

# Zoltan Takats

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

163  
papers

12,064  
citations

50  
h-index

108  
g-index

173  
ext. papers

13,580  
ext. citations

8.2  
avg, IF

6.2  
L-index

#	Paper	IF	Citations
163	Correlating Mass Spectrometry Imaging and Liquid Chromatography-Tandem Mass Spectrometry for Tissue-Based Pharmacokinetic Studies.. <i>Metabolites</i> , <b>2022</b> , 12,	5.6	1
162	Implementation of corticosteroids in treatment of COVID-19 in the ISARIC WHO Clinical Characterisation Protocol UK: prospective, cohort study.. <i>The Lancet Digital Health</i> , <b>2022</b> , 4, e220-e234	14.4	1
161	Mass recalibration for desorption electrospray ionization mass spectrometry imaging using endogenous reference ions.. <i>BMC Bioinformatics</i> , <b>2022</b> , 23, 133	3.6	
160	H NMR Signals from Urine Excreted Protein Are a Source of Bias in Probabilistic Quotient Normalization.. <i>Analytical Chemistry</i> , <b>2022</b> , 94, 6919-6923	7.8	
159	Automated Cancer Diagnostics via Analysis of Optical and Chemical Images by Deep and Shallow Learning. <i>Metabolites</i> , <b>2022</b> , 12, 455	5.6	
158	Direct on-swab metabolic profiling of vaginal microbiome host interactions during pregnancy and preterm birth. <i>Nature Communications</i> , <b>2021</b> , 12, 5967	17.4	6
157	Modality Agnostic Model for Spatial Resolution in Mass Spectrometry Imaging: Application to MALDI MSI Data. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 15295-15305	7.8	2
156	Diagnostic Accuracy of Nipple Discharge Fluid Cytology: A Meta-Analysis and Systematic Review of the Literature. <i>Annals of Surgical Oncology</i> , <b>2021</b> , 1	3.1	1
155	Holistic Characterization of a Typhimurium Infection Model Using Integrated Molecular Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 2791-2802	3.5	0
154	Lactate dehydrogenase activity staining demonstrates time-dependent immune cell infiltration in human ex-vivo burn-injured skin. <i>Scientific Reports</i> , <b>2021</b> , 11, 21249	4.9	1
153	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.. <i>Journal of Mass Spectrometry and Advances in the Clinical Lab</i> , <b>2021</b> , 22, 50-55		2
152	Validation of Ultrasonic Harmonic Scalpel for Real-Time Tissue Identification Using Rapid Evaporative Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 5906-5916	7.8	6
151	Endogenous aldehyde accumulation generates genotoxicity and exhaled biomarkers in esophageal adenocarcinoma. <i>Nature Communications</i> , <b>2021</b> , 12, 1454	17.4	5
150	Breast health screening: a UK-wide questionnaire. <i>BMJ Nutrition, Prevention and Health</i> , <b>2021</b> , 4, 206-212	6.7	0
149	Sample Preparation Free Mass Spectrometry Using Laser-Assisted Rapid Evaporative Ionization Mass Spectrometry: Applications to Microbiology, Metabolic Biofluid Phenotyping, and Food Authenticity. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 1393-1401	3.5	7
148	Enhanced triacylglycerol catabolism by carboxylesterase 1 promotes aggressive colorectal carcinoma. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	5
147	Characterisation of in-hospital complications associated with COVID-19 using the ISARIC WHO Clinical Characterisation Protocol UK: a prospective, multicentre cohort study. <i>Lancet, The</i> , <b>2021</b> , 398, 223-237	40	39

146	Diagnostic Accuracy of Nipple Aspirate Fluid Cytology in Asymptomatic Patients: A Meta-analysis and Systematic Review of the Literature. <i>Annals of Surgical Oncology</i> , <b>2021</b> , 28, 3751-3760	3.1	4
145	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. <i>Annals of Surgical Oncology</i> , <b>2021</b> , 28, 3761-3762	3.1	1
144	Representing the Metabolome with High Fidelity: Range and Response as Quality Control Factors in LC-MS-Based Global Profiling. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 1924-1933	7.8	7
143	Comparison of C MRI of hyperpolarized [1- C]pyruvate and lactate with the corresponding mass spectrometry images in a murine lymphoma model. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 3027-3035	4.4	3
142	Evaluation of UV-C Decontamination of Clinical Tissue Sections for Spatially Resolved Analysis by Mass Spectrometry Imaging (MSI). <i>Analytical Chemistry</i> , <b>2021</b> , 93, 2767-2775	7.8	1
141	Deep Learning-Based Annotation Transfer between Molecular Imaging Modalities: An Automated Workflow for Multimodal Data Integration. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 3061-3071	7.8	10
140	Rapid ex vivo molecular fingerprinting of biofluids using laser-assisted rapid evaporative ionization mass spectrometry. <i>Nature Protocols</i> , <b>2021</b> , 16, 4327-4354	18.8	2
139	Direct Water-Assisted Laser Desorption/Ionization Mass Spectrometry Lipidomic Analysis and Classification of Formalin-Fixed Paraffin-Embedded Sarcoma Tissues without Dewaxing. <i>Clinical Chemistry</i> , <b>2021</b> , 67, 1513-1523	5.5	2
138	Implications of Peak Selection in the Interpretation of Unsupervised Mass Spectrometry Imaging Data Analyses. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 2309-2316	7.8	5
137	The amino acid transporter SLC7A5 is required for efficient growth of KRAS-mutant colorectal cancer. <i>Nature Genetics</i> , <b>2021</b> , 53, 16-26	36.3	31
136	Lipogenesis Alters the Phospholipidome of Esophageal Adenocarcinoma. <i>Cancer Research</i> , <b>2020</b> , 80, 2764-2774	10.1	8
135	Universal Sample Preparation Unlocking Multimodal Molecular Tissue Imaging. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 11080-11088	7.8	28
134	Metabolic Fingerprinting Links Oncogenic PIK3CA with Enhanced Arachidonic Acid-Derived Eicosanoids. <i>Cell</i> , <b>2020</b> , 181, 1596-1611.e27	56.2	39
133	Rapid LA-REIMS and comprehensive UHPLC-HRMS for metabolic phenotyping of feces. <i>Talanta</i> , <b>2020</b> , 217, 121043	6.2	6
132	A Critical and Concise Review of Mass Spectrometry Applied to Imaging in Drug Discovery. <i>SLAS Discovery</i> , <b>2020</b> , 25, 963-976	3.4	17
131	Laser-assisted rapid evaporative ionisation mass spectrometry (LA-REIMS) as a metabolomics platform in cervical cancer screening. <i>EBioMedicine</i> , <b>2020</b> , 60, 103017	8.8	10
130	Mass spectrometry transanal minimally invasive surgery (MS-TAMIS) to promote organ preservation in rectal cancer. <i>Surgical Endoscopy and Other Interventional Techniques</i> , <b>2020</b> , 34, 3618-3625	5.2	8
129	The intelligent knife (iKnife) and its intraoperative diagnostic advantage for the treatment of cervical disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 7338-7346	11.5	26

128	Evaluation of Direct from Sample Metabolomics of Human Feces Using Rapid Evaporative Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 13448-13457	7.8	14
127	Systematic Isolation and Structure Elucidation of Urinary Metabolites Optimized for the Analytical-Scale Molecular Profiling Laboratory. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8873-8882	7.8	6
126	Matrix Assisted Rapid Evaporative Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 9784-9798	7.8	18
125	Colocalization Features for Classification of Tumors Using Desorption Electrospray Ionization Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 6530-6540	7.8	10
124	Rapid detection and specific identification of offals within minced beef samples utilising ambient mass spectrometry. <i>Scientific Reports</i> , <b>2019</b> , 9, 6295	4.9	24
123	Utilisation of Ambient Laser Desorption Ionisation Mass Spectrometry (ALDI-MS) Improves Lipid-Based Microbial Species Level Identification. <i>Scientific Reports</i> , <b>2019</b> , 9, 3006	4.9	12
122	Network Mapping of Molecular Biomarkers Influencing Radiation Response in Rectal Cancer. <i>Clinical Colorectal Cancer</i> , <b>2019</b> , 18, e210-e222	3.8	3
121	SPUTNIK: an R package for filtering of spatially related peaks in mass spectrometry imaging data. <i>Bioinformatics</i> , <b>2019</b> , 35, 178-180	7.2	9
120	Off-Colony Screening of Biosynthetic Libraries by Rapid Laser-Enabled Mass Spectrometry. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 2566-2575	5.7	12
119	Water-assisted laser desorption/ionization mass spectrometry for minimally invasive in vivo and real-time surface analysis using SpiderMass. <i>Nature Protocols</i> , <b>2019</b> , 14, 3162-3182	18.8	22
118	Application of novel solid phase extraction-NMR protocols for metabolic profiling of human urine. <i>Faraday Discussions</i> , <b>2019</b> , 218, 395-416	3.6	
117	Optical Technologies for Endoscopic Real-Time Histologic Assessment of Colorectal Polyps: A Meta-Analysis. <i>American Journal of Gastroenterology</i> , <b>2019</b> , 114, 1219-1230	0.7	7
116	Construction and testing of an atmospheric-pressure transmission-mode matrix assisted laser desorption ionisation mass spectrometry imaging ion source with plasma ionisation enhancement. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1051, 110-119	6.6	14
115	The surgical intelligent knife distinguishes normal, borderline and malignant gynaecological tissues using rapid evaporative ionisation mass spectrometry (REIMS). <i>British Journal of Cancer</i> , <b>2018</b> , 118, 1349-1358	8.7	80
114	Correlated Heterospectral Lipidomics for Biomolecular Profiling of Remyelination in Multiple Sclerosis. <i>ACS Central Science</i> , <b>2018</b> , 4, 39-51	16.8	27
113	Rapid evaporative ionisation mass spectrometry and chemometrics for high-throughput screening of growth promoters in meat producing animals. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , <b>2018</b> , 35, 900-910	3.2	24
112	Mass spectrometry approaches to metabolic profiling of microbial communities within the human gastrointestinal tract. <i>Methods</i> , <b>2018</b> , 149, 13-24	4.6	13
111	Assessment of microbiota:host interactions at the vaginal mucosa interface. <i>Methods</i> , <b>2018</b> , 149, 74-84	4.6	11

110	BASIS: High-performance bioinformatics platform for processing of large-scale mass spectrometry imaging data in chemically augmented histology. <i>Scientific Reports</i> , <b>2018</b> , 8, 4053	4.9	19
109	Metabolic Biomarkers of Ageing in C57BL/6J Wild-Type and Flavin-Containing Monooxygenase 5 (FMO5)-Knockout Mice. <i>Frontiers in Molecular Biosciences</i> , <b>2018</b> , 5, 28	5.6	7
108	Metabolic Phenotyping and Strain Characterisation of <i>Pseudomonas aeruginosa</i> Isolates from Cystic Fibrosis Patients Using Rapid Evaporative Ionisation Mass Spectrometry. <i>Scientific Reports</i> , <b>2018</b> , 8, 10952	4.9	13
107	Pragmatic and rapid analysis of carbonyl, oxidation and chlorination nucleoside-adducts in murine tissue by UPLC-ESI-MS/MS. <i>Talanta</i> , <b>2018</b> , 190, 436-442	6.2	1
106	Effect of Electrode Geometry on the Classification Performance of Rapid Evaporative Ionization Mass Spectrometric (REIMS) Bacterial Identification. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2018</b> , 29, 26-33	3.5	11
105	Real-Time Molecular Diagnosis of Tumors Using Water-Assisted Laser Desorption/Ionization Mass Spectrometry Technology. <i>Cancer Cell</i> , <b>2018</b> , 34, 840-851.e4	24.3	48
104	Deep learning and 3D-DESI imaging reveal the hidden metabolic heterogeneity of cancer. <i>Chemical Science</i> , <b>2017</b> , 8, 3500-3511	9.4	83
103	Diagnostic Accuracy of Intraoperative Techniques for Margin Assessment in Breast Cancer Surgery: A Meta-analysis. <i>Annals of Surgery</i> , <b>2017</b> , 265, 300-310	7.8	122
102	Current and future therapies for <i>Pseudomonas aeruginosa</i> infection in patients with cystic fibrosis. <i>FEMS Microbiology Letters</i> , <b>2017</b> , 364,	2.9	60
101	Rapid evaporative ionization mass spectrometry for high-throughput screening in food analysis: The case of boar taint. <i>Talanta</i> , <b>2017</b> , 169, 30-36	6.2	61
100	Reducing the Margins of Error During Breast-Conserving Surgery: Disruptive Technologies or Traditional Disruptions?. <i>JAMA Surgery</i> , <b>2017</b> , 152, 517-518	5.4	7
99	Medical Swab Analysis Using Desorption Electrospray Ionization Mass Spectrometry: A Noninvasive Approach for Mucosal Diagnostics. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1540-1550	7.8	24
98	Translational utility of a hierarchical classification strategy in biomolecular data analytics. <i>Scientific Reports</i> , <b>2017</b> , 7, 14981	4.9	5
97	Faster, More Reproducible DESI-MS for Biological Tissue Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 2090-2098	3.5	59
96	Rapid evaporative ionisation mass spectrometry of electrosurgical vapours for the identification of breast pathology: towards an intelligent knife for breast cancer surgery. <i>Breast Cancer Research</i> , <b>2017</b> , 19, 59	8.3	104
95	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. <i>Surgical Endoscopy and Other Interventional Techniques</i> , <b>2017</b> , 31, 1361-1370	5.2	73
94	A real time metabolomic profiling approach to detecting fish fraud using rapid evaporative ionisation mass spectrometry. <i>Metabolomics</i> , <b>2017</b> , 13, 153	4.7	56
93	Automated High-Throughput Identification and Characterization of Clinically Important Bacteria and Fungi using Rapid Evaporative Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9419-9426	7.8	53

92	Rapid Evaporative Ionisation Mass Spectrometry (REIMS) Provides Accurate Direct from Culture Species Identification within the Genus <i>Candida</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 36788	4.9	36
91	Real time intraoperative classification of breast tissue with the intelligent knife. <i>European Journal of Surgical Oncology</i> , <b>2016</b> , 42, S25	3.6	2
90	Identification of the Species of Origin for Meat Products by Rapid Evaporative Ionization Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 4793-800	5.7	93
89	Investigation of the Impact of Desorption Electrospray Ionization Sprayer Geometry on Its Performance in Imaging of Biological Tissue. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 4808-16	7.8	17
88	Aurora kinase inhibitor nanoparticles target tumors with favorable therapeutic index in vivo. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 325ra17	17.5	140
87	Spatially resolved profiling of colorectal cancer lipid biochemistry via DESI imaging mass spectrometry to reveal morphology-dependent alterations in fatty acid metabolism.. <i>Journal of Clinical Oncology</i> , <b>2016</b> , 34, e15104-e15104	2.2	2
86	Imaging of Esophageal Lymph Node Metastases by Desorption Electrospray Ionization Mass Spectrometry. <i>Cancer Research</i> , <b>2016</b> , 76, 5647-5656	10.1	25
85	Shotgun Lipidomic Profiling of the NCI60 Cell Line Panel Using Rapid Evaporative Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7507-14	7.8	28
84	Epithelial ovarian carcinoma diagnosis by desorption electrospray ionization mass spectrometry imaging. <i>Scientific Reports</i> , <b>2016</b> , 6, 39219	4.9	52
83	Intraoperative tissue identification by mass spectrometric technologies. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2016</b> , 85, 2-9	14.6	27
82	<i>Pseudomonas aeruginosa</i> infection in cystic fibrosis: pathophysiological mechanisms and therapeutic approaches. <i>Expert Review of Respiratory Medicine</i> , <b>2016</b> , 10, 685-97	3.8	74
81	Development and Application of Ultra-Performance Liquid Chromatography-TOF MS for Precision Large Scale Urinary Metabolic Phenotyping. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9004-13	7.8	71
80	Unique metabolites protect earthworms against plant polyphenols. <i>Nature Communications</i> , <b>2015</b> , 6, 7869	17.4	53
79	Quantitative Analytical Method for the Determination of Biotinidase Activity in Dried Blood Spot Samples. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 10573-8	7.8	2
78	Development of nanoelectrospray high resolution isotope dilution mass spectrometry for targeted quantitative analysis of urinary metabolites: application to population profiling and clinical studies. <i>Analytical Methods</i> , <b>2015</b> , 7, 5122-5133	3.2	8
77	In Vivo Endoscopic Tissue Identification by Rapid Evaporative Ionization Mass Spectrometry (REIMS). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 11211-11214	3.6	7
76	In vivo endoscopic tissue identification by rapid evaporative ionization mass spectrometry (REIMS). <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 11059-62	16.4	84
75	Benchmark datasets for 3D MALDI- and DESI-imaging mass spectrometry. <i>GigaScience</i> , <b>2015</b> , 4, 20	7.6	45

74	Repeatability and reproducibility of desorption electrospray ionization-mass spectrometry (DESI-MS) for the imaging analysis of human cancer tissue: a gateway for clinical applications. <i>Analytical Methods</i> , <b>2015</b> , 7, 71-80	3.2	41
73	Spatially resolved metabolic phenotyping of breast cancer by desorption electrospray ionization mass spectrometry. <i>Cancer Research</i> , <b>2015</b> , 75, 1828-37	10.1	105
72	Endocannabinoid-mediated modulation of Gq/11 protein-coupled receptor signaling-induced vasoconstriction and hypertension. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 403, 46-56	4.4	26
71	Rapid evaporative ionization mass spectrometry imaging platform for direct mapping from bulk tissue and bacterial growth media. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 2527-34	7.8	74
70	Mass spectrometry imaging of cassette-dosed drugs for higher throughput pharmacokinetic and biodistribution analysis. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 8473-80	7.8	70
69	Characterization and identification of clinically relevant microorganisms using rapid evaporative ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 6555-62	7.8	72
68	Analysis of dried blood spot samples by high resolution mass spectrometry - from newborn screening to cancer diagnostics. <i>Clinical Biochemistry</i> , <b>2014</b> , 47, 699	3.5	6
67	A comprehensive high-resolution mass spectrometry approach for characterization of metabolites by combination of ambient ionization, chromatography and imaging methods. <i>Rapid Communications in Mass Spectrometry</i> , <b>2014</b> , 28, 1779-91	2.2	25
66	Chemo-informatic strategy for imaging mass spectrometry-based hyperspectral profiling of lipid signatures in colorectal cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1216-21	11.5	99
65	Analysis of intact bacteria using rapid evaporative ionisation mass spectrometry. <i>Chemical Communications</i> , <b>2013</b> , 49, 6188-90	5.8	46
64	Intraoperative tissue identification using rapid evaporative ionization mass spectrometry. <i>Science Translational Medicine</i> , <b>2013</b> , 5, 194ra93	17.5	384
63	Verification of skin autofluorescence values by mass spectrometry in adolescents with type 1 diabetes: brief report. <i>Diabetes Technology and Therapeutics</i> , <b>2013</b> , 15, 269-72	8.1	6
62	Novel data processing and image co-registration algorithm for region-specific lipid profiling in colorectal cancer tissue using DESI imaging mass spectrometry.. <i>Journal of Clinical Oncology</i> , <b>2013</b> , 31, e14620-e14620	2.2	1
61	Antibody binding shift assay for rapid screening of drug interactions with the human ABCG2 multidrug transporter. <i>European Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 45, 101-9	5.1	29
60	Metabolic phenotyping in clinical and surgical environments. <i>Nature</i> , <b>2012</b> , 491, 384-92	50.4	364
59	Surgical systems biology and personalized longitudinal phenotyping in critical care. <i>Personalized Medicine</i> , <b>2012</b> , 9, 593-608	2.2	5
58	Luminal cholinergic signalling in airway lining fluid: a novel mechanism for activating chloride secretion via Ca <sup>2+</sup> -dependent Cl <sup>-</sup> and K <sup>+</sup> channels. <i>British Journal of Pharmacology</i> , <b>2012</b> , 166, 1388-402	8.6	17
57	Analysis of wastewater samples by direct combination of thin-film microextraction and desorption electrospray ionization mass spectrometry. <i>Analyst, The</i> , <b>2012</b> , 137, 4037-44	5	48

56	Metabonomics of newborn screening dried blood spot samples: a novel approach in the screening and diagnostics of inborn errors of metabolism. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 10113-20	7.8	60
55	Analysis of colorectal adenocarcinoma tissue by desorption electrospray ionization mass spectrometric imaging. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 403, 2315-25	4.4	78
54	Carboxypeptidase-M is regulated by lipids and CSFs in macrophages and dendritic cells and expressed selectively in tissue granulomas and foam cells. <i>Laboratory Investigation</i> , <b>2012</b> , 92, 345-61	5.9	13
53	Real time analysis of brain tissue by direct combination of ultrasonic surgical aspiration and sonic spray mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7729-35	7.8	70
52	Clinical validation of cutoff target ranges in newborn screening of metabolic disorders by tandem mass spectrometry: a worldwide collaborative project. <i>Genetics in Medicine</i> , <b>2011</b> , 13, 230-54	8.1	250
51	In situ, real-time identification of biological tissues by ultraviolet and infrared laser desorption ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 1632-40	7.8	72
50	Mass spectrometry imaging with high resolution in mass and space (HR(2) MSI) for reliable investigation of drug compound distributions on the cellular level. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 65-73	4.4	123
49	Electrospray post-ionization mass spectrometry of electrosurgical aerosols. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2011</b> , 22, 2082-9	3.5	18
48	Intact skin analysis by desorption electrospray ionization mass spectrometry. <i>Analyst, The</i> , <b>2011</b> , 136, 835-40	5	17
47	Hepcidin concentrations and iron homeostasis in preeclampsia. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2010</b> , 48, 1423-6	5.9	24
46	Analysis of triglycerides in food items by desorption electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2010</b> , 24, 2186-92	2.2	46
45	Identification of biological tissues by rapid evaporative ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7343-50	7.8	159
44	Histology by mass spectrometry: label-free tissue characterization obtained from high-accuracy bioanalytical imaging. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 3834-8	16.4	169
43	In vivo, in situ tissue analysis using rapid evaporative ionization mass spectrometry. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 8240-2	16.4	200
42	Selective detection of specific protein-ligand complexes by electrosonic spray-precursor ion scan tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2009</b> , 20, 227-37	3.5	5
41	Analysis of biological fluids by direct combination of solid phase extraction and desorption electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 1669-75	7.8	52
40	Characterization of DESI-FTICR mass spectrometry - from ECD to accurate mass tissue analysis. <i>Journal of Mass Spectrometry</i> , <b>2008</b> , 43, 196-203	2.2	24
39	Coupling desorption electrospray ionization with ion mobility/mass spectrometry for analysis of protein structure: evidence for desorption of folded and denatured States. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 5045-51	3.4	98



38	Optimization of MALDI-TOF MS for strain level differentiation of <i>Arthrobacter</i> isolates. <i>Journal of Microbiological Methods</i> , <b>2006</b> , 66, 399-409	2.8	106
37	Detection Technologies. Ambient mass spectrometry. <i>Science</i> , <b>2006</b> , 311, 1566-70	33.3	1151
36	Rapid in situ detection of alkaloids in plant tissue under ambient conditions using desorption electrospray ionization. <i>Analyst, The</i> , <b>2005</b> , 130, 1624-33	5	176
35	High-throughput mass spectrometer using atmospheric pressure ionization and a cylindrical ion trap array. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 459-70	7.8	19
34	Degradation of atrazine in a laboratory scale model system with Danube river sediment. <i>Water Research</i> , <b>2005</b> , 39, 1560-8	12.5	41
33	Direct, trace level detection of explosives on ambient surfaces by desorption electrospray ionization mass spectrometry. <i>Chemical Communications</i> , <b>2005</b> , 1950-2	5.8	351
32	Desorption electrospray ionization of explosives on surfaces: sensitivity and selectivity enhancement by reactive desorption electrospray ionization. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 6755-64	7.8	305
31	Desorption electrospray ionization mass spectrometry for high-throughput analysis of pharmaceutical samples in the ambient environment. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 6915-27	7.8	297
30	Direct characterization of enzyme-substrate complexes by using electrosonic spray ionization mass spectrometry. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 913-6	16.4	44
29	Cover Picture: Mass Spectrometric Profiling of Intact Biological Tissue by Using Desorption Electrospray Ionization (Angew. Chem. Int. Ed. 43/2005). <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 6967-6967	16.4	
28	Direct Characterization of Enzyme-Substrate Complexes by Using Electrosonic Spray Ionization Mass Spectrometry. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 935-938	3.6	3
27	Mass Spectrometric Profiling of Intact Biological Tissue by Using Desorption Electrospray Ionization. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 7256-7259	3.6	21
26	Titelbild: Mass Spectrometric Profiling of Intact Biological Tissue by Using Desorption Electrospray Ionization (Angew. Chem. 43/2005). <i>Angewandte Chemie</i> , <b>2005</b> , 117, 7127-7127	3.6	
25	Ambient mass spectrometry using desorption electrospray ionization (DESI): instrumentation, mechanisms and applications in forensics, chemistry, and biology. <i>Journal of Mass Spectrometry</i> , <b>2005</b> , 40, 1261-75	2.2	691
24	Atmospheric pressure chemical ionization mass spectrometry of aldehydes in biological matrices. <i>Rapid Communications in Mass Spectrometry</i> , <b>2004</b> , 18, 2473-8	2.2	39
23	Chiral enrichment of serine via formation, dissociation, and soft-landing of octameric cluster ions. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2004</b> , 15, 1360-5	3.5	59
22	Ion soft-landing into liquids: Protein identification, separation, and purification with retention of biological activity. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2004</b> , 15, 1874-84	3.5	86
21	Mass spectrometry sampling under ambient conditions with desorption electrospray ionization. <i>Science</i> , <b>2004</b> , 306, 471-3	33.3	2550

20	Thermal formation of serine octamer ions. <i>Chemical Communications</i> , <b>2004</b> , 444-5	5.8	31
19	Preparative linear ion trap mass spectrometer for separation and collection of purified proteins and peptides in arrays using ion soft landing. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 6293-305	7.8	62
18	Electrosonic spray ionization. A gentle technique for generating folded proteins and protein complexes in the gas phase and for studying ion-molecule reactions at atmospheric pressure. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 4050-8	7.8	228
17	Formation of solvated ions in the atmospheric interface of an electrospray ionization triple-quadrupole mass spectrometer. <i>Journal of Mass Spectrometry</i> , <b>2003</b> , 38, 1245-51	2.2	17
16	Serine octamer reactions: indicators of prebiotic relevance. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 3521-3	16.4	93
15	Cover Picture: Serine Octamer Reactions: Indicators of Prebiotic Relevance (Angew. Chem. Int. Ed. 30/2003). <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 3443-3443	16.4	
14	Hydrogen/deuterium exchange of electrosprayed ions in the atmospheric interface of a commercial triple quadrupole mass spectrometer. <i>International Journal of Mass Spectrometry</i> , <b>2003</b> , 228, 729-741	1.9	20
13	Mass spectrometric analysis of combinatorial peptide libraries derived from the tandem repeat unit of MUC2 mucin. <i>Journal of Peptide Science</i> , <b>2003</b> , 9, 361-74	2.1	1
12	Direct tandem mass spectrometric analysis of amino acids in dried blood spots without chemical derivatization for neonatal screening. <i>Rapid Communications in Mass Spectrometry</i> , <b>2003</b> , 17, 983-90	2.2	48
11	Amino acid clusters formed by sonic spray ionization. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 1514-23	7.8	131
10	Atmospheric pressure gas-phase H/D exchange of serine octamers. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 6147-54	5.8	50
9	Preparing protein microarrays by soft-landing of mass-selected ions. <i>Science</i> , <b>2003</b> , 301, 1351-4	33.3	241
8	Antagonistic reactions of arginine and lysine against formaldehyde and their relation to cell proliferation, apoptosis, folate cycle and photosynthesis. <i>Molecular and Cellular Biochemistry</i> , <b>2003</b> , 244, 167-76	4.2	2
7	Feasibility of formation of hot ions in electrospray. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 6427-9	7.8	25
6	High surface area membrane introduction mass spectrometry for analysis of volatile and semi-volatile organic compounds in air. <i>Rapid Communications in Mass Spectrometry</i> , <b>2001</b> , 15, 1520-1524	2.2	19
5	Investigation of atrazine metabolism in river sediment by high-performance liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2001</b> , 15, 1735-42	2.2	13
4	Single-sided membrane introduction mass spectrometry for on-line determination of semi-volatile organic compounds in air. <i>Analyst, The</i> , <b>2001</b> , 126, 1980-4	5	34
3	Organic chloramine analysis and free chlorine quantification by electrospray and atmospheric pressure chemical ionization tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 4522-9	7.8	28

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| 2 | Electrospray and atmospheric pressure chemical ionisation of aromatic compounds in dichloromethane solvent. <i>European Journal of Mass Spectrometry</i> , <b>1998</b> , 4, 365 | 3 |
| 1 | Network analysis of mass spectrometry imaging data from colorectal cancer identifies key metabolites common to metastatic development   | 2 |