

Maria Allers

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

502
citations

933264

10
h-index

677027

22
g-index

23
all docs

23
docs citations

23
times ranked

395
citing authors

#	ARTICLE	IF	CITATIONS
1	A compact high resolution ion mobility spectrometer for fast trace gas analysis. <i>Analyst</i> , The, 2013, 138, 5200.	1.7	96
2	High Kinetic Energy Ion Mobility Spectrometer: Quantitative Analysis of Gas Mixtures with Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 7023-7032.	3.2	70
3	Ultra-high-resolution ion mobility spectrometryâ€™ current instrumentation, limitations, and future developments. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6229-6246.	1.9	69
4	Monitoring of selected skin- and breath-borne volatile organic compounds emitted from the human body using gas chromatography ion mobility spectrometry (GC-IMS). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1076, 29-34.	1.2	67
5	Quantitative Detection of Benzene in Toluene- and Xylene-Rich Atmospheres Using High-Kinetic-Energy Ion Mobility Spectrometry (IMS). <i>Analytical Chemistry</i> , 2014, 86, 11841-11846.	3.2	45
6	Analyzing Positive Reactant Ions in High Kinetic Energy Ion Mobility Spectrometry (HiKE-IMS) by HiKE-IMSâ€™MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 812-821.	1.2	24
7	Positive Reactant Ion Formation in High Kinetic Energy Ion Mobility Spectrometry (HiKE-IMS). <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1291-1301.	1.2	17
8	Negative Reactant Ion Formation in High Kinetic Energy Ion Mobility Spectrometry (HiKE-IMS). <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1861-1874.	1.2	12
9	Field-Dependent Reduced Ion Mobilities of Positive and Negative Ions in Air and Nitrogen in High Kinetic Energy Ion Mobility Spectrometry (HiKE-IMS). <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2191-2201.	1.2	12
10	High Kinetic Energy Ion Mobility Spectrometry (HiKE-IMS) at 40 mbar. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1536-1543.	1.2	12
11	Acetone and perdeuterated acetone in UV-IMS. <i>International Journal for Ion Mobility Spectrometry</i> , 2018, 21, 49-53.	1.4	11
12	Detection of Volatile Toxic Industrial Chemicals with Classical Ion Mobility Spectrometry and High-Kinetic Energy Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 1211-1220.	3.2	10
13	Coupling of a High-Resolution Ambient Pressure Drift Tube Ion Mobility Spectrometer to a Commercial Time-of-flight Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 2208-2217.	1.2	9
14	Ion Mobility Shift of Isotopologues in a High Kinetic Energy Ion Mobility Spectrometer (HiKE-IMS) at Elevated Effective Temperatures. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2093-2101.	1.2	9
15	Formation of positive product ions from substances with low proton affinity in high kinetic energy ion mobility spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8998.	0.7	8
16	Influence of Reduced Field Strength on Product Ion Formation in High Kinetic Energy Ion Mobility Spectrometry (HiKE-IMS). <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1810-1820.	1.2	7
17	A Simple Printed Circuit Boardâ€™Based Ion Funnel for Focusing Low m/z Ratio Ions with High Kinetic Energies at Elevated Pressure. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1813-1823.	1.2	6
18	Printed circuit board based segmented quadrupole ion guide. <i>International Journal of Mass Spectrometry</i> , 2019, 443, 32-40.	0.7	5

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19	Differential Inductive Sensor for Continuous Non-Invasive Cell Growth Monitoring in Disposable Bioreactors. Proceedings (mdpi), 2017, 1, 518.	0.2	4
20	Simulation of Cluster Dynamics of Proton-Bound Water Clusters in a High Kinetic Energy Ion-Mobility Spectrometer. Journal of the American Society for Mass Spectrometry, 2021, 32, 2436-2450.	1.2	4
21	Transient simulation of moving ion clouds in time-of-flight ion mobility spectrometers operating with DC and AC fields. International Journal for Ion Mobility Spectrometry, 2015, 18, 107-115.	1.4	3
22	Detection of Mercury Vapor in Air by Differential Heat Dissipation Measurements. Proceedings (mdpi), 2017, 1, 440.	0.2	1
23	A simple centripetal force model for explaining the focusing effect of ion funnels. International Journal of Mass Spectrometry, 2018, 432, 14-17.	0.7	1