

Helko Borsdorf

List of Publications by Year in descending order

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56
papers

1,526
citations

331538

21
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315616

38
g-index

57
all docs

57
docs citations

57
times ranked

1415
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion Mobility Spectrometry: Principles and Applications. Applied Spectroscopy Reviews, 2006, 41, 323-375.	3.4	324
2	Recent Developments in Ion Mobility Spectrometry. Applied Spectroscopy Reviews, 2011, 46, 472-521.	3.4	152
3	A new strategy for synthesis of an in-tube molecularly imprinted polymer-solid phase microextraction device: Selective off-line extraction of 4-nitrophenol as an example of priority pollutants from environmental water samples. Analytica Chimica Acta, 2013, 798, 48-55.	2.6	78
4	Corona discharge ion mobility spectrometry of aliphatic and aromatic hydrocarbons. Analytica Chimica Acta, 2000, 403, 235-242.	2.6	74
5	Atmospheric pressure chemical ionization studies of non-polar isomeric hydrocarbons using ion mobility spectrometry and mass spectrometry with different ionization techniques. Journal of the American Society for Mass Spectrometry, 2002, 13, 1078-1087.	1.2	55
6	Selective mixed-bed solid phase extraction of atrazine herbicide from environmental water samples using molecularly imprinted polymer. Talanta, 2014, 129, 132-138.	2.9	51
7	Aerated treatment pond technology with biofilm promoting mats for the bioremediation of benzene, MTBE and ammonium contaminated groundwater. Water Research, 2010, 44, 1785-1796.	5.3	46
8	Gas-phase ion mobility studies of constitutional isomeric hydrocarbons using different ionization techniques. International Journal of Mass Spectrometry, 2001, 208, 67-72.	0.7	41
9	Comparative evaluation of pilot scale horizontal subsurface-flow constructed wetlands and plant root mats for treating groundwater contaminated with benzene and MTBE. Journal of Hazardous Materials, 2012, 209-210, 510-515.	6.5	39
10	Accuracy of Ion Mobility Measurements Dependent on the Influence of Humidity. Analytical Chemistry, 2014, 86, 5069-5076.	3.2	38
11	Rapid on-site determination of chlorobenzene in water samples using ion mobility spectrometry. Analytica Chimica Acta, 2001, 440, 63-70.	2.6	37
12	Continuous on-line determination of methyl tert-butyl ether in water samples using ion mobility spectrometry. Journal of Chromatography A, 2005, 1072, 45-54.	1.8	36
13	Development and application of dynamic air chambers for measurement of volatilization fluxes of benzene and MTBE from constructed wetlands planted with common reed. Chemosphere, 2010, 79, 162-168.	4.2	36
14	Performance Evaluation Using a Three Compartment Mass Balance for the Removal of Volatile Organic Compounds in Pilot Scale Constructed Wetlands. Environmental Science & Technology, 2011, 45, 8467-8474.	4.6	36
15	Multi tracer test for the implementation of enhanced in-situ bioremediation at a BTEX-contaminated megasite. Journal of Contaminant Hydrology, 2006, 87, 211-236.	1.6	30
16	The effect of humidity on gas sensing with ion mobility spectrometry. Sensors and Actuators B: Chemical, 2015, 218, 184-190.	4.0	30
17	Temperature dependence of ion mobility signals of halogenated compounds. Talanta, 2012, 101, 17-23.	2.9	25
18	Time-of-flight ion mobility spectrometry and differential mobility spectrometry: A comparative study of their efficiency in the analysis of halogenated compounds. Talanta, 2007, 71, 1804-1812.	2.9	24

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19	Atmospheric pressure ionization and gas phase ion mobility studies of isomeric dihalogenated benzenes using different ionization techniques. <i>International Journal of Mass Spectrometry</i> , 2004, 232, 117-126.	0.7	23
20	Response of halogenated compounds in ion mobility spectrometry depending on their structural features. <i>Talanta</i> , 2011, 83, 815-822.	2.9	23
21	Molecularly Imprinted Polymer-Based Sensors for Priority Pollutants. <i>Sensors</i> , 2021, 21, 2406.	2.1	23
22	Atmospheric-pressure ionization studies and field dependence of ion mobilities of isomeric hydrocarbons using a miniature differential mobility spectrometer. <i>Analytica Chimica Acta</i> , 2006, 575, 76-88.	2.6	22
23	Gas phase studies on terpenes by ion mobility spectrometry using different atmospheric pressure chemical ionization techniques. <i>International Journal of Mass Spectrometry</i> , 2005, 246, 19-28.	0.7	21
24	A comparison of the ion chemistry for mono-substituted toluenes and anilines by three methods of atmospheric pressure ionization with ion mobility spectrometry. <i>Talanta</i> , 2009, 78, 1464-1475.	2.9	20
25	Humidity Effect on the Drift Times of the Reactant Ions in Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 15932-15940.	3.2	20
26	Molecularly Imprinted Polymer Materials as Selective Recognition Sorbents for Explosives: A Review. <i>Polymers</i> , 2019, 11, 888.	2.0	19
27	Ground-based Remote Sensing with Open-path Fourier-transform Infrared (OP-FTIR) Spectroscopy for Large-scale Monitoring of Greenhouse Gases. <i>Energy Procedia</i> , 2013, 37, 4276-4282.	1.8	16
28	Ion transfer from an atmospheric pressure ion funnel into a mass spectrometer with different interface options: Simulation-based optimization of ion transmission efficiency. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 372-378.	0.7	14
29	Capability of headspace based sample preparation methods for the determination of methyl tert-butyl ether and benzene in reed (<i>phragmites australis</i>) from constructed wetlands. <i>Chemosphere</i> , 2010, 80, 396-403.	4.2	13
30	Ion mobility spectrometry of laser desorbed pesticides from fruit surfaces. <i>International Journal for Ion Mobility Spectrometry</i> , 2012, 15, 55-62.	1.4	13
31	Negative electrospray ionization ion mobility spectrometry combined with paper-based molecular imprinted polymer disks: A novel approach for rapid target screening of trace organic compounds in water samples. <i>Talanta</i> , 2018, 190, 47-54.	2.9	13
32	Effect of dopants on the analysis of pesticides by means of differential mobility spectrometry with atmospheric pressure photoionization. <i>International Journal for Ion Mobility Spectrometry</i> , 2010, 13, 47-54.	1.4	12
33	Ion-exchange molecularly imprinted polymer for the extraction of negatively charged acesulfame from wastewater samples. <i>Journal of Chromatography A</i> , 2015, 1411, 23-33.	1.8	12
34	A new strategy for accelerated extraction of target compounds using molecularly imprinted polymer particles embedded in a paper-based disk. <i>Journal of Molecular Recognition</i> , 2018, 31, e2629.	1.1	12
35	Rapid screening of pesticides from fruit surfaces: preliminary examinations using a laser desorption-differential mobility spectrometry coupling. <i>International Journal for Ion Mobility Spectrometry</i> , 2009, 12, 15-22.	1.4	10
36	Comparative study to evaluate three ground-based optical remote sensing techniques under field conditions by a gas tracer experiment. <i>Environmental Earth Sciences</i> , 2014, 72, 1435-1441.	1.3	10

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37	Ion mobility spectra of cyclic and aliphatic hydrocarbons with different substituents. International Journal for Ion Mobility Spectrometry, 2009, 12, 39-46.	1.4	8
38	Sprayed liquid-gas extraction of semi-volatile organophosphate malathion from air and contaminated surfaces. Analytical Methods, 2018, 10, 2503-2511.	1.3	8
39	A solid-phase microextraction method for the in vivo sampling of MTBE in common reed (Phragmites) Tj ETQq1 1 0,784314 rgBT /Ove	1.3	7
40	Electric field dependence of ion mobilities of aromatic compounds with different ionic mass and different functional groups. International Journal for Ion Mobility Spectrometry, 2010, 13, 103-108.	1.4	6
41	The correlation of odors in the environment with ion mobility spectra patterns. International Journal for Ion Mobility Spectrometry, 2015, 18, 1-7.	1.4	6
42	Rational Design of Molecularly Imprinted Polymers Using Quaternary Ammonium Cations for Glyphosate Detection. Sensors, 2021, 21, 296.	2.1	6
43	Which parameters influence the quantitative determination of halogenated substances? A summary of systematic investigations. International Journal for Ion Mobility Spectrometry, 2015, 18, 33-39.	1.4	5
44	Application of Low-Cost Electrochemical Sensors to Aqueous Systems to Allow Automated Determination of NH ₃ and H ₂ S in Water. Sensors, 2020, 20, 2814.	2.1	5
45	In situ determination of organic compounds in liquid samples using a combined UV-Vis/fluorescence submersible sensor. International Journal of Environmental Analytical Chemistry, 2008, 88, 279-288.	1.8	4
46	A Simplified Analytical Procedure for the Determination of Organically Bound Halogens in Salt-containing Water Samples. Clean - Soil, Air, Water, 2003, 31, 19-24.	0.8	3
47	Sprayed liquid-gas extraction in combination with ion mobility spectrometry: a novel approach for the fast determination of semi-volatile compounds in air and from contaminated surfaces. International Journal for Ion Mobility Spectrometry, 2018, 21, 33-41.	1.4	3
48	Influence of structural features of isomeric hydrocarbons on ion formation at atmospheric pressure. International Journal for Ion Mobility Spectrometry, 2008, 11, 27-33.	1.4	2
49	Drift Time Corrections Based on a Practical Measurement of the Depletion Zone to Allow Accurate and Reproducible Determination of the Reduced Mobility of Ions in DT-IMS. Journal of the American Society for Mass Spectrometry, 2022, 33, 74-82.	1.2	2
50	Schadstoffe im Wasser in situ messen. Nachrichten Aus Der Chemie, 2005, 53, 203-205.	0.0	1
51	Mutual influences of halogenated compounds during atmospheric pressure chemical ionization. International Journal for Ion Mobility Spectrometry, 2013, 16, 229-235.	1.4	1
52	Gas phase ion chemistry: what do we know about reactions and ion formation?. International Journal for Ion Mobility Spectrometry, 2015, 18, 31-32.	1.4	1
53	Application of open-path Fourier transform infrared spectroscopy for atmospheric monitoring of a CO ₂ back-production experiment at the Ketzin pilot site (Germany). Environmental Monitoring and Assessment, 2018, 190, 114.	1.3	1
54	A versatile and compact reference gas generator for calibration of ion mobility spectrometers. International Journal for Ion Mobility Spectrometry, 2020, 23, 51-60.	1.4	1

#	ARTICLE	IF	CITATIONS
55	Organische Verbindungen in Pflanzen: das Matrixproblem. Nachrichten Aus Der Chemie, 2010, 58, 1264-1267.	0.0	0
56	Auswertung und Visualisierung von Daten komplexer Sensorsysteme zur Bestimmung von Geruchsstoffen in wässrigen Lösungen. TM Technisches Messen, 2021, 88, 189-197.	0.3	0