

# Christopher C Mulligan

## List of Publications by Year in Descending Order

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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.

35  
papers

1,585  
citations

20  
h-index

35  
g-index

35  
ext. papers

1,714  
ext. citations

3.9  
avg, IF

4.55  
L-index

#	Paper	IF	Citations
35	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> , <b>2022</b> , 472, 116776	1.9	3
34	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> , <b>2022</b> , 474, 116781	1.9	2
33	Mechanochemical synthesis of six Cu(II) complexes with selected thiols, their physicochemical characterization and interaction with DNA. <i>Journal of Molecular Structure</i> , <b>2022</b> , 133436	3.4	
32	FIELDABLE MASS SPECTROMETRY FOR FORENSIC SCIENCE, HOMELAND SECURITY, AND DEFENSE APPLICATIONS. <i>Mass Spectrometry Reviews</i> , <b>2021</b> , 40, 628-646	11	16
31	Rapid, 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> , <b>2021</b> , 146, 3127-3136	5	5
30	Integrating SERS and PSI-MS with Dual Purpose Plasmonic Paper Substrates for On-Site Illicit Drug Confirmation. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 6676-6683	7.8	23
29	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> , <b>2020</b> , 31, 336-346	3.5	20
28	The current role of mass spectrometry in forensics and future prospects. <i>Analytical Methods</i> , <b>2020</b> , 12, 3974-3997	3.2	18
27	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> , <b>2019</b> , 30, 2289-2296	3.5	3
26	The fourth amendment and the potential use of field-portable mass spectrometry systems in law enforcement. <i>Journal of Crime and Justice</i> , <b>2019</b> , 42, 316-330	0.9	6
25	Sandwiching analytes with structurally diverse plasmonic nanoparticles on paper substrates for surface enhanced Raman spectroscopy.. <i>RSC Advances</i> , <b>2019</b> , 9, 32535-32543	3.7	7
24	A Low-Cost, Simplified Platform of Interchangeable, Ambient Ionization Sources for Rapid, Forensic Evidence Screening on Portable Mass Spectrometric Instrumentation. <i>Instruments</i> , <b>2018</b> , 2, 5	1.2	28
23	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> , <b>2017</b> , 28, 1048-1059	3.5	77
22	Balancing the utility and legality of implementing portable mass spectrometers coupled with ambient ionization in routine law enforcement activities. <i>Analytical Methods</i> , <b>2017</b> , 9, 5015-5022	3.2	24
21	Trace-Level Screening of Chemicals Related to Clandestine Desomorphine Production with Ambient Sampling, Portable Mass Spectrometry. <i>Journal of Chemistry</i> , <b>2017</b> , 2017, 1-7	2.3	5
20	Biological Samples in Environmental Analysis: Preparation and Cleanup <b>2016</b> , 1-14		
19	Monitoring the clandestine synthesis of methamphetamine in real-time with ambient sampling, portable mass spectrometry. <i>Analytical Methods</i> , <b>2015</b> , 7, 7156-7163	3.2	36

18	Combining a portable, tandem mass spectrometer with automated library searching is an important step towards streamlined, on-site identification of forensic evidence. <i>Analytical Methods</i> , <b>2015</b> , 7, 3331-3339	3.2	32
17	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> , <b>2014</b> , 49, 1171-80	2.2	12
16	Rapid detection of terbufos in stomach contents using desorption electrospray ionization mass spectrometry. <i>Journal of Veterinary Diagnostic Investigation</i> , <b>2014</b> , 26, 428-430	1.5	4
15	Screening of cosmetic ingredients from authentic formulations and environmental samples with desorption electrospray ionization mass spectrometry. <i>Analytical Methods</i> , <b>2013</b> , 5, 394-401	3.2	19
14	Arrays of low-temperature plasma probes for ambient ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2013</b> , 27, 135-42	2.2	33
13	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> , <b>2012</b> , 26, 2665-72	2.2	56
12	QuEChERS multiresidue method validation and mass spectrometric assessment for the novel anthranilic diamide insecticides chlorantraniliprole and cyantraniliprole. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 814-21	5.7	44
11	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> , <b>2011</b> , 22, 1285-93	3.5	22
10	Ion Traps for Miniature, Multiplexed, and Soft-Landing Technologies <b>2010</b> , 169-247		2
9	Low-temperature plasma probe for ambient desorption ionization. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 9097-1004	1.04	580
8	Fabric analysis by ambient mass spectrometry for explosives and drugs. <i>Analyst, The</i> , <b>2008</b> , 133, 1532-405		88
7	Mass spectra of proteins and other biomolecules recorded using a handheld instrument. <i>International Journal of Mass Spectrometry</i> , <b>2008</b> , 278, 166-169	1.9	25
6	Fast analysis of high-energy compounds and agricultural chemicals in water with desorption electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2007</b> , 21, 3729-36	3.2	54
5	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> , <b>2007</b> , 79, 7069-77	7.8	96
4	Direct monitoring of toxic compounds in air using a portable mass spectrometer. <i>Analyst, The</i> , <b>2006</b> , 131, 556-67	5	58
3	Analysis of gaseous toxic industrial compounds and chemical warfare agent simulants by atmospheric pressure ionization mass spectrometry. <i>Analyst, The</i> , <b>2006</b> , 131, 579-89	5	32
2	Desorption electrospray ionization with a portable mass spectrometer: in situ analysis of ambient surfaces. <i>Chemical Communications</i> , <b>2006</b> , 1709-11	5.8	98
1	Atmospheric pressure ionization in a miniature mass spectrometer. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 2928-38	3.8	57

