

Thomas P Forbes

List of Publications by Citations

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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	Microfluidic magnetophoretic separations of immunomagnetically labeled rare mammalian cells. <i>Lab on A Chip</i> , 2012 , 12, 1471-9	7.2	100
47	Recent advances in ambient mass spectrometry of trace explosives. <i>Analyst, The</i> , 2018 , 143, 1948-1969	5	53
46	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
45	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
44	Engineering and analysis of surface interactions in a microfluidic herringbone micromixer. <i>Lab on A Chip</i> , 2012 , 12, 2634-7	7.2	41
43	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
42	Chemical imaging of artificial fingerprints by desorption electro-flow focusing ionization mass spectrometry. <i>Analyst, The</i> , 2014 , 139, 2982-5	5	35
41	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
40	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 ²⁷	7.8	27
39	DART-MS analysis of inorganic explosives using high temperature thermal desorption. <i>Analytical Methods</i> , 2017 , 9, 4988-4996	3.2	25
38	Desorption electro-flow focusing ionization of explosives and narcotics for ambient pressure mass spectrometry. <i>Analyst, The</i> , 2013 , 138, 5665-73	5	22
37	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
36	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
35	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
34	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
33	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
32	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

31	Analytical performance of a venturi-assisted array of micromachined ultrasonic electrospays coupled to ion trap mass spectrometry for the analysis of peptides and proteins. <i>Analytical Chemistry</i> , 2007 , 79, 8154-61	7.8	16
30	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
29	Comparison of the internal energy deposition of Venturi-assisted electrospray ionization and a Venturi-assisted array of micromachined ultrasonic electrospays (AMUSE). <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 1320-9	3.5	15
28	Forensic applications of DART-MS: A review of recent literature. <i>Forensic Chemistry</i> , 2021 , 22, 100294	2.8	15
27	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
26	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
25	Detection and identification of sugar alcohol sweeteners by ion mobility spectrometry. <i>Analytical Methods</i> , 2016 , 8, 5611-5618	3.2	12
24	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
23	Optimization of confined direct analysis in real time mass spectrometry (DART-MS). <i>Analyst, The</i> , 2020 , 145, 2743-2750	5	10
22	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
21	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
20	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
19	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
18	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
17	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
16	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
15	Multiplexed operation of a micromachined ultrasonic droplet ejector array. <i>Review of Scientific Instruments</i> , 2007 , 78, 104101	1.7	7
14	Considerations for uranium isotope ratio analysis by atmospheric pressure ionization mass spectrometry. <i>Analyst, The</i> , 2018 , 144, 317-323	5	5

13	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
12	Detection of fuel-oxidizer explosives utilizing portable capillary electrophoresis with wipe-based sampling. <i>Electrophoresis</i> , 2020 , 41, 1482-1490	3.6	4
11	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
10	Theoretical analysis of a magnetophoresis-diffusion T-sensor immunoassay. <i>Lab on A Chip</i> , 2013 , 13, 3935-44	7.4	3
9	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
8	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
7	Nanocalorimetry of explosives prepared by inkjet printing. <i>Thermochimica Acta</i> , 2020 , 685, 178510	2.9	1
6	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
5	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
4	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
3	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
2	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
1	Review of the National Institute of Standards and Technology Research Program in Trace Contraband Detection 2019 , 49-62		