 4522-4529.	3.2	33
165	High surface area membrane introduction mass spectrometry for analysis of volatile and semi-volatile organic compounds in air. Rapid Communications in Mass Spectrometry, 2001, 15, 1520-1524.	0.7	23
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