Roberto FernÃ¡ndez Maestre

List of Publications by Year
in descending order

32 papers	492 citations	687220 13 h-index	677027 22 g-index
35 all docs	35 docs citations	35 times ranked	512 citing authors

#	Article	IF	Citations
1	Chemical standards in ion mobility spectrometry. Analyst, The, 2010, 135, 1433.	1.7	72
2	Ion mobility spectrometry for the rapid analysis of over-the-counter drugs and beverages. International Journal for Ion Mobility Spectrometry, 2009, 12, 91-102.	1.4	50
3	Hydrocarbon contamination in Cartagena Bay, Colombia. Marine Pollution Bulletin, 2002, 44, 71-74.	2.3	47
4	Buffer gas modifiers effect resolution in ion mobility spectrometry through selective ionâ€•molecule clustering reactions. Rapid Communications in Mass Spectrometry, 2012, 26, 2211-2223.	0.7	39
5	Using a buffer gas modifier to change separation selectivity in ion mobility spectrometry. International Journal of Mass Spectrometry, 2010, 298, 2-9.	0.7	38
6	Activated carbons from waste of oil-palm kernel shells, sawdust and tannery leather scraps and application to chromium(VI), phenol, and methylene blue dye adsorption. Water Science and Technology, 2016, 73, 21-27.	1.2	33
7	Heavy Metals in Sediments and Fish in the Caribbean Coast of Colombia: Assessing the Environmental Risk. International Journal of Environmental Research, 2018, 12, 289-301.	1.1	22
8	AMMONIA AS A MODIFIER IN ION MOBILITY SPECTROMETRY: EFFECTS ON ION MOBILITIES AND POTENTIAL AS A SEPARATION TOOL. Journal of the Chilean Chemical Society, 2014, 59, 2398-2403.	0.5	19
9	Separation of asparagine, valine and tetraethylammonium ions overlapping in an ion mobility spectrum by clustering with methanol introduced as a modifier into the buffer gas. Analytical Methods, 2015, 7, 863-869.	1.3	16
10	Nitrobenzene as a Buffer Gas Modifier in Ion Mobility Spectrometry: Better Separations and Cleaner Spectra. Current Analytical Chemistry, 2013, 9, 485-494.	0.6	14
11	Shift reagents in ion mobility spectrometry: the effect of the number of interaction sites, size and interaction energies on the mobilities of valinol and ethanolamine. Journal of Mass Spectrometry, 2016, 51, 378-383.	0.7	13
12	Accuracy of reduced mobilities and measurement of instrumental parameters in ion mobility spectrometry. International Journal of Mass Spectrometry, 2017, 421, 8-13.	0.7	13
13	Explaining the Drift Behavior of Caffeine and Glucosamine After Addition of Ethyl Lactate in the Buffer Gas of an Ion Mobility Spectrometer. Bulletin of the Korean Chemical Society, 2014, 35, 1023-1028.	1.0	13
14	Mobilities of amino acid adducts with modifiers in the buffer gas of an ion mobility spectrometer depended on modifier size and modifierâ€“amino acid interaction energy. International Journal of Mass Spectrometry, 2015, 380, 21-25.	0.7	12
15	Calibration of the mobility scale in ion mobility spectrometry: the use of 2,4-lutidine as a chemical standard, the two-standard calibration method and the incorrect use of drift tube temperature for calibration. Analytical Methods, 2017, 9, 4288-4292.	1.3	12
16	Mobility shifts when buffer gas temperature increases in ion mobility spectrometry are affected by intramolecular bonds. International Journal of Mass Spectrometry, 2016, 407, 113-117.	0.7	10
17	Ion mobility spectrometry: the diagnostic tool of third millennium medicine. Revista Da AssociaÃ§Ã£o MÃ©dica Brasileira, 2018, 64, 861-868.	0.3	9
18	Trifluoromethyl benzyl alcohol as a â€œshift reagentâ€•in ion mobility spectrometry: The effect of intramolecular bridges, ion size and shift reagent-ion binding energy in ion mobility. Microchemical Journal, 2016, 126, 155-161.	2.3	8

#	Article	IF	Citations
19	Buffer gas additives (modifiers/shift reagents) in ion mobility spectrometry: Applications, predictions of mobility shifts, and influence of interaction energy and structure. Journal of Mass Spectrometry, 2018, 53, 598-613.	0.7	8
20	Ion mobility spectrometry: history, characteristics and applications. Revista U D C A Actualidad & DivulgaciÃ³n CientÃfica, 2012, 15, .	0.1	7
21	Cation exchange for mercury and cadmium of xanthated, sulfonated, activated and non-treated subbituminous coal, commercial activated carbon and commercial synthetic resin: effect of pre-oxidation on xanthation of subbituminous coal. International Journal of Coal Science and Technology, 2014, 1, 235-240.	2.7	6
22	Total Hydrocarbons in Waters, Superficial Sediments and Bioindicator Bivalves in the Pacific Colombian Coast. Marine Pollution Bulletin, 1999, 38, 819-823.	2.3	5
23	The adduction behavior of water reactant ions with mobility shift reagents in ion mobility spectrometry is determined by the number of locations for adduction, interaction energies, proton affinities, and steric hindrance of these species. International Journal for Ion Mobility Spectrometry, 2016, 19, 145-153.	1.4	5
24	Caffeine and glucosamine mobility shifts by adduction with 2â€butanol depended on interaction energy, charge delocalization, and steric hindrance in ion mobility spectrometry. Journal of Mass Spectrometry, 2017, 52, 823-829.	0.7	4
25	Ion mobility spectrometry experiments should be carried out at high temperatures to reduce uncertainties in the measurement of reduced mobilities. Analytical Methods, 2021, 13, 2878-2887.	1.3	4
26	Reduced ion mobilities of aspartame, cortisone, betamethasone, butylparaben, propylparaben and vanillin. International Journal for Ion Mobility Spectrometry, 2017, 20, 11-13.	1.4	3
27	Note: Buffer gas temperature inhomogeneities and design of drift-tube ion mobility spectrometers: Warnings for real-world applications by non-specialists. Review of Scientific Instruments, 2017, 88, 096104.	0.6	3
28	The effect of adduction energy and intramolecular bonding in the mobility of dextromethorphan and diphenhydramine with 2-butanol in the buffer gas in ion mobility spectrometry. Microchemical Journal, 2018, 137, 45-50.	2.3	3
29	Deprotonation effect of tetrahydrofuranâ€2â€carbonitrile buffer gas dopant in ion mobility spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 1332-1338.	0.7	2
30	XANTHATION OF SAWDUST WASTE FOR ADSORPTION OF LEAD IONS FROM AQUEOUS SOLUTIONS. Periodico Tche Quimica, 2017, 14, 131-138.	0.0	2
31	1,3,5-TRIARYL 2-PYRAZOLINES WITH 8-HYDROXYQUINOLINIC SUBSTITUENT: SYNTHESES, PHOTOPHYSICAL PROPERTIES, AND BIOLOGICAL ACTIVITY. Periodico Tche Quimica, 2015, 12, 51-62.	0.0	0
32	SYNTHESIS OF 2,3-DIHYDRO-1H-1,5-BENZODIAZEPINES CONTAINING THE 8- HYDROXYQUINOLINIC FRAGMENT. Periodico Tche Quimica, 2016, 13, 14-32.	0.0	0