

# Patrick W Fedick

## 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.

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	Forensic Sampling and Analysis from a Single Substrate: Surface-Enhanced Raman Spectroscopy Followed by Paper Spray Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 10973-10979	7.8	57
27	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> , <b>2017</b> , 28, 2665-2676	3.5	31
26	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
25	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> , <b>2017</b> , 5, 53-57	2.8	28
24	Quantitative Swab Touch Spray Mass Spectrometry for Oral Fluid Drug Testing. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7450-7457	7.8	25
23	Daily bioaccessible levels of selected essential but toxic heavy metals from the consumption of non-dietary food sources. <i>Food and Chemical Toxicology</i> , <b>2013</b> , 62, 142-7	4.7	23
22	Ion Mobility-Mass Spectrometry Using a Dual-Gated 3D Printed Ion Mobility Spectrometer. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 13265-13272	7.8	23
21	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> , <b>2020</b> , 31, 735-741	3.5	22
20	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> , <b>2019</b> , 30, 2144-2151	3.5	19
19	The current role of mass spectrometry in forensics and future prospects. <i>Analytical Methods</i> , <b>2020</b> , 12, 3974-3997	3.2	18
18	Multigenerational Collision-Induced Dissociation for Characterization of Organic Compounds. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9572-9581	7.8	18
17	Analysis of Residual Explosives by Swab Touch Spray Ionization Mass Spectrometry. <i>Propellants, Explosives, Pyrotechnics</i> , <b>2018</b> , 43, 1139-1144	1.7	18
16	Simultaneous Online Monitoring of Multiple Reactions Using a Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 6969-6975	7.8	15
15	Mass spectrometric detection of nanoparticle host-guest interactions in cells. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 6710-4	7.8	13
14	Process Analytical Technology for Online Monitoring of Organic Reactions by Mass Spectrometry and UV-Vis Spectroscopy. <i>Journal of Chemical Education</i> , <b>2019</b> , 96, 124-131	2.4	13
13	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> , <b>2017</b> , 417, 22-28	1.9	10
12	Accelerated Chemical Synthesis: Three Ways of Performing the Katritzky Transamination Reaction. <i>Journal of Chemical Education</i> , <b>2019</b> , 96, 360-365	2.4	10

11	Accelerated tert-butyloxycarbonyl deprotection of amines in microdroplets produced by a pneumatic spray. <i>International Journal of Mass Spectrometry</i> , <b>2018</b> , 430, 98-103	1.9	8
10	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> , <b>2020</b> , 452, 116326	1.9	7
9	Chiral Analysis by Tandem Mass Spectrometry Using the Kinetic Method, by Polarimetry, and by 1H NMR Spectroscopy. <i>Journal of Chemical Education</i> , <b>2017</b> , 94, 1329-1333	2.4	5
8	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> , <b>2021</b> , 272, 129708	8.4	5
7	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
6	Pyrolysis/GC/MS as a Method to Rapidly Profile Pyrotechnic Formulations for Objectionable Gaseous Emissions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 16990-16999	8.3	4
5	Solubility of hydrocarbon oils in alcohols (K) and synthesis of difusel carbonate for degreasing.. <i>RSC Advances</i> , <b>2019</b> , 9, 22891-22899	3.7	2
4	BPA-free high-performance sustainable polycarbonates derived from non-estrogenic bio-based phenols. <i>Green Chemistry</i> ,	10	2
3	Detection and toxicity modeling of anthraquinone dyes and chlorinated side products from a colored smoke pyrotechnic reaction. <i>Chemosphere</i> , <b>2022</b> , 287, 131845	8.4	2
2	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 <sup>1.9</sup>	1.9	2
1	Accelerated synthesis of energetic precursor cage compounds using confined volume systems.. <i>Scientific Reports</i> , <b>2021</b> , 11, 24093	4.9	1