

Christopher C Mulligan

List of Publications by Year in descending order

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34
papers

1,844
citations

304743

22
h-index

395702

33
g-index

35
all docs

35
docs citations

35
times ranked

1350
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Temperature Plasma Probe for Ambient Desorption Ionization. <i>Analytical Chemistry</i> , 2008, 80, 9097-9104.	6.5	638
2	Desorption electrospray ionization with a portable mass spectrometer: in situ analysis of ambient surfaces. <i>Chemical Communications</i> , 2006, , 1709.	4.1	109
3	Non-Proximate Detection of Small and Large Molecules by Desorption Electrospray Ionization and Desorption Atmospheric Pressure Chemical Ionization Mass Spectrometry: Instrumentation and Applications in Forensics, Chemistry, and Biology. <i>Analytical Chemistry</i> , 2007, 79, 7069-7077.	6.5	106
4	Fabric analysis by ambient mass spectrometry for explosives and drugs. <i>Analyst, The</i> , 2008, 133, 1532.	3.5	98
5	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
6	Direct monitoring of toxic compounds in air using a portable mass spectrometer. <i>Analyst, The</i> , 2006, 131, 556.	3.5	64
7	Rapid screening of synthetic cathinones as trace residues and in authentic seizures using a portable mass spectrometer equipped with desorption electrospray ionization. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2665-2672.	1.5	61
8	Atmospheric Pressure Ionization in a Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , 2005, 77, 2928-2939.	6.5	60
9	Fast analysis of high-energy compounds and agricultural chemicals in water with desorption electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3729-3736.	1.5	56
10	QuEChERS Multiresidue Method Validation and Mass Spectrometric Assessment for the Novel Anthranilic Diamide Insecticides Chlorantranilprole and Cyantranilprole. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 814-821.	5.2	53
11	Integrating SERS and PSI-MS with Dual Purpose Plasmonic Paper Substrates for On-Site Illicit Drug Confirmation. <i>Analytical Chemistry</i> , 2020, 92, 6676-6683.	6.5	53
12	The current role of mass spectrometry in forensics and future prospects. <i>Analytical Methods</i> , 2020, 12, 3974-3997.	2.7	46
13	Monitoring the clandestine synthesis of methamphetamine in real-time with ambient sampling, portable mass spectrometry. <i>Analytical Methods</i> , 2015, 7, 7156-7163.	2.7	42
14	Analysis of gaseous toxic industrial compounds and chemical warfare agent simulants by atmospheric pressure ionization mass spectrometry. <i>Analyst, The</i> , 2006, 131, 579.	3.5	38
15	Combining a portable, tandem mass spectrometer with automated library searching – an important step towards streamlined, on-site identification of forensic evidence. <i>Analytical Methods</i> , 2015, 7, 3331-3339.	2.7	36
16	Arrays of low-temperature plasma probes for ambient ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 135-142.	1.5	35
17	FIELDABLE MASS SPECTROMETRY FOR FORENSIC SCIENCE, HOMELAND SECURITY, AND DEFENSE APPLICATIONS. <i>Mass Spectrometry Reviews</i> , 2021, 40, 628-646.	5.4	30
18	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

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19	Direct Detection of Pharmaceuticals and Personal Care Products from Aqueous Samples with Thermally-Assisted Desorption Electrospray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1285-93.	2.8	27
20	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
21	Mass spectra of proteins and other biomolecules recorded using a handheld instrument. <i>International Journal of Mass Spectrometry</i> , 2008, 278, 166-169.	1.5	26
22	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
23	Screening of cosmetic ingredients from authentic formulations and environmental samples with desorption electrospray ionization mass spectrometry. <i>Analytical Methods</i> , 2013, 5, 394-401.	2.7	22
24	Rapid, <i>in situ</i> detection of chemical warfare agent simulants and hydrolysis products in bulk soils by low-cost 3D-printed cone spray ionization mass spectrometry. <i>Analyst, The</i> , 2021, 146, 3127-3136.	3.5	16
25	The development and assessment of high-throughput mass spectrometry-based methods for the quantification of a nanoparticle drug delivery agent in cellular lysate. <i>Journal of Mass Spectrometry</i> , 2014, 49, 1171-1180.	1.6	13
26	Sandwiching analytes with structurally diverse plasmonic nanoparticles on paper substrates for surface enhanced Raman spectroscopy. <i>RSC Advances</i> , 2019, 9, 32535-32543.	3.6	10
27	The fourth amendment and the potential use of field-portable mass spectrometry systems in law enforcement. <i>Journal of Crime and Justice</i> , 2019, 42, 316-330.	1.1	7
28	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
29	Assessing the environmental ruggedness of paper spray ionization (PSI) coupled to a portable mass spectrometer operated under field conditions. <i>International Journal of Mass Spectrometry</i> , 2022, 472, 116776.	1.5	6
30	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
31	Rapid detection of terbufos in stomach contents using desorption electrospray ionization mass spectrometry. <i>Journal of Veterinary Diagnostic Investigation</i> , 2014, 26, 428-430.	1.1	5
32	Ligand Exchange/Scrambling Study of Gold(I)-Phosphine Complexes in the Solid Phase by DESI-MS Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2289-2296.	2.8	4
33	Ion Traps for Miniature, Multiplexed, and Soft-Landing Technologies. , 2010, , 169-247.		2
34	Mechanochemical synthesis of six Cu(II) complexes with selected thiols, their physicochemical characterization and interaction with DNA. <i>Journal of Molecular Structure</i> , 2022, 1265, 133436.	3.6	2