

Patrick W Fedick

List of Publications by Year in descending order

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28
papers

616
citations

516710

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28
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628
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	6.5	68
2	The current role of mass spectrometry in forensics and future prospects. <i>Analytical Methods</i> , 2020, 12, 3974-3997.	2.7	46
3	Identification and Confirmation of Fentanyls 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.	2.8	46
4	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.	2.8	38
5	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	35
6	Quantitative Swab Touch Spray Mass Spectrometry for Oral Fluid Drug Testing. <i>Analytical Chemistry</i> , 2019, 91, 7450-7457.	6.5	35
7	Ion Mobility Mass Spectrometry Using a Dual-Gated 3D Printed Ion Mobility Spectrometer. <i>Analytical Chemistry</i> , 2018, 90, 13265-13272.	6.5	32
8	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, 142-147.	3.6	31
9	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
10	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.	2.8	28
11	Analysis of Residual Explosives by Swab Touch Spray Ionization Mass Spectrometry. <i>Propellants, Explosives, Pyrotechnics</i> , 2018, 43, 1139-1144.	1.6	24
12	Multigenerational Collision-Induced Dissociation for Characterization of Organic Compounds. <i>Analytical Chemistry</i> , 2016, 88, 9572-9581.	6.5	21
13	Mass Spectrometric Detection of Nanoparticle Host-Guest Interactions in Cells. <i>Analytical Chemistry</i> , 2014, 86, 6710-6714.	6.5	19
14	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.	2.3	19
15	Simultaneous Online Monitoring of Multiple Reactions Using a Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , 2017, 89, 6969-6975.	6.5	16
16	BPA-free high-performance sustainable polycarbonates derived from non-estrogenic bio-based phenols. <i>Green Chemistry</i> , 2021, 23, 8016-8029.	9.0	16
17	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</i> , 2021, 146, 3127-3136.	3.5	16
18	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.	8.2	14

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19	Accelerated Chemical Synthesis: Three Ways of Performing the Katritzky Transamination Reaction. <i>Journal of Chemical Education</i> , 2019, 96, 360-365.	2.3	13
20	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.	1.5	12
21	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.	1.5	11
22	Detection and toxicity modeling of anthraquinone dyes and chlorinated side products from a colored smoke pyrotechnic reaction. <i>Chemosphere</i> , 2022, 287, 131845.	8.2	11
23	Accelerated tert-butyloxycarbonyl deprotection of amines in microdroplets produced by a pneumatic spray. <i>International Journal of Mass Spectrometry</i> , 2018, 430, 98-103.	1.5	10
24	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.	2.3	6
25	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
26	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.	6.7	5
27	Accelerated synthesis of energetic precursor cage compounds using confined volume systems. <i>Scientific Reports</i> , 2021, 11, 24093.	3.3	5
28	Solubility of hydrocarbon oils in alcohols ($\alpha^{\circ}\text{C}_{>6}$) and synthesis of difusel carbonate for degreasing. <i>RSC Advances</i> , 2019, 9, 22891-22899.	3.6	4