

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

331642

21
h-index

345203

36
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48
all docs

48
docs citations

48
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.1	5
2	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.	2.8	7
3	A calibration friendly approach to identify drugs of abuse mixtures with a portable near-infrared analyzer. <i>Drug Testing and Analysis</i> , 2022, 14, 1089-1101.	2.6	20
4	Utilization of Machine Learning for the Differentiation of Positional NPS Isomers with Direct Analysis in Real Time Mass Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 5029-5040.	6.5	12
5	On-site illicit-drug detection with an integrated near-infrared spectral sensor: A proof of concept. <i>Talanta</i> , 2022, 245, 123441.	5.5	23
6	Characterization and comparison of smokeless powders by on-line two-dimensional liquid chromatography. <i>Journal of Chromatography A</i> , 2022, 1672, 463072.	3.7	3
7	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.	3.3	5
8	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.	2.8	11
9	Isomer-Specific Two-Color Double-Resonance IR ² MS ³ Ion Spectroscopy Using a Single Laser: Application in the Identification of Novel Psychoactive Substances. <i>Analytical Chemistry</i> , 2021, 93, 2687-2693.	6.5	22
10	Spotting isomer mixtures in forensic illicit drug casework with GC-VUV using automated coelution detection and spectral deconvolution. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1173, 122675.	2.3	19
11	Chemical attribution of fentanyl: The effect of human metabolism. <i>Forensic Chemistry</i> , 2021, 24, 100330.	2.8	13
12	Deliberate evasion of narcotic legislation: Trends visualized in commercial mixtures of new psychoactive substances analyzed by GC-solid deposition-FTIR. <i>Forensic Chemistry</i> , 2021, 25, 100346.	2.8	17
13	Performance evaluation of handheld Raman spectroscopy for cocaine detection in forensic case samples. <i>Drug Testing and Analysis</i> , 2021, 13, 1054-1067.	2.6	42
14	Chemical attribution of the home-made explosive ETN – Part I: Liquid chromatography-mass spectrometry analysis of partially nitrated erythritol impurities. <i>Forensic Science International</i> , 2020, 307, 110102.	2.2	14
15	Benefits of derivatization in GC-MS-based identification of new psychoactive substances. <i>Forensic Chemistry</i> , 2020, 20, 100273.	2.8	32
16	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.	2.6	34
17	Chemical attribution of the homemade explosive ETN - Part II: Isotope ratio mass spectrometry analysis of ETN and its precursors. <i>Forensic Science International</i> , 2020, 313, 110344.	2.2	11
18	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.	2.8	40

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19	Emerging techniques for the detection of pyrotechnic residues from seized postal packages containing fireworks. <i>Forensic Science International</i> , 2020, 308, 110160.	2.2	12
20	Mass-Spectrometry-Based Identification of Synthetic Drug Isomers Using Infrared Ion Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 7282-7288.	6.5	34
21	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.	2.2	40
22	Rapid forensic chemical classification of confiscated flash banger fireworks using capillary electrophoresis. <i>Forensic Chemistry</i> , 2019, 16, 100187.	2.8	2
23	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.	2.8	8
24	Detection and Characterization of Ignitable Liquid Residues in Forensic Fire Debris Samples by Comprehensive Two-Dimensional Gas Chromatography. <i>Separations</i> , 2018, 5, 43.	2.4	18
25	Multicomponent characterization and differentiation of flash bangers – Part I: Sample collection and visual examination. <i>Forensic Science International</i> , 2018, 290, 327-335.	2.2	6
26	Multicomponent characterization and differentiation of flash bangers – Part II: Elemental profiling of plastic caps. <i>Forensic Science International</i> , 2018, 290, 336-348.	2.2	10
27	Probabilistic peak detection in CE-LIF for STR DNA typing. <i>Electrophoresis</i> , 2017, 38, 1713-1723.	2.4	4
28	Local Ion Signatures (LIS) for the examination of comprehensive two-dimensional gas chromatography applied to fire debris analysis. <i>Forensic Chemistry</i> , 2017, 3, 1-13.	2.8	19
29	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.	2.8	38
30	Forensic potential of atomic force microscopy. <i>Forensic Chemistry</i> , 2016, 2, 93-104.	2.8	24
31	The Potential of Isotope Ratio Mass Spectrometry (IRMS) and Gas Chromatography-IRMS Analysis of Triacetone Triperoxide in Forensic Explosives Investigations. <i>Journal of Forensic Sciences</i> , 2016, 61, 1198-1207.	1.6	18
32	Towards chemical profiling of ignitable liquids with comprehensive two-dimensional gas chromatography: Exploring forensic application to neat white spirits. <i>Forensic Science International</i> , 2016, 267, 183-195.	2.2	19
33	Robust Bayesian Algorithm for Targeted Compound Screening in Forensic Toxicology. <i>Analytical Chemistry</i> , 2016, 88, 2421-2430.	6.5	12
34	Forensic potential of comprehensive two-dimensional gas chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 345-363.	11.4	51
35	Consequences of Decontamination Procedures in Forensic Hair Analysis Using Metal-Assisted Secondary Ion Mass Spectrometry Analysis. <i>Analytical Chemistry</i> , 2016, 88, 3091-3097.	6.5	45
36	Isotopic and elemental profiling of ammonium nitrate in forensic explosives investigations. <i>Forensic Science International</i> , 2015, 248, 101-112.	2.2	33

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37	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.	4.0	45
38	Test Sample for the Spatially Resolved Quantification of Illicit Drugs on Fingerprints Using Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 5444-5450.	6.5	47
39	Impurity profiling of trinitrotoluene using vacuum-outlet gas chromatography–mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1374, 224-230.	3.7	15
40	On the added value of forensic science and grand innovation challenges for the forensic community. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2014, 54, 170-179.	2.1	29
41	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.	6.5	161
42	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.	3.7	8
43	Fragrance allergy: assessing the safety of washed fabrics. <i>Contact Dermatitis</i> , 2010, 62, 349-354.	1.4	8
44	Fragrance allergy: assessing the risk from washed fabrics. <i>Contact Dermatitis</i> , 2006, 55, 48-53.	1.4	32
45	Quantitative analysis of target components by comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2003, 1019, 15-29.	3.7	110
46	The importance of GC and GC-MS in perfume analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2002, 21, 698-708.	11.4	64
47	Surface characterization of industrial fibers with inverse gas chromatography. <i>Journal of Chromatography A</i> , 2000, 888, 175-196.	3.7	96
48	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.	6.5	35