Koppenaal David W

List of Publications by Year
in descending order

21	665	516710 16	752698 20
papers	citations	h-index	g-index

21	21	21	557
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	21 Tesla Fourier Transform Ion Cyclotron Resonance Mass Spectrometer Greatly Expands Mass Spectrometry Toolbox. Journal of the American Society for Mass Spectrometry, 2016, 27, 1929-1936.	2.8	86
2	Liquid Sampling-Atmospheric Pressure Glow Discharge Ionization Source for Elemental Mass Spectrometry. Analytical Chemistry, 2011, 83, 2425-2429.	6.5	76
3	Performance of an inductively coupled plasma source ion trap mass spectrometer. Journal of Analytical Atomic Spectrometry, 1994, 9, 1053.	3.0	64
4	Ion-trap mass spectrometry with an inductively coupled plasma source. Rapid Communications in Mass Spectrometry, 1994, 8, 71-76.	1.5	58
5	High-Resolution Inductively Coupled Plasma Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 1997, 69, 3714-3721.	6.5	51
6	Liquid samplingâ€“atmospheric pressure glow discharge (LS-APGD) ionization source for elemental mass spectrometry: preliminary parametric evaluation and figures of merit. Analytical and Bioanalytical Chemistry, 2012, 402, 261-268.	3.7	42
7	Ambient Metabolic Profiling and Imaging of Biological Samples with Ultrahigh Molecular Resolution Using Laser Ablation Electrospray Ionization 21 Tesla FTICR Mass Spectrometry. Analytical Chemistry, 2019, 91, 5028-5035.	6.5	40
8	Preliminary Figures of Merit for Isotope Ratio Measurements: The Liquid Sampling-Atmospheric Pressure Glow Discharge Microplasma Ionization Source Coupled to an Orbitrap Mass Analyzer. Journal of the American Society for Mass Spectrometry, 2016, 27, 1393-1403.	2.8	33
9	Isotope ratio characteristics and sensitivity for uranium determinations using a liquid sampling-atmospheric pressure glow discharge ion source coupled to an Orbitrap mass analyzer. Journal of Analytical Atomic Spectrometry, 2016, 31, 2355-2362.	3.0	31
10	Micronutrient metal speciation is controlled by competitive organic chelation in grassland soils. Soil Biology and Biochemistry, 2018, 120, 283-291.	8.8	31
11	Ultra-High Resolution Elemental/Isotopic Mass Spectrometry (m/Î”mâ€‰>â€‰1,000,000): Coupling of the Liquid Sampling-Atmospheric Pressure Glow Discharge with an Orbitrap Mass Spectrometer for Applications in Biological Chemistry and Environmental Analysis. Journal of the American Society for Mass Spectrometry, 2019, 30, 1163-1168.	2.8	23
12	Unambiguous identification and discovery of bacterial siderophores by direct injection 21 Tesla Fourier transform ion cyclotron resonance mass spectrometry. Metallomics, 2017, 9, 82-92.	2.4	21
13	Determination of uranium isotope ratios using a liquid sampling atmospheric pressure glow discharge/Orbitrap mass spectrometer system. Rapid Communications in Mass Spectrometry, 2017, 31, 1534-1540.	1.5	20
14	Concomitant ion effects on isotope ratio measurements with liquid sampling â€“ atmospheric pressure glow discharge ion source Orbitrap mass spectrometry. Journal of Analytical Atomic Spectrometry, 2018, 33, 251-259.	3.0	19
15	Siderophore profiling of co-habitating soil bacteria by ultra-high resolution mass spectrometry. Metallomics, 2019, 11, 166-175.	2.4	19
16	Coupling of an atmospheric pressure microplasma ionization source with an Orbitrap Fusion Lumos Tribrid 1M mass analyzer for ultra-high resolution isotopic analysis of uranium. Journal of Analytical Atomic Spectrometry, 2019, 34, 1387-1395.	3.0	18
17	A multi-electrode glow discharge ionization source for atomic and molecular mass spectrometry. Journal of Analytical Atomic Spectrometry, 2020, 35, 1969-1978.	3.0	16
18	Resolving Severe Elemental Isobaric Interferences with a Combined Atomic and Molecular Ionization Sourceâ€“Orbitrap Mass Spectrometry Approach: The ⁸⁷Sr and ⁸⁷Rb Geochronology Pair. Analytical Chemistry, 2021, 93, 11506-11514.	6.5	7

#	Article	IF	Citations
19	Combined atomic and molecular (CAM) ionization with the liquid samplingâ€atmospheric pressure glow discharge microplasma. Mass Spectrometry Reviews, 2023, 42, 652-673.	5.4	7
20	Real-time characterization of particles produced by laser ablation for analysis by inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 179, 106092.	2.9	3
21	Rick Russo reminiscences. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 179, 106130.	2.9	0