Douglas F Barofsky

List of Publications by Year
in descending order

70 papers	3,955 citations	201674 27 h-index	118850 62 g-index
70 all docs	70 docs citations	70 times ranked	4167 citing authors

#	Article	IF	Citations
1	A Personal Retrospective on the Origin of the Time-of-Flight Atom Probe. Microscopy and Microanalysis, 2017, 23, 604-606.	0.4	1
2	Electron-Induced Dissociation of Peptides in a Triple Quadrupole Mass Spectrometer Retrofitted with an Electromagnetostatic Cell. Journal of the American Society for Mass Spectrometry, 2015, 26, 752-761.	2.8	16
3	Electron Capture Dissociation of Sodium-Adducted Peptides on a Modified Quadrupole/Time-of-Flight Mass Spectrometer. Journal of the American Society for Mass Spectrometry, 2015, 26, 2096-2104.	2.8	21
4	Reactions between neutral molecules and cation-radicals in the gas-phase: Can protonation occur without proton transfer?. International Journal of Mass Spectrometry, 2015, 390, 39-48.	1.5	0
5	ECD of Tyrosine Phosphorylation in a Triple Quadrupole Mass Spectrometer with a Radio-Frequency-Free Electromagnetostatic Cell. Journal of the American Society for Mass Spectrometry, 2014, 25, 1730-1738.	2.8	19
6	A Tribute to Max L. Deinzer (June 19, 1937-May 20, 2013). Journal of the American Society for Mass Spectrometry, 2014, 25, 903-904.	2.8	0
7	Environmental proteomics of microbial plankton in a highly productive coastal upwelling system. ISME Journal, 2011, 5, 856-865.	9.8	167
8	Quantitative determination of fluorochemicals in municipal landfill leachates. Chemosphere, 2011, 82, 1380-1386.	8.2	139
9	Electron Capture, Collision-Induced, and Electron Capture-Collision Induced Dissociation in Q-TOF. Journal of the American Society for Mass Spectrometry, 2011, 22, 607-611.	2.8	25
10	Application of a congenerâ€specific debromination model to study photodebromination, anaerobic microbial debromination, and FE⁰ reduction of polybrominated diphenyl ethers. Environmental Toxicology and Chemistry, 2010, 29, 770-778.	4.3	26
11	Electronâ€capture dissociation (ECD), collisionâ€induced dissociation (CID) and ECD/CID in a linear radioâ€frequencyâ€free magnetic cell. Rapid Communications in Mass Spectrometry, 2009, 23, 3028-3030.	1.5	28
12	Transport functions dominate the SAR11 metaproteome at low-nutrient extremes in the Sargasso Sea. ISME Journal, 2009, 3, 93-105.	9.8	295
13	Radio-Frequency-Free Cell for Electron Capture Dissociation in Tandem Mass Spectrometry. Analytical Chemistry, 2009, 81, 1238-1243.	6.5	33
14	Chlordecone increased subcellular distribution of scavenger receptor class B type II to murine hepatic microsomes without altering cytosolic cholesterol binding proteins. Toxicology Letters, 2009, 191, 20-25.	0.8	2
15	Electron capture dissociation in a linear radiofrequencyâ€free magnetic cell. Rapid Communications in Mass Spectrometry, 2008, 22, 3087-3088.	1.5	30
16	A comparison of relative quantification with isobaric tags on a subset of the murine hepatic proteome using electrospray ionization quadrupole timeâ€ofâ€flight and matrixâ€assisted laser desorption/ionization tandem timeâ€ofâ€flight. Rapid Communications in Mass Spectrometry, 2008, 22, 3137-3146.	1.5	5
17	Absolute dissociative electron attachment cross-sections of chloro- and bromo-ethylenes. International Journal of Mass Spectrometry, 2008, 277, 142-150.	1.5	11
18	Development and validation of a congenerâ€specific photodegradation model for polybrominated diphenyl ethers. Environmental Toxicology and Chemistry, 2008, 27, 2427-2435.	4.3	47

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19	Occurrence and Mass Flows of Fluorochemicals in the Glatt Valley Watershed, Switzerland. Environmental Science & Technology, 2008, 42, 6369-6377.	10.0	159
20	Proteomic Analysis of Stationary Phase in the Marine Bacterium â€œ Candidatus Pelagibacter ubiqueâ€• Applied and Environmental Microbiology, 2008, 74, 4091-4100.	3.1	78
21	Charge-Remote Metastable Ion Decomposition of Free Fatty Acids under FAB MS:Â Evidence for Biradical Ion Structures. Analytical Chemistry, 2007, 79, 2822-2826.	6.5	4
22	Resonant electron capture by some amino acids esters. International Journal of Mass Spectrometry, 2007, 268, 106-121.	1.5	33
23	Comparison of ESI-MS interfaces for the analysis of UV-crosslinked peptideâ€“nucleic acid complexes. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 860, 145-152.	2.3	2
24	Polyphyletic photosynthetic reaction centre genes in oligotrophic marine Gammaproteobacteria. Environmental Microbiology, 2007, 9, 1456-1463.	3.8	76
25	Resonant Electron Capture by Some Amino Acids and Their Methyl Esters. Journal of the American Chemical Society, 2006, 128, 5506-5515.	13.7	70
26	Quantitative Determination of Fluorinated Alkyl Substances by Large-Volume-Injection Liquid Chromatography Tandem Mass SpectrometryCharacterization of Municipal Wastewaters. Environmental Science & Technology, 2006, 40, 289-295.	10.0	195
27	Fluorochemical Mass Flows in a Municipal Wastewater Treatment Facility. Environmental Science & Technology, 2006, 40, 7350-7357.	10.0	359
28	Proteorhodopsin in the ubiquitous marine bacterium SAR11. Nature, 2005, 438, 82-85.	27.8	293
29	Theoretical Calculation of Thermodynamic Properties of Polybrominated Diphenyl Ethers. Journal of Chemical & Engineering Data, 2005, 50, 1548-1556.	1.9	53
30	Proteomic analysis of native metabotropic glutamate receptor 5 protein complexes reveals novel molecular constituents. Journal of Neurochemistry, 2004, 91, 438-450.	3.9	78
31	Aggregation of ALS mutant superoxide dismutase expressed in Escherichia coli. Free Radical Biology and Medicine, 2004, 36, 911-918.	2.9	36
32	Quantitative Determination of Fluorotelomer Sulfonates in Groundwater by LC MS/MS. Environmental Science & Technology, 2004, 38, 1828-1835.	10.0	309
33	Mass Spectrometry of UV-Cross-Linked Proteinâ^'Nucleic Acid Complexes:Â Identification of Amino Acid Residues in the Single-Stranded DNA-Binding Domain of Human Replication Protein A. Analytical Chemistry, 2004, 76, 5667-5676.	6.5	16
34	Complementary Use of MALDI and ESI for the HPLC-MS/MS Analysis of DNA-Binding Proteins. Analytical Chemistry, 2004, 76, 5423-5430.	6.5	70
35	Alkylation of protein disulfide isomerase by the episulfonium ion derived from the glutathione conjugate of 1,2-dichloroethane and mass spectrometric characterization of the adducts. Archives of Biochemistry and Biophysics, 2004, 423, 136-147.	3.0	15
36	Proteomic analysis of novel marine bacteria using MALDI and ESI mass spectrometry. Journal of Biomolecular Techniques, 2004, 15, 191-8.	1.5	19

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37	A Resonant Electron Capture Time-of-Flight MS with Trochoidal Electron Monochromator. Analytical Chemistry, 2003, 75, 3001-3009.	6.5	19
38	The 64-Kilodalton Capsid Protein Homolog of Beet Yellows Virus Is Required for Assembly of Virion Tails. Journal of Virology, 2003, 77, 2377-2384.	3.4	72
39	Fluorinated Alkyl Surfactants. Environmental Engineering Science, 2003, 20, 487-501.	1.6	296
40	An exponential dilution gradient system for nanoscale liquid chromatography in combination with MALDI or Nano-ESI mass spectrometry for proteolytic digests. Journal of the American Society for Mass Spectrometry, 2001, 12, 1205-1213.	2.8	17
41	Intraphagosomal Chlorination Dynamics and Yields Determined Using Unique Fluorescent Bacterial Mimics. Chemical Research in Toxicology, 1997, 10, 1080-1089.	3.3	86
42	Nonlinear effects in sputtering of organic liquids by keV ions. Physical Review B, 1997, 56, 13815-13825.	3.2	3
43	Characterization of peptide-oligonucleotide heteroconjugates by mass spectrometry. Nucleic Acids Research, 1996, 24, 3866-3872.	14.5	45
44	Resistance of Morpholino Phosphorodiamidate Oligomers to Enzymatic Degradation. Oligonucleotides, 1996, 6, 267-272.	4.3	199
45	Special feature: Perspective. Mass spectrometric peptide and protein charting. Journal of Mass Spectrometry, 1995, 30, 519-530.	1.6	17
46	Alkylation of Escherichia coli Thioredoxin by S-(2-Chloroethyl)glutathione and Identification of the Adduct on the Active Site Cysteine-32 by Mass Spectrometry. Chemical Research in Toxicology, 1995, 8, 934-941.	3.3	16
47	Thioredoxin Alkylation by a Dihaloethane-Glutathione Conjugate. Chemical Research in Toxicology, 1994, 7, 659-665.	3.3	11
48	Direct observation of UV-crosslinked protein-nucleic acid complexes by matrix-assisted laser desorption lonization mass spectrometry. Rapid Communications in Mass Spectrometry, 1993, 7, 496-501.	1.5	58
49	Centrifugal size-exclusion chromatographic method for rapid desalting and filtering of carbohydrate samples prior to fast atom bombardment mass spectrometry. Analytical Chemistry, 1992, 64, 2014-2019.	6.5	14
50	Carbohydrate-urea-phenol-based adhesives: Transient formation of mono- and di-d-glucosylurea. Carbohydrate Research, 1989, 189, 103-112.	2.3	8
51	Reversed phase high performance liquid chromatography of glycopeptides. Biomedical Chromatography, 1989, 3, 241-245.	1.7	0
52	Separation of photo-oxidation products of toluene by medium resolution atmospheric pressure ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 1988, 2, 163-166.	1.5	3
53	Medium resolution atmospheric pressure ionization mass spectrometer. Review of Scientific Instruments, 1988, 59, 573-579.	1.3	4
54	Discharge suppression system for a double focusing, atmospheric pressure ionization mass spectrometer. Review of Scientific Instruments, 1988, 59, 656-658.	1.3	6

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55	Sequencing procyanidin oligomers by fast atom bombardment mass spectrometry. Analytical Chemistry, 1986, 58, 2563-2567.	6.5	62
56	Liquid Metal Ion Sources. ACS Symposium Series, 1985, , 113-124.	0.5	3
57	Reaction mixture analysis by fast atom bombardment mass spectrometry: palladium-mediated reactions of organomercurials with glycals. Journal of the American Chemical Society, 1985, 107, 6476-6482.	13.7	20
58	Molecular secondary ion mass spectrometry with a liquid metal ion primary source. Analytical Chemistry, 1983, 55, 1318-1323.	6.5	24
59	The identification of chlorophenoxyphenols in soil and water samples by solvent extraction and field desorption mass spectrometry. Analytica Chimica Acta, 1981, 124, 357-364.	5.4	7
60	Isolation of N-acetylaspartic acid from hypothalamic tissue and significance of its ACTH-releasing activity. Biochemical and Biophysical Research Communications, 1978, 80, 735-739.	2.1	11
61	Isolation of pyroglutamic acid from hypothalamic tissue and significance of its inhibition of prolactin release. Biochemical and Biophysical Research Communications, 1978, 81, 680-683.	2.1	12
62	Field desorption mass spectrometry using needleless emitters. A study of five synthetic tripeptides as hormone models. Journal of the American Chemical Society, 1978, 100, 6221-6225.	13.7	21
63	Mass spectra of underivatized peptide amides related to substance P. Biochemical and Biophysical Research Communications, 1977, 78, 372-376.	2.1	22
64	Sample derivatization and structure analysis by field desorption mass spectrometry. Peptide methylationâ€"methanolysis. Biological Mass Spectrometry, 1977, 4, 152-154.	0.5	15
65	Exploratory field desorption mass analysis of the photoconversion of adsorbed polycyclic aromatic hydrocarbons. Journal of the American Chemical Society, 1976, 98, 8286-8287.	13.7	15
66	Condensed tannins from the barks of Alnus rubra and Pseudotsuga menziesii. Phytochemistry, 1976, 15, 2009-2010.	2.9	16
67	Structure of oregonin, a natural diarylheptanoid xyloside. Journal of the Chemical Society Chemical Communications, 1974, , 649.	2.0	27
68	Low-temperature field evaporation mass spectrometry of Fe, Co and Ni. International Journal of Mass Spectrometry and Ion Physics, 1969, 2, 125-140.	1.3	7
69	Pulsed field evaporation mass spectrometry. International Journal of Mass Spectrometry and Ion Physics, 1969, 3, 156-158.	1.3	0
70	Mass spectrometric analysis of low temperature field evaporation. Surface Science, 1968, 10, 177-196.	1.9	89