

Andrea Eva Steuer

List of Publications by Year in descending order

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63
papers

1,512
citations

304743

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361022

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docs citations

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1647
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#	ARTICLE	IF	CITATIONS
1	Liquid Chromatography, in Combination with a Quadrupole Time-of-Flight Instrument (LC QTOF), with Sequential Window Acquisition of All Theoretical Fragment-Ion Spectra (SWATH) Acquisition: Systematic Studies on Its Use for Screenings in Clinical and Forensic Toxicology and Comparison with Information-Dependent Acquisition (IDA). <i>Analytical Chemistry</i> , 2014, 86, 11742-11749.	6.5	110
2	Pharmacokinetics and Pharmacodynamics of Lysergic Acid Diethylamide in Healthy Subjects. <i>Clinical Pharmacokinetics</i> , 2017, 56, 1219-1230.	3.5	96
3	Metabolomic Strategies in Biomarker Research—New Approach for Indirect Identification of Drug Consumption and Sample Manipulation in Clinical and Forensic Toxicology?. <i>Frontiers in Chemistry</i> , 2019, 7, 319.	3.6	82
4	From the Cover: Zebrafish Larvae Are Insensitive to Stimulation by Cocaine: Importance of Exposure Route and Toxicokinetics. <i>Toxicological Sciences</i> , 2016, 154, 183-193.	3.1	59
5	Single Hair Analysis of Small Molecules Using MALDI-Triple Quadrupole MS Imaging and LC-MS/MS: Investigations on Opportunities and Pitfalls. <i>Analytical Chemistry</i> , 2014, 86, 11758-11765.	6.5	58
6	Influence of Different Sewer Biofilms on Transformation Rates of Drugs. <i>Environmental Science & Technology</i> , 2016, 50, 13351-13360.	10.0	58
7	Time-dependent postmortem redistribution of butyrfentanyl and its metabolites in blood and alternative matrices in a case of butyrfentanyl intoxication. <i>Forensic Science International</i> , 2016, 266, 170-177.	2.2	55
8	Segmental hair analysis for differentiation of tilidine intake from external contamination using LC-ESI-MS/MS and MALDI-MS/MS imaging. <i>Drug Testing and Analysis</i> , 2015, 7, 143-149.	2.6	44
9	Studies on the metabolism of the fentanyl-derived designer drug butyrfentanyl in human in vitro liver preparations and authentic human samples using liquid chromatography-high resolution mass spectrometry (LC-HRMS). <i>Drug Testing and Analysis</i> , 2017, 9, 1085-1092.	2.6	44
10	Liquid Chromatography, In Combination with a Quadrupole Time-of-Flight Instrument, with Sequential Window Acquisition of All Theoretical Fragment-Ion Spectra Acquisition: Validated Quantification of 39 Antidepressants in Whole Blood As Part of a Simultaneous Screening and Quantification Procedure. <i>Analytical Chemistry</i> , 2015, 87, 9294-9301.	6.5	43
11	Systematic investigation of the incorporation mechanisms of zolpidem in fingernails. <i>Drug Testing and Analysis</i> , 2014, 6, 533-541.	2.6	41
12	Development and validation of a dynamic range-extended LC-MS/MS multi-analyte method for 11 different postmortem matrices for redistribution studies applying solvent calibration and additional ¹³ C isotope monitoring. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8681-8712.	3.7	40
13	Time-Dependent Postmortem Redistribution of Opioids in Blood and Alternative Matrices. <i>Journal of Analytical Toxicology</i> , 2018, 42, 365-374.	2.8	40
14	Comparison of conventional liquid chromatography-tandem mass spectrometry versus microflow liquid chromatography-tandem mass spectrometry within the framework of full method validation for simultaneous quantification of 40 antidepressants and neuroleptics in whole blood. <i>Journal of Chromatography A</i> , 2015, 1381, 87-100.	3.7	35
15	In vitro metabolism of the synthetic cannabinoids CUMYL-PINACA, 5F-PICWINACA, CUMYL-CN-BINACA, 5F-PICWINACA and CUMYL-CN-7AICA and CUMYL-CN-B7AICA. <i>Drug Testing and Analysis</i> , 2018, 10, 148-157.	2.6	35
16	Development and validation of an ultra-fast and sensitive microflow liquid chromatography-tandem mass spectrometry (MFLC-MS/MS) method for quantification of LSD and its metabolites in plasma and application to a controlled LSD administration study in humans. <i>Drug Testing and Analysis</i> , 2017, 9, 788-797.	2.6	33
17	Time-dependent postmortem redistribution of morphine and its metabolites in blood and alternative matrices—application of CT-guided biopsy sampling. <i>International Journal of Legal Medicine</i> , 2017, 131, 379-389.	2.2	29
18	Identification of new urinary gamma-hydroxybutyric acid markers applying untargeted metabolomics analysis following placebo-controlled administration to humans. <i>Drug Testing and Analysis</i> , 2019, 11, 813-823.	2.6	29

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19	Hair Analysis: Contamination versus Incorporation from the Circulatory System—Investigations on Single Hair Samples Using Time-of-Flight Secondary Ion Mass Spectrometry and Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 4132-4139.	6.5	28
20	Evaluation of drug incorporation into hair segments and nails by enantiomeric analysis following controlled single MDMA intakes. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 545-556.	3.7	27
21	Method development and validation for simultaneous quantification of 15 drugs of abuse and prescription drugs and 7 of their metabolites in whole blood relevant in the context of driving under the influence of drugs—Usefulness of multi-analyte calibration. <i>Forensic Science International</i> , 2014, 244, 92-101.	2.2	23
22	Development of CT-guided biopsy sampling for time-dependent postmortem redistribution investigations in blood and alternative matrices—proof of concept and application on two cases. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1249-1258.	3.7	22
23	A new metabolomics-based strategy for identification of endogenous markers of urine adulteration attempts exemplified for potassium nitrite. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 6235-6244.	3.7	22
24	(Un)targeted hair metabolomics: first considerations and systematic evaluation on the impact of sample preparation. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3963-3977.	3.7	21
25	Analytical considerations for (un)targeted metabolomic studies with special focus on forensic applications. <i>Drug Testing and Analysis</i> , 2019, 11, 678-696.	2.6	21
26	Chiral Plasma Pharmacokinetics of 3,4-Methylenedioxymethamphetamine and its Phase I and II Metabolites following Controlled Administration to Humans. <i>Drug Metabolism and Disposition</i> , 2015, 43, 1864-1871.	3.3	20
27	Human Metabolome Changes after a Single Dose of 3,4-Methylenedioxymethamphetamine (MDMA) with Special Focus on Steroid Metabolism and Inflammation Processes. <i>Journal of Proteome Research</i> , 2018, 17, 2900-2907.	3.7	19
28	Comparative Untargeted Metabolomics Analysis of the Psychostimulants 3,4-Methylenedioxy-Methamphetamine (MDMA), Amphetamine, and the Novel Psychoactive Substance Mephedrone after Controlled Drug Administration to Humans. <i>Metabolites</i> , 2020, 10, 306.	2.9	19
29	Fatal poisoning involving cyclopropylfentanyl—Investigation of time-dependent postmortem redistribution. <i>Forensic Science International</i> , 2019, 294, 80-85.	2.2	17
30	Cheating on forensic hair testing? Detection of potential biomarkers for cosmetically altered hair samples using untargeted hair metabolomics. <i>Analyst, The</i> , 2020, 145, 6586-6599.	3.5	17
31	Purple discoloration of the colon found during autopsy: Identification of betanin, its aglycone and metabolites by liquid chromatography—high-resolution mass spectrometry. <i>Forensic Science International</i> , 2014, 240, e1-e6.	2.2	16
32	Postmortem distribution and redistribution of MDAI and 2-MAPB in blood and alternative matrices. <i>Forensic Science International</i> , 2017, 279, 83-87.	2.2	16
33	Blood alcohol analysis alone versus comprehensive toxicological analysis—Systematic investigation of missed co-ingested other drugs in suspected alcohol-impaired drivers. <i>Forensic Science International</i> , 2016, 267, 52-59.	2.2	15
34	First Time View on Human Metabolome Changes after a Single Intake of 3,4-Methylenedioxymethamphetamine in Healthy Placebo-Controlled Subjects. <i>Journal of Proteome Research</i> , 2017, 16, 3310-3320.	3.7	15
35	Chiral analysis of amphetamines in hair by liquid chromatography—tandem mass spectrometry: compliance—monitoring of attention deficit hyperactivity disorder (ADHD) patients under Elvanse® therapy and identification after controlled low-dose application. <i>Drug Testing and Analysis</i> , 2018, 10, 254-261.	2.6	14
36	MALDI-MS drug analysis in biological samples: opportunities and challenges. <i>Bioanalysis</i> , 2016, 8, 1859-1878.	1.5	13

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37	Antemortem and postmortem influences on drug concentrations and metabolite patterns in postmortem specimens. <i>Wiley Interdisciplinary Reviews Forensic Science</i> , 2019, 1, .	2.1	13
38	Towards Extending the Detection Window of Gamma-Hydroxybutyric Acidâ€”An Untargeted Metabolomics Study in Serum and Urine Following Controlled Administration in Healthy Men. <i>Metabolites</i> , 2021, 11, 166.	2.9	13
39	Retrospective monitoring of long-term recreational and dependent cocaine use in toenail clippings/scrapings as an alternative to hair. <i>Bioanalysis</i> , 2014, 6, 3183-3196.	1.5	12
40	A possible new oxidation marker for hair adulteration: Detection of PTeCA (1Hâ€”pyrroleâ€”2,3,4,5â€”tetracarboxylic acid) in bleached hair. <i>Drug Testing and Analysis</i> , 2020, 12, 230-238.	2.6	12
41	Towards Best Practice in Hair Metabolomic Studies: Systematic Investigation on the Impact of Hair Length and Color. <i>Metabolites</i> , 2020, 10, 381.	2.9	12
42	Development and validation of an LCâ€”MS/MS method after chiral derivatization for the simultaneous stereoselective determination of methylenedioxyâ€”methamphetamine (MDMA) and its phase I and II metabolites in human blood plasma. <i>Drug Testing and Analysis</i> , 2015, 7, 592-602.	2.6	11
43	Inhibition potential of 3,4-methylenedioxymethamphetamine (MDMA) and its metabolites on the in vitro monoamine oxidase (MAO)-catalyzed deamination of the neurotransmitters serotonin and dopamine. <i>Toxicology Letters</i> , 2016, 243, 48-55.	0.8	11
44	Development of a highâ€”speed MALDIâ€”triple quadrupole mass spectrometric method for the determination of 3,4â€”methylenedioxymethamphetamine (MDMA) in oral fluid. <i>Drug Testing and Analysis</i> , 2016, 8, 235-240.	2.6	10
45	Parameter Optimization for Feature and Hit Generation in a General Unknown Screening Methodâ€”Proof of Concept Study Using a Design of Experiment Approach for a High Resolution Mass Spectrometry Procedure after Data Independent Acquisition. <i>Analytical Chemistry</i> , 2018, 90, 3531-3536.	6.5	10
46	Suitability evaluation of new endogenous biomarkers for the identification of nitriteâ€”based urine adulteration in mass spectrometry methods. <i>Drug Testing and Analysis</i> , 2019, 11, 230-239.	2.6	10
47	Time- and Site-Dependent Postmortem Redistribution of Antidepressants and Neuroleptics in Blood and Alternative Matrices. <i>Journal of Analytical Toxicology</i> , 2021, 45, 356-367.	2.8	10
48	Aldosterone deficiency in mice burdens respiration and accentuates diet-induced hyperinsulinemia and obesity. <i>JCI Insight</i> , 2018, 3, .	5.0	10
49	Identification of urinary metabolites of the synthetic cannabinoid 5F-CUMYL-P7AICA in human casework. <i>Forensic Science International</i> , 2019, 294, 76-79.	2.2	9
50	Postmortem Metabolomics: Strategies to Assess Time-Dependent Postmortem Changes of Diazepam, Nordiazepam, Morphine, Codeine, Mirtazapine and Citalopram. <i>Metabolites</i> , 2021, 11, 643.	2.9	9
51	Untargeted metabolomics approaches to improve casework in clinical and forensic toxicologyâ€”â€œWhere are we standing and where are we heading?â€• <i>Wiley Interdisciplinary Reviews Forensic Science</i> , 2022, 4, e1449.	2.1	9
52	Assessment of simpler calibration models in the development and validation of a fast postmortem multi-analyte LC-QTOF quantitation method in whole blood with simultaneous screening capabilities using SWATH acquisition. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 6495-6508.	3.7	8
53	Evaluation of endogenous urinary biomarkers for indirect detection of urine adulteration attempts by five different chemical adulterants in mass spectrometry methods. <i>Drug Testing and Analysis</i> , 2019, 11, 638-648.	2.6	8
54	Interpretable machine learning model to detect chemically adulterated urine samples analyzed by high resolution mass spectrometry. <i>Clinical Chemistry and Laboratory Medicine</i> , 2021, 59, 1392-1399.	2.3	8

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55	Impact of Cytochrome P450 2D6 Function on the Chiral Blood Plasma Pharmacokinetics of 3,4-Methylenedioxymethamphetamine (MDMA) and Its Phase I and II Metabolites in Humans. PLoS ONE, 2016, 11, e0150955.	2.5	7
56	Analytical considerations for postmortem metabolomics using GC-high-resolution MS. Analytical and Bioanalytical Chemistry, 2020, 412, 6241-6255.	3.7	7
57	Cyanide detection in gastric juice with corrin-based chemosensors. Analytical Methods, 2015, 7, 9707-9712.	2.7	6
58	Postmortem computed tomography and magnetic resonance imaging facilitates forensic autopsy in a fatal case of poisoning with formic acid, diphenhydramine, and ethanol. Forensic Science, Medicine, and Pathology, 2016, 12, 304-311.	1.4	6
59	In situ postmortem ethanol quantification in the cerebrospinal fluid by non-water-suppressed proton MRS. NMR in Biomedicine, 2019, 32, e4081.	2.8	6
60	Postmortem metabolomics: Correlating time-dependent concentration changes of xenobiotic and endogenous compounds. Drug Testing and Analysis, 2020, 12, 1171-1182.	2.6	6
61	Towards a New Qualitative Screening Assay for Synthetic Cannabinoids Using Metabolomics and Machine Learning. Clinical Chemistry, 2022, 68, 848-855.	3.2	6
62	Significance of Metabolite Ratios in the Interpretation of Segmental Hair Testing Results—Differentiation of Single from Chronic Morphine Use in a Case Series. Metabolites, 2021, 11, 557.	2.9	3
63	Easy and convenient millimole-scale synthesis of new, potential biomarkers for gamma-hydroxybutyric acid (GHB) intake: Feasible for analytical laboratories. Drug Testing and Analysis, 2022, , .	2.6	3