

Markus R Meyer

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.

172
papers

4,612
citations

37
h-index

58
g-index

187
ext. papers

5,178
ext. citations

4.2
avg. IF

6.16
L-index

#	Paper	IF	Citations
172	Analytical techniques for the detection of novel psychoactive substances and their metabolites 2022 , 225-244		
171	Toxicokinetics of U-47700, tramadol, and their main metabolites in pigs following intravenous administration: is a multiple species allometric scaling approach useful for the extrapolation of toxicokinetic parameters to humans?. <i>Archives of Toxicology</i> , 2021 , 95, 3681-3693	5.8	1
170	Evaluation and analytical applicability of a novel volumetric absorptive microsampling strategy for adherence monitoring of antihypertensive drugs by means of LC-HRMS/MS. <i>Analytica Chimica Acta</i> , 2021 , 1187, 339137	6.6	0
169	Flubromazolam-Derived Designer Benzodiazepines: Toxicokinetics and Analytical Toxicology of Clobromazolam and Bromazolam. <i>Journal of Analytical Toxicology</i> , 2021 , 45, 1014-1027	2.9	3
168	Can a Recently Developed Pig Model Be Used for In Vivo Metabolism Studies of 7-Azaindole-Derived Synthetic Cannabinoids? A Study Using 5F-MDMB-P7AICA. <i>Journal of Analytical Toxicology</i> , 2021 , 45, 593-604	2.9	4
167	Recent trends in drugs of abuse metabolism studies for mass spectrometry-based analytical screening procedures. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 5551-5559	4.4	1
166	Perimortem Distribution of U-47700, Tramadol and their Main Metabolites in pigs Following Intravenous Administration. <i>Journal of Analytical Toxicology</i> , 2021 ,	2.9	4
165	Further development of a liquid chromatography-high-resolution mass spectrometry/mass spectrometry-based strategy for analyzing eight biomarkers in human urine indicating toxic mushroom or Ricinus communis ingestions. <i>Drug Testing and Analysis</i> , 2021 , 13, 1603-1613	3.5	2
164	Studies on the In Vitro and In Vivo Metabolic Fate of the New Psychoactive Substance N-Ethyl-N-Propyltryptamine for Analytical Purposes. <i>Journal of Analytical Toxicology</i> , 2021 , 45, 195-202	2.9	1
163	Comparison of in vitro and in vivo models for the elucidation of metabolic patterns of 7-azaindole-derived synthetic cannabinoids exemplified using cumyl-5F-P7AICA. <i>Drug Testing and Analysis</i> , 2021 , 13, 74-90	3.5	4
162	Abuse of nutmeg seeds: Detectable by means of liquid chromatography-mass spectrometry techniques?. <i>Drug Testing and Analysis</i> , 2021 , 13, 1440-1444	3.5	1
161	Drug adherence and psychosocial characteristics of patients presenting with hypertensive urgency at the emergency department. <i>Journal of Hypertension</i> , 2021 , 39, 1697-1704	1.9	1
160	Altered metabolic pathways elucidated via untargeted in vivo toxicometabolomics in rat urine and plasma samples collected after controlled application of a human equivalent amphetamine dose. <i>Archives of Toxicology</i> , 2021 , 95, 3223-3234	5.8	0
159	Cytotoxicity, metabolism, and isozyme mapping of the synthetic cannabinoids JWH-200, A-796260, and 5F-EMB-PINACA studied by means of in vitro systems. <i>Archives of Toxicology</i> , 2021 , 95, 3539-3557	5.8	0
158	Development, validation, and application of a quantitative volumetric absorptive microsampling-based method in finger prick blood by means of LC-HRMS/MS applicable for adherence monitoring of antipsychotics. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 1729-1737	4.4	6
157	Addendum: Hemmer, S., et al. Comparison of Three Untargeted Data Processing Workflows for Evaluating LC-HRMS Metabolomics Data. <i>Metabolites</i> 2020 , 10, 378. <i>Metabolites</i> , 2020 , 10, 432	5.6	78
156	Are pigs a suitable animal model for in vivo metabolism studies of new psychoactive substances? A comparison study using different in vitro/in vivo tools and U-47700 as model drug. <i>Toxicology Letters</i> , 2020 , 329, 12-19	4.4	7

155	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	5	14
154	Altered glucocorticoid metabolism represents a feature of macroph-aging. <i>Aging Cell</i> , 2020 , 19, e13156	9.9	7
153	Impact of the used solvent on the reconstitution efficiency of evaporated biosamples for untargeted metabolomics studies. <i>Metabolomics</i> , 2020 , 16, 34	4.7	1
152	Adherence to Antihypertensive Drugs Assessed by Hyphenated High-Resolution Mass Spectrometry Analysis of Oral Fluids. <i>Journal of the American Heart Association</i> , 2020 , 9, e014180	6	5
151	Development and application of a strategy for analyzing eight biomarkers in human urine to verify toxic mushroom or ricinus communis ingestions by means of hydrophilic interaction LC coupled to HRMS/MS. <i>Talanta</i> , 2020 , 213, 120847	6.2	6
150	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	2.9	11
149	Toxicokinetic Studies and Analytical Toxicology of the New Synthetic Opioids Cyclopentanoyl-Fentanyl and Tetrahydrofuranoyl-Fentanyl. <i>Journal of Analytical Toxicology</i> , 2020 , 44, 449-460	2.9	4
148	Toxicokinetics and toxicodynamics of the fentanyl homologs cyclopropanoyl-1-benzyl-4-fluoro-4-anilinopiperidine and furanoyl-1-benzyl-4-anilinopiperidine. <i>Archives of Toxicology</i> , 2020 , 94, 2009-2025	5.8	10
147	Liquid Chromatography-High-Resolution Mass Spectrometry-Based In Vitro Toxicometabolomics of the Synthetic Cathinones 4-MPD and 4-MEAP in Pooled Human Liver Microsomes. <i>Metabolites</i> , 2020 , 11,	5.6	2
146	Method development for quantitative determination of seven statins including four active metabolites by means of high-resolution tandem mass spectrometry applicable for adherence testing and therapeutic drug monitoring. <i>Clinical Chemistry and Laboratory Medicine</i> , 2020 , 58, 664-672	5.9	5
145	The metabolic fate of two new psychoactive substances - 2-aminoindane and N-methyl-2-aminoindane - studied in vitro and in vivo to support drug testing. <i>Drug Testing and Analysis</i> , 2020 , 12, 145-151	3.5	6
144	Pharmacological and biotransformation studies of 1-acyl-substituted derivatives of d-lysergic acid diethylamide (LSD). <i>Neuropharmacology</i> , 2020 , 172, 107856	5.5	5
143	Current Situation of the Metabolomics Techniques Used for the Metabolism Studies of New Psychoactive Substances. <i>Therapeutic Drug Monitoring</i> , 2020 , 42, 93-97	3.2	7
142	Drug Administration Routes Impact the Metabolism of a Synthetic Cannabinoid in the Zebrafish Larvae Model. <i>Molecules</i> , 2020 , 25,	4.8	5
141	Analysis of Δand Δamanitin in Human Plasma at Subnanogram per Milliliter Levels by Reversed Phase Ultra-High Performance Liquid Chromatography Coupled to Orbitrap Mass Spectrometry. <i>Toxins</i> , 2020 , 12,	4.9	5
140	Comparison of Three Untargeted Data Processing Workflows for Evaluating LC-HRMS Metabolomics Data. <i>Metabolites</i> , 2020 , 10,	5.6	12
139	Transient Receptor Potential Vanilloid 6 (TRPV6) Proteins Control the Extracellular Matrix Structure of the Placental Labyrinth. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
138	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	2.6	11

137	Use of UPLC-HRMS/MS for In Vitro and In Vivo Metabolite Identification of Three Methylphenidate-derived New Psychoactive Substances. <i>Journal of Analytical Toxicology</i> , 2020 , 44, 156-162	2.9	8
136	In vitro toxicokinetics and analytical toxicology of three novel NBOMe derivatives: phase I and II metabolism, plasma protein binding, and detectability in standard urine screening approaches studied by means of hyphenated mass spectrometry. <i>Forensic Toxicology</i> , 2020 , 38, 141-159	2.6	8
135	Toxicometabolomics of the new psychoactive substances EPBP and EPEP studied in HepaRG cell incubates by means of untargeted metabolomics revealed unexpected amino acid adducts. <i>Archives of Toxicology</i> , 2020 , 94, 2047-2059	5.8	12
134	Studies on the in vitro and in vivo metabolism of the synthetic opioids U-51754, U-47931E, and methoxyacetylfentanyl using hyphenated high-resolution mass spectrometry. <i>Scientific Reports</i> , 2019 , 9, 13774	4.9	9
133	Tools for studying the metabolism of new psychoactive substances for toxicological screening purposes - A comparative study using pooled human liver S9, HepaRG cells, and zebrafish larvae. <i>Toxicology Letters</i> , 2019 , 305, 73-80	4.4	27
132	Evaluation of novel organosilane modifications of paper spray mass spectrometry substrates for analyzing polar compounds. <i>Talanta</i> , 2019 , 204, 677-684	6.2	8
131	Distribution of the (synthetic) cannabinoids JWH-210, RCS-4, as well as Δ -tetrahydrocannabinol following pulmonary administration to pigs. <i>Archives of Toxicology</i> , 2019 , 93, 2211-2218	5.8	12
130	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	6.6	9
129	Overview of Common Designer Drugs 2019 , 237-246		2
128	In vitro glucuronidation of designer benzodiazepines by human UDP-glucuronyltransferases. <i>Drug Testing and Analysis</i> , 2019 , 11, 45-50	3.5	14
127	Blood plasma level determination using an automated LC-MS screening system and electronically stored calibrations exemplified for 22 drugs and two active metabolites often requested in emergency toxicology. <i>Drug Testing and Analysis</i> , 2019 , 11, 102-111	3.5	5
126	Toxicokinetics and analytical toxicology of the abused opioid U-48800 - in vitro metabolism, metabolic stability, isozyme mapping, and plasma protein binding. <i>Drug Testing and Analysis</i> , 2019 , 11, 1572-1580	3.5	7
125	Phenethylamine-derived new psychoactive substances 2C-E-FLY, 2C-EF-FLY, and 2C-T-7-FLY: Investigations on their metabolic fate including isoenzyme activities and their toxicological detectability in urine screenings. <i>Drug Testing and Analysis</i> , 2019 , 11, 1507-1521	3.5	6
124	Neuen Drogen auf der Spur mittels Chromatographie und MS. <i>BioSpektrum</i> , 2019 , 25, 637-639	0.1	
123	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	4.9	24
122	Metabolic fate of the new synthetic cannabinoid 7RI-5F-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	3.5	17
121	Interactions of phenethylamine-derived psychoactive substances of the 2C-series with human monoamine oxidases. <i>Drug Testing and Analysis</i> , 2019 , 11, 318-324	3.5	9
120	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	3.5	19

119	Cytotoxicity of new psychoactive substances and other drugs of abuse studied in human HepG2 cells using an adopted high content screening assay. <i>Toxicology Letters</i> , 2019 , 301, 79-89	4.4	8
118	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	4.4	22
117	Toxicokinetics of NPS: Update 2017. <i>Handbook of Experimental Pharmacology</i> , 2018 , 252, 441-459	3.2	8
116	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	4.4	14
115	Different in vitro and in vivo tools for elucidating the human metabolism of alpha-cathinone-derived drugs of abuse. <i>Drug Testing and Analysis</i> , 2018 , 10, 1119	3.5	17
114	Metabolism of the tryptamine-derived new psychoactive substances 5-MeO-2-Me-DALT, 5-MeO-2-Me-ALCHT, and 5-MeO-2-Me-DIPT and their detectability in urine studied by GC-MS, LC-MS, and LC-HR-MS/MS. <i>Drug Testing and Analysis</i> , 2018 , 10, 184-195	3.5	12
113	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	4.4	22
112	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	3.5	21
111	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	6.2	21
110	Can toxicokinetics of (synthetic) cannabinoids in pigs after pulmonary administration be upscaled to humans by allometric techniques?. <i>Biochemical Pharmacology</i> , 2018 , 155, 403-418	6	7
109	Inhibition and stimulation of the human breast cancer resistance protein as in vitro predictor of drug-drug interactions of drugs of abuse. <i>Archives of Toxicology</i> , 2018 , 92, 2875-2884	5.8	10
108	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 LC-MS or GC-MS procedures. <i>Drug Testing and Analysis</i> , 2018 , 10, 158-163	3.5	13
107	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	6.2	14
106	Analytical characterization of N,N-diallyltryptamine (DALT) and 16 ring-substituted derivatives. <i>Drug Testing and Analysis</i> , 2017 , 9, 115-126	3.5	8
105	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	3.2	16
104	Metabolic patterns of JWH-210, RCS-4, and THC in pig urine elucidated using LC-HR-MS/MS: Do they reflect patterns in humans?. <i>Drug Testing and Analysis</i> , 2017 , 9, 613-625	3.5	9
103	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	3.5	13
102	Microbial biotransformation of five pyrrolidinophenone-type psychoactive substances in wastewater and a wastewater isolated <i>Pseudomonas putida</i> strain. <i>Drug Testing and Analysis</i> , 2017 , 9, 1522-1536	3.5	6

101	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 GC-MS, LC-MS, and LC-HR-MS/MS approaches. <i>Journal of Pharmaceutical</i>	3.5	34
100	Dried urine spots - A novel sampling technique for comprehensive LC-MS drug screening. <i>Analytica Chimica Acta</i> , 2017 , 982, 112-121	6.6	19
99	Pooled human liver preparations, HepaRG, or HepG2 cell lines for metabolism studies of new psychoactive substances? A study using MDMA, MDD, butylone, MDP, MDPV, MDPB, 5-MAPB, and 5-API as examples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 143, 32-42	3.5	47
98	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	6.6	41
97	In vitro monoamine oxidase inhibition potential of alpha-methyltryptamine analog new psychoactive substances for assessing possible toxic risks. <i>Toxicology Letters</i> , 2017 , 272, 84-93	4.4	19
96	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
95	Biotransformation and detectability of the new psychoactive substances N,N-diallyltryptamine (DAL) derivatives 5-fluoro-DAL, 7-methyl-DAL, and 5,6-methylenedioxy-DAL in urine using GC-MS, LC-MS, and LC-HR-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 1681-1695	4.4	13
94	An easy and fast adenosine 5Rdiphosphate quantification procedure based on hydrophilic interaction liquid chromatography-high resolution tandem mass spectrometry for determination of the in vitro adenosine 5Rtriphosphatase activity of the human breast cancer resistance protein	4.5	6
93	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	7.8	42
92	New psychoactive substances: Studies on the metabolism of XLR-11, AB-PINACA, FUB-PB-22, 4-methoxy-EPVP, 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	4.4	40
91	A new approach towards biomarker selection in estimation of human exposure to chiral chemicals: a case study of mephedrone. <i>Scientific Reports</i> , 2017 , 7, 13009	4.9	16
90	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	4.4	33
89	3-Fluorophenmetrazine, a fluorinated analogue of phenmetrazine: Studies on in vivo metabolism in rat and human, in vitro metabolism in human CYP isoenzymes and microbial biotransformation in <i>Pseudomonas Putida</i> and wastewater using GC and LC coupled to (HR)-MS techniques. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 128, 485-495	3.5	11
88	In vitro cytochrome P450 inhibition potential of methylenedioxy-derived designer drugs studied with a two-cocktail approach. <i>Archives of Toxicology</i> , 2016 , 90, 305-18	5.8	26
87	Cytochrome P450 inhibition potential of new psychoactive substances of the tryptamine class. <i>Toxicology Letters</i> , 2016 , 241, 82-94	4.4	19
86	Multiple stage MS in analysis of plasma, serum, urine and in vitro samples relevant to clinical and forensic toxicology. <i>Bioanalysis</i> , 2016 , 8, 457-81	2.1	11
85	High-resolution mass spectrometry in toxicology: current status and future perspectives. <i>Archives of Toxicology</i> , 2016 , 90, 2161-2172	5.8	66
84	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, 6283-94	4.4	33

83	Toxicokinetics of new psychoactive substances: plasma protein binding, metabolic stability, and human phase I metabolism of the synthetic cannabinoid WIN 55,212-2 studied using in vitro tools and LC-HR-MS/MS. <i>Drug Testing and Analysis</i> , 2016 , 8, 1039-1048	3.5	20
82	Identification of main human urinary metabolites of the designer nitrobenzodiazepines clonazolam, meclonazepam, and nifoxipam by nano-liquid chromatography-high-resolution mass spectrometry for drug testing purposes. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 3571-91	4.4	50
81	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	6.6	64
80	New psychoactive substances: an overview on recent publications on their toxicodynamics and toxicokinetics. <i>Archives of Toxicology</i> , 2016 , 90, 2421-44	5.8	54
79	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(n) techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 3457-70	4.4	20
78	Analytical characterization of bioactive N-benzyl-substituted phenethylamines and 5-methoxytryptamines. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 573-84	2.2	13
77	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-MS(n), and LC-HR-MS/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 6697-719	4.4	63
76	In situ antibiofilm effect of glass-ionomer cement containing dimethylaminododecyl methacrylate. <i>Dental Materials</i> , 2015 , 31, 992-1002	5.7	17
75	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, 502-10	6	26
74	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, 1097-105	6.1	61
73	Toxicokinetics of lefetamine and derived diphenylethylamine designer drugs-Contribution of human cytochrome P450 isozymes to their main phase I metabolic steps. <i>Toxicology Letters</i> , 2015 , 238, 39-44	4.4	12
72	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, 221-33	6.6	91
71	Metabolism of the new psychoactive substances N,N-diallyltryptamine (DALT) and 5-methoxy-DALT and their detectability in urine by GC-MS, LC-MSn, and LC-HR-MS-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 7831-42	4.4	33
70	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)-MS(n) techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 1371-88	4.4	54
69	Witnessed drug intake before planned denervation--always harmless?. <i>International Journal of Cardiology</i> , 2015 , 179, 125-6	3.2	6
68	Contribution of human esterases to the metabolism of selected drugs of abuse. <i>Toxicology Letters</i> , 2015 , 232, 159-66	4.4	19
67	Elucidation of the metabolites of the novel psychoactive substance 4-methyl-N-ethyl-cathinone (4-MEC) in human urine and pooled liver microsomes by GC-MS and LC-HR-MS/MS techniques and of its detectability by GC-MS or LC-MS(n) standard screening approaches. <i>Drug Testing and Analysis</i> , 2015 , 7, 368-75	3.5	37
66	Biotransformation and detectability of the designer drug 2,5-dimethoxy-4-propylphenethylamine (2C-P) studied in urine by GC-MS, LC-MS(n), and LC-high-resolution-MS(n). <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 831-43	4.4	13

65	Low resolution and high resolution MS for studies on the metabolism and toxicological detection of the new psychoactive substance methoxypiperamide (MeOP). <i>Journal of Mass Spectrometry</i> , 2015 , 50, 1163-74	2.2	12
64	P-glycoprotein interactions of novel psychoactive substances - stimulation of ATP consumption and transport across Caco-2 monolayers. <i>Biochemical Pharmacology</i> , 2015 , 94, 220-6	6	25
63	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)-MSn. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 1957-74	4.4	25
62	A qualitative/quantitative approach for the detection of 37 tryptamine-derived designer drugs, 5 Ecabolines, ibogaine, and yohimbine in human urine and plasma using standard urine screening and multi-analyte approaches. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 225-37	4.4	30
61	The in vivo and in vitro metabolism and the detectability in urine of 3R4Rmethylenedioxy-alpha-pyrrolidinobutyrophenone (MDPBP), a new pyrrolidinophenone-type designer drug, studied by GC-MS and LC-MS(n). <i>Drug Testing and Analysis</i> , 2014 , 6, 746-56	3.5	19
60	Acute combined poisoning with the new designer drug 4-methyl-N-ethyl-cathinone (4-MEC) and gammabutyrolactone (GBL): A case report with different analytical approaches for identification of some metabolites. <i>Toxicologie Analytique Et Clinique</i> , 2014 , 26, 119-127	0.4	5
59	Lefetamine-derived designer drugs N-ethyl-1,2-diphenylethylamine (NEDPA) and N-iso-propyl-1,2-diphenylethylamine (NPDPA): metabolism and detectability in rat urine using GC-MS, LC-MSn and LC-HR-MS/MS. <i>Drug Testing and Analysis</i> , 2014 , 6, 1038-48	3.5	21
58	Studies on the microbial biotransformation of the novel psychoactive substance methylenedioxypropylvalerone (MDPV) in wastewater by means of liquid chromatography-high resolution mass spectrometry/mass spectrometry. <i>Science of the Total Environment</i> , 2014 , 493, 588-95	10.2	27
57	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	4.4	33
56	Trends in analyzing emerging drugs of abuse--from seized samples to body samples. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 6105-10	4.4	9
55	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	6.6	16
54	Dimethocaine, a synthetic cocaine derivative: studies on its in vitro metabolism catalyzed by P450s and NAT2. <i>Toxicology Letters</i> , 2014 , 225, 139-46	4.4	10
53	Toxicokinetics of novel psychoactive substances: characterization of N-acetyltransferase (NAT) isoenzymes involved in the phase II metabolism of 2C designer drugs. <i>Toxicology Letters</i> , 2014 , 227, 124-8	4.4	12
52	Current position of high-resolution MS for drug quantification in clinical & forensic toxicology. <i>Bioanalysis</i> , 2014 , 6, 2275-84	2.1	35
51	Forensic and clinical toxicology. <i>Bioanalysis</i> , 2014 , 6, 2187	2.1	2
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31	Current applications of high-resolution mass spectrometry in drug metabolism studies. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 1221-31	4.4	72
30	Analytical toxicology of emerging drugs of abuse--an update. <i>Therapeutic Drug Monitoring</i> , 2012 , 34, 615-21	3.2	30

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28	Sulfation of the 3,4-methylenedioxymethamphetamine (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, 120-8	4.4	21
27	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, 649-53	3.2	18
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24	Monitoring of kratom or Krypton intake in urine using GC-MS in clinical and forensic toxicology. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 127-35	4.4	37
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21	Drugs of abuse screening in urine as part of a metabolite-based LC-MSn screening concept. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 3481-9	4.4	116
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