

Arian C Van Asten

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,373
citations

331538

21
h-index

345118

36
g-index

48
all docs

48
docs citations

48
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	Paper Spray and Extraction Spray Mass Spectrometry for the Direct and Simultaneous Quantification of Eight Drugs of Abuse in Whole Blood. <i>Analytical Chemistry</i> , 2014, 86, 7712-7718.	3.2	161
2	Quantitative analysis of target components by comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2003, 1019, 15-29.	1.8	110
3	Surface characterization of industrial fibers with inverse gas chromatography. <i>Journal of Chromatography A</i> , 2000, 888, 175-196.	1.8	96
4	The importance of GC and GC-MS in perfume analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2002, 21, 698-708.	5.8	64
5	Forensic potential of comprehensive two-dimensional gas chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 345-363.	5.8	51
6	Test Sample for the Spatially Resolved Quantification of Illicit Drugs on Fingerprints Using Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 5444-5450.	3.2	47
7	The interface between forensic science and technology: how technology could cause a paradigm shift in the role of forensic institutes in the criminal justice system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140264.	1.8	45
8	Consequences of Decontamination Procedures in Forensic Hair Analysis Using Metal-Assisted Secondary Ion Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2016, 88, 3091-3097.	3.2	45
9	Performance evaluation of handheld Raman spectroscopy for cocaine detection in forensic case samples. <i>Drug Testing and Analysis</i> , 2021, 13, 1054-1067.	1.6	42
10	Distinguishing drug isomers in the forensic laboratory: GC-UV in addition to GC-MS for orthogonal selectivity and the use of library match scores as a new source of information. <i>Forensic Science International</i> , 2019, 302, 109900.	1.3	40
11	Revealing hidden information in GC-MS spectra from isomeric drugs: Chemometrics based identification from 15ÅeV and 70ÅeV EI mass spectra. <i>Forensic Chemistry</i> , 2020, 18, 100225.	1.7	40
12	Novel Selectivity-Based Forensic Toxicological Validation of a Paper Spray Mass Spectrometry Method for the Quantitative Determination of Eight Amphetamines in Whole Blood. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2665-2676.	1.2	38
13	Comparison of Resolving Power and Separation Time in Thermal Field-Flow Fractionation, Hydrodynamic Chromatography, and Size-Exclusion Chromatography. <i>Analytical Chemistry</i> , 1994, 66, 1147-1160.	3.2	35
14	Rapid and robust on-scene detection of cocaine in street samples using a handheld near-infrared spectrometer and machine learning algorithms. <i>Drug Testing and Analysis</i> , 2020, 12, 1404-1418.	1.6	34
15	Mass-Spectrometry-Based Identification of Synthetic Drug Isomers Using Infrared Ion Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 7282-7288.	3.2	34
16	Isotopic and elemental profiling of ammonium nitrate in forensic explosives investigations. <i>Forensic Science International</i> , 2015, 248, 101-112.	1.3	33
17	Fragrance allergy: assessing the risk from washed fabrics. <i>Contact Dermatitis</i> , 2006, 55, 48-53.	0.8	32
18	Benefits of derivatization in GC-MS-based identification of new psychoactive substances. <i>Forensic Chemistry</i> , 2020, 20, 100273.	1.7	32

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19	On the added value of forensic science and grand innovation challenges for the forensic community. Science and Justice - Journal of the Forensic Science Society, 2014, 54, 170-179.	1.3	29
20	Forensic potential of atomic force microscopy. Forensic Chemistry, 2016, 2, 93-104.	1.7	24
21	On-site illicit-drug detection with an integrated near-infrared spectral sensor: A proof of concept. Talanta, 2022, 245, 123441.	2.9	23
22	Isomer-Specific Two-Color Double-Resonance IR ² MS ³ Ion Spectroscopy Using a Single Laser: Application in the Identification of Novel Psychoactive Substances. Analytical Chemistry, 2021, 93, 2687-2693.	3.2	22
23	A calibration friendly approach to identify drugs of abuse mixtures with a portable near-infrared analyzer. Drug Testing and Analysis, 2022, 14, 1089-1101.	1.6	20
24	Towards chemical profiling of ignitable liquids with comprehensive two-dimensional gas chromatography: Exploring forensic application to neat white spirits. Forensic Science International, 2016, 267, 183-195.	1.3	19
25	Local Ion Signatures (LIS) for the examination of comprehensive two-dimensional gas chromatography applied to fire debris analysis. Forensic Chemistry, 2017, 3, 1-13.	1.7	19
26	Spotting isomer mixtures in forensic illicit drug casework with GC-VUV using automated coelution detection and spectral deconvolution. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1173, 122675.	1.2	19
27	The Potential of Isotope Ratio Mass Spectrometry (IRMS) and Gas Chromatography-IRMS Analysis of Triacetone Triperoxide in Forensic Explosives Investigations. Journal of Forensic Sciences, 2016, 61, 1198-1207.	0.9	18
28	Detection and Characterization of Ignitable Liquid Residues in Forensic Fire Debris Samples by Comprehensive Two-Dimensional Gas Chromatography. Separations, 2018, 5, 43.	1.1	18
29	Deliberate evasion of narcotic legislation: Trends visualized in commercial mixtures of new psychoactive substances analyzed by GC-solid deposition-FTIR. Forensic Chemistry, 2021, 25, 100346.	1.7	17
30	Impurity profiling of trinitrotoluene using vacuum-outlet gas chromatography-mass spectrometry. Journal of Chromatography A, 2014, 1374, 224-230.	1.8	15
31	Chemical attribution of the home-made explosive ETN - Part I: Liquid chromatography-mass spectrometry analysis of partially nitrated erythritol impurities. Forensic Science International, 2020, 307, 110102.	1.3	14
32	Chemical attribution of fentanyl: The effect of human metabolism. Forensic Chemistry, 2021, 24, 100330.	1.7	13
33	Robust Bayesian Algorithm for Targeted Compound Screening in Forensic Toxicology. Analytical Chemistry, 2016, 88, 2421-2430.	3.2	12
34	Emerging techniques for the detection of pyrotechnic residues from seized postal packages containing fireworks. Forensic Science International, 2020, 308, 110160.	1.3	12
35	Utilization of Machine Learning for the Differentiation of Positional NPS Isomers with Direct Analysis in Real Time Mass Spectrometry. Analytical Chemistry, 2022, 94, 5029-5040.	3.2	12
36	Chemical attribution of the homemade explosive ETN - Part II: Isotope ratio mass spectrometry analysis of ETN and its precursors. Forensic Science International, 2020, 313, 110344.	1.3	11

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37	The importance of wavelength selection in on-scene identification of drugs of abuse with portable near-infrared spectroscopy. <i>Forensic Chemistry</i> , 2022, 30, 100437.	1.7	11
38	Multicomponent characterization and differentiation of flash bangers – Part II: Elemental profiling of plastic caps. <i>Forensic Science International</i> , 2018, 290, 336-348.	1.3	10
39	Fragrance allergy: assessing the safety of washed fabrics. <i>Contact Dermatitis</i> , 2010, 62, 349-354.	0.8	8
40	Accurate quantitation of pentaerythritol tetranitrate and its degradation products using liquid chromatography-atmospheric pressure chemical ionization-mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1338, 111-116.	1.8	8
41	Utilizing Surface Acoustic Wave Nebulization (SAWN) for the Rapid and Sensitive Ambient Ionization Mass Spectrometric Analysis of Organic Explosives. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2655-2669.	1.2	8
42	Electrochemical detection of MDMA and 2C-B in ecstasy tablets using a selectivity enhancement strategy by in-situ derivatization. <i>Forensic Chemistry</i> , 2022, 27, 100383.	1.7	7
43	Multicomponent characterization and differentiation of flash bangers – Part I: Sample collection and visual examination. <i>Forensic Science International</i> , 2018, 290, 327-335.	1.3	6
44	Impurities, adulterants and cutting agents in cocaine as potential candidates for retrospective mining of GC-MS data. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2022, 62, 60-75.	1.3	5
45	Elucidation of in Vitro Chlorinated Tyrosine Adducts in Blood Plasma as Selective Biomarkers of Chlorine Exposure. <i>Chemical Research in Toxicology</i> , 2022, 35, 1070-1079.	1.7	5
46	Probabilistic peak detection in CE-LIF for STR DNA typing. <i>Electrophoresis</i> , 2017, 38, 1713-1723.	1.3	4
47	Characterization and comparison of smokeless powders by on-line two-dimensional liquid chromatography. <i>Journal of Chromatography A</i> , 2022, 1672, 463072.	1.8	3
48	Rapid forensic chemical classification of confiscated flash banger fireworks using capillary electrophoresis. <i>Forensic Chemistry</i> , 2019, 16, 100187.	1.7	2