

Patrick W Fedick

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.

28
papers

414
citations

13
h-index

20
g-index

28
ext. papers

489
ext. citations

4.7
avg, IF

4.25
L-index

#	Paper	IF	Citations
28	Detection and toxicity modeling of anthraquinone dyes and chlorinated side products from a colored smoke pyrotechnic reaction. <i>Chemosphere</i> , 2022 , 287, 131845	8.4	2
27	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 ^{1.9}	1.9	2
26	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	8.4	5
25	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> , 2021 , 146, 3127-3136	5	5
24	Accelerated synthesis of energetic precursor cage compounds using confined volume systems.. <i>Scientific Reports</i> , 2021 , 11, 24093	4.9	1
23	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	3.5	22
22	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	1.9	7
21	The current role of mass spectrometry in forensics and future prospects. <i>Analytical Methods</i> , 2020 , 12, 3974-3997	3.2	18
20	Solubility of hydrocarbon oils in alcohols (II) and synthesis of difusel carbonate for degreasing.. <i>RSC Advances</i> , 2019 , 9, 22891-22899	3.7	2
19	Accelerated Chemical Synthesis: Three Ways of Performing the Katritzky Transamination Reaction. <i>Journal of Chemical Education</i> , 2019 , 96, 360-365	2.4	10
18	Quantitative Swab Touch Spray Mass Spectrometry for Oral Fluid Drug Testing. <i>Analytical Chemistry</i> , 2019 , 91, 7450-7457	7.8	25
17	Screening of the Suzuki Cross-Coupling Reaction Using Desorption Electrospray Ionization in High-Throughput and in Leidenfrost Droplet Experiments. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 2144-2151	3.5	19
16	Process Analytical Technology for Online Monitoring of Organic Reactions by Mass Spectrometry and UV-Vis Spectroscopy. <i>Journal of Chemical Education</i> , 2019 , 96, 124-131	2.4	13
15	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	1.2	28
14	Accelerated tert-butyloxycarbonyl deprotection of amines in microdroplets produced by a pneumatic spray. <i>International Journal of Mass Spectrometry</i> , 2018 , 430, 98-103	1.9	8
13	Analysis of Residual Explosives by Swab Touch Spray Ionization Mass Spectrometry. <i>Propellants, Explosives, Pyrotechnics</i> , 2018 , 43, 1139-1144	1.7	18
12	Ion Mobility-Mass Spectrometry Using a Dual-Gated 3D Printed Ion Mobility Spectrometer. <i>Analytical Chemistry</i> , 2018 , 90, 13265-13272	7.8	23

11	Pyrolysis/GC/MS as a Method to Rapidly Profile Pyrotechnic Formulations for Objectionable Gaseous Emissions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16990-16999	8.3	4
10	State-of-the-art mass spectrometry for point-of-care and other applications: A hands-on intensive short course for undergraduate students. <i>International Journal of Mass Spectrometry</i> , 2017 , 417, 22-28	1.9	10
9	Simultaneous Online Monitoring of Multiple Reactions Using a Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , 2017 , 89, 6969-6975	7.8	15
8	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	7.8	57
7	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	3.5	31
6	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	28
5	Chiral Analysis by Tandem Mass Spectrometry Using the Kinetic Method, by Polarimetry, and by ¹ H NMR Spectroscopy. <i>Journal of Chemical Education</i> , 2017 , 94, 1329-1333	2.4	5
4	Multigenerational Collision-Induced Dissociation for Characterization of Organic Compounds. <i>Analytical Chemistry</i> , 2016 , 88, 9572-9581	7.8	18
3	Mass spectrometric detection of nanoparticle host-guest interactions in cells. <i>Analytical Chemistry</i> , 2014 , 86, 6710-4	7.8	13
2	Daily bioaccessible levels of selected essential but toxic heavy metals from the consumption of non-dietary food sources. <i>Food and Chemical Toxicology</i> , 2013 , 62, 142-7	4.7	23
1	BPA-free high-performance sustainable polycarbonates derived from non-estrogenic bio-based phenols. <i>Green Chemistry</i> ,	10	2