

Jennifer S Brodbelt

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

386
papers

12,298
citations

57
h-index

80
g-index

422
ext. papers

13,658
ext. citations

6.6
avg, IF

6.95
L-index

#	Paper	IF	Citations
386	Complete protein characterization using top-down mass spectrometry and ultraviolet photodissociation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12646-51	16.4	255
385	Photodissociation mass spectrometry: new tools for characterization of biological molecules. <i>Chemical Society Reviews</i> , 2014 , 43, 2757-83	58.5	221
384	Screen identifies bromodomain protein ZMYND8 in chromatin recognition of transcription-associated DNA damage that promotes homologous recombination. <i>Genes and Development</i> , 2015 , 29, 197-211	12.6	153
383	The rice immune receptor XA21 recognizes a tyrosine-sulfated protein from a Gram-negative bacterium. <i>Science Advances</i> , 2015 , 1, e1500245	14.3	151
382	Analytical applications of ion-molecule reactions. <i>Mass Spectrometry Reviews</i> , 1997 , 16, 91-110	11	137
381	A method for the determination of binding constants by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2000 , 72, 5411-6	7.8	136
380	Gas-phase selectivities of crown ethers for alkali metal ion complexation. <i>Journal of the American Chemical Society</i> , 1992 , 114, 4295-4298	16.4	133
379	Ion Activation Methods for Peptides and Proteins. <i>Analytical Chemistry</i> , 2016 , 88, 30-51	7.8	123
378	Infrared multiphoton dissociation in quadrupole ion traps. <i>Mass Spectrometry Reviews</i> , 2009 , 28, 390-424	11	118
377	Determination of benzophenone-3 and metabolites in water and human urine by solid-phase microextraction and quadrupole ion trap GC/MS. <i>Analytica Chimica Acta</i> , 1998 , 371, 195-203	6.6	117
376	Probing molecular recognition by mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2000 , 200, 57-69	1.9	117
375	Amino acid addition to <i>Vibrio cholerae</i> LPS establishes a link between surface remodeling in gram-positive and gram-negative bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8722-7	11.5	110
374	Determination of binding selectivities in host-guest complexation by electrospray/quadrupole ion trap mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1998 , 9, 1049-1059	3.5	110
373	Investigation of quadruplex oligonucleotide-drug interactions by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2002 , 74, 2029-33	7.8	105
372	Pinpointing Double Bond and sn-Positions in Glycerophospholipids via Hybrid 193 nm Ultraviolet Photodissociation (UVPD) Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15681-15690	16.4	104
371	Directed evolution of genetic parts and circuits by compartmentalized partnered replication. <i>Nature Biotechnology</i> , 2014 , 32, 97-101	44.5	103
370	Enhanced detection of flavonoids by metal complexation and electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2000 , 72, 5898-906	7.8	100

369	Ultrafast ultraviolet photodissociation at 193 nm and its applicability to proteomic workflows. <i>Journal of Proteome Research</i> , 2010 , 9, 4205-14	5.6	94
368	Reinforcing Lipid A Acylation on the Cell Surface of <i>Acinetobacter baumannii</i> Promotes Cationic Antimicrobial Peptide Resistance and Desiccation Survival. <i>MBio</i> , 2015 , 6, e00478-15	7.8	93
367	Determination of barbiturates by solid-phase microextraction (SPME) and ion trap gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 1997 , 777, 275-82	4.5	92
366	Enantioselective reductive cyclization of 1,6-enynes via rhodium-catalyzed asymmetric hydrogenation: C-C bond formation precedes hydrogen activation. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6174-5	16.4	89
365	An empirical approach to estimation of critical energies by using a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1996 , 7, 1116-25	3.5	87
364	Relative binding energies of gas-phase pyridyl ligand/metal complexes by energy-variable collisionally activated dissociation in a quadrupole ion trap. <i>Inorganic Chemistry</i> , 2001 , 40, 5393-400	5.1	85
363	Chemical ionization in an ion trap mass spectrometer. <i>Analytical Chemistry</i> , 1987 , 59, 1278-1285	7.8	85
362	Characterization of native protein complexes using ultraviolet photodissociation mass spectrometry. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12920-8	16.4	83
361	Transmission mode desorption electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 1612-20	3.5	83
360	Determination of the glycosylation site of flavonoid monoglucosides by metal complexation and tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 1287-99	3.5	81
359	Infrared multiphoton dissociation (IRMPD) and collisionally activated dissociation of peptides in a quadrupole ion trap with selective IRMPD of phosphopeptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 1581-92	3.5	80
358	Differentiation of flavonoid glycoside isomers by using metal complexation and electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2003 , 14, 1437-53	3.5	80
357	Synthesis and Alkali Metal Ion Binding Properties of Two Rigid Stereochemical Isomers of Calix[6]arene Bis-crown-4. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1486-1491	16.4	80
356	Structural Characterization of Phosphatidylcholines Using 193 nm Ultraviolet Photodissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 1516-1522	7.8	79
355	Infrared photoactivation reduces peptide folding and hydrogen-atom migration following ETD tandem mass spectrometry. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8526-8	16.4	77
354	Evaluation of binding of perylene diimide and benzannulated perylene diimide ligands to DNA by electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 593-604	3.5	76
353	ESI-MS, DFT, and synthetic studies on the H(2)-mediated coupling of acetylene: insertion of C=X bonds into rhodacyclopentadienes and Brønsted acid cocatalyzed hydrogenolysis of organorhodium intermediates. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16054-62	16.4	75
352	Cavity-size-dependent dissociation of crown ether/ammonium ion complexes in the gas phase. <i>Journal of the American Chemical Society</i> , 1993 , 115, 2837-2843	16.4	75

351	Desorption Electrospray Ionization Mass Spectrometry Imaging of Proteins Directly from Biological Tissue Sections. <i>Analytical Chemistry</i> , 2018 , 90, 7785-7789	7.8	74
350	The first pilot project of the consortium for top-down proteomics: a status report. <i>Proteomics</i> , 2014 , 14, 1130-40	4.8	73
349	Chromogenic cross-linker for the characterization of protein structure by infrared multiphoton dissociation mass spectrometry. <i>Analytical Chemistry</i> , 2008 , 80, 4807-19	7.8	73
348	Ultraviolet Photodissociation Mass Spectrometry for Analysis of Biological Molecules. <i>Chemical Reviews</i> , 2020 , 120, 3328-3380	68.1	71
347	Determination of orders of relative alkali metal ion affinities of crown ethers and acyclic analogs by the kinetic method. <i>Journal of the American Society for Mass Spectrometry</i> , 1992 , 3, 543-8	3.5	70
346	Ultraviolet photodissociation for characterization of whole proteins on a chromatographic time scale. <i>Analytical Chemistry</i> , 2014 , 86, 2185-92	7.8	69
345	Transmission-mode direct analysis in real time and desorption electrospray ionization mass spectrometry of insecticide-treated bednets for malaria control. <i>Analyst, The</i> , 2010 , 135, 712-9	5	68
344	In vivo mass spectrometric determination of organic compounds in blood with a membrane probe. <i>Analytical Chemistry</i> , 1987 , 59, 454-8	7.8	66
343	Click and chemically triggered declick reactions through reversible amine and thiol coupling via a conjugate acceptor. <i>Nature Chemistry</i> , 2016 , 8, 968-973	17.6	66
342	Shotgun Analysis of Rough-Type Lipopolysaccharides Using Ultraviolet Photodissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 1044-51	7.8	64
341	193-nm photodissociation of singly and multiply charged peptide anions for acidic proteome characterization. <i>Proteomics</i> , 2011 , 11, 1329-34	4.8	64
340	Identification of tetracycline antibiotics by electrospray ionization in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1998 , 9, 1089-1098	3.5	64
339	Analysis of flavonoids: tandem mass spectrometry, computational methods, and NMR. <i>Journal of Mass Spectrometry</i> , 2008 , 43, 1581-617	2.2	64
338	Structural characterization and isomer differentiation of chalcones by electrospray ionization tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2003 , 38, 555-72	2.2	64
337	Use of infrared multiphoton photodissociation with SWIFT for electrospray ionization and laser desorption applications in a quadrupole ion trap mass spectrometer. <i>Analytical Chemistry</i> , 1996 , 68, 4033-43	7.8	64
336	Comparison of gas-phase proton and ammonium ion affinities of crown ethers and related acyclic analogs. <i>Journal of the American Chemical Society</i> , 1992 , 114, 6761-6764	16.4	63
335	Selective adduct formation by dimethyl ether chemical ionization in a quadrupole ion trap mass spectrometer and a conventional ion source. <i>Analytical Chemistry</i> , 1991 , 63, 1205-1209	7.8	62
334	Structural characterization of flavonoid glycosides by collisionally activated dissociation of metal complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2001 , 12, 537-49	3.5	61

333	Structural characterization of holo- and apo-myoglobin in the gas phase by ultraviolet photodissociation mass spectrometry. <i>Chemical Science</i> , 2015 , 6, 1324-1333	9.4	60
332	Determination of cannabinoids in water and human saliva by solid-phase microextraction and quadrupole ion trap gas chromatography/mass spectrometry. <i>Analytical Chemistry</i> , 1998 , 70, 1788-96	7.8	60
331	Absorption, Conjugation and Efflux of the Flavonoids, Kaempferol and Galangin, Using the Intestinal CACO-2/TC7 Cell Model. <i>Journal of Functional Foods</i> , 2009 , 1, 74-87	5.1	58
330	Gas-phase hydrogen/deuterium exchange and conformations of deprotonated flavonoids and gas-phase acidities of flavonoids. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5906-19	16.4	58
329	High-Throughput Analysis of Intact Human Proteins Using UVPD and HCD on an Orbitrap Mass Spectrometer. <i>Journal of Proteome Research</i> , 2017 , 16, 2072-2079	5.6	57
328	Elucidation of a novel <i>Vibrio cholerae</i> lipid A secondary hydroxy-acyltransferase and its role in innate immune recognition. <i>Molecular Microbiology</i> , 2011 , 81, 1313-29	4.1	57
327	Investigation of Alkali Metal Cation Selectivities of Lariat Ethers by Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 1999 , 71, 5493-5500	7.8	57
326	Concurrent automated sequencing of the glycan and peptide portions of O-linked glycopeptide anions by ultraviolet photodissociation mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 9253-61	7.8	56
325	MS/MS simplification by 355 nm ultraviolet photodissociation of chromophore-derivatized peptides in a quadrupole ion trap. <i>Analytical Chemistry</i> , 2007 , 79, 7883-92	7.8	56
324	Silver complexation and tandem mass spectrometry for differentiation of isomeric flavonoid diglycosides. <i>Analytical Chemistry</i> , 2005 , 77, 1761-70	7.8	56
323	Structural Characterization of Dihydrofolate Reductase Complexes by Top-Down Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9128-35	16.4	54
322	Metal complexation reactions of quinolone antibiotics in a quadrupole ion trap. <i>Analytical Chemistry</i> , 1997 , 69, 1147-55	7.8	54
321	Tyrosine sulfation in a Gram-negative bacterium. <i>Nature Communications</i> , 2012 , 3, 1153	17.4	52
320	193 nm ultraviolet photodissociation of deprotonated sialylated oligosaccharides. <i>Analytical Chemistry</i> , 2011 , 83, 8192-200	7.8	52
319	Evaluation of binding selectivities of caged crown ligands toward heavy metals by electrospray ionization/quadrupole ion trap mass spectrometry. <i>Analytical Chemistry</i> , 2000 , 72, 2433-45	7.8	52
318	Extracellular zinc induces phosphoethanolamine addition to <i>Pseudomonas aeruginosa</i> lipid A via the ColRS two-component system. <i>Molecular Microbiology</i> , 2015 , 97, 166-78	4.1	51
317	Novel guanosine-cytidine dinucleoside that self-assembles into a trimeric supramolecule. <i>Organic Letters</i> , 2003 , 5, 2627-30	6.2	51
316	Differentiation of phosphorylated and unphosphorylated peptides by high-performance liquid chromatography-electrospray ionization-infrared multiphoton dissociation in a quadrupole ion trap. <i>Analytical Chemistry</i> , 2005 , 77, 5726-34	7.8	50

315	193 nm Ultraviolet Photodissociation Mass Spectrometry of Tetrameric Protein Complexes Provides Insight into Quaternary and Secondary Protein Topology. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10849-59	16.4	50
314	EptC of <i>Campylobacter jejuni</i> mediates phenotypes involved in host interactions and virulence. <i>Infection and Immunity</i> , 2013 , 81, 430-40	3.7	49
313	ZMYM3 regulates BRCA1 localization at damaged chromatin to promote DNA repair. <i>Genes and Development</i> , 2017 , 31, 260-274	12.6	47
312	Characterization of Therapeutic Monoclonal Antibodies at the Subunit-Level using Middle-Down 193 nm Ultraviolet Photodissociation. <i>Analytical Chemistry</i> , 2016 , 88, 4004-13	7.8	47
311	Desorption Electrospray Ionization Coupled with Ultraviolet Photodissociation for Characterization of Phospholipid Isomers in Tissue Sections. <i>Analytical Chemistry</i> , 2018 , 90, 10100-10104	7.8	47
310	Metal complexation of thiacrown ether macrocycles by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2002 , 74, 4423-33	7.8	47
309	Structural characterization and detection of kale flavonoids by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2003 , 75, 6401-7	7.8	47
308	Systematic bromodomain protein screens identify homologous recombination and R-loop suppression pathways involved in genome integrity. <i>Genes and Development</i> , 2019 , 33, 1751-1774	12.6	47
307	Identification of isomeric flavonoid glucuronides in urine and plasma by metal complexation and LC-ESI-MS/MS. <i>Journal of Mass Spectrometry</i> , 2006 , 41, 911-20	2.2	46
306	Synthesis and characterization of insulin-transferrin conjugates. <i>Bioconjugate Chemistry</i> , 2006 , 17, 1376-84	8.5	46
305	MS(n) characterization of protonated cyclic peptides and metal complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 1039-54	3.5	46
304	193 nm ultraviolet photodissociation mass spectrometry for the structural elucidation of lipid A compounds in complex mixtures. <i>Analytical Chemistry</i> , 2014 , 86, 2138-45	7.8	45
303	Evaluation of metal complexation as an alternative to protonation for electrospray ionization of pharmaceutical compounds. <i>Journal of the American Society for Mass Spectrometry</i> , 1998 , 9, 463-472	3.5	45
302	Ultraviolet photodissociation at 355 nm of fluorescently labeled oligosaccharides. <i>Analytical Chemistry</i> , 2008 , 80, 5186-96	7.8	45
301	Threshold dissociation and molecular modeling of transition metal complexes of flavonoids. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 139-51	3.5	45
300	Characterization of the reactive and dissociative behavior of transition metal oxide cluster ions in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 1991 , 2, 212-9	3.5	45
299	Energy-resolved collisional activation of dimethyl phosphonate and dimethyl phosphite ions in a quadrupole ion trap and a triple quadrupole mass spectrometer. <i>Organic Mass Spectrometry</i> , 1988 , 23, 6-9		45
298	Structural characterization of gangliosides and glycolipids via ultraviolet photodissociation mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 10399-407	7.8	44

297	An equilibrium partitioning model for predicting response to host-guest complexation in electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2003 , 75, 1828-36	7.8	44
296	Determination of alkali metal ion binding selectivities of calixarenes by matrix-assisted laser desorption ionization and electrospray ionization in a quadrupole ion trap. <i>International Journal of Mass Spectrometry</i> , 1999 , 193, 197-204	1.9	44
295	Evolving tRNA(Sec) for efficient canonical incorporation of selenocysteine. <i>Journal of the American Chemical Society</i> , 2015 , 137, 46-9	16.4	43
294	Collisionally activated dissociation and infrared multiphoton dissociation of oligonucleotides in a quadrupole ion trap. <i>Analytical Biochemistry</i> , 2004 , 326, 200-10	3.1	43
293	Characterization of erythromycin analogs by collisional activated dissociation and infrared multiphoton dissociation in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2002 , 13, 630-49	3.5	43
292	Threshold dissociation energies of protonated amine/polyether complexes in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 2003 , 14, 383-92	3.5	43
291	Analysis of fire ant pesticides in water by solid-phase microextraction and gas chromatography/mass spectrometry or high-performance liquid chromatography/mass spectrometry. <i>Analytica Chimica Acta</i> , 2001 , 436, 11-20	6.6	43
290	IR and UV photodissociation as analytical tools for characterizing lipid A structures. <i>Analytical Chemistry</i> , 2011 , 83, 5107-13	7.8	42
289	Simplifying fragmentation patterns of multiply charged peptides by N-terminal derivatization and electron transfer collision activated dissociation. <i>Analytical Chemistry</i> , 2009 , 81, 3645-53	7.8	42
288	Evaluation of binding selectivities of bis-crowned clefts by electrospray ionization/quadrupole ion trap mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1998 , 33, 721-728	2.2	42
287	Evaluation of complexes of DNA duplexes and novel benzoxazoles or benzimidazoles by electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 1593-603	3.5	42
286	Ion Activation Methods for Peptides and Proteins. <i>Analytical Chemistry</i> , 2020 , 92, 227-251	7.8	42
285	Antimicrobial peptide resistance of <i>Vibrio cholerae</i> results from an LPS modification pathway related to nonribosomal peptide synthetases. <i>ACS Chemical Biology</i> , 2014 , 9, 2382-92	4.9	41
284	Evaluation of DNA/Ligand interactions by electrospray ionization mass spectrometry. <i>Annual Review of Analytical Chemistry</i> , 2010 , 3, 67-87	12.5	40
283	Characterization of flavonoids by aluminum complexation and collisionally activated dissociation. <i>Journal of Mass Spectrometry</i> , 2005 , 40, 350-63	2.2	40
282	Comparison of infrared multiphoton dissociation and collision-induced dissociation of supercharged peptides in ion traps. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 349-358	3.5	39
281	Characterization of unique modification of flagellar rod protein FlgG by <i>Campylobacter jejuni</i> lipid A phosphoethanolamine transferase, linking bacterial locomotion and antimicrobial peptide resistance. <i>Journal of Biological Chemistry</i> , 2012 , 287, 3326-36	5.4	39
280	Infrared multiphoton dissociation for enhanced de novo sequence interpretation of N-terminal sulfonated peptides in a quadrupole ion trap. <i>Analytical Chemistry</i> , 2006 , 78, 6855-62	7.8	39

279	Study of diketone/metal ion complexes by electrospray ionization mass spectrometry: Influence of Keto-Enol tautomerism and chelation. <i>Journal of the American Society for Mass Spectrometry</i> , 1999 , 10, 402-413	3.5	39
278	Gas-Phase Complexation of Monopositive Alkaline Earth Metal Ions with Polyethers: Comparison with Alkali Metal Ion and Aluminum Ion Complexations. <i>Journal of the American Chemical Society</i> , 1994 , 116, 6418-6426	16.4	39
277	Synthesis and Chemistry of Perfluoro Macrocycles. <i>Journal of the American Chemical Society</i> , 1994 , 116, 5172-5179	16.4	39
276	Direct identification of tyrosine sulfation by using ultraviolet photodissociation mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 1461-71	3.5	38
275	Shedding light on the frontier of photodissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 197-206	3.5	38
274	Structural heterogeneity in the intrinsically disordered RNA polymerase II C-terminal domain. <i>Nature Communications</i> , 2017 , 8, 15231	17.4	37
273	Probing the Interaction of Aspergillomarasmine A with Metallo- β -lactamases NDM-1, VIM-2, and IMP-7. <i>ACS Infectious Diseases</i> , 2018 , 4, 135-145	5.5	37
272	Charge site assignment in native proteins by ultraviolet photodissociation (UVPD) mass spectrometry. <i>Analyst, The</i> , 2016 , 141, 166-76	5	37
271	Infrared multiphoton dissociation of peptide cations in a dual pressure linear ion trap mass spectrometer. <i>Analytical Chemistry</i> , 2009 , 81, 8109-18	7.8	37
270	Isolation and chemical characterization of lipid A from gram-negative bacteria. <i>Journal of Visualized Experiments</i> , 2013 , e50623	1.6	36
269	Hybrid activation methods for elucidating nucleic acid modifications. <i>Analytical Chemistry</i> , 2011 , 83, 303-18	3.8	36
268	Screening flavonoid metabolites of naringin and narirutin in urine after human consumption of grapefruit juice by LC-MS and LC-MS/MS. <i>Analyst, The</i> , 2004 , 129, 1227-33	5	36
267	Determination of Binding Selectivities by Electrospray Ionization Mass Spectrometry. <i>Structural Chemistry</i> , 1999 , 10, 213-220	1.8	36
266	Collisionally Activated Dissociation of Transition Metal Ion/Polyether Complexes in a Quadrupole Ion Trap. <i>Journal of the American Chemical Society</i> , 1996 , 118, 9131-9138	16.4	36
265	Analysis of protonated and alkali metal cationized aminoglycoside antibiotics by collision-activated dissociation and infrared multi-photon dissociation in the quadrupole ion trap. <i>Journal of Mass Spectrometry</i> , 2000 , 35, 1011-24	2.2	35
264	Selective formation of molecular oxygen/perfluoro crown ether adduct ions in the gas phase. <i>Journal of the American Chemical Society</i> , 1991 , 113, 5913-5914	16.4	35
263	The natural representation of real numbers. <i>Computers and Mathematics With Applications</i> , 1993 , 25, 3-14	2.7	35
262	193 nm Ultraviolet Photodissociation Mass Spectrometry for Phosphopeptide Characterization in the Positive and Negative Ion Modes. <i>Journal of Proteome Research</i> , 2016 , 15, 2739-48	5.6	34

261	Hybridizing ultraviolet photodissociation with electron transfer dissociation for intact protein characterization. <i>Analytical Chemistry</i> , 2014 , 86, 10970-7	7.8	34
260	Covalent inhibition of New Delhi metallo-β-lactamase-1 (NDM-1) by cefaclor. <i>ChemBioChem</i> , 2014 , 15, 2541-8	3.8	34
259	Characterization of oligodeoxynucleotides and modifications by 193 nm photodissociation and electron photodetachment dissociation. <i>Analytical Chemistry</i> , 2010 , 82, 7218-26	7.8	34
258	Top-Down Characterization of Heavily Modified Histones Using 193 nm Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of Proteome Research</i> , 2018 , 17, 1138-1145	5.6	33
257	Top-down 193-nm ultraviolet photodissociation mass spectrometry for simultaneous determination of polyubiquitin chain length and topology. <i>Analytical Chemistry</i> , 2015 , 87, 1812-20	7.8	33
256	Electrospray ionization mass spectrometric detection of self-assembly of a crown ether complex directed by π-stacking interactions. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 1162-1171	3.5	33
255	Characterization of β-lactams by photodissociation and collision-activated dissociation in a quadrupole ion trap. <i>Journal of Mass Spectrometry</i> , 1998 , 33, 705-712	2.2	33
254	Gas-Phase Chelation Reactions of Monopositive Cations with Heteroaromatic Ligands. <i>Inorganic Chemistry</i> , 1995 , 34, 615-621	5.1	33
253	Infrared multiphoton dissociation of duplex DNA/drug complexes in a quadrupole ion trap. <i>Analytical Chemistry</i> , 2007 , 79, 2067-77	7.8	32
252	Influence of initial charge state on fragmentation patterns for noncovalent drug/DNA duplex complexes. <i>Journal of Mass Spectrometry</i> , 2005 , 40, 1362-71	2.2	32
251	Detection of the isoflavone aglycones genistein and daidzein in urine using solid-phase microextraction-high-performance liquid chromatography-electrospray ionization mass spectrometry. <i>Biomedical Applications</i> , 2001 , 759, 33-41		32
250	Interlaboratory Study for Characterizing Monoclonal Antibodies by Top-Down and Middle-Down Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 1783-1802	3.5	32
249	An altered zinc-binding site confers resistance to a covalent inactivator of New Delhi metallo-beta-lactamase-1 (NDM-1) discovered by high-throughput screening. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 3138-46	3.4	31
248	The outer membrane of Gram-negative bacteria: lipid A isolation and characterization. <i>Methods in Molecular Biology</i> , 2013 , 966, 239-258	1.4	31
247	Photodissociation of non-covalent peptide-crown ether complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 257-60	3.5	31
246	LC-MS ⁿ methods for saccharide characterization of monoglycosyl flavonoids using postcolumn manganese complexation. <i>Analytical Chemistry</i> , 2005 , 77, 1883-90	7.8	31
245	Determination of alkali metal binding selectivities of caged crown ligands by electrospray ionization quadrupole ion trap mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2001 , 204, 133-142	1.9	31
244	Comparison of Glycopeptide Fragmentation by Collision Induced Dissociation and Ultraviolet Photodissociation. <i>International Journal of Mass Spectrometry</i> , 2015 , 377, 385-392	1.9	30

243	Implementing photodissociation in an Orbitrap mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 1105-8	3.5	30
242	The influence of material and mesh characteristics on transmission mode desorption electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 584-92	3.5	30
241	Dissociation of polyether-transition metal ion dimer complexes in a quadrupole ion trap. <i>Journal of the American Society for Mass Spectrometry</i> , 1997 , 8, 620-629	3.5	30
240	Gas-phase stability of G-quadruplex DNA determined by electrospray ionization tandem mass spectrometry and molecular dynamics simulations. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 1760-73	3.5	30
239	Evaluation of alkali metal binding selectivities of caged aza-crown ether ligands by microelectrospray ionization/quadrupole ion trap mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2000 , 11, 884-91	3.5	30
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