

Thomas Letzel

List of Publications by Citations

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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.

86

papers

2,573

citations

28

h-index

49

g-index

98

ext. papers

2,906

ext. citations

4.5

avg, IF

5.04

L-index

#	Paper	IF	Citations
86	Non-target screening with high-resolution mass spectrometry: critical review using a collaborative trial on water analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 6237-55	4.4	358
85	Interaction of Ozone and Water Vapor with Spark Discharge Soot Aerosol Particles Coated with Benzo[a]pyrene: O ₃ and H ₂ O Adsorption, Benzo[a]pyrene Degradation, and Atmospheric Implications. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 4029-4041	2.8	276
84	Measuring biomarkers in wastewater as a new source of epidemiological information: Current state and future perspectives. <i>Environment International</i> , 2017 , 99, 131-150	12.9	141
83	Function of phytochelatin synthase in catabolism of glutathione-conjugates. <i>Plant Journal</i> , 2007 , 49, 740-9	6.9	104
82	Main interactions and influences of the chromatographic parameters in HILIC separations. <i>Journal of Chromatographic Science</i> , 2013 , 51, 684-93	1.4	99
81	On-line coupling of high-performance liquid chromatography to a continuous-flow enzyme assay based on electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 3155-61	7.8	90
80	Electrochemical disinfection using boron-doped diamond electrode--the synergetic effects of in situ ozone and free chlorine generation. <i>Chemosphere</i> , 2015 , 121, 47-53	8.4	74
79	Study of the retention behavior in zwitterionic hydrophilic interaction chromatography of isomeric hydroxy- and aminobenzoic acids. <i>Journal of Chromatography A</i> , 2012 , 1235, 60-7	4.5	71
78	RPLC-HILIC and SFC with Mass Spectrometry: Polarity-Extended Organic Molecule Screening in Environmental (Water) Samples. <i>Analytical Chemistry</i> , 2017 , 89, 7907-7914	7.8	67
77	Serial coupling of reversed-phase and zwitterionic hydrophilic interaction LC/MS for the analysis of polar and nonpolar phenols in wine. <i>Journal of Separation Science</i> , 2013 , 36, 1379-88	3.4	64
76	Influence of temperature and degree of hydrolysis on the peptide composition of trypsin hydrolysates of β -lactoglobulin: Analysis by LCESI-TOF/MS. <i>Food Chemistry</i> , 2010 , 121, 457-467	8.5	62
75	Exposure assessment of the pharmaceutical diclofenac based on long-term measurements of the aquatic input. <i>Environment International</i> , 2009 , 35, 363-8	12.9	61
74	Phenyl-modified reversed-phase liquid chromatography coupled to atmospheric pressure chemical ionization mass spectrometry: a universal method for the analysis of partially oxidized aromatic hydrocarbons. <i>Analytical Chemistry</i> , 2001 , 73, 1634-45	7.8	51
73	Enzymes in removal of pharmaceuticals from wastewater: A critical review of challenges, applications and screening methods for their selection. <i>Chemosphere</i> , 2018 , 205, 649-661	8.4	50
72	LC-MS screening techniques for wastewater analysis and analytical data handling strategies: Sartans and their transformation products as an example. <i>Chemosphere</i> , 2015 , 137, 198-206	8.4	49
71	Influence of denaturation and aggregation of β -lactoglobulin on its tryptic hydrolysis and the release of functional peptides. <i>Food Chemistry</i> , 2015 , 187, 545-54	8.5	47
70	Separation and identification of polar degradation products of benzo[a]pyrene with ozone by atmospheric pressure chemical ionization-mass spectrometry after optimized column chromatographic clean-up. <i>Journal of Chromatography A</i> , 1999 , 855, 501-14	4.5	47

69	The strength in numbers: comprehensive characterization of house dust using complementary mass spectrometric techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 1957-1977	4.4	45
68	Emerging pollutants and plants--Metabolic activation of diclofenac by peroxidases. <i>Chemosphere</i> , 2016 , 146, 435-41	8.4	45
67	Transglycosylation reaction catalyzed by a class V chitinase from cycad, <i>Cycas revoluta</i> : a study involving site-directed mutagenesis, HPLC, and real-time ESI-MS. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 668-75	4	42
66	Characterisation of the tryptophan synthase alpha subunit in maize. <i>BMC Plant Biology</i> , 2008 , 8, 44	5.3	41
65	Liquid chromatography/atmospheric pressure ionization mass spectrometry with post-column liquid mixing for the efficient determination of partially oxidized polycyclic aromatic hydrocarbons. <i>Journal of Chromatography A</i> , 2007 , 1139, 75-83	4.5	38
64	The medical plant butterbur (Petasites): analytical and physiological (re)view. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 75, 220-9	3.5	34
63	Oligosaccharide hydrolysis by chitosanase enzymes monitored by real-time electrospray ionization-mass spectrometry. <i>Journal of Biotechnology</i> , 2008 , 134, 253-60	3.7	33
62	On the inter-instrument and the inter-laboratory transferability of a tandem mass spectral reference library. 3. Focus on ion trap and upfront CID. <i>Journal of Mass Spectrometry</i> , 2012 , 47, 263-70	2.2	32
61	Biochemical and molecular characterization of a thermostable chitosanase produced by the strain <i>Paenibacillus</i> sp. 1794 newly isolated from compost. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 5801-13	5.7	32
60	Phytochelatin synthesis by two vacuolar serine carboxypeptidases in <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 2007 , 581, 1681-7	3.8	31
59	Mass spectrometric real-time monitoring of enzymatic glycosidic hydrolysis, enzymatic inhibition and enzyme complexes. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 386, 689-98	4.4	30
58	Dissection of glutathione conjugate turnover in yeast. <i>Phytochemistry</i> , 2010 , 71, 54-61	4	28
57	Accessory active site residues of <i>Streptomyces</i> sp. N174 chitosanase: variations on a common theme in the lysozyme superfamily. <i>FEBS Journal</i> , 2009 , 276, 857-69	5.7	27
56	Serial coupling of RP and zwitterionic hydrophilic interaction LC-MS: suspects screening of diclofenac transformation products by oxidation with a boron-doped diamond electrode. <i>Journal of Separation Science</i> , 2013 , 36, 3011-8	3.4	26
55	Fractionation of dairy based functional peptides using ion-exchange membrane adsorption chromatography and cross-flow electro membrane filtration. <i>International Dairy Journal</i> , 2014 , 38, 116-123	3.5	21
54	Influence of buffer type and concentration on the peptide composition of trypsin hydrolysates of Lactoglobulin. <i>Food Chemistry</i> , 2011 , 125, 121-127	8.5	19
53	Persistent, mobile and toxic substances in the environment: a spotlight on current research and regulatory activities. <i>Environmental Sciences Europe</i> , 2020 , 32,	5	19
52	Simultaneous investigation of sesquiterpenes, pyrrolizidine alkaloids and N-oxides in Butterbur (<i>Petasites hybridus</i>) with an offline 2D-combination of HPLC-UV and LC-MMI-ToF-MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 85, 74-82	3.5	18

51	Inhibition of cereulide toxin synthesis by emetic <i>Bacillus cereus</i> via long-chain polyphosphates. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 1475-82	4.8	18
50	Real-time mass spectrometry in enzymology. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 257-61	4.4	17
49	Functional proteomics: application of mass spectrometry to the study of enzymology in complex mixtures. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 625-45	4.4	16
48	A highly conserved arginine residue of the chitosanase from <i>Streptomyces</i> sp. N174 is involved both in catalysis and substrate binding. <i>BMC Biochemistry</i> , 2013 , 14, 23	4.8	16
47	Solid support membrane-aerated catalytic biofilm reactor for the continuous synthesis of (S)-styrene oxide at gram scale. <i>Biotechnology Journal</i> , 2014 , 9, 1339-49	5.6	16
46	In vitro and in vivo efficacy of PEGylated diisopropyl fluorophosphatase (DFPase). <i>Drug Testing and Analysis</i> , 2012 , 4, 262-70	3.5	14
45	Mass spectrometry based in vitro assay investigations on the transformation of pharmaceutical compounds by oxidative enzymes. <i>Chemosphere</i> , 2017 , 174, 466-477	8.4	13
44	Analysis of large oxygenated and nitrated polycyclic aromatic hydrocarbons formed under simulated diesel engine exhaust conditions (by compound fingerprints with SPE/LC-API-MS). <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 2599-608	4.4	13
43	Monitoring enzymatic degradation of emerging contaminants using a chip-based robotic nano-ESI-MS tool. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 27-32	4.4	13
42	26kDa endochitinase from barley seeds: real-time monitoring of the enzymatic reaction and substrate binding experiments using electrospray ionization mass spectrometry. <i>Journal of Biotechnology</i> , 2009 , 143, 274-83	3.7	11
41	Microchip-ESI-MS determination of dissociation constant of the lysozyme-NAG(3) complex. <i>Electrophoresis</i> , 2010 , 31, 2680-5	3.6	11
40	Systematic Development of a Simultaneous Determination of Plastic Particle Identity and Adsorbed Organic Compounds by Thermodesorption-Pyrolysis GC/MS (TD-Pyr-GC/MS). <i>Molecules</i> , 2020 , 25,	4.8	10
39	Real-time ESI-MS of enzymatic conversion: impact of organic solvents and multiplexing. <i>Analytical Sciences</i> , 2012 , 28, 607-12	1.7	10
38	Fingerprinting of red wine by headspace solid-phase dynamic extraction of volatile constituents. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 2429-36	4.4	10
37	Sublethal effects of the beta-blocker sotalol at environmentally relevant concentrations on the New Zealand mudsnail <i>Potamopyrgus antipodarum</i> . <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 2510-5	3.8	9
36	Enzymatic conversion continuously monitored with a robotic nanoESI-MS tool: experimental status. <i>Analytical Methods</i> , 2011 , 3, 822	3.2	9
35	Chitinase-catalyzed hydrolysis of 4-nitrophenyl penta-N-acetyl- β -chitopentaoside as determined by real-time ESIMS: the 4-nitrophenyl moiety of the substrate interacts with the enzyme binding site. <i>Carbohydrate Research</i> , 2011 , 346, 863-6	2.9	8
34	Robustness of a method based on the serial coupling of reversed-phase and zwitterionic hydrophilic interaction LC-MS for the analysis of phenols. <i>Journal of Separation Science</i> , 2014 , 37, 630-4	3.4	7

33	Sensitive determination of G-protein-coupled receptor binding ligands by solid phase extraction-electrospray ionization-mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006 , 40, 744-51	3.5	7
32	Possibilities and Limitations of Computer-Assisted Method Development in HILIC: A Case Study. <i>Chromatographia</i> , 2017 , 80, 771-781	2.1	6
31	Enzymatic Assays Coupled with Mass Spectrometry with or without Embedded Liquid Chromatography. <i>ChemBioChem</i> , 2015 , 16, 1985-92	3.8	6
30	Comprehensive MS-based screening and identification of pharmaceutical transformation products formed during enzymatic conversion. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 339-351	4.4	6
29	Organic Contaminants and Interactions with Micro- and Nano-Plastics in the Aqueous Environment: Review of Analytical Methods. <i>Molecules</i> , 2021 , 26,	4.8	6
28	Lemna minor studies under various storage periods using extended-polarity extraction and metabolite non-target screening analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 188, 113362	3.5	5
27	HPLC method development for the online-coupling of chromatographic Perilla frutescens extract separation with xanthine oxidase enzymatic assay. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 124, 347-357	3.5	5
26	Tryptic hydrolysis of Haetoglobulin: A generic approach to describe the hydrolysis kinetic and release of peptides. <i>International Dairy Journal</i> , 2020 , 105, 104666	3.5	4
25	The changes in Lemna minor metabolomic profile: A response to diclofenac incubation. <i>Chemosphere</i> , 2022 , 287, 132078	8.4	4
24	Optimized hidden target screening for very polar molecules in surface waters including a compound database inquiry. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 4953-4966	4.4	3
23	Mass spectrometric real-time monitoring of an enzymatic phosphorylation assay using internal standards and data-handling freeware. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 1019-30	2.2	3
22	Utilization of real-time electrospray ionization mass spectrometry to gain further insight into the course of nucleotide degradation by intestinal alkaline phosphatase. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 869-78	2.2	3
21	Effect of Perilla frutescens Extracts on Porcine Jejunal Epithelial Cells. <i>Phytotherapy Research</i> , 2017 , 31, 303-311	6.7	2
20	Fate of Diclofenac and Its Transformation and Inorganic By-Products in Different Water Matrices during Electrochemical Advanced Oxidation Process Using a Boron-Doped Diamond Electrode. <i>Water (Switzerland)</i> , 2020 , 12, 1686	3	2
19	Achroma: a software strategy for analysing (a-)typical mass-spectrometric data. <i>Analytical Methods</i> , 2012 , 4, 1060	3.2	2
18	Untargeted Metabolomics Studies on Drug-Incubated Profiles. <i>Metabolites</i> , 2020 , 11,	5.6	2
17	(Very) polar organic compounds in the Danube river basin: a non-target screening workflow and prioritization strategy for extracting highly confident features. <i>Analytical Methods</i> , 2021 , 13, 2044-2054	3.2	2
16	Untargeted Analysis of Metabolites: Workflow and Prioritization Strategy Comparing Highly Confident Features between Different Mass Spectrometers.. <i>Metabolites</i> , 2021 , 11,	5.6	2

15	Specifications of Gradients in Hydrophilic Interaction Liquid Chromatography (HILIC) 2019 , 175-182		1
14	Comprehensive assessment of Cytochrome P450 reactions: A multiplex approach using real-time ESI-MS. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015 , 1850, 2573-81	4	1
13	Organization of nucleobase-functionalized beta-peptides investigated by soft electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2009 , 44, 794-802	2.2	1
12	Gas-phase behavior of noncovalent transmembrane segment complexes. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 4089-97	2.2	1
11	Holistic and Detailed View on Workflow Strategies Applied in This Book. <i>ACS Symposium Series</i> , 2016 , 175-181	0.4	1
10	Chemicals of Emerging Concern and Their Transformation Products in the Aqueous Environment. <i>ACS Symposium Series</i> , 2016 , 3-9	0.4	1
9	Widening the Analytical Perspective: Polarity Extended Separation for Monitoring of Trace Organic Compounds in Surface Water Matrices. <i>ACS Symposium Series</i> , 2016 , 103-117	0.4	1
8	Spotlight on mass spectrometric non-target screening analysis: Advanced data processing methods recently communicated for extracting, prioritizing and quantifying features. <i>Analytical Science Advances</i> ,	1.1	1
7	Specifications of Gradients in Supercritical Fluid Chromatography 2019 , 183-188		
6	Süßern und Putzen 2016 , 151-197		
5	Das tägliche Brot 2016 , 1-36		
4	Das tägliche Brot 2010 , 1-35		
3	New (Practical) Strategies in Target, Suspects, and Non-Target LC-MS(/MS) Screening: Bisoprolol and Transformation Products as an Example. <i>ACS Symposium Series</i> , 2016 , 85-101	0.4	
2	Achiral SFC separations: Gold standard for the next generation of nontarget screening. <i>Analytical Science Advances</i> , 2021 , 2, 43-46	1.1	
1	Do you HILIC ? With Mass Spectrometry? Then do it Systematically 2021 , 23-38		