

# Braden C Giordano

## List of Publications by Year in descending order

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45  
papers

1,428  
citations

430874

18  
h-index

315739

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g-index

46  
all docs

46  
docs citations

46  
times ranked

1406  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Microchip-Based Purification of DNA from Biological Samples. <i>Analytical Chemistry</i> , 2003, 75, 1880-1886.  | 6.5 | 331       |
| 2  | On-line sample pre-concentration in microfluidic devices: A review. <i>Analytica Chimica Acta</i> , 2012, 718, 11-24.  | 5.4 | 108       |
| 3  | Microchip-Based Macroporous Silica Sol-Gel Monolith for Efficient Isolation of DNA from Clinical Samples. <i>Analytical Chemistry</i> , 2006, 78, 5704-5710.   | 6.5 | 101       |
| 4  | Towards dynamic coating of glass microchip chambers for amplifying DNA via the polymerase chain reaction. <i>Electrophoresis</i> , 2001, 22, 334-340.  | 2.4 | 97        |
| 5  | Developments toward a complete micro-total analysis system for Duchenne muscular dystrophy diagnosis. <i>Analytica Chimica Acta</i> , 2003, 500, 223-236.  | 5.4 | 75        |
| 6  | Dynamic Labeling during Capillary or Microchip Electrophoresis for Laser-Induced Fluorescence Detection of Protein-SDS Complexes without Pre- or Postcolumn Labeling. <i>Analytical Chemistry</i> , 2001, 73, 4994-4999. | 6.5 | 73        |
| 7  | Aptamer-Based Detection and Quantitative Analysis of Ricin Using Affinity Probe Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2006, 78, 3758-3764.  | 6.5 | 63        |
| 8  | Electroosmotic Flow-Based Pump for Liquid Chromatography on a Planar Microchip. <i>Analytical Chemistry</i> , 2008, 80, 8287-8292.   | 6.5 | 51        |
| 9  | Rapid Fuel Quality Surveillance through Chemometric Modeling of Near-Infrared Spectra. <i>Energy &amp; Fuels</i> , 2009, 23, 1610-1618.  | 5.1 | 51        |
| 10 | Dynamically-coated capillaries allow for capillary electrophoretic resolution of transferrin sialoforms via direct analysis of human serum. <i>Biomedical Applications</i> , 2000, 742, 79-89.                           | 1.7 | 46        |
| 11 | Synthetic Methods Applied to the Detection of Chemical Warfare Nerve Agents. <i>Current Organic Chemistry</i> , 2007, 11, 255-265.   | 1.6 | 39        |
| 12 | Microchip Laser-Induced Fluorescence Detection of Proteins at Submicrogram per Milliliter Levels Mediated by Dynamic Labeling under Pseudonative Conditions. <i>Analytical Chemistry</i> , 2004, 76, 4705-4714.          | 6.5 | 37        |
| 13 | Microchip micellar electrokinetic chromatography separation of alkaloids with UV-absorbance spectral detection. <i>Electrophoresis</i> , 2008, 29, 803-810.  | 2.4 | 35        |
| 14 | Micellar electrokinetic chromatography and capillary electrochromatography of nitroaromatic explosives in seawater. <i>Electrophoresis</i> , 2006, 27, 778-786.  | 2.4 | 33        |
| 15 | Microchip-based CEC of nitroaromatic and nitramine explosives using silica-based sol-gel stationary phases from methyl- and ethyl-trimethoxysilane precursors. <i>Electrophoresis</i> , 2006, 27, 4295-4302.             | 2.4 | 33        |
| 16 | Micelle Stacking in Micellar Electrokinetic Chromatography. <i>Analytical Chemistry</i> , 2007, 79, 6287-6294.   | 6.5 | 32        |
| 17 | Partial Least-Squares Predictions of Nonpetroleum-Derived Fuel Content and Resultant Properties When Blended with Petroleum-Derived Fuels. <i>Energy &amp; Fuels</i> , 2009, 23, 894-902.                                | 5.1 | 27        |
| 18 | Trace Explosives Vapor Generation and Quantitation at Parts per Quadrillion Concentrations. <i>Analytical Chemistry</i> , 2016, 88, 3747-3753.   | 6.5 | 18        |

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|----|---|-----|-----------|
| 19 | Dynamic headspace generation and quantitation of triacetone triperoxide vapor. <i>Journal of Chromatography A</i> , 2014, 1331, 38-43.  | 3.7 | 17        |
| 20 | Volatile Emissions of Ammonium Nitrate under Flowing Conditions. <i>Propellants, Explosives, Pyrotechnics</i> , 2015, 40, 682-687.  | 1.6 | 15        |
| 21 | Combined secondary electrospray and corona discharge ionization (SECDI) for improved detection of explosive vapors using drift tube ion mobility spectrometry. <i>Talanta</i> , 2020, 209, 120544.                          | 5.5 | 15        |
| 22 | Trace explosives sensor testbed (TESTbed). <i>Review of Scientific Instruments</i> , 2017, 88, 034104.  | 1.3 | 14        |
| 23 | Characterization of thermal desorption instrumentation with a direct liquid deposition calibration method for trace 2,4,6-trinitrotoluene quantitation. <i>Journal of Chromatography A</i> , 2012, 1227, 10-18.             | 3.7 | 13        |
| 24 | Direct liquid deposition calibration method for trace cyclotrimethylenetrinitramine using thermal desorption instrumentation. <i>Journal of Chromatography A</i> , 2013, 1282, 178-182.                                     | 3.7 | 13        |
| 25 | Silicon nanowire arrays for the preconcentration and separation of trace explosives vapors. <i>Journal of Chromatography A</i> , 2019, 1597, 54-62.   | 3.7 | 13        |
| 26 | Minimizing thermal degradation in gas chromatographic quantitation of pentaerythritol tetranitrate. <i>Journal of Chromatography A</i> , 2015, 1394, 154-158.   | 3.7 | 12        |
| 27 | Direct injection of seawater for the analysis of nitroaromatic explosives and their degradation products by micellar electrokinetic chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 4487-4493.             | 3.7 | 11        |
| 28 | Continuous flow, explosives vapor generator and sensor chamber. <i>Review of Scientific Instruments</i> , 2014, 85, 054101.   | 1.3 | 8         |
| 29 | Isobutane Made Practical as a Reagent Gas for Chemical Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1789-1795.  | 2.8 | 7         |
| 30 | Method for determining intracapillary solution temperatures: Application to sample zone heating for enhanced fluorescent labeling of proteins. <i>Electrophoresis</i> , 2006, 27, 1355-1362.                                | 2.4 | 6         |
| 31 | Mixed Vapor Generation Device for delivery of homemade explosives vapor plumes. <i>Analytica Chimica Acta</i> , 2018, 1040, 41-48.  | 5.4 | 6         |
| 32 | Trace vapor generator for Explosives and Narcotics (TV-Gen). <i>Review of Scientific Instruments</i> , 2020, 91, 085112.  | 1.3 | 6         |
| 33 | Quantitative Detection of Trace Explosive Vapors by Programmed Temperature Desorption Gas Chromatography-Electron Capture Detector. <i>Journal of Visualized Experiments</i> , 2014, , e51938.                              | 0.3 | 3         |
| 34 | Part per quadrillion quantitation of pentaerythritol tetranitrate vapor using online sampling gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2019, 1603, 407-411.                               | 3.7 | 3         |
| 35 | Copolymer Reversible Addition-Fragmentation Chain Transfer Synthesis of Polyethylene Glycol (PEG) Functionalized with Hydrophobic Acrylates: A Study of Surface and Foam Properties. <i>Langmuir</i> , 2022, 38, 4547-4554. | 3.5 | 3         |
| 36 | Detection of N-phenylpropanamide vapor from fentanyl materials by secondary electrospray ionization-ion mobility spectrometry (SESI-IMS). <i>Talanta Open</i> , 2022, 5, 100114.  | 3.7 | 3         |

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|----|--|-----|-----------|
| 37 | Toward Effective PCR-Based Amplification of DNA on Microfabricated Chips. , 2001, 163, 191-204.  |     | 2         |
| 38 | Lab on a Chip Sensor Platform for Explosives and CBW Toxin Detection. , 2006, , .  |     | 2         |
| 39 | Flow-Through Optical Chromatography in Combination with Confocal Raman Microspectroscopy: A Novel Label-Free Approach To Detect Responses of Live Macrophages to Environmental Stimuli. ACS Omega, 2019, 4, 12938-12947. | 3.5 | 2         |
| 40 | Empirical determination of explosive vapor transport efficiencies. Analyst, The, 2021, 146, 5124-5134.   | 3.5 | 2         |
| 41 | Preconcentration and partial separation of nitroaromatic vapors using a methyltrimethoxysilane-based sol-gel. Journal of Chromatography A, 2017, 1529, 107-112.  | 3.7 | 1         |
| 42 | Micellar Electrokinetic Chromatography. Methods in Molecular Biology, 2019, 1906, 87-97.   | 0.9 | 1         |
| 43 | Silicon nanowire arrays for the preconcentration and Joule heating-based desorption of trace vapors. , 2017, , .   |     | 0         |
| 44 | Non-target analysis of vapor mixtures using silicon nanowire array sampling and thermal desorption. Journal of Chromatography A, 2020, 1618, 460938.   | 3.7 | 0         |
| 45 | Particle generation of low vapor pressure analytes for an on-demand aerosol standard. Aerosol Science and Technology, 0, , 1-12.   | 3.1 | 0         |