

Forensic Chemistry and Ambient Mass Spectrometry: A Marriage?

Analytical Chemistry

88, 2515-2526

DOI: 10.1021/acs.analchem.5b02397

Citation Report

#	ARTICLE	IF	CITATIONS
2	Multifunctional Carbon Fiber Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 9547-9553.	6.5	50
3	Quantitative mass spectrometry of unconventional human biological matrices. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150380.	3.4	23
4	Analytical Validation of a Portable Mass Spectrometer Featuring Interchangeable, Ambient Ionization Sources for High Throughput Forensic Evidence Screening. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1048-1059.	2.8	87
5	Celebrating 10 years of easy ambient sonic-spray ionization. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 90, 135-141.	11.4	27
6	Direct Detection of Triacetone Triperoxide (TATP) in Real Banknotes from ATM Explosion by EASI-MS. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 370-375.	1.6	14
7	Balancing the utility and legality of implementing portable mass spectrometers coupled with ambient ionization in routine law enforcement activities. <i>Analytical Methods</i> , 2017, 9, 5015-5022.	2.7	27
8	Rapid analysis of forensic-related samples using two ambient ionization techniques coupled to high-resolution mass spectrometers. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 782-790.	1.5	14
9	Paper spray ionization mass spectrometry for rapid quantification of illegal beverage dyes. <i>Analytical Methods</i> , 2017, 9, 6273-6279.	2.7	23
10	Forensic Sampling and Analysis from a Single Substrate: Surface-Enhanced Raman Spectroscopy Followed by Paper Spray Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 10973-10979.	6.5	68
11	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
12	EASI-MS an expedite and secure technique to screen for 25I-NBOH in blotter papers. <i>Journal of Mass Spectrometry</i> , 2017, 52, 701-706.	1.6	18
13	Recent applications of ambient ionization mass spectrometry in environmental analysis. <i>Trends in Environmental Analytical Chemistry</i> , 2017, 15, 1-11.	10.3	35
14	Isotope signature characterization of Pb and U in open air by laser-ablation mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1932-1937.	3.0	1
15	Development of an on-line microextraction method for use in fiber-spray/mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2017, 421, 178-183.	1.5	12
16	Paper spray ionization mass spectrometry applied to forensic chemistry – drugs of abuse, inks and questioned documents. <i>Analytical Methods</i> , 2017, 9, 4400-4409.	2.7	41
17	Swab touch spray mass spectrometry for rapid analysis of organic gunshot residue from human hand and various surfaces using commercial and fieldable mass spectrometry systems. <i>Forensic Chemistry</i> , 2017, 5, 53-57.	2.8	35
18	Rapid sample classification using an open port sampling interface coupled with liquid introduction atmospheric pressure ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 281-291.	1.5	32
19	Sampling and profiling caffeine and its metabolites from an eyelid using a watercolor pen based on electrospray ionization/mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2017, 422, 51-55.	1.5	4

#	ARTICLE	IF	CITATIONS
20	Trace-Level Screening of Chemicals Related to Clandestine Desomorphine Production with Ambient Sampling, Portable Mass Spectrometry. <i>Journal of Chemistry</i> , 2017, 2017, 1-7.	1.9	6
21	Recent advances in ambient mass spectrometry of trace explosives. <i>Analyst</i> , 2018, 143, 1948-1969.	3.5	73
22	Forensic Analysis of Stains on Fabric Using Direct Analysis in Real-time Ionization with High-Resolution Accurate Mass Mass Spectrometry. <i>Journal of Forensic Sciences</i> , 2018, 63, 592-597.	1.6	10
23	Mass spectrometry imaging of illicit drugs in latent fingerprints by matrix-free and matrix-assisted desorption/ionization techniques. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 124-128.	1.0	11
24	Single-Use Poly(etheretherketone) Solid-Phase Microextraction-Transmission Mode Devices for Rapid Screening and Quantitation of Drugs of Abuse in Oral Fluid and Urine via Direct Analysis in Real-Time Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 952-960.	6.5	58
25	Analysis of Residual Explosives by Swab Touch Spray Ionization Mass Spectrometry. <i>Propellants, Explosives, Pyrotechnics</i> , 2018, 43, 1139-1144.	1.6	24
26	Investigation by direct-infusion ESI-MS and GC-MS of an alleged Leuckart route-specific impurity of methamphetamine. <i>Forensic Science International</i> , 2018, 288, 278-282.	2.2	2
27	A Low-Cost, Simplified Platform of Interchangeable, Ambient Ionization Sources for Rapid, Forensic Evidence Screening on Portable Mass Spectrometric Instrumentation. <i>Instruments</i> , 2018, 2, 5.	1.8	29
28	Collision induced dissociation of positive ions of dimethylnitramine, a model system for nitramine energetic molecules. <i>International Journal of Mass Spectrometry</i> , 2018, 431, 15-21.	1.5	1
29	Rapid Quantitative Analysis of Multiple Explosive Compound Classes on a Single Instrument via Flow-Injection Analysis Tandem Mass Spectrometry. <i>Journal of Forensic Sciences</i> , 2019, 64, 223-230.	1.6	16
30	Statistical detection of differentially abundant ions in mass spectrometry-based imaging experiments with complex designs. <i>International Journal of Mass Spectrometry</i> , 2019, 437, 49-57.	1.5	8
31	Screening of antimicrobials in animal-derived foods with desorption corona beam ionization (DCBI) mass spectrometry. <i>Food Chemistry</i> , 2019, 272, 411-417.	8.2	11
32	Fourier transform mass spectrometry applied to Forensic Chemistry. , 2019, , 469-508.		1
33	Paper spray ionization and portable mass spectrometers: a review. <i>Analytical Methods</i> , 2019, 11, 999-1013.	2.7	53
34	Identification of Postblast Residues by DART-High Resolution Mass Spectrometry Combined with Multivariate Statistical Analysis of the Kendrick Mass Defect. <i>Analytical Chemistry</i> , 2019, 91, 8093-8100.	6.5	7
35	LDI and MALDI-FT-ICR imaging MS in Cannabis leaves: optimization and study of spatial distribution of cannabinoids. <i>Analytical Methods</i> , 2019, 11, 1757-1764.	2.7	16
36	Minimalist strategies applied to analysis of forensic samples using elemental and molecular analytical techniques – A review. <i>Analytica Chimica Acta</i> , 2019, 1063, 9-17.	5.4	10
38	Molecularly imprinted polymers for miniaturized sample preparation techniques: strategies for chromatographic and mass spectrometry methods. <i>Analytical Methods</i> , 2020, 12, 894-911.	2.7	31

#	ARTICLE	IF	CITATIONS
39	Filter Cone Spray Ionization Coupled to a Portable MS System: Application to On-Site Forensic Evidence and Environmental Sample Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 336-346.	2.8	24
40	Rapid detection of asperphenamate in a hay batch associated with constipation and deaths in dairy cattle. The application of DART-HRMS to veterinary forensic toxicology. <i>Toxicon</i> , 2020, 187, 122-128.	1.6	6
41	Building an Interactive Immersive Virtual Reality Crime Scene for Future Chemists to Learn Forensic Science Chemistry. <i>Journal of Chemical Education</i> , 2020, 97, 2651-2656.	2.3	21
42	Armed with the Facts: A Method for the Analysis of Smokeless Powders by Ambient Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1943-1956.	2.8	8
43	The current role of mass spectrometry in forensics and future prospects. <i>Analytical Methods</i> , 2020, 12, 3974-3997.	2.7	46
44	FIELDABLE MASS SPECTROMETRY FOR FORENSIC SCIENCE, HOMELAND SECURITY, AND DEFENSE APPLICATIONS. <i>Mass Spectrometry Reviews</i> , 2021, 40, 628-646.	5.4	30
45	Identification and Confirmation of Fentanyl on Paper using Portable Surface Enhanced Raman Spectroscopy and Paper Spray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 735-741.	2.8	46
46	MASS SPECTROMETRY ANALYSIS OF DRUGS OF ABUSE: CHALLENGES AND EMERGING STRATEGIES. <i>Mass Spectrometry Reviews</i> , 2020, 39, 703-744.	5.4	38
47	Fiber spray ionization mass spectrometry in forensic chemistry: A screening of drugs of abuse and direct determination of cocaine in urine. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8747.	1.5	14
48	Raman spectroscopy coupled with ambient ionization mass spectrometry: A forensic laboratory investigation into rapid and simple dual instrumental analysis techniques. <i>International Journal of Mass Spectrometry</i> , 2020, 452, 116326.	1.5	11
49	The liquid micro junction-surface sampling probe (LMJ-SSP); a versatile ambient mass spectrometry interface. <i>Analyst</i> , 2021, 146, 6365-6378.	3.5	6
50	Rapid and direct detection of artificially aged papers employing easy ambient sonicâ€spray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9046.	1.5	1
51	Rapid Characterization of Drugs in Biological Fluid and Seized Material Using Thermal-Assisted Carbon Fiber Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 969-976.	2.8	7
52	Rapid Analysis and Authentication of Meat Using the MasSpec Pen Technology. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 3527-3536.	5.2	15
53	Integrating the MasSpec Pen with Sub-Atmospheric Pressure Chemical Ionization for Rapid Chemical Analysis and Forensic Applications. <i>Analytical Chemistry</i> , 2021, 93, 7549-7556.	6.5	6
54	Ambient ionization mass spectrometry applied to new psychoactive substance analysis. <i>Mass Spectrometry Reviews</i> , 2023, 42, 3-34.	5.4	15
55	Breaking Through the Barrier. <i>Clinics in Laboratory Medicine</i> , 2021, 41, 221-246.	1.4	7
56	Rapid, low-cost, and in-situ analysis of per- and polyfluoroalkyl substances in soils and sediments by ambient 3D-printed cone spray ionization mass spectrometry. <i>Chemosphere</i> , 2021, 272, 129708.	8.2	14

#	ARTICLE	IF	CITATIONS
57	Thread-based isotachopheresis coupled with desorption electrospray ionization mass spectrometry for clean-up, preconcentration, and determination of alkaloids in biological fluids. <i>Analytica Chimica Acta</i> , 2022, 1193, 338810.	5.4	10
58	Instantaneous Differentiation of Functional Isomers via Reactive Flowing Atmospheric Pressure Afterglow Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 9986-9994.	6.5	20
59	Mass spectrometry in forensic chemistry. , 2021, , 301-320.		0
60	Coupling laser desorption with corona beam ionization for ambient mass spectrometric analysis of solution and powder samples. <i>Talanta</i> , 2018, 179, 364-368.	5.5	10
61	Forensic determination of crossing lines involving stamp and pen inks by mass spectrometry imaging. <i>Analytical Methods</i> , 2020, 12, 951-958.	2.7	11
62	Paper Spray Ionization Mass Spectrometry in Forensic Chemistry. <i>RSC Detection Science</i> , 2019, , 198-243.	0.0	0
63	Ambient ionisation mass spectrometry for the trace detection of explosives using a portable mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2022, 471, 116735.	1.5	21
64	Role of Bioanalytical Chemistry in the Twenty-First Century. , 2022, , 25-51.		0
65	Drug toxicity and forensic pharmacokinetics. , 2022, , 425-486.		1
66	Characterization and optimization of a rapid, automated 3D-printed cone spray ionization-mass spectrometry (3D-PCSI-MS) methodology. <i>International Journal of Mass Spectrometry</i> , 2022, 474, 116781.	1.5	6
68	Fragmenting NanoPutians: capturing admiration to the rationality, predictability, and beauty of ion chemistry in Mass Spectrometry. <i>Journal of Mass Spectrometry</i> , 0, , .	1.6	1
69	Emerging Technological Advances in Improving the Safety of Muscle Foods: Framing in the Context of the Food Revolution 4.0. <i>Food Reviews International</i> , 2024, 40, 37-78.	8.4	2
70	Cannabinomics studies – A review from colorimetric tests to modern analytical techniques: Part II. <i>Forensic Chemistry</i> , 2023, 33, 100477.	2.8	1
71	DART-HRMS allows the detection of toxic alkaloids in animal autopsy specimens and guides the selection of confirmatory methods in accidental plant poisoning. <i>Analytica Chimica Acta</i> , 2023, 1264, 341309.	5.4	2
72	Synthesis, characterization, and application of a polymeric capillary fiber derived from methacrylic acid in the determination of cocaine in blood by FSI-MS. <i>Microchemical Journal</i> , 2024, 196, 109608.	4.5	0
73	A rapid and direct method for dating blue pen ink in documents using multiset modeling of infrared spectroscopy and mass spectrometry data. <i>Analytical Methods</i> , 2023, 15, 6523-6530.	2.7	0
74	Selectivity of Explosives Analysis with Ambient Ionization Single Quadrupole Mass Spectrometry: Implications for Trace Detection. <i>Journal of the American Society for Mass Spectrometry</i> , 0, , .	2.8	0