

Douglas F Barofsky

List of Publications by Year in descending order

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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	Fluorochemical Mass Flows in a Municipal Wastewater Treatment Facility. <i>Environmental Science & Technology</i> , 2006, 40, 7350-7357.	10.0	359
2	Quantitative Determination of Fluorotelomer Sulfonates in Groundwater by LC MS/MS. <i>Environmental Science & Technology</i> , 2004, 38, 1828-1835.	10.0	309
3	Fluorinated Alkyl Surfactants. <i>Environmental Engineering Science</i> , 2003, 20, 487-501.	1.6	296
4	Transport functions dominate the SAR11 metaproteome at low-nutrient extremes in the Sargasso Sea. <i>ISME Journal</i> , 2009, 3, 93-105.	9.8	295
5	Proteorhodopsin in the ubiquitous marine bacterium SAR11. <i>Nature</i> , 2005, 438, 82-85.	27.8	293
6	Resistance of Morpholino Phosphorodiamidate Oligomers to Enzymatic Degradation. <i>Oligonucleotides</i> , 1996, 6, 267-272.	4.3	199
7	Quantitative Determination of Fluorinated Alkyl Substances by Large-Volume-Injection Liquid Chromatography Tandem Mass Spectrometry Characterization of Municipal Wastewaters. <i>Environmental Science & Technology</i> , 2006, 40, 289-295.	10.0	195
8	Environmental proteomics of microbial plankton in a highly productive coastal upwelling system. <i>ISME Journal</i> , 2011, 5, 856-865.	9.8	167
9	Occurrence and Mass Flows of Fluorochemicals in the Glatt Valley Watershed, Switzerland. <i>Environmental Science & Technology</i> , 2008, 42, 6369-6377.	10.0	159
10	Quantitative determination of fluorochemicals in municipal landfill leachates. <i>Chemosphere</i> , 2011, 82, 1380-1386.	8.2	139
11	Mass spectrometric analysis of low temperature field evaporation. <i>Surface Science</i> , 1968, 10, 177-196.	1.9	89
12	Intraphagosomal Chlorination Dynamics and Yields Determined Using Unique Fluorescent Bacterial Mimics. <i>Chemical Research in Toxicology</i> , 1997, 10, 1080-1089.	3.3	86
13	Proteomic analysis of native metabotropic glutamate receptor 5 protein complexes reveals novel molecular constituents. <i>Journal of Neurochemistry</i> , 2004, 91, 438-450.	3.9	78
14	Proteomic Analysis of Stationary Phase in the Marine Bacterium <i>Candidatus</i> Pelagibacter ubique. <i>Applied and Environmental Microbiology</i> , 2008, 74, 4091-4100.	3.1	78
15	Polyphyletic photosynthetic reaction centre genes in oligotrophic marine Gammaproteobacteria. <i>Environmental Microbiology</i> , 2007, 9, 1456-1463.	3.8	76
16	The 64-Kilodalton Capsid Protein Homolog of Beet Yellow Virus Is Required for Assembly of Virion Tails. <i>Journal of Virology</i> , 2003, 77, 2377-2384.	3.4	72
17	Complementary Use of MALDI and ESI for the HPLC-MS/MS Analysis of DNA-Binding Proteins. <i>Analytical Chemistry</i> , 2004, 76, 5423-5430.	6.5	70
18	Resonant Electron Capture by Some Amino Acids and Their Methyl Esters. <i>Journal of the American Chemical Society</i> , 2006, 128, 5506-5515.	13.7	70

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19	Sequencing procyanidin oligomers by fast atom bombardment mass spectrometry. <i>Analytical Chemistry</i> , 1986, 58, 2563-2567.	6.5	62
20	Direct observation of UV-crosslinked protein-nucleic acid complexes by matrix-assisted laser desorption ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1993, 7, 496-501.	1.5	58
21	Theoretical Calculation of Thermodynamic Properties of Polybrominated Diphenyl Ethers. <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 1548-1556.	1.9	53
22	Development and validation of a congener-specific photodegradation model for polybrominated diphenyl ethers. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 2427-2435.	4.3	47
23	Characterization of peptide-oligonucleotide heteroconjugates by mass spectrometry. <i>Nucleic Acids Research</i> , 1996, 24, 3866-3872.	14.5	45
24	Aggregation of ALS mutant superoxide dismutase expressed in <i>Escherichia coli</i> . <i>Free Radical Biology and Medicine</i> , 2004, 36, 911-918.	2.9	36
25	Resonant electron capture by some amino acids esters. <i>International Journal of Mass Spectrometry</i> , 2007, 268, 106-121.	1.5	33
26	Radio-Frequency-Free Cell for Electron Capture Dissociation in Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 1238-1243.	6.5	33
27	Electron capture dissociation in a linear radiofrequency-free magnetic cell. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3087-3088.	1.5	30
28	Electron-capture dissociation (ECD), collision-induced dissociation (CID) and ECD/CID in a linear radio-frequency-free magnetic cell. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 3028-3030.	1.5	28
29	Structure of oregonin, a natural diarylheptanoid xyloside. <i>Journal of the Chemical Society Chemical Communications</i> , 1974, , 649.	2.0	27
30	Application of a congener-specific debromination model to study photodebromination, anaerobic microbial debromination, and Fe^{0} reduction of polybrominated diphenyl ethers. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 770-778.	4.3	26
31	Electron Capture, Collision-Induced, and Electron Capture-Collision Induced Dissociation in Q-TOF. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 607-611.	2.8	25
32	Molecular secondary ion mass spectrometry with a liquid metal ion primary source. <i>Analytical Chemistry</i> , 1983, 55, 1318-1323.	6.5	24
33	Mass spectra of underivatized peptide amides related to substance P. <i>Biochemical and Biophysical Research Communications</i> , 1977, 78, 372-376.	2.1	22
34	Field desorption mass spectrometry using needleless emitters. A study of five synthetic tripeptides as hormone models. <i>Journal of the American Chemical Society</i> , 1978, 100, 6221-6225.	13.7	21
35	Electron Capture Dissociation of Sodium-Adducted Peptides on a Modified Quadrupole/Time-of-Flight Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 2096-2104.	2.8	21
36	Reaction mixture analysis by fast atom bombardment mass spectrometry: palladium-mediated reactions of organomercurials with glycals. <i>Journal of the American Chemical Society</i> , 1985, 107, 6476-6482.	13.7	20

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37	A Resonant Electron Capture Time-of-Flight MS with Trochoidal Electron Monochromator. <i>Analytical Chemistry</i> , 2003, 75, 3001-3009.	6.5	19
38	ECD of Tyrosine Phosphorylation in a Triple Quadrupole Mass Spectrometer with a Radio-Frequency-Free Electromagnetostatic Cell. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1730-1738.	2.8	19
39	Proteomic analysis of novel marine bacteria using MALDI and ESI mass spectrometry. <i>Journal of Biomolecular Techniques</i> , 2004, 15, 191-8.	1.5	19
40	Special feature: Perspective. Mass spectrometric peptide and protein charting. <i>Journal of Mass Spectrometry</i> , 1995, 30, 519-530.	1.6	17
41	An exponential dilution gradient system for nanoscale liquid chromatography in combination with MALDI or Nano-ESI mass spectrometry for proteolytic digests. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 1205-1213.	2.8	17
42	Condensed tannins from the barks of <i>Alnus rubra</i> and <i>Pseudotsuga menziesii</i> . <i>Phytochemistry</i> , 1976, 15, 2009-2010.	2.9	16
43	Alkylation of <i>Escherichia coli</i> Thioredoxin by S-(2-Chloroethyl)glutathione and Identification of the Adduct on the Active Site Cysteine-32 by Mass Spectrometry. <i>Chemical Research in Toxicology</i> , 1995, 8, 934-941.	3.3	16
44	Mass Spectrometry of UV-Cross-Linked Protein~Nucleic Acid Complexes:~ Identification of Amino Acid Residues in the Single-Stranded DNA-Binding Domain of Human Replication Protein A. <i>Analytical Chemistry</i> , 2004, 76, 5667-5676.	6.5	16
45	Electron-Induced Dissociation of Peptides in a Triple Quadrupole Mass Spectrometer Retrofitted with an Electromagnetostatic Cell. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 752-761.	2.8	16
46	Exploratory field desorption mass analysis of the photoconversion of adsorbed polycyclic aromatic hydrocarbons. <i>Journal of the American Chemical Society</i> , 1976, 98, 8286-8287.	13.7	15
47	Sample derivatization and structure analysis by field desorption mass spectrometry. Peptide methylation~methanolysis. <i>Biological Mass Spectrometry</i> , 1977, 4, 152-154.	0.5	15
48	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. <i>Archives of Biochemistry and Biophysics</i> , 2004, 423, 136-147.	3.0	15
49	Centrifugal size-exclusion chromatographic method for rapid desalting and filtering of carbohydrate samples prior to fast atom bombardment mass spectrometry. <i>Analytical Chemistry</i> , 1992, 64, 2014-2019.	6.5	14
50	Isolation of pyroglutamic acid from hypothalamic tissue and significance of its inhibition of prolactin release. <i>Biochemical and Biophysical Research Communications</i> , 1978, 81, 680-683.	2.1	12
51	Isolation of N-acetylaspartic acid from hypothalamic tissue and significance of its ACTH-releasing activity. <i>Biochemical and Biophysical Research Communications</i> , 1978, 80, 735-739.	2.1	11
52	Thioredoxin Alkylation by a Dihaloethane-Glutathione Conjugate. <i>Chemical Research in Toxicology</i> , 1994, 7, 659-665.	3.3	11
53	Absolute dissociative electron attachment cross-sections of chloro- and bromo-ethylenes. <i>International Journal of Mass Spectrometry</i> , 2008, 277, 142-150.	1.5	11
54	Carbohydrate-urea-phenol-based adhesives: Transient formation of mono- and di-d-glucosylurea. <i>Carbohydrate Research</i> , 1989, 189, 103-112.	2.3	8

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55	Low-temperature field evaporation mass spectrometry of Fe, Co and Ni. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1969, 2, 125-140.	1.3	7
56	The identification of chlorophenoxyphenols in soil and water samples by solvent extraction and field desorption mass spectrometry. <i>Analytica Chimica Acta</i> , 1981, 124, 357-364.	5.4	7
57	Discharge suppression system for a double focusing, atmospheric pressure ionization mass spectrometer. <i>Review of Scientific Instruments</i> , 1988, 59, 656-658.	1.3	6
58	A comparison of relative quantification with isobaric tags on a subset of the murine hepatic proteome using electrospray ionization quadrupole time-of-flight and matrix-assisted laser desorption/ionization tandem time-of-flight. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3137-3146.	1.5	5
59	Medium resolution atmospheric pressure ionization mass spectrometer. <i>Review of Scientific Instruments</i> , 1988, 59, 573-579.	1.3	4
60	Charge-Remote Metastable Ion Decomposition of Free Fatty Acids under FAB MS: Evidence for Biradical Ion Structures. <i>Analytical Chemistry</i> , 2007, 79, 2822-2826.	6.5	4
61	Liquid Metal Ion Sources. <i>ACS Symposium Series</i> , 1985, , 113-124.	0.5	3
62	Separation of photo-oxidation products of toluene by medium resolution atmospheric pressure ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1988, 2, 163-166.	1.5	3
63	Nonlinear effects in sputtering of organic liquids by keV ions. <i>Physical Review B</i> , 1997, 56, 13815-13825.	3.2	3
64	Comparison of ESI-MS interfaces for the analysis of UV-crosslinked peptide-nucleic acid complexes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 860, 145-152.	2.3	2
65	Chlordecone increased subcellular distribution of scavenger receptor class B type II to murine hepatic microsomes without altering cytosolic cholesterol binding proteins. <i>Toxicology Letters</i> , 2009, 191, 20-25.	0.8	2
66	A Personal Retrospective on the Origin of the Time-of-Flight Atom Probe. <i>Microscopy and Microanalysis</i> , 2017, 23, 604-606.	0.4	1
67	Pulsed field evaporation mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1969, 3, 156-158.	1.3	0
68	Reversed phase high performance liquid chromatography of glycopeptides. <i>Biomedical Chromatography</i> , 1989, 3, 241-245.	1.7	0
69	A Tribute to Max L. Deinzer (June 19, 1937-May 20, 2013). <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 903-904.	2.8	0
70	Reactions between neutral molecules and cation-radicals in the gas-phase: Can protonation occur without proton transfer?. <i>International Journal of Mass Spectrometry</i> , 2015, 390, 39-48.	1.5	0