

# Markus R Meyer

## List of Publications by Year in descending order

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179  
papers

5,604  
citations

76326

40  
h-index

114465

63  
g-index

187  
all docs

187  
docs citations

187  
times ranked

3940  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beta-keto amphetamines: studies on the metabolism of the designer drug mephedrone and toxicological detection of mephedrone, butylone, and methylone in urine using gas chromatography–mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 1225-1233.	3.7	246
2	Measuring biomarkers in wastewater as a new source of epidemiological information: Current state and future perspectives. <i>Environment International</i> , 2017, 99, 131-150.	10.0	209
3	Studies on the metabolism of the Î±-pyrrolidinophenone designer drug methylenedioxy-Î²-provalerone (MDPV) in rat and human urine and human liver microsomes using GC–MS and LC–high-resolution MS and its detectability in urine by GC–MS. <i>Journal of Mass Spectrometry</i> , 2010, 45, 1426-1442.	1.6	168
4	Drugs of abuse screening in urine as part of a metabolite-based LC-MS <sup>n</sup> screening concept. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3481-3489.	3.7	132
5	Ion suppression and enhancement effects of co-eluting analytes in multi-analyte approaches: systematic investigation using ultra-high-performance liquid chromatography/mass spectrometry with atmospheric-pressure chemical ionization or electrospray ionizat. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 3103-3108.	1.5	127
6	Automated Mass Spectral Deconvolution and Identification System for GC-MS Screening for Drugs, Poisons, and Metabolites in Urine. <i>Clinical Chemistry</i> , 2010, 56, 575-584.	3.2	120
7	Orbitrap technology for comprehensive metabolite-based liquid chromatographic–high resolution-tandem mass spectrometric urine drug screening – Exemplified for cardiovascular drugs. <i>Analytica Chimica Acta</i> , 2015, 891, 221-233.	5.4	116
8	Development of the first metabolite-based LC-MS <sup>n</sup> urine drug screening procedure-exemplified for antidepressants. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 79-88.	3.7	112
9	Systematic investigation of ion suppression and enhancement effects of fourteen stable-isotope-labeled internal standards by their native analogues using atmospheric-pressure chemical ionization and electrospray ionization and the relevance for multi-analyte liquid chromatographic/mass spectrometric procedures. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 859-867.	1.5	103
10	Metabolism of Designer Drugs of Abuse: An Updated Review. <i>Current Drug Metabolism</i> , 2010, 11, 468-482.	1.2	100
11	The Role of Human Hepatic Cytochrome P450 Isozymes in the Metabolism of Racemic 3,4-Methylenedioxy-Methamphetamine and Its Enantiomers. <i>Drug Metabolism and Disposition</i> , 2008, 36, 2345-2354.	3.3	88
12	Absorption, distribution, metabolism and excretion pharmacogenomics of drugs of abuse. <i>Pharmacogenomics</i> , 2011, 12, 215-233.	1.3	88
13	High-resolution mass spectrometry in toxicology: current status and future perspectives. <i>Archives of Toxicology</i> , 2016, 90, 2161-2172.	4.2	86
14	New cathinone-derived designer drugs 3-bromomethcathinone and 3-fluoromethcathinone: studies on their metabolism in rat urine and human liver microsomes using GC–MS and LC–high-resolution MS and their detectability in urine. <i>Journal of Mass Spectrometry</i> , 2012, 47, 253-262.	1.6	84
15	New designer drug Î±-pyrrolidinovalerophenone (PVP): studies on its metabolism and toxicological detection in rat urine using gas chromatographic/mass spectrometric techniques. <i>Journal of Mass Spectrometry</i> , 2009, 44, 952-964.	1.6	83
16	Review: LC coupled to low- and high-resolution mass spectrometry for new psychoactive substance screening in biological matrices – Where do we stand today?. <i>Analytica Chimica Acta</i> , 2016, 927, 13-20.	5.4	83
17	Current applications of high-resolution mass spectrometry in drug metabolism studies. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1221-1231.	3.7	79
18	Blood pressure reductions following catheter-based renal denervation are not related to improvements in adherence to antihypertensive drugs measured by urine/plasma toxicological analysis. <i>Clinical Research in Cardiology</i> , 2015, 104, 1097-1105.	3.3	76

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19	Fast and simple procedure for liquid-liquid extraction of 136 analytes from different drug classes for development of a liquid chromatographic-tandem mass spectrometric quantification method in human blood plasma. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2303-2314.	3.7	67
20	2-Methiopropamine, a thiophene analogue of methamphetamine: studies on its metabolism and detectability in the rat and human using GC-MS and LC-(HR)-MS techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3125-3135.	3.7	67
21	Studies on the metabolism and toxicological detection of the new psychoactive designer drug 2-(4-iodo-2,5-dimethoxyphenyl)-N-[(2-methoxyphenyl)methyl]ethanamine (25I-NBOMe) in human and rat urine using GC-MS, LC-MSn, and LC-HR-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6697-6719.	3.7	66
22	New psychoactive substances: an overview on recent publications on their toxicodynamics and toxicokinetics. <i>Archives of Toxicology</i> , 2016, 90, 2421-2444.	4.2	63
23	<i>In vitro</i> approaches to studying the metabolism of new psychoactive compounds. <i>Drug Testing and Analysis</i> , 2011, 3, 483-495.	2.6	62
24	Benzofuran analogues of amphetamine and methamphetamine: studies on the metabolism and toxicological analysis of 5-APB and 5-MAPB in urine and plasma using GC-MS and LC-(HR)-MSn techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1371-1388.	3.7	61
25	Identification of main human urinary metabolites of the designer nitrobenzodiazepines clonazepam, meclonazepam, and nifoxipam by nano-liquid chromatography-high-resolution mass spectrometry for drug testing purposes. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3571-3591.	3.7	60
26	Liquid chromatography-high resolution-tandem mass spectrometry using Orbitrap technology for comprehensive screening to detect drugs and their metabolites in blood plasma. <i>Analytica Chimica Acta</i> , 2017, 965, 83-95.	5.4	60
27	Chiral drug analysis using mass spectrometric detection relevant to research and practice in clinical and forensic toxicology. <i>Journal of Chromatography A</i> , 2012, 1269, 122-135.	3.7	58
28	Pooled human liver preparations, HepaRG, or HepG2 cell lines for metabolism studies of new psychoactive substances? A study using MDMA, MDBD, butylone, MDPPP, MDPV, MDPB, 5-MAPB, and 5-API as examples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 143, 32-42.	2.8	55
29	A validated GC-MS procedure for fast, simple, and cost-effective quantification of glycols and GHB in human plasma and their identification in urine and plasma developed for emergency toxicology. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 411-414.	3.7	52
30	Paper Spray Ionization Coupled to High Resolution Tandem Mass Spectrometry for Comprehensive Urine Drug Testing in Comparison to Liquid Chromatography-Coupled Techniques after Urine Precipitation or Dried Urine Spot Workup. <i>Analytical Chemistry</i> , 2017, 89, 11779-11786.	6.5	51
31	Studies on the metabolism and toxicological detection of the new designer drug 4- $\alpha$ -methyl- $\beta$ -pyrrolidinobutyrophenone (MPBP) in rat urine using gas chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 824, 81-91.	2.3	49
32	New psychoactive substances: Studies on the metabolism of XLR-11, AB-PINACA, FUB-PB-22, 4-methoxy- $\beta$ -PVP, 25-I-NBOMe, and meclonazepam using human liver preparations in comparison to primary human hepatocytes, and human urine. <i>Toxicology Letters</i> , 2017, 280, 142-150.	0.8	49
33	Studies on the metabolism of the $\Delta^9$ -tetrahydrocannabinol precursor $\Delta^9$ -tetrahydrocannabinolic acid A ( $\Delta^9$ -THCA-A) in rat using LC-MS/MS, LC-QTOF MS and GC-MS techniques. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1423-1433.		48
34	Monitoring of kratom or Krypton intake in urine using GC-MS in clinical and forensic toxicology. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 127-135.	3.7	47
35	Sympathomimetic toxicity in a case of analytically confirmed recreational use of naphyrone (naphthylpyrovalerone). <i>Clinical Toxicology</i> , 2011, 49, 691-693.	1.9	45
36	Ketamine-derived designer drug methoxetamine: metabolism including isoenzyme kinetics and toxicological detectability using GC-MS and LC-(HR)-MS n. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6307-6321.	3.7	45

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37	Direct analysis of the mushroom poisons Î±- and Î²-amanitin in human urine using a novel on-line turbulent flow chromatography mode coupled to liquid chromatographyâ€“high resolution-mass spectrometry/mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1325, 92-98.	3.7	43
38	Elucidation of the metabolites of the novel psychoactive substance 4â€“methylâ€“N</i>â€“ethylâ€“cathinone (4â€“MEC) in human urine and pooled liver microsomes by GCâ€“MS and LCâ€“HRâ€“MS/MS techniques and of its detectability by GCâ€“MS or LCâ€“MS<sup>n</sup> standard screening approaches. <i>Drug Testing and Analysis</i> , 2015, 7, 368-375.	2.6	43
39	Current position of high-resolution MS for drug quantification in clinical & forensic toxicology. <i>Bioanalysis</i> , 2014, 6, 2275-2284.	1.5	41
40	Metabolism of the new psychoactive substances N,N-diallyltryptamine (DALT) and 5-methoxy-DALT and their detectability in urine by GCâ€“MS, LCâ€“MS n , and LCâ€“HRâ€“MSâ€“MS. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7831-7842.	3.7	41
41	What is the contribution of human FMO3 in the N -oxygenation of selected therapeutic drugs and drugs of abuse?. <i>Toxicology Letters</i> , 2016, 258, 55-70.	0.8	41
42	Qualitative studies on the metabolism and the toxicological detection of the fentanyl-derived designer drugs 3-methylfentanyl and isofentanyl in rats using liquid chromatographyâ€“linear ion trapâ€“mass spectrometry (LC-MSn). <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1249-1255.	3.7	40
43	Tools for studying the metabolism of new psychoactive substances for toxicological screening purposes â€“ A comparative study using pooled human liver S9, HepaRG cells, and zebrafish larvae. <i>Toxicology Letters</i> , 2019, 305, 73-80.	0.8	40
44	Full validation and application of an ultra high performance liquid chromatographic-tandem mass spectrometric procedure for target screening and quantification of 34 antidepressants in human blood plasma as part of a comprehensive multi-analyte approach. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2093-2107.	3.7	39
45	Metabolic fate and detectability of the new psychoactive substances 2-(4-bromo-2,5-dimethoxyphenyl)-N- [(2-methoxyphenyl)methyl]ethanamine (25B-NBOMe) and 2-(4-chloro-2,5-dimethoxyphenyl)-N- [(2-methoxyphenyl)methyl]ethanamine (25C-NBOMe) in human and rat urine by GCâ€“MS, LCâ€“MS n , and LCâ€“HRâ€“MS/MS approaches. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 134, 158-169.	2.8	39
46	Development of an in vitro cytochrome P450 cocktail inhibition assay for assessing the inhibition risk of drugs of abuse. <i>Toxicology Letters</i> , 2014, 230, 28-35.	0.8	37
47	First report on the pharmacokinetics of tramadol and O-desmethyltramadol in exhaled breath compared to plasma and oral fluid after a single oral dose. <i>Biochemical Pharmacology</i> , 2015, 98, 502-510.	4.4	37
48	Enantioselectivity in the Methylation of the Catecholic Phase I Metabolites of Methylendioxy Designer Drugs and Their Capability To Inhibit Catechol-O-methyltransferase-Catalyzed Dopamine 3-Methylation. <i>Chemical Research in Toxicology</i> , 2009, 22, 1205-1211.	3.3	36
49	Current status of hyphenated mass spectrometry in studies of the metabolism of drugs of abuse, including doping agents. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 195-208.	3.7	36
50	A qualitative/quantitative approach for the detection of 37 tryptamine-derived designer drugs, 5 Î²-carbolines, ibogaine, and yohimbine in human urine and plasma using standard urine screening and multi-analyte approaches. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 225-237.	3.7	34
51	Metabolic fate of desomorphine elucidated using rat urine, pooled human liver preparations, and human hepatocyte cultures as well as its detectability using standard urine screening approaches. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6283-6294.	3.7	34
52	Untargeted metabolomics by high resolution mass spectrometry coupled to normal and reversed phase liquid chromatography as a tool to study the in vitro biotransformation of new psychoactive substances. <i>Scientific Reports</i> , 2019, 9, 2741.	3.3	34
53	In vitro metabolic fate of nine LSD-based new psychoactive substances and their analytical detectability in different urinary screening procedures. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4751-4763.	3.7	34
54	Analytical Toxicology of Emerging Drugs of Abuseâ€“An Update. <i>Therapeutic Drug Monitoring</i> , 2012, 34, 615-621.	2.0	32

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55	Studies on the metabolism and toxicological detection of glaucine, an isoquinoline alkaloid from <i>Glaucium flavum</i> (Papaveraceae), in rat urine using GC-MS, LC-MS <sup>n</sup> and LC-high-resolution MS <sup>n</sup> . <i>Journal of Mass Spectrometry</i> , 2013, 48, 24-41.	1.6	32
56	Towards a universal LC-MS screening procedure – can an LIT LC-MS <sup>n</sup> screening approach and reference library be used on a quadrupole-LIT hybrid instrument?. <i>Journal of Mass Spectrometry</i> , 2012, 47, 66-71.	1.6	31
57	Studies on the microbial biotransformation of the novel psychoactive substance methylenedioxypyrovalerone (MDPV) in wastewater by means of liquid chromatography-high resolution mass spectrometry/mass spectrometry. <i>Science of the Total Environment</i> , 2014, 493, 588-595.	8.0	31
58	How to Study the Metabolism of New Psychoactive Substances for the Purpose of Toxicological Screenings – A Follow-Up Study Comparing Pooled Human Liver S9, HepaRG Cells, and Zebrafish Larvae. <i>Frontiers in Chemistry</i> , 2020, 8, 539.	3.6	31
59	Studies on the metabolism and the detectability of 4-methyl-amphetamine and its isomers 2-methyl-amphetamine and 3-methyl-amphetamine in rat urine using GC-MS and LC-(high-resolution)-MS <sup>n</sup> . <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 1957-1974.	3.7	30
60	The Role of Human UDP-Glucuronyltransferases on the Formation of the Methylenedioxymethamphetamine (Ecstasy) Phase II Metabolites <i>R</i> - and <i>S</i> -3-Methoxymethamphetamine 4- <i>O</i> -Glucuronides. <i>Drug Metabolism and Disposition</i> , 2009, 37, 2212-2220.	3.3	28
61	Contribution of human esterases to the metabolism of selected drugs of abuse. <i>Toxicology Letters</i> , 2015, 232, 159-166.	0.8	28
62	In vitro cytochrome P450 inhibition potential of methylenedioxy-derived designer drugs studied with a two-cocktail approach. <i>Archives of Toxicology</i> , 2016, 90, 305-318.	4.2	28
63	Dried urine spots - A novel sampling technique for comprehensive LC-MS <sup>n</sup> drug screening. <i>Analytica Chimica Acta</i> , 2017, 982, 112-121.	5.4	28
64	Human urinary metabolic patterns of the designer benzodiazepines flubromazolam and pyrazolam studied by liquid chromatography-high resolution mass spectrometry. <i>Drug Testing and Analysis</i> , 2018, 10, 496-506.	2.6	28
65	Development of a quantitative approach in blood plasma for low-dosed hallucinogens and opioids using LC-high resolution mass spectrometry. <i>Talanta</i> , 2018, 176, 635-645.	5.5	28
66	P-glycoprotein interactions of novel psychoactive substances – Stimulation of ATP consumption and transport across Caco-2 monolayers. <i>Biochemical Pharmacology</i> , 2015, 94, 220-226.	4.4	27
67	Automated optimization of XCMS parameters for improved peak picking of liquid chromatography-mass spectrometry data using the coefficient of variation and parameter sweeping for untargeted metabolomics. <i>Drug Testing and Analysis</i> , 2019, 11, 752-761.	2.6	26
68	Stereoselective differences in the cytochrome P450-dependent dealkylation and demethylenation of N-methyl-benzodioxolyl-butanamine (MBDB, Eden) enantiomers. <i>Biochemical Pharmacology</i> , 2009, 77, 1725-1734.	4.4	25
69	Metabolism of the tryptamine-derived new psychoactive substances 5- <i>MeO</i> -2- <i>Me</i> - <i>D</i> ALT, 5- <i>MeO</i> -2- <i>Me</i> - <i>A</i> LCHT, and 5- <i>MeO</i> -2- <i>Me</i> - <i>D</i> IPT and their detectability in urine studied by GC-MS, LC-MS <sup>n</sup> , and LC-HR-MS/MS. <i>Drug Testing and Analysis</i> , 2018, 10, 184-195.	3.7	24
70	LC-high resolution-MS/MS for identification of 69 metabolites of the new psychoactive substance 1-(4-ethylphenyl)-N-[(2-methoxyphenyl)methyl] propane-2-amine (4-EA-NBOMe) in rat urine and human liver S9 incubates and comparison of its screening power with further MS techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 897-912.	3.7	24
71	Altered glucocorticoid metabolism represents a feature of macrophage aging. <i>Aging Cell</i> , 2020, 19, e13156.	6.7	24
72	The Role of Human Hepatic Cytochrome P450 Isozymes in the Metabolism of Racemic 3,4-Methylenedioxyethylamphetamine and Its Single Enantiomers. <i>Drug Metabolism and Disposition</i> , 2009, 37, 1152-1156.	3.3	23

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73	Urinary Excretion Kinetics of 3,4-Methylenedioxyamphetamine (MDMA, Ecstasy) and Its Phase I and Phase II Metabolites in Humans following Controlled MDMA Administration. <i>Clinical Chemistry</i> , 2011, 57, 1748-1756.	3.2	23
74	The <i>in vivo</i> and <i>in vitro</i> metabolism and the detectability in urine of 3- <i>TM</i> , 4- <i>TM</i> -methylenedioxy- $\alpha$ -pyrrolidinobutyrophenone (MDPBP), a new pyrrolidinophenone-type designer drug, studied by GC-MS and LC-MS <sup>n</sup> . <i>Drug Testing and Analysis</i> , 2014, 6, 746-756.	2.9	23
75	Metabolic fate, mass spectral fragmentation, detectability, and differentiation in urine of the benzofuran designer drugs 6-APB and 6-MAPB in comparison to their 5-isomers using GC-MS and LC-(HR)-MS <sup>n</sup> techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3457-3470.	3.7	23
76	Toxicokinetics of new psychoactive substances: plasma protein binding, metabolic stability, and human phase I metabolism of the synthetic cannabinoid WIN 55,212- $\mu$ 2 studied using <i>in vitro</i> tools and LC-HR-MS/MS. <i>Drug Testing and Analysis</i> , 2016, 8, 1039-1048.	2.6	23
77	Different <i>in vitro</i> and <i>in vivo</i> tools for elucidating the human metabolism of $\alpha$ -cathinone-derived drugs of abuse. <i>Drug Testing and Analysis</i> , 2018, 10, 1119-1130.	2.6	23
78	Metabolic fate of the new synthetic cannabinoid 7- <i>TM</i> -N-5-F-ADB in rat, human, and pooled human S9 studied by means of hyphenated high-resolution mass spectrometry. <i>Drug Testing and Analysis</i> , 2019, 11, 305-317.	2.6	23
79	Sulfation of the 3,4-methylenedioxyamphetamine (MDMA) metabolites 3,4-dihydroxymethamphetamine (DHMA) and 4-hydroxy-3-methoxymethamphetamine (HMMA) and their capability to inhibit human sulfotransferases. <i>Toxicology Letters</i> , 2011, 202, 120-128.	0.8	22
80	Stereoselective urinary MDMA (ecstasy) and metabolites excretion kinetics following controlled MDMA administration to humans. <i>Biochemical Pharmacology</i> , 2012, 83, 131-138.	4.4	22
81	In situ antibiofilm effect of glass-ionomer cement containing dimethylaminododecyl methacrylate. <i>Dental Materials</i> , 2015, 31, 992-1002.	3.5	22
82	Pharmacological and biotransformation studies of 1-acyl-substituted derivatives of -lysergic acid diethylamide (LSD). <i>Neuropharmacology</i> , 2020, 172, 107856.	4.1	22
83	Lefetamine-derived designer drugs <i>N</i> -ethyl-1,2-diphenylethylamine (NEDPA) and <i>N</i> -iso-propyl-1,2-diphenylethylamine (NPDPA): Metabolism and detectability in rat urine using GC-MS, LC-MS <sup>n</sup> and LC-HR-MS/MS. <i>Drug Testing and Analysis</i> , 2014, 6, 1038-1048.	2.6	21
84	Comparison of Three Untargeted Data Processing Workflows for Evaluating LC-HRMS Metabolomics Data. <i>Metabolites</i> , 2020, 10, 378.	2.9	21
85	Studies on the metabolism and detectability of the designer drug $\hat{1}$ -naphyrone in rat urine using GC-MS and LC-HR-MS/MS. <i>Drug Testing and Analysis</i> , 2013, 5, 259-265.	2.6	20
86	Dimethocaine, a synthetic cocaine analogue: studies on its <i>in vivo</i> metabolism and its detectability in urine by means of a rat model and liquid chromatography-linear ion-trap (high-resolution) mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 1845-1854.	3.7	20
87	Cytochrome P450 inhibition potential of new psychoactive substances of the tryptamine class. <i>Toxicology Letters</i> , 2016, 241, 82-94.	0.8	20
88	LC-HR-MS/MS standard urine screening approach: Pros and cons of automated on-line extraction by turbulent flow chromatography versus dilute-and-shoot and comparison with established urine precipitation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1043, 138-149.	2.3	20
89	<i>In vitro</i> monoamine oxidase inhibition potential of $\alpha$ -methyltryptamine analog new psychoactive substances for assessing possible toxic risks. <i>Toxicology Letters</i> , 2017, 272, 84-93.	0.8	20
90	Toxicokinetics and Analytical Toxicology of Flualprazolam: Metabolic Fate, Isozyme Mapping, Human Plasma Concentration and Main Urinary Excretion Products. <i>Journal of Analytical Toxicology</i> , 2020, 44, 549-558.	2.8	20

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91	Identification of Cytochrome P450 Enzymes Involved in the Metabolism of the New Designer Drug 4- $\alpha$ -Methyl- $\alpha$ -pyrrolidinobutyrophenone. <i>Drug Metabolism and Disposition</i> , 2008, 36, 163-168.	3.3	19
92	Development, Validation, and Application of a Fast and Simple GC-MS Method for Determination of Some Therapeutic Drugs Relevant in Emergency Toxicology. <i>Therapeutic Drug Monitoring</i> , 2011, 33, 649-653.	2.0	19
93	Human cytochrome P450 kinetic studies on six N-2-methoxybenzyl (NBOMe)-derived new psychoactive substances using the substrate depletion approach. <i>Toxicology Letters</i> , 2018, 285, 1-8.	0.8	19
94	Development and application of a LC-HRMS/MS method for analyzing antihypertensive drugs in oral fluid for monitoring drug adherence. <i>Analytica Chimica Acta</i> , 2019, 1070, 69-79.	5.4	19
95	Drug Administration Routes Impact the Metabolism of a Synthetic Cannabinoid in the Zebrafish Larvae Model. <i>Molecules</i> , 2020, 25, 4474.	3.8	19
96	Toxicokinetics and toxicodynamics of the fentanyl homologs cyclopropanoyl-1-benzyl-4- $\alpha$ -fluoro-4-anilinopiperidine and furanoyl-1-benzyl-4-anilinopiperidine. <i>Archives of Toxicology</i> , 2020, 94, 2009-2025.	4.2	19
97	Case report of accidental poisoning with the tranquilizer xylazine and the anesthetic ketamine confirmed by qualitative and quantitative toxicological analysis using GC-MS and LC-MS/MS. <i>Drug Testing and Analysis</i> , 2013, 5, 785-789.	2.6	18
98	Biotransformation and detectability of the new psychoactive substances N,N-diallyltryptamine (DALT) derivatives 5-fluoro-DALT, 7-methyl-DALT, and 5,6-methylenedioxy-DALT in urine using GC-MS, LC-MSn, and LC-HR-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1681-1695.	3.7	18
99	<i>In vitro</i> glucuronidation of designer benzodiazepines by human UDP-glucuronyltransferases. <i>Drug Testing and Analysis</i> , 2019, 11, 45-50.	2.6	18
100	Toxicokinetic studies of the four new psychoactive substances 4-chloroethcathinone, N-ethylnorpentylone, N-ethylhexedrone, and 4-fluoro- $\alpha$ -pyrrolidinohexiophenone. <i>Forensic Toxicology</i> , 2020, 38, 59-69.	2.4	18
101	Toxicometabolomics of the new psychoactive substances $\alpha$ -PBP and $\alpha$ -PEP studied in HepaRG cell incubates by means of untargeted metabolomics revealed unexpected amino acid adducts. <i>Archives of Toxicology</i> , 2020, 94, 2047-2059.	4.2	18
102	Screening for illicit drugs in pooled human urine and urinated soil samples and studies on the stability of urinary excretion products of cocaine, MDMA, and MDEA in wastewater by hyphenated mass spectrometry techniques. <i>Drug Testing and Analysis</i> , 2017, 9, 106-114.	2.6	17
103	Power of Orbitrap-based LC-high resolution-MS/MS for comprehensive drug testing in urine with or without conjugate cleavage or using dried urine spots after on-spot cleavage in comparison to established GC-MS or GC-MS procedures. <i>Drug Testing and Analysis</i> , 2018, 10, 158-163.	2.6	17
104	Nano liquid chromatography-high-resolution mass spectrometry for the identification of metabolites of the two new psychoactive substances N-(ortho-methoxybenzyl)-3,4-dimethoxyamphetamine and N-(ortho-methoxybenzyl)-4-methylmethamphetamine. <i>Talanta</i> , 2018, 188, 111-123.	5.5	17
105	Investigations on the human hepatic cytochrome P450 isozymes involved in the metabolism of 3,4-methylenedioxy-amphetamine (MDA) and benzodioxolyl-butanamine (BDB) enantiomers. <i>Toxicology Letters</i> , 2009, 190, 54-60.	0.8	16
106	Investigation on the Enantioselectivity of the Sulfation of the Methylenedioxymethamphetamine Metabolites 3,4-Dihydroxymethamphetamine and 4-Hydroxy-3-Methoxymethamphetamine using the Substrate-Depletion Approach. <i>Drug Metabolism and Disposition</i> , 2011, 39, 1998-2002.	3.3	16
107	Methylenedioxy designer drugs: Mass spectrometric characterization of their glutathione conjugates by means of liquid chromatography-high-resolution mass spectrometry/mass spectrometry and studies on their glutathionyl transferase inhibition potency. <i>Analytica Chimica Acta</i> , 2014, 822, 37-50.	5.4	16
108	Analytical characterization of bioactive N-benzyl-substituted phenethylamines and 5-methoxytryptamines. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 573-584.	1.5	16

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