

# Ryan M Bain

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,209  
citations

516215

16  
h-index

525886

27  
g-index

27  
all docs

27  
docs citations

27  
times ranked

947  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Organic Reactions in Microdroplets: Reaction Acceleration Revealed by Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12960-12972.  | 7.2 | 329       |
| 2  | Accelerated Hantzsch electro spray synthesis with temporal control of reaction intermediates. <i>Chemical Science</i> , 2015, 6, 397-401.   | 3.7 | 180       |
| 3  | Accelerated Chemical Reactions and Organic Synthesis in Leidenfrost Droplets. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10478-10482.   | 7.2 | 100       |
| 4  | Mass Spectrometry in the Home and Garden. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 224-230.   | 1.2 | 61        |
| 5  | “On a Droplet” Chemistry: The Cycloaddition of Diethyl Azodicarboxylate and Quadricyclane. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15083-15087.  | 7.2 | 58        |
| 6  | Chemical Synthesis Accelerated by Paper Spray: The Haloform Reaction. <i>Journal of Chemical Education</i> , 2016, 93, 340-344.   | 1.1 | 47        |
| 7  | Accelerated hydrazone formation in charged microdroplets. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1875-1878.   | 0.7 | 42        |
| 8  | Mass Spectrometry in Organic Synthesis: Claisen–Schmidt Base-Catalyzed Condensation and Hammett Correlation of Substituent Effects. <i>Journal of Chemical Education</i> , 2014, 91, 1985-1989.                             | 1.1 | 41        |
| 9  | Microdroplets Accelerate Ring Opening of Epoxides. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1036-1043.  | 1.2 | 38        |
| 10 | Identification of diagnostic metabolic signatures in clear cell renal cell carcinoma using mass spectrometry imaging. <i>International Journal of Cancer</i> , 2020, 147, 256-265.  | 2.3 | 38        |
| 11 | 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. | 1.7 | 35        |
| 12 | Organische Reaktionen in Mikrotröpfchen: Analyse von Reaktionsbeschleunigungen durch Massenspektrometrie. <i>Angewandte Chemie</i> , 2016, 128, 13152-13166.  | 1.6 | 32        |
| 13 | 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.                      | 0.8 | 29        |
| 14 | Fischer Indole Synthesis in the Gas Phase, the Solution Phase, and at the Electro spray Droplet Interface. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1359-1364.                              | 1.2 | 24        |
| 15 | Analysis of Residual Explosives by Swab Touch Spray Ionization Mass Spectrometry. <i>Propellants, Explosives, Pyrotechnics</i> , 2018, 43, 1139-1144.   | 1.0 | 24        |
| 16 | Simultaneous Online Monitoring of Multiple Reactions Using a Miniature Mass Spectrometer. <i>Analytical Chemistry</i> , 2017, 89, 6969-6975.  | 3.2 | 16        |
| 17 | Accelerated Chemical Reactions and Organic Synthesis in Leidenfrost Droplets. <i>Angewandte Chemie</i> , 2016, 128, 10634-10638.  | 1.6 | 15        |
| 18 | Mechanistic Analysis of the C–H Amination Reaction of Menthol by CuBr <sub>2</sub> and Selectfluor. <i>Journal of Organic Chemistry</i> , 2018, 83, 5681-5687.  | 1.7 | 15        |

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|----|---|-----|-----------|
| 19 | On-Line Synthesis and Analysis by Mass Spectrometry. <i>Journal of Chemical Education</i> , 2015, 92, 2146-2151.  | 1.1 | 14        |
| 20 | On-line chiral analysis using the kinetic method. <i>Analyst</i> , 2016, 141, 2441-2446.  | 1.7 | 13        |
| 21 | Online Inductive Electrospray Ionization Mass Spectrometry as a Process Analytical Technology Tool To Monitor the Synthetic Route to Anagliptin. <i>Organic Process Research and Development</i> , 2016, 20, 940-947. | 1.3 | 12        |
| 22 | 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.      | 0.7 | 12        |
| 23 | “On-Droplet” Chemistry: The Cycloaddition of Diethyl Azodicarboxylate and Quadricyclane. <i>Angewandte Chemie</i> , 2017, 129, 15279-15283.   | 1.6 | 12        |
| 24 | Accelerated tert-butyloxycarbonyl deprotection of amines in microdroplets produced by a pneumatic spray. <i>International Journal of Mass Spectrometry</i> , 2018, 430, 98-103.                                       | 0.7 | 10        |
| 25 | Chiral Analysis by Tandem Mass Spectrometry Using the Kinetic Method, by Polarimetry, and by <sup>1</sup> H NMR Spectroscopy. <i>Journal of Chemical Education</i> , 2017, 94, 1329-1333.                             | 1.1 | 6         |
| 26 | Microdroplet Fusion Chemistry for Charge State Reduction of Synthetic Polymers via Bipolar Dual Spray with Anionic Reagents. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1742-1749.      | 1.2 | 5         |