

Gary A Eiceman

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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.

64
papers

2,736
citations

25
h-index

52
g-index

66
ext. papers

2,991
ext. citations

4.5
avg, IF

4.88
L-index

#	Paper	IF	Citations
64	A critical review of ion mobility spectrometry for the detection of explosives and explosive related compounds. <i>Talanta</i> , 2001 , 54, 515-29	6.2	579
63	Ion Mobility Spectrometry: Principles and Applications. <i>Applied Spectroscopy Reviews</i> , 2006 , 41, 323-375	4.5	261
62	Ion mobility spectrometers in national defence. <i>Analytical Chemistry</i> , 2004 , 76, 390A-397A	7.8	253
61	Separation of ions from explosives in differential mobility spectrometry by vapor-modified drift gas. <i>Analytical Chemistry</i> , 2004 , 76, 4937-44	7.8	171
60	Recent Developments in Ion Mobility Spectrometry. <i>Applied Spectroscopy Reviews</i> , 2011 , 46, 472-521	4.5	134
59	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, 3648-54	2.8	108
58	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, 5437-44	2.8	92
57	Pressure effects in differential mobility spectrometry. <i>Analytical Chemistry</i> , 2006 , 78, 7697-706	7.8	89
56	Proton-bound cluster ions in ion mobility spectrometry. <i>International Journal of Mass Spectrometry</i> , 1999 , 193, 57-68	1.9	85
55	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	6.2	58
54	Enhanced selectivity in ion mobility spectrometry analysis of complex mixtures by alternate reagent gas chemistry. <i>Analytica Chimica Acta</i> , 1995 , 306, 21-33	6.6	54
53	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	1.7	51
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, 205-17	4.5	50
51	Ion mobility spectrometry of hydrazine, monomethylhydrazine, and ammonia in air with 5-nonanone reagent gas. <i>Analytical Chemistry</i> , 1993 , 65, 1696-702	7.8	50
50	Differential mobility spectrometry of chlorocarbons with a micro-fabricated drift tube. <i>Analyst, The</i> , 2004 , 129, 297-304	5	49
49	Micro-machined planar field asymmetric ion mobility spectrometer as a gas chromatographic detector. <i>Analyst, The</i> , 2002 , 127, 466-71	5	42
48	Pattern recognition analysis of differential mobility spectra with classification by chemical family. <i>Analytica Chimica Acta</i> , 2006 , 579, 1-10	6.6	39

47	Exploration of a Multicapillary Column for Use in Elevated Speed Gas Chromatography. <i>International Journal of Environmental Analytical Chemistry</i> , 1997 , 66, 225-239	1.8	35
46	Gas chromatography. <i>Analytical Chemistry</i> , 2006 , 78, 3985-96	7.8	35
45	Gas chromatography. <i>Analytical Chemistry</i> , 1998 , 70, 321R-339R	7.8	29
44	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		28
43	Gas chromatography. <i>Analytical Chemistry</i> , 2002 , 74, 2771-80	7.8	27
42	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, 940-515	3.5	26
41	Classification of ion mobility spectra by functional groups using neural networks. <i>Analytica Chimica Acta</i> , 1999 , 394, 121-33	6.6	26
40	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, 1157-65	3.5	25
39	Decomposition kinetics of nitroglycerine[Cl(-)](g) in air at ambient pressure with a tandem ion mobility spectrometer. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 2683-92	2.8	21
38	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	5	20
37	Gas chromatography. <i>Analytical Chemistry</i> , 2004 , 76, 3387-94	7.8	19
36	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	1.8	19
35	Stability of proton-bound clusters of alkyl alcohols, aldehydes and ketones in Ion Mobility Spectrometry. <i>Talanta</i> , 2018 , 185, 299-308	6.2	17
34	Neural network recognition of chemical class information in mobility spectra obtained at high temperatures. <i>Analytical Chemistry</i> , 2000 , 72, 1192-8	7.8	17
33	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	3.4	16
32	Dissociation Enthalpies of Chloride Adducts of Nitrate and Nitrite Explosives Determined by Ion Mobility Spectrometry. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 690-8	2.8	15
31	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	7.8	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	1.5	14

29	Paper spray ionization with ion mobility spectrometry at ambient pressure. <i>International Journal for Ion Mobility Spectrometry</i> , 2011 , 14, 51-59	1.5	12
28	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, 985-93	4.5	12
27	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		12
26	Tandem differential mobility spectrometry in purified air for high-speed selective vapor detection. <i>Analytical Chemistry</i> , 2014 , 86, 2395-402	7.8	11
25	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 ^{1.5}		11
24	Classification of biodiesel and fuel blends using gas chromatography - differential mobility spectrometry with cluster analysis and isolation of C18:3 me by dual ion filtering. <i>Talanta</i> , 2016 , 155, 278-88	6.2	10
23	Planar Drift Tube for Ion Mobility Spectrometry. <i>Instrumentation Science and Technology</i> , 2007 , 35, 365-383		10
22	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	7.8	9
21	Reactive Tandem Ion Mobility Spectrometry with Electric Field Fragmentation of Alcohols at Ambient Pressure. <i>Analytical Chemistry</i> , 2019 , 91, 6281-6287	7.8	8
20	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	1.5	7
19	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, 4587-98	5	7
18	Ion mobility spectrometry of gas-phase ions from laser ablation of solids in air at ambient pressure. <i>Applied Spectroscopy</i> , 2007 , 61, 1076-83	3.1	6
17	Tandem differential mobility spectrometry with chemical modification of ions. <i>International Journal for Ion Mobility Spectrometry</i> , 2012 , 15, 123-130	1.5	5
16	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 ^{6.6}		5
15	Differential Mobility Spectrometry of Ketones in Air at Extreme Levels of Moisture. <i>Scientific Reports</i> , 2019 , 9, 5593	4.9	4
14	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, 162-70	4.5	4
13	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	2.5	4
12	Field induced fragmentation spectra from reactive stage-tandem differential mobility spectrometry. <i>Analyst, The</i> , 2020 , 145, 5314-5324	5	3

11	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		3
10	Ion density of positive and negative ions at ambient pressure in air at 12-136µm from 4.9 kV soft x-ray source. <i>Review of Scientific Instruments</i> , 2021 , 92, 054104	1.7	2
9	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	1.5	1
8	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	1.5	1
7	Ion mobility spectrometry 2020 , 171-183		1
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	1.9	1
5	High Kinetic Energy Ion Mobility Spectrometry [Mass Spectrometry investigations of four inhalation anaesthetics: isoflurane, enflurane, sevoflurane and desflurane. <i>International Journal of Mass Spectrometry</i> , 2022 , 475, 116831	1.9	1
4	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	6.2	0
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	5	0
2	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	3.5	
1	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	5	