

Thomas P Forbes

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6029740/thomas-p-forbes-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

781
citations

16
h-index

26
g-index

48
ext. papers

926
ext. citations

4.9
avg, IF

5.03
L-index

#	Paper	IF	Citations
48	Rapid, presumptive identification of seed-based toxins using direct analysis in real time mass spectrometry (DART-MS) and its variants.. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2022 , 62, 145-151	2	1
47	Confined DART-MS for Rapid Chemical Analysis of Electronic Cigarette Aerosols and Spiked Drugs. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 2274-2280	3.5	3
46	Forensic applications of DART-MS: A review of recent literature. <i>Forensic Chemistry</i> , 2021 , 22, 100294	2.8	15
45	Inorganic oxidizer detection from propellants, pyrotechnics, and homemade explosive powders using gradient elution moving boundary electrophoresis. <i>Electrophoresis</i> , 2021 , 42, 279-288	3.6	1
44	Open port sampling interface mass spectrometry of wipe-based explosives, oxidizers, and narcotics for trace contraband detection. <i>Analytical Methods</i> , 2021 , 13, 3453-3460	3.2	1
43	DART-MS Spectral Similarity of Infrared Thermally Desorbed Solid Particulate and Solution Cast Propellant Samples. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1033-1040	3.5	2
42	Trace Detection and Chemical Analysis of Homemade Fuel-Oxidizer Mixture Explosives: Emerging Challenges and Perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 131, 116023-116023	14.6	12
41	Detection of fuel-oxidizer explosives utilizing portable capillary electrophoresis with wipe-based sampling. <i>Electrophoresis</i> , 2020 , 41, 1482-1490	3.6	4
40	Nanocalorimetry of explosives prepared by inkjet printing. <i>Thermochimica Acta</i> , 2020 , 685, 178510	2.9	1
39	Optimization of confined direct analysis in real time mass spectrometry (DART-MS). <i>Analyst, The</i> , 2020 , 145, 2743-2750	5	10
38	Emerging techniques for the detection of pyrotechnic residues from seized postal packages containing fireworks. <i>Forensic Science International</i> , 2020 , 308, 110160	2.6	8
37	Separation and Detection of Trace Fentanyl from Complex Mixtures Using Gradient Elution Moving Boundary Electrophoresis. <i>Analytical Chemistry</i> , 2019 , 91, 13014-13021	7.8	4
36	Review of the National Institute of Standards and Technology Research Program in Trace Contraband Detection 2019 , 49-62		
35	Discriminative potential of ion mobility spectrometry for the detection of fentanyl and fentanyl analogues relative to confounding environmental interferents. <i>Analyst, The</i> , 2019 , 144, 6391-6403	5	9
34	Forensic Analysis and Differentiation of Black Powder and Black Powder Substitute Chemical Signatures by Infrared Thermal Desorption-DART-MS. <i>Analytical Chemistry</i> , 2019 , 91, 1089-1097	7.8	18
33	Considerations for uranium isotope ratio analysis by atmospheric pressure ionization mass spectrometry. <i>Analyst, The</i> , 2018 , 144, 317-323	5	5
32	Recent advances in ambient mass spectrometry of trace explosives. <i>Analyst, The</i> , 2018 , 143, 1948-1969	5	53

31	Detection of Nonvolatile Inorganic Oxidizer-Based Explosives from Wipe Collections by Infrared Thermal Desorption-Direct Analysis in Real Time Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 6419-6425	7.8	27
30	Enhanced aerodynamic reach of vapor and aerosol sampling for real-time mass spectrometric detection using Venturi-assisted entrainment and ionization. <i>Analytica Chimica Acta</i> , 2017 , 957, 20-28	6.6	7
29	Broad spectrum infrared thermal desorption of wipe-based explosive and narcotic samples for trace mass spectrometric detection. <i>Analyst, The</i> , 2017 , 142, 3002-3010	5	17
28	DART-MS analysis of inorganic explosives using high temperature thermal desorption. <i>Analytical Methods</i> , 2017 , 9, 4988-4996	3.2	25
27	Rapid Analysis of Trace Drugs and Metabolites Using a Thermal Desorption DART-MS Configuration. <i>Analytical Methods</i> , 2016 , 8, 6494-6499	3.2	41
26	Ion mobility spectrometry nuisance alarm threshold analysis for illicit narcotics based on environmental background and a ROC-curve approach. <i>Analyst, The</i> , 2016 , 141, 4438-46	5	15
25	Detection and identification of sugar alcohol sweeteners by ion mobility spectrometry. <i>Analytical Methods</i> , 2016 , 8, 5611-5618	3.2	12
24	Direct analysis in real time mass spectrometry of potential by-products from homemade nitrate ester explosive synthesis. <i>Talanta</i> , 2016 , 150, 177-83	6.2	9
23	Rapid detection of sugar alcohol precursors and corresponding nitrate ester explosives using direct analysis in real time mass spectrometry. <i>Analyst, The</i> , 2015 , 140, 2785-96	5	34
22	In-source collision induced dissociation of inorganic explosives for mass spectrometric signature detection and chemical imaging. <i>Analytica Chimica Acta</i> , 2015 , 892, 1-9	6.6	19
21	Test Sample for the Spatially Resolved Quantification of Illicit Drugs on Fingerprints Using Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 5444-50	7.8	41
20	Trace detection and competitive ionization of erythritol tetranitrate in mixtures using direct analysis in real time mass spectrometry. <i>Analytical Methods</i> , 2015 , 7, 3632-3636	3.2	16
19	Rapid detection and isotopic measurement of discrete inorganic samples using acoustically actuated droplet ejection and extractive electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 19-28	2.2	12
18	Visualizing mass transport in desorption electrospray ionization using time-of-flight secondary ion mass spectrometry. <i>Analyst, The</i> , 2014 , 139, 2668-73	5	4
17	Chemical imaging of artificial fingerprints by desorption electro-flow focusing ionization mass spectrometry. <i>Analyst, The</i> , 2014 , 139, 2982-5	5	35
16	Mass spectrometry detection and imaging of inorganic and organic explosive device signatures using desorption electro-flow focusing ionization. <i>Analytical Chemistry</i> , 2014 , 86, 7788-97	7.8	40
15	Capturing rare cells from blood using a packed bed of custom-synthesized chitosan microparticles. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4313-4319	7.3	13
14	Theoretical analysis of a magnetophoresis-diffusion T-sensor immunoassay. <i>Lab on A Chip</i> , 2013 , 13, 3935-44	3	3

13	Desorption electro-flow focusing ionization of explosives and narcotics for ambient pressure mass spectrometry. <i>Analyst, The</i> , 2013 , 138, 5665-73	5	22
12	Primary and secondary droplet and charge transmission characteristics of desorption electro-flow focusing ionization. <i>Applied Physics Letters</i> , 2013 , 102, 214102	3.4	8
11	Microfluidic magnetophoretic separations of immunomagnetically labeled rare mammalian cells. <i>Lab on A Chip</i> , 2012 , 12, 1471-9	7.2	100
10	A simple packed bed device for antibody labelled rare cell capture from whole blood. <i>Lab on A Chip</i> , 2012 , 12, 4972-5	7.2	18
9	Engineering and analysis of surface interactions in a microfluidic herringbone micromixer. <i>Lab on A Chip</i> , 2012 , 12, 2634-7	7.2	41
8	Droplet charging regimes for ultrasonic atomization of a liquid electrolyte in an external electric field. <i>Physics of Fluids</i> , 2011 , 23, 12104	4.4	10
7	Regime transition in electromechanical fluid atomization and implications to analyte ionization for mass spectrometric analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 1900-5	3.5	1
6	Electrohydrodynamics of charge separation in droplet-based ion sources with time-varying electrical and mechanical actuation. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 501-10	3.5	16
5	Electrochemical Ionization and Analyte Charging in the Array of Micromachined UltraSonic ElectroSpray (AMUSE) Ion Source. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 645, 167-173	4.1	0
4	Characterization of charge separation in the Array of Micromachined UltraSonic ElectroSpray (AMUSE) ion source for mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 1684-7	3.5	10
3	Comparison of the internal energy deposition of Venturi-assisted electrospray ionization and a Venturi-assisted array of micromachined ultrasonic electrosprays (AMUSE). <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 1320-9	3.5	15
2	Multiplexed operation of a micromachined ultrasonic droplet ejector array. <i>Review of Scientific Instruments</i> , 2007 , 78, 104101	1.7	7
1	Analytical performance of a venturi-assisted array of micromachined ultrasonic electrosprays coupled to ion trap mass spectrometry for the analysis of peptides and proteins. <i>Analytical Chemistry</i> , 2007 , 79, 8154-61	7.8	16