Ron Bonner

List of Publications by Year
in descending order

41 papers	5,133 citations	279798 23 h-index	276875 41 g-index
41 all docs	41 docs citations	41 times ranked	7265 citing authors

#	Article	IF	Citations
1	Annotation of complex mass spectra by multi-layered analysis. Analytica Chimica Acta, 2022, 1193, 339317.	5.4	7
2	Untargeted â€˜SWATHâ€™ mass spectrometry-based metabolomics for studying chronic and intermittent exposure to xenobiotics in cohort studies. Food and Chemical Toxicology, 2022, 165, 113188.	3.6	3
3	Adduct annotation in liquid chromatography/high-resolution mass spectrometry to enhance compound identification. Analytical and Bioanalytical Chemistry, 2021, 413, 503-517.	3.7	17
4	Improved metabolite characterization by liquid chromatography â€“ Tandem mass spectrometry through electron impact type fragments from adduct ions. Analytica Chimica Acta, 2021, 1150, 338207.	5.4	10
5	Metabolomics data complemented drug use information in epidemiological databases: pilot study of potential kidney donors. Journal of Clinical Epidemiology, 2021, 135, 10-16.	5.0	9
6	SWATH-MS for metabolomics and lipidomics: critical aspects of qualitative and quantitative analysis. Metabolomics, 2020, 16, 71.	3.0	36
7	SWATH data independent acquisition mass spectrometry for screening of xenobiotics in biological fluids: Opportunities and challenges for data processing. Talanta, 2020, 211, 120747.	5.5	22
8	Hybrid SWATH/MS and HR-SRM/MS acquisition for phospholipidomics using QUAL/QUANT data processing. Analytical and Bioanalytical Chemistry, 2019, 411, 5681-5690.	3.7	13
9	SWATH data independent acquisition mass spectrometry for metabolomics. TrAC - Trends in Analytical Chemistry, 2019, 120, 115278.	11.4	58
10	Metabolomic spectral libraries for data-independent SWATH liquid chromatography mass spectrometry acquisition. Analytical and Bioanalytical Chemistry, 2018, 410, 1873-1884.	3.7	30
11	SWATH acquisition mode for drug metabolism and metabolomics investigations. Bioanalysis, 2016, 8, 1735-1750.	1.5	39
12	Development of a highly automated and multiplexed targeted proteome pipeline and assay for 112 rat brain synaptic proteins. Proteomics, 2015, 15, 1202-1214.	2.2	12
13	Mapping differential interactomes by affinity purification coupled with data-independent mass spectrometry acquisition. Nature Methods, 2013, 10, 1239-1245.	19.0	277
14	Label-free quantitative proteomics trends for proteinâ€“protein interactions. Journal of Proteomics, 2013, 81, 91-101.	2.4	55
15	Targeted Data Extraction of the MS/MS Spectra Generated by Data-independent Acquisition: A New Concept for Consistent and Accurate Proteome Analysis. Molecular and Cellular Proteomics, 2012, 11, O111.016717.	3.8	2,285
16	Selected reaction monitoring mass spectrometry reveals the dynamics of signaling through the GRB2 adaptor. Nature Biotechnology, 2011, 29, 653-658.	17.5	209
17	Utility of multivariate analysis in support ofin vitrometabolite identification studies: retrospective analysis using the antidepressant drug nefazodone. Xenobiotica, 2010, 40, 262-274.	1.1	9
18	Methodological considerations in the development of HPLC-MS methods for the analysis of rodent plasma for metabonomic studies. Molecular BioSystems, 2009, 6, 108-120.	2.9	45

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19	Comprehensive Analytical Strategy for Biomarker Identification based on Liquid Chromatography Coupled to Mass Spectrometry and New Candidate Confirmation Tools. Analytical Chemistry, 2009, 81, 7677-7694.	6.5	31
20	Instrumental and experimental effects in LCâ€“MS-based metabolomics. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 871, 227-235.	2.3	60
21	Dimensionality Reduction and Visualization in Principal Component Analysis. Analytical Chemistry, 2008, 80, 4933-4944.	6.5	170
22	Automated Identification and Quantification of Glycerophospholipid Molecular Species by Multiple Precursor Ion Scanning. Analytical Chemistry, 2006, 78, 6202-6214.	6.5	379
23	Exact mass measurement of product ions for the structural elucidation of drug metabolites with a tandem quadrupole orthogonal-acceleration time-of-flight mass spectrometer. Journal of the American Society for Mass Spectrometry, 1999, 10, 1305-1314.	2.8	86
24	Complexity among constituents of the HLA-B*1501 peptide motif. Immunogenetics, 1998, 48, 89-97.	2.4	27
25	Application of Wavelet Transforms to Experimental Spectra:Â Smoothing, Denoising, and Data Set Compression. Analytical Chemistry, 1997, 69, 78-90.	6.5	229
26	Characterization of Protein Digests Using Novel Mixed-mode Scanning with a Single Quadrupole Instrument. Rapid Communications in Mass Spectrometry, 1997, 11, 325-329.	1.5	9
27	The characterization of proteins and peptides by automated methods. Rapid Communications in Mass Spectrometry, 1995, 9, 1067-1076.	1.5	13
28	Error-tolerant protein database searching using peptide product-ion spectra. Rapid Communications in Mass Spectrometry, 1995, 9, 1077-1080.	1.5	8
29	Characterization of phospho-proteins in bovine and buffalo caseins using atmospheric pressure ionization mass spectrometry. Organic Mass Spectrometry, 1992, 27, 211-214.	1.3	5
30	The determination of protein, oligonucleotide and peptide molecular weights by ion-spray mass spectrometry. Rapid Communications in Mass Spectrometry, 1988, 2, 249-256.	1.5	584
31	Environmental analysis with a triple quadrupole. International Journal of Mass Spectrometry and Ion Physics, 1983, 48, 311-314.	1.3	4
32	Effects of charge-exchange reactions on the motion of ions in three-dimensional quadrupole electric fields. part III. a two-ion model. International Journal of Mass Spectrometry and Ion Physics, 1980, 33, 139-158.	1.3	13
33	The quadrupole ion store (QUISTOR) part VIII. The theoretical estimation of ion kinetic energies: A comparative survey of the field. International Journal of Mass Spectrometry and Ion Physics, 1980, 34, 17-36.	1.3	23
34	Radioâ€frequency mass selective excitation and resonant ejection of ions in a threeâ€dimensional quadrupole ion trap. Journal of Vacuum Science and Technology, 1980, 17, 829-835.	1.9	118
35	High-performance digital timing system. Analytical Chemistry, 1980, 52, 1923-1928.	6.5	16
36	Calculation of the phase-space parameters for the study of quadrupole devices. International Journal of Mass Spectrometry and Ion Physics, 1979, 30, 365-371.	1.3	6

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37	The cylindrical ion trap. Part I. General introduction. International Journal of Mass Spectrometry and Ion Physics, 1977, 24, 255-269.	1.3	75
38	The effects of charge exchange collisions on the motion of ions in three-dimensional quadrupole electric fields Part II. Program improvements and fundamental results. International Journal of Mass Spectrometry and Ion Physics, 1977, 25, 411-431.	1.3	27
39	Derivations of the field equations and stability parameters for three operating modes of the three-dimensional quadrupole. International Journal of Mass Spectrometry and Ion Physics, 1977, 23, 249-257.	1.3	28
40	Effect of charge exchange reactions on the motion of ions in three-dimensional quadrupole electric fields. International Journal of Mass Spectrometry and Ion Physics, 1976, 22, 17-34.	1.3	45
41	Ion-molecule reaction studies with a quadrupole ion storage trap. International Journal of Mass Spectrometry and Ion Physics, 1972, 10, 197-203.	1.3	41