

Gary A Eiceman

List of Publications by Year in descending order

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64
papers

3,242
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236925

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docs citations

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times ranked

1970
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | High Kinetic Energy Ion Mobility Spectrometry $\hat{\text{e}}^{\text{c}}$ Mass Spectrometry investigations of four inhalation anaesthetics: isoflurane, enflurane, sevoflurane and desflurane. <i>International Journal of Mass Spectrometry</i> , 2022, 475, 116831. | 1.5 | 11 |
| 2 | Improved selectivity for the determination of trinitrotoluene through reactive stage tandem ion mobility spectrometry and a quantitative measure of source-based suppression of ionization. <i>Talanta</i> , 2021, 226, 121944. | 5.5 | 7 |
| 3 | Field induced displacement reactions with proton bound dimers of organophosphorus compounds in a tandem differential mobility spectrometer. <i>Analyst, The</i> , 2021, 146, 4172-4179. | 3.5 | 1 |
| 4 | Ion density of positive and negative ions at ambient pressure in air at 12 $\hat{\text{e}}^{\text{c}}$ 136 $\hat{\text{A}}^{\text{m}}^{\text{m}}$ from 4.9 kV soft x-ray source. <i>Review of Scientific Instruments</i> , 2021, 92, 054104. | 1.3 | 5 |
| 5 | Parametric Sensitivity in a Generalized Model for Atmospheric Pressure Chemical Ionization Reactions. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2218-2226. | 2.8 | 2 |
| 6 | Successive reactions in field induced fragmentation spectra from tandem ion mobility spectrometry at ambient pressure and their influence on classification by neural networks. <i>International Journal of Mass Spectrometry</i> , 2021, 470, 116701. | 1.5 | 2 |
| 7 | Quantitative response to nitrite from field-induced decomposition of the chloride adduct of RDX by reactive stage tandem ion mobility spectrometry. <i>Analyst, The</i> , 2021, 146, 565-573. | 3.5 | 2 |
| 8 | Field induced fragmentation spectra from reactive stage-tandem differential mobility spectrometry. <i>Analyst, The</i> , 2020, 145, 5314-5324. | 3.5 | 4 |
| 9 | Field Induced Fragmentation (Fif) Spectra of Oxygen Containing Volatile Organic Compounds with Reactive Stage Tandem Ion Mobility Spectrometry and Functional Group Classification by Neural Network Analysis. <i>Analytical Chemistry</i> , 2020, 92, 5862-5870. | 6.5 | 12 |
| 10 | Stable compensation voltages in differential mobility spectra by separating neutral vapors from ions in sample flow. <i>International Journal for Ion Mobility Spectrometry</i> , 2020, 23, 9-17. | 1.4 | 1 |
| 11 | Ion mobility spectrometry. , 2020, , 171-183. | | 1 |
| 12 | Tandem ion mobility spectrometry at ambient pressure and field decomposition of mobility selected ions of explosives and interferences. <i>Analyst, The</i> , 2019, 144, 2052-2061. | 3.5 | 27 |
| 13 | Differential Mobility Spectrometry of Ketones in Air at Extreme Levels of Moisture. <i>Scientific Reports</i> , 2019, 9, 5593. | 3.3 | 9 |
| 14 | Reactive Tandem Ion Mobility Spectrometry with Electric Field Fragmentation of Alcohols at Ambient Pressure. <i>Analytical Chemistry</i> , 2019, 91, 6281-6287. | 6.5 | 9 |
| 15 | Quantitative response in ion mobility spectrometry with atmospheric pressure chemical ionization in positive polarity as a function of moisture and temperature. <i>Analytica Chimica Acta</i> , 2019, 1092, 144-150. | 5.4 | 10 |
| 16 | Ion Mobility Spectrometer-Fragmenter-Ion Mobility Spectrometer Analogue of a Triple Quadrupole for High-Resolution Ion Analysis at Atmospheric Pressure. <i>Analytical Chemistry</i> , 2018, 90, 6885-6892. | 6.5 | 15 |
| 17 | Stability of proton-bound clusters of alkyl alcohols, aldehydes and ketones in Ion Mobility Spectrometry. <i>Talanta</i> , 2018, 185, 299-308. | 5.5 | 23 |
| 18 | Fragmentation, auto-modification and post ionisation proton bound dimer ion formation: the differential mobility spectrometry of low molecular weight alcohols. <i>Analyst, The</i> , 2016, 141, 4587-4598. | 3.5 | 9 |

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|----|--|-----|-----------|
| 19 | Classification of biodiesel and fuel blends using gas chromatography- μ differential mobility spectrometry with cluster analysis and isolation of C18:3 me by dual ion filtering. <i>Talanta</i> , 2016, 155, 278-288. | 5.5 | 10 |
| 20 | Dissociation Enthalpies of Chloride Adducts of Nitrate and Nitrite Explosives Determined by Ion Mobility Spectrometry. <i>Journal of Physical Chemistry A</i> , 2016, 120, 690-698. | 2.5 | 16 |
| 21 | Ion mobility spectrometry of solid surfaces for pharmaceutical residues using electrospray laser desorption and ionization. <i>International Journal for Ion Mobility Spectrometry</i> , 2015, 18, 87-93. | 1.4 | 1 |
| 22 | Gas chromatography with tandem differential mobility spectrometry of fatty acid alkyl esters and the selective detection of methyl linolenate in biodiesels by dual-stage ion filtering. <i>Journal of Chromatography A</i> , 2015, 1421, 162-170. | 3.7 | 4 |
| 23 | Patterns of ion distributions from a cylindrical ^{63}Ni foil in an ion mobility spectrometer. <i>International Journal for Ion Mobility Spectrometry</i> , 2014, 17, 139-145. | 1.4 | 7 |
| 24 | Decomposition Kinetics of Nitroglycerine- Cl^+ (Cl^+) in Air at Ambient Pressure with a Tandem Ion Mobility Spectrometer. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2683-2692. | 2.5 | 22 |
| 25 | Tandem Differential Mobility Spectrometry in Purified Air for High-Speed Selective Vapor Detection. <i>Analytical Chemistry</i> , 2014, 86, 2395-2402. | 6.5 | 11 |
| 26 | Tandem differential mobility spectrometry with chemical modification of ions. <i>International Journal for Ion Mobility Spectrometry</i> , 2012, 15, 123-130. | 1.4 | 6 |
| 27 | Recent Developments in Ion Mobility Spectrometry. <i>Applied Spectroscopy Reviews</i> , 2011, 46, 472-521. | 6.7 | 152 |
| 28 | Rapid detection of propiconazole and tebuconazole in wood by solid phase desorption: ion mobility spectrometry. <i>Wood Science and Technology</i> , 2011, 45, 205-214. | 3.2 | 6 |
| 29 | Paper spray ionization with ion mobility spectrometry at ambient pressure. <i>International Journal for Ion Mobility Spectrometry</i> , 2011, 14, 51-59. | 1.4 | 14 |
| 30 | A determination of the effective temperatures for the dissociation of the proton bound dimer of dimethyl methylphosphonate in a planar differential mobility spectrometer. <i>International Journal for Ion Mobility Spectrometry</i> , 2010, 13, 25-36. | 1.4 | 14 |
| 31 | Fast gas chromatography-differential mobility spectrometry of explosives from TATP to Tetryl without gas atmosphere modifiers. <i>International Journal for Ion Mobility Spectrometry</i> , 2010, 13, 157-165. | 1.4 | 14 |
| 32 | Limits of separation of a multi-capillary column with mixtures of volatile organic compounds for a flame ionization detector and a differential mobility detector. <i>Journal of Chromatography A</i> , 2009, 1216, 985-993. | 3.7 | 13 |
| 33 | Planar Drift Tube for Ion Mobility Spectrometry. <i>Instrumentation Science and Technology</i> , 2007, 35, 365-383. | 1.8 | 12 |
| 34 | Ion Mobility Spectrometry of Gas-Phase Ions from Laser Ablation of Solids in Air at Ambient Pressure. <i>Applied Spectroscopy</i> , 2007, 61, 1076-1083. | 2.2 | 7 |
| 35 | Mobility resolution and mass analysis of ions from ammonia and hydrazine complexes with ketones formed in air at ambient pressure. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 940-951. | 2.8 | 33 |
| 36 | Ion Mobility Spectrometry: Principles and Applications. <i>Applied Spectroscopy Reviews</i> , 2006, 41, 323-375. | 6.7 | 324 |

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|----|---|-----|-----------|
| 37 | Pressure Effects in Differential Mobility Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 7697-7706. | 6.5 | 95 |
| 38 | Gas Chromatography. <i>Analytical Chemistry</i> , 2006, 78, 3985-3996. | 6.5 | 36 |
| 39 | Pattern recognition analysis of differential mobility spectra with classification by chemical family. <i>Analytica Chimica Acta</i> , 2006, 579, 1-10. | 5.4 | 41 |
| 40 | Separation of Ions from Explosives in Differential Mobility Spectrometry by Vapor-Modified Drift Gas. <i>Analytical Chemistry</i> , 2004, 76, 4937-4944. | 6.5 | 178 |
| 41 | Gas Chromatography. <i>Analytical Chemistry</i> , 2004, 76, 3387-3394. | 6.5 | 24 |
| 42 | Peer Reviewed: Ion Mobility Spectrometers in National Defense. <i>Analytical Chemistry</i> , 2004, 76, 390 A-397 A. | 6.5 | 292 |
| 43 | Differential mobility spectrometry of chlorocarbons with a micro-fabricated drift tube. <i>Analyst, The</i> , 2004, 129, 297. | 3.5 | 59 |
| 44 | Discrimination of combustion fuel sources using gas chromatography-planar field asymmetric-waveform ion mobility spectrometry. <i>Journal of Separation Science</i> , 2003, 26, 585-593. | 2.5 | 20 |
| 45 | Effect of Moisture on the Field Dependence of Mobility for Gas-Phase Ions of Organophosphorus Compounds at Atmospheric Pressure with Field Asymmetric Ion Mobility Spectrometry. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3648-3654. | 2.5 | 121 |
| 46 | Gas Chromatography. <i>Analytical Chemistry</i> , 2002, 74, 2771-2780. | 6.5 | 32 |
| 47 | Field Dependence of Mobilities for Gas-Phase-Protonated Monomers and Proton-Bound Dimers of Ketones by Planar Field Asymmetric Waveform Ion Mobility Spectrometer (PFAIMS). <i>Journal of Physical Chemistry A</i> , 2002, 106, 5437-5444. | 2.5 | 114 |
| 48 | Micro-machined planar field asymmetric ion mobility spectrometer as a gas chromatographic detector. <i>Analyst, The</i> , 2002, 127, 466-471. | 3.5 | 51 |
| 49 | High Performance Micromachined Planar Field-Asymmetric Ion Mobility Spectrometers for Chemical and Biological Compound Detection. <i>Materials Research Society Symposia Proceedings</i> , 2002, 729, 411. | 0.1 | 4 |
| 50 | Analysis of a drift tube at ambient pressure: Models and precise measurements in ion mobility spectrometry. <i>Review of Scientific Instruments</i> , 2001, 72, 3610-3621. | 1.3 | 63 |
| 51 | A critical review of ion mobility spectrometry for the detection of explosives and explosive related compounds. <i>Talanta</i> , 2001, 54, 515-529. | 5.5 | 676 |
| 52 | Miniature radio-frequency mobility analyzer as a gas chromatographic detector for oxygen-containing volatile organic compounds, pheromones and other insect attractants. <i>Journal of Chromatography A</i> , 2001, 917, 205-217. | 3.7 | 67 |
| 53 | Monitoring volatile organic compounds in ambient air inside and outside buildings with the use of a radio-frequency-based ion-mobility analyzer with a micromachined drift tube. <i>Field Analytical Chemistry and Technology</i> , 2000, 4, 297-308. | 0.8 | 34 |
| 54 | Neural Network Recognition of Chemical Class Information in Mobility Spectra Obtained at High Temperatures. <i>Analytical Chemistry</i> , 2000, 72, 1192-1198. | 6.5 | 26 |

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|----|---|-----|-----------|
| 55 | Proton-bound cluster ions in ion mobility spectrometry. <i>International Journal of Mass Spectrometry</i> , 1999, 193, 57-68. | 1.5 | 101 |
| 56 | Atmospheric pressure chemical ionization of fluorinated phenols in atmospheric pressure chemical ionization mass spectrometry, tandem mass spectrometry, and ion mobility spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 1157-1165. | 2.8 | 26 |
| 57 | Classification of ion mobility spectra by functional groups using neural networks. <i>Analytica Chimica Acta</i> , 1999, 394, 121-133. | 5.4 | 32 |
| 58 | Gas Chromatography. <i>Analytical Chemistry</i> , 1998, 70, 321-340. | 6.5 | 39 |
| 59 | Exploration of a Multicapillary Column for Use in Elevated Speed Gas Chromatography. <i>International Journal of Environmental Analytical Chemistry</i> , 1997, 66, 225-239. | 3.3 | 39 |
| 60 | Quantitative calibration of vapor levels of TNT, RDX, and PETN using a diffusion generator with gravimetry and ion mobility spectrometry. <i>Talanta</i> , 1997, 45, 57-74. | 5.5 | 68 |
| 61 | Detection of salmonella typhimurium by hand-held ion mobility spectrometer: A quantitative assessment of response characteristics. <i>Field Analytical Chemistry and Technology</i> , 1997, 1, 213-226. | 0.8 | 15 |
| 62 | Enhanced selectivity in ion mobility spectrometry analysis of complex mixtures by alternate reagent gas chemistry. <i>Analytica Chimica Acta</i> , 1995, 306, 21-33. | 5.4 | 62 |
| 63 | Monitoring Indoor Ambient Atmospheres for Volatile Organic Compounds Using an Ion Mobility Analyzer Array with Selective Chemical Ionization. <i>International Journal of Environmental Analytical Chemistry</i> , 1995, 61, 81-94. | 3.3 | 24 |
| 64 | Ion mobility spectrometry of hydrazine, monomethylhydrazine, and ammonia in air with 5-nonanone reagent gas. <i>Analytical Chemistry</i> , 1993, 65, 1696-1702. | 6.5 | 62 |