

Herbert H Hill Jr

List of Publications by Year in descending order

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31
papers

2,703
citations

394421

19
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

2414
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion mobility mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1-22.	1.6	1,014
2	Ion Mobility Spectrometry in Analytical Chemistry. <i>Critical Reviews in Analytical Chemistry</i> , 1990, 21, 321-355.	3.5	282
3	Analysis of explosives using electrospray ionization/ion mobility spectrometry (ESI/IMS). <i>Talanta</i> , 2000, 50, 1291-1298.	5.5	165
4	Metabolic profiling of human blood by high-resolution ion mobility mass spectrometry (IM-MS). <i>International Journal of Mass Spectrometry</i> , 2010, 298, 78-90.	1.5	146
5	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry of lipids: ionization and prompt fragmentation patterns. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 87-96.	1.5	122
6	Evaluation of ultrahigh resolution ion mobility spectrometry as an analytical separation device in chromatographic terms. <i>Journal of Separation Science</i> , 2000, 12, 172-178.	1.0	119
7	Electrospray ionization with ambient pressure ion mobility separation and mass analysis by orthogonal time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 2221-2226.	1.5	66
8	Analytical merit of electrospray ion mobility spectrometry as a chromatographic detector. <i>Journal of Separation Science</i> , 1994, 6, 515-524.	1.0	51
9	Design and performance of an atmospheric pressure ion mobility Fourier transform ion cyclotron resonance mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 1115-1122.	1.5	51
10	Influence of cation adduction on the separation characteristics of flavonoid diglycoside isomers using dual gate-ion mobility-quadrupole ion trap mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2006, 41, 339-351.	1.6	49
11	Atmospheric pressure matrix-assisted laser desorption/ionization with analysis by ion mobility time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 882-888.	1.5	45
12	Analysis of plant phosphatidylcholines by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 935-940.	1.5	41
13	Buffer gas modifiers effect resolution in ion mobility spectrometry through selective ion molecule clustering reactions. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2211-2223.	1.5	39
14	Ion mobility mass spectrometry analysis of isomeric disaccharide precursor, product and cluster ions. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 2699-2709.	1.5	34
15	Ion mobility detection following liquid chromatographic separation. <i>Journal of Separation Science</i> , 1990, 2, 188-192.	1.0	33
16	Evaluation of gas chromatography coupled with ion mobility spectrometry for monitoring vinyl chloride and other chlorinated and aromatic compounds in air samples. <i>Journal of High Resolution Chromatography</i> , 1996, 19, 301-312.	1.4	30
17	An Assessment of Computational Methods for Obtaining Structural Information of Moderately Flexible Biomolecules from Ion Mobility Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 792-805.	2.8	29
18	E/N effects on K ₀ values revealed by high precision measurements under low field conditions. <i>Review of Scientific Instruments</i> , 2016, 87, 075104.	1.3	24

#	ARTICLE	IF	CITATIONS
19	High Accuracy Ion Mobility Spectrometry for Instrument Calibration. <i>Analytical Chemistry</i> , 2018, 90, 4578-4584.	6.5	21
20	Electrospray ionization-ion mobility spectrometry as a field monitoring method for the detection of atrazine in natural water. <i>Field Analytical Chemistry and Technology</i> , 1998, 2, 155-161.	0.8	17
21	Multidimensional Separation of Natural Products Using Liquid Chromatography Coupled to Hadamard Transform Ion Mobility Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 810-821.	2.8	17
22	Two-dimensional separations with electrospray ionization ambient pressure high-resolution ion mobility spectrometry/quadrupole mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 670-675.	1.5	11
23	Fundamentals of detection after supercritical fluid chromatography. <i>Journal of Separation Science</i> , 1990, 2, 114-119.	1.0	10
24	Detection limits of an ion mobility detector after capillary gas chromatography. <i>Journal of Separation Science</i> , 1990, 2, 138-145.	1.0	10
25	Electron capture ion mobility spectrometry for the selective detection of chlorinated and brominated species after capillary gas chromatography. <i>Journal of High Resolution Chromatography</i> , 1990, 13, 628-632.	1.4	9
26	Liquid-sheath-flow electrospray ionization feasibility study of direct water analysis with the use of high-resolution ion-mobility spectrometry. <i>Field Analytical Chemistry and Technology</i> , 2001, 5, 91-96.	0.8	8
27	Improved supercritical fluid chromatography-ion mobility spectrometry interface. <i>Journal of Separation Science</i> , 1999, 11, 251-257.	1.0	4
28	Simulating, Predicting, and Minimizing False Peaks for Hadamard Transform Ion Mobility Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1957-1964.	2.8	4
29	Comment on "Gas-Phase Chiral Separations by Ion Mobility Spectrometry". <i>Analytical Chemistry</i> , 2022, 94, 3020-3021.	6.5	4
30	Evaluation of ultrahigh resolution ion mobility spectrometry as an analytical separation device in chromatographic terms * Presented at the Twenty-first International Symposium on Capillary Chromatography and Electrophoresis, Park City, Utah, USA, June 20-24, 1999.. <i>Journal of Separation Science</i> , 2000, 12, 172.	1.0	1
31	Introduction to IJIMS Special Issue. <i>International Journal for Ion Mobility Spectrometry</i> , 2011, 14, 49-49.	1.4	0