

Joseph A Loo

List of Publications by Citations

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299
papers

20,879
citations

82
h-index

136
g-index

458
ext. papers

23,170
ext. citations

7.1
avg, IF

6.75
L-index

#	Paper	IF	Citations
299	Studying noncovalent protein complexes by electrospray ionization mass spectrometry. <i>Mass Spectrometry Reviews</i> , 1997 , 16, 1-23	11	988
298	New developments in biochemical mass spectrometry: electrospray ionization. <i>Analytical Chemistry</i> , 1990 , 62, 882-99	7.8	947
297	Principles and practice of electrospray ionization mass spectrometry for large polypeptides and proteins. <i>Mass Spectrometry Reviews</i> , 1991 , 10, 359-452	11	506
296	Target identification using drug affinity responsive target stability (DARTS). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21984-9	11.5	504
295	Human body fluid proteome analysis. <i>Proteomics</i> , 2006 , 6, 6326-53	4.8	424
294	Salivary proteomics for oral cancer biomarker discovery. <i>Clinical Cancer Research</i> , 2008 , 14, 6246-52	12.9	393
293	Electrospray ionization mass spectrometry: a technology for studying noncovalent macromolecular complexes. <i>International Journal of Mass Spectrometry</i> , 2000 , 200, 175-186	1.9	371
292	How many human proteoforms are there?. <i>Nature Chemical Biology</i> , 2018 , 14, 206-214	11.7	324
291	The proteomes of human parotid and submandibular/sublingual gland salivas collected as the ductal secretions. <i>Journal of Proteome Research</i> , 2008 , 7, 1994-2006	5.6	321
290	Use of proteomics to demonstrate a hierarchical oxidative stress response to diesel exhaust particle chemicals in a macrophage cell line. <i>Journal of Biological Chemistry</i> , 2003 , 278, 50781-90	5.4	305
289	Large-scale identification of proteins in human salivary proteome by liquid chromatography/mass spectrometry and two-dimensional gel electrophoresis-mass spectrometry. <i>Proteomics</i> , 2005 , 5, 1714-28	4.8	296
288	Salivary proteomic and genomic biomarkers for primary Sjögren's syndrome. <i>Arthritis and Rheumatism</i> , 2007 , 56, 3588-600		285
287	Solvent-induced conformational changes of polypeptides probed by electrospray-ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1991 , 5, 101-5	2.2	251
286	Effect of reducing disulfide-containing proteins on electrospray ionization mass spectra. <i>Analytical Chemistry</i> , 1990 , 62, 693-8	7.8	250
285	Cardiolipin defines the interactome of the major ADP/ATP carrier protein of the mitochondrial inner membrane. <i>Journal of Cell Biology</i> , 2008 , 182, 937-50	7.3	244
284	Tyrosine kinase inhibitors. 17. Irreversible inhibitors of the epidermal growth factor receptor: 4-(phenylamino)quinazoline- and 4-(phenylamino)pyrido[3,2-d]pyrimidine-6-acrylamides bearing additional solubilizing functions. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 1380-97	8.3	243
283	Digital microfluidics with in-line sample purification for proteomics analyses with MALDI-MS. <i>Analytical Chemistry</i> , 2005 , 77, 534-40	7.8	228

282	Electrowetting-based microfluidics for analysis of peptides and proteins by matrix-assisted laser desorption/ionization mass spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 4833-8	7.8	228
281	Tandem mass spectrometry of very large molecules. 2. Dissociation of multiply charged proline-containing proteins from electrospray ionization. <i>Analytical Chemistry</i> , 1993 , 65, 425-38	7.8	227
280	An integrated digital microfluidic chip for multiplexed proteomic sample preparation and analysis by MALDI-MS. <i>Lab on A Chip</i> , 2006 , 6, 1213-9	7.2	226
279	Lysine-specific molecular tweezers are broad-spectrum inhibitors of assembly and toxicity of amyloid proteins. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16958-69	16.4	219
278	Heme is involved in microRNA processing. <i>Nature Structural and Molecular Biology</i> , 2007 , 14, 23-9	17.6	216
277	Carbohydrate-binding molecules inhibit viral fusion and entry by crosslinking membrane glycoproteins. <i>Nature Immunology</i> , 2005 , 6, 995-1001	19.1	215
276	Collisional effects on the charge distribution of ions from large molecules, formed by electrospray-ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1988 , 2, 207-210 ²	20.2	205
275	Network organization of the huntingtin proteomic interactome in mammalian brain. <i>Neuron</i> , 2012 , 75, 41-57	13.9	204
274	Enhanced FASP (eFASP) to increase proteome coverage and sample recovery for quantitative proteomic experiments. <i>Journal of Proteome Research</i> , 2014 , 13, 1885-95	5.6	202
273	Peptide and protein analysis by electrospray ionization-mass spectrometry and capillary electrophoresis-mass spectrometry. <i>Analytical Biochemistry</i> , 1989 , 179, 404-12	3.1	198
272	Identification of N-linked glycoproteins in human saliva by glycoprotein capture and mass spectrometry. <i>Journal of Proteome Research</i> , 2006 , 5, 1493-503	5.6	185
271	Tandem mass spectrometry of very large molecules: serum albumin sequence information from multiply charged ions formed by electrospray ionization. <i>Analytical Chemistry</i> , 1991 , 63, 2488-99	7.8	178
270	Electrospray ionization mass spectrometry and ion mobility analysis of the 20S proteasome complex. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 998-1008	3.5	176
269	Systems biology approach in <i>Chlamydomonas</i> reveals connections between copper nutrition and multiple metabolic steps. <i>Plant Cell</i> , 2011 , 23, 1273-92	11.6	170
268	ADAMTS1 mediates the release of antiangiogenic polypeptides from TSP1 and 2. <i>EMBO Journal</i> , 2006 , 25, 5270-83	13	168
267	A heparin-mimicking polymer conjugate stabilizes basic fibroblast growth factor. <i>Nature Chemistry</i> , 2013 , 5, 221-7	17.6	163
266	Top-down ESI-ECD-FT-ICR mass spectrometry localizes noncovalent protein-ligand binding sites. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14432-3	16.4	160
265	New reagents for increasing ESI multiple charging of proteins and protein complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 127-31	3.5	143

264	A new strategy for the synthesis of glycoproteins. <i>Science</i> , 2004 , 303, 371-3	33.3	143
263	Systematic comparison of the human saliva and plasma proteomes. <i>Proteomics - Clinical Applications</i> , 2009 , 3, 116-134	3.1	142
262	Conserved SMP domains of the ERMES complex bind phospholipids and mediate tether assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3179-88	11.5	140
261	Human Proteinpedia enables sharing of human protein data. <i>Nature Biotechnology</i> , 2008 , 26, 164-7	44.5	138
260	Best practices and benchmarks for intact protein analysis for top-down mass spectrometry. <i>Nature Methods</i> , 2019 , 16, 587-594	21.6	137
259	Gas-Phase Coordination Properties of Zn ²⁺ , Cu ²⁺ , Ni ²⁺ , and Co ²⁺ with Histidine-Containing Peptides. <i>Journal of the American Chemical Society</i> , 1995 , 117, 11314-11319	16.4	136
258	Sizing large proteins and protein complexes by electrospray ionization mass spectrometry and ion mobility. <i>Journal of the American Society for Mass Spectrometry</i> , 2007 , 18, 1206-16	3.5	134
257	Preservation of non-covalent associations in electrospray ionization mass spectrometry: Multiply charged polypeptide and protein dimers. <i>Organic Mass Spectrometry</i> , 1992 , 27, 811-821		132
256	Increasing charge while preserving noncovalent protein complexes for ESI-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 593-6	3.5	130
255	Discovery of selective, small-molecule inhibitors of RNA complexes--I. The Tat protein/TAR RNA complexes required for HIV-1 transcription. <i>Bioorganic and Medicinal Chemistry</i> , 1997 , 5, 1173-84	3.4	129
254	Proinflammatory stimuli induce IKKalpha-mediated phosphorylation of PIAS1 to restrict inflammation and immunity. <i>Cell</i> , 2007 , 129, 903-14	56.2	128
253	SAG, a novel zinc RING finger protein that protects cells from apoptosis induced by redox agents. <i>Molecular and Cellular Biology</i> , 1999 , 19, 3145-55	4.8	125
252	A novel "molecular tweezer" inhibitor of Bsynuclein neurotoxicity in vitro and in vivo. <i>Neurotherapeutics</i> , 2012 , 9, 464-76	6.4	123
251	Phosphorylation of the ATP-binding loop directs oncogenicity of drug-resistant BCR-ABL mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19466-71	11.5	121
250	Fyn and SRC are effectors of oncogenic epidermal growth factor receptor signaling in glioblastoma patients. <i>Cancer Research</i> , 2009 , 69, 6889-98	10.1	120
249	An integrated native mass spectrometry and top-down proteomics method that connects sequence to structure and function of macromolecular complexes. <i>Nature Chemistry</i> , 2018 , 10, 139-148	17.6	119
248	The heat shock protein inhibitor Quercetin attenuates hepatitis C virus production. <i>Hepatology</i> , 2009 , 50, 1756-64	11.2	115
247	The cell-shape protein MreC interacts with extracytoplasmic proteins including cell wall assembly complexes in <i>Caulobacter crescentus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 18602-7	11.5	113

246	A study of Src SH2 domain protein-phosphopeptide binding interactions by electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1997 , 8, 234-243	3.5	112
245	Biomarkers to predict antidepressant response. <i>Current Psychiatry Reports</i> , 2010 , 12, 553-62	9.1	111
244	EGFR and HER2 receptor kinase signaling mediate epithelial cell invasion by <i>Candida albicans</i> during oropharyngeal infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 14194-9	11.5	110
243	Interaction of angiotensin peptides and zinc metal ions probed by electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1994 , 5, 959-65	3.5	107
242	Subcellular metal imaging identifies dynamic sites of Cu accumulation in <i>Chlamydomonas</i> . <i>Nature Chemical Biology</i> , 2014 , 10, 1034-42	11.7	106
241	Structure of <i>Tetrahymena</i> telomerase reveals previously unknown subunits, functions, and interactions. <i>Science</i> , 2015 , 350, aab4070	33.3	105
240	Investigation of stable and transient protein-protein interactions: Past, present, and future. <i>Proteomics</i> , 2013 , 13, 538-57	4.8	105
239	Non-mitochondrial complex I proteins in a hydrogenosomal oxidoreductase complex. <i>Nature</i> , 2004 , 431, 1103-7	50.4	105
238	Calcium stoichiometry determination for calcium binding proteins by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 1994 , 66, 4190-4	7.8	105
237	Systems and trans-system level analysis identifies conserved iron deficiency responses in the plant lineage. <i>Plant Cell</i> , 2012 , 24, 3921-48	11.6	104
236	Top-Down Mass Spectrometry of Supercharged Native Protein-Ligand Complexes. <i>International Journal of Mass Spectrometry</i> , 2011 , 300, 118-122	1.9	102
235	Site-specific incorporation of a redox-active amino acid into proteins. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14662-3	16.4	101
234	What protein charging (and supercharging) reveal about the mechanism of electrospray ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 1675-93	3.5	100
233	Genetic and proteomic evidence for roles of <i>Drosophila</i> SUMO in cell cycle control, Ras signaling, and early pattern formation. <i>PLoS ONE</i> , 2009 , 4, e5905	3.7	100
232	Multiply charged negative ions by electrospray ionization of polypeptides and proteins. <i>Analytical Chemistry</i> , 1992 , 64, 81-8	7.8	100
231	Human saliva proteome analysis and disease biomarker discovery. <i>Expert Review of Proteomics</i> , 2007 , 4, 531-8	4.2	99
230	Human saliva proteome analysis. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1098, 323-9	6.5	94
229	Biophysical characterization of zinc ejection from HIV nucleocapsid protein by anti-HIV 2,2'-dithiobis[benzamides] and benzisothiazolones. <i>Journal of Medicinal Chemistry</i> , 1996 , 39, 4313-20	8.3	91

228	Native top-down electrospray ionization-mass spectrometry of 158 kDa protein complex by high-resolution Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 317-20	7.8	90
227	Incubated protein reduction and digestion on an electrowetting-on-dielectric digital microfluidic chip for MALDI-MS. <i>Analytical Chemistry</i> , 2010 , 82, 9932-7	7.8	90
226	Capillary isotachopheresis/mass spectrometry. <i>Analytical Chemistry</i> , 1989 , 61, 228-232	7.8	90
225	Observation of a noncovalent ribonuclease S-protein/S-peptide complex by electrospray ionization mass spectrometry. <i>Journal of the American Chemical Society</i> , 1993 , 115, 4391-4392	16.4	88
224	Mass spectrometry of proteins directly from polyacrylamide gels. <i>Analytical Chemistry</i> , 1996 , 68, 1910-7	7.8	86
223	Negative feedback in noncanonical NF-kappaB signaling modulates NIK stability through IKKalpha-mediated phosphorylation. <i>Science Signaling</i> , 2010 , 3, ra41	8.8	85
222	Direct ionization of large proteins and protein complexes by desorption electrospray ionization-mass spectrometry. <i>Analytical Chemistry</i> , 2011 , 83, 6468-73	7.8	85
221	Mass spectrometry of protein-ligand complexes: enhanced gas-phase stability of ribonuclease-nucleotide complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 1199-208	3.5	85
220	Structural characterization of unsaturated phosphatidylcholines using traveling wave ion mobility spectrometry. <i>Analytical Chemistry</i> , 2009 , 81, 8289-97	7.8	83
219	The <i>Trichomonas vaginalis</i> hydrogenosome proteome is highly reduced relative to mitochondria, yet complex compared with mitosomes. <i>International Journal for Parasitology</i> , 2011 , 41, 1421-34	4.3	82
218	High-resolution tandem mass spectra of 37-67 kDa proteins. <i>Journal of Mass Spectrometry</i> , 1995 , 30, 39-42	2.2	82
217	Synthesis of Maleimide-End Functionalized Star Polymers and Multimeric Protein-Polymer Conjugates. <i>Macromolecules</i> , 2009 , 42, 8028-8033	5.5	81
216	Cardiolipin defines the interactome of the major ADP/ATP carrier protein of the mitochondrial inner membrane. <i>Journal of Cell Biology</i> , 2012 , 197, 1029-1029	7.3	78
215	Establishing the fitness for purpose of mass spectrometric methods. <i>Journal of the American Society for Mass Spectrometry</i> , 2003 , 14, 528-41	3.5	76
214	Native protein MS and ion mobility large flying proteins with ESI. <i>Analytical Chemistry</i> , 2007 , 79, 1778-84	7.8	75
213	Amino acid position-specific contributions to amyloid beta-protein oligomerization. <i>Journal of Biological Chemistry</i> , 2009 , 284, 23580-91	5.4	71
212	Observation of large subunit protein complexes by electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1995 , 30, 180-183	2.2	71
211	Molecular basis for preventing β -synuclein aggregation by a molecular tweezer. <i>Journal of Biological Chemistry</i> , 2014 , 289, 10727-10737	5.4	70

210	Reactive-electrospray-assisted laser desorption/ionization for characterization of peptides and proteins. <i>Analytical Chemistry</i> , 2008 , 80, 6995-7003	7.8	68
209	Probing the mechanism of electron capture and electron transfer dissociation using tags with variable electron affinity. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5444-59	16.4	66
208	The proteome of copper, iron, zinc, and manganese micronutrient deficiency in <i>Chlamydomonas reinhardtii</i> . <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 65-86	7.6	65
207	Virtual 2-D gel electrophoresis: visualization and analysis of the <i>E. coli</i> proteome by mass spectrometry. <i>Analytical Chemistry</i> , 2001 , 73, 4063-70	7.8	64
206	Protein structural effects in gas phase ion/molecule reactions with diethylamine. <i>Rapid Communications in Mass Spectrometry</i> , 1992 , 6, 159-65	2.2	64
205	Elucidating the site of protein-ATP binding by top-down mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 899-907	3.5	62
204	Integration of protein processing steps on a droplet microfluidics platform for MALDI-MS analysis. <i>Analytical Chemistry</i> , 2010 , 82, 2095-101	7.8	61
203	Oxidative stress and asthma: proteome analysis of chitinase-like proteins and FIZZ1 in lung tissue and bronchoalveolar lavage fluid. <i>Journal of Proteome Research</i> , 2009 , 8, 1631-8	5.6	61
202	HIV-1 Tat peptide binding to TAR RNA by electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 1997 , 69, 5130-5	7.8	60
201	Top or Middle? Up or Down? Toward a Standard Lexicon for Protein Top-Down and Allied Mass Spectrometry Approaches. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 1149-1157	3.5	59
200	Zinc deficiency impacts CO ₂ assimilation and disrupts copper homeostasis in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2013 , 288, 10672-83	5.4	59
199	Fe sparing and Fe recycling contribute to increased superoxide dismutase capacity in iron-starved <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2012 , 24, 2649-65	11.6	59
198	High sensitivity mass spectrometric methods for obtaining intact molecular weights from gel-separated proteins. <i>Electrophoresis</i> , 1999 , 20, 743-8	3.6	59
197	Studying aminoglycoside antibiotic binding to HIV-1 TAR RNA by electrospray ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 1999 , 193, 115-122	1.9	58
196	Revealing ligand binding sites and quantifying subunit variants of noncovalent protein complexes in a single native top-down FTICR MS experiment. <i>Journal of the American Society for Mass Spectrometry</i> , 2014 , 25, 2060-8	3.5	57
195	Connecting actin monomers by iso-peptide bond is a toxicity mechanism of the <i>Vibrio cholerae</i> MARTX toxin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18537-42	11.5	57
194	Salt Bridge Rearrangement (SaBRe) Explains the Dissociation Behavior of Noncovalent Complexes. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 975-90	3.5	56
193	Higher Order Structure in the Gas Phase Reflects Solution Structure. <i>Journal of the American Chemical Society</i> , 1998 , 120, 4542-4543	16.4	55

192	Electrospray-assisted laser desorption/ionization and tandem mass spectrometry of peptides and proteins. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 2541-6	2.2	54
191	Identification of Coq11, a new coenzyme Q biosynthetic protein in the CoQ-synthome in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2015 , 290, 7517-34	5.4	53
190	Primary to quaternary protein structure determination with electrospray ionization and magnetic sector mass spectrometry. <i>Organic Mass Spectrometry</i> , 1993 , 28, 1640-1649		53
189	Ion mobility-mass spectrometry of phosphorylase B ions generated with supercharging reagents but in charge-reducing buffer. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13476-83	3.6	52
188	Bioengineered vaults: self-assembling protein shell-lipophilic core nanoparticles for drug delivery. <i>ACS Nano</i> , 2014 , 8, 7723-32	16.7	49
187	Sensitivity considerations for large molecule detection by capillary electrophoresis-electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 1990 , 516, 157-65	4.5	49
186	Anthrax lethal toxin induced lysosomal membrane permeabilization and cytosolic cathepsin release is Nlrp1b/Nalp1b-dependent. <i>PLoS ONE</i> , 2009 , 4, e7913	3.7	47
185	Radical solutions: Principles and application of electron-based dissociation in mass spectrometry-based analysis of protein structure. <i>Mass Spectrometry Reviews</i> , 2018 , 37, 750-771	11	46
184	Identification of tetranectin as a potential biomarker for metastatic oral cancer. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 3106-21	6.3	46
183	Protein-Sequence Polymorphisms and Post-translational Modifications in Proteins from Human Saliva using Top-Down Fourier-transform Ion Cyclotron Resonance Mass Spectrometry. <i>International Journal of Mass Spectrometry</i> , 2007 , 268, 190-197	1.9	46
182	Oligomers of ERBB3 have two distinct interfaces that differ in their sensitivity to disruption by heregulin. <i>Journal of Biological Chemistry</i> , 2005 , 280, 8238-47	5.4	46
181	Collisionally activated dissociation and tandem mass spectrometry of intact hemoglobin beta-chain variant proteins with electrospray ionization. <i>Biological Mass Spectrometry</i> , 1993 , 22, 112-20		46
180	Structure of the dimerization domain of DiGeorge critical region 8. <i>Protein Science</i> , 2010 , 19, 1354-65	6.3	45
179	<i>Staphylococcus aureus</i> uses a novel multidomain receptor to break apart human hemoglobin and steal its heme. <i>Journal of Biological Chemistry</i> , 2013 , 288, 1065-78	5.4	44
178	Capillary isotachopheresis with UV and tandem mass spectrometric detection for peptides and proteins. <i>Electrophoresis</i> , 1990 , 11, 709-17	3.6	44
177	Fibroblast growth factor 2 dimer with superagonist <i>in vitro</i> activity improves granulation tissue formation during wound healing. <i>Biomaterials</i> , 2016 , 81, 157-168	15.6	43
176	Identification and solution structure of a highly conserved C-terminal domain within ORF1p required for retrotransposition of long interspersed nuclear element-1. <i>Journal of Biological Chemistry</i> , 2007 , 282, 24893-904	5.4	43
175	Determining calcium-binding stoichiometry and cooperativity of parvalbumin and calmodulin by mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1995 , 30, 1076-1082	2.2	43

174	Pro-oxidative DEP chemicals induce heat shock proteins and an unfolding protein response in a bronchial epithelial cell line as determined by DIGE analysis. <i>Proteomics</i> , 2007 , 7, 3906-18	4.8	42
173	Expression, purification, and biochemical characterization of SAG, a ring finger redox-sensitive protein. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 193-202	7.8	42
172	Structural Characterization of Native Proteins and Protein Complexes by Electron Ionization Dissociation-Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 2731-2738	7.8	41
171	Mapping of drebrin binding site on F-actin. <i>Journal of Molecular Biology</i> , 2010 , 398, 542-54	6.5	41
170	Electrospray-assisted laser desorption ionization mass spectrometry (ELDI-MS) with an infrared laser for characterizing peptides and proteins. <i>Analyst, The</i> , 2010 , 135, 767-72	5	41
169	Positive ion electrospray ionization mass spectrometry of oligonucleotides. <i>Journal of the American Society for Mass Spectrometry</i> , 1997 , 8, 90-95	3.5	40
168	Nitrotyrosine-modified proteins and oxidative stress induced by diesel exhaust particles. <i>Electrophoresis</i> , 2005 , 26, 280-92	3.6	40
167	Designer reagents for mass spectrometry-based proteomics: clickable cross-linkers for elucidation of protein structures and interactions. <i>Analytical Chemistry</i> , 2012 , 84, 2662-9	7.8	39
166	Use of a fluorescent phosphoprotein dye to characterize oxidative stress-induced signaling pathway components in macrophage and epithelial cultures exposed to diesel exhaust particle chemicals. <i>Electrophoresis</i> , 2005 , 26, 2092-108	3.6	39
165	Drug screening of pharmaceutical discovery compounds by micro-size exclusion chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002 , 16, 85-91	2.2	38
164	Probing protein-metal ion interactions by electrospray ionization mass spectrometry: enolase and nucleocapsid protein. <i>International Journal of Mass Spectrometry</i> , 2001 , 204, 113-123	1.9	38
163	A study of the thermal denaturation of ribonuclease S by electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1994 , 5, 614-22	3.5	38
162	Native Top-Down Mass Spectrometry and Ion Mobility MS for Characterizing the Cobalt and Manganese Metal Binding of β -Synuclein Protein. <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 1870-1880	3.5	38
161	Native MS Analysis of Bacteriorhodopsin and an Empty Nanodisc by Orthogonal Acceleration Time-of-Flight, Orbitrap and Ion Cyclotron Resonance. <i>Analytical Chemistry</i> , 2016 , 88, 12427-12436	7.8	36
160	New astroglial injury-defined biomarkers for neurotrauma assessment. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 3278-3299	7.3	36
159	Glycoprofiling of the Human Salivary Proteome. <i>Clinical Proteomics</i> , 2009 , 5, 52-68	5	36
158	Confident assignment of intact mass tags to human salivary cystatins using top-down Fourier-transform ion cyclotron resonance mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 908-17	3.5	36
157	Cesium ion desorption ionization with Fourier transform mass spectrometry. <i>Analytical Chemistry</i> , 1987 , 59, 313-7	7.8	36

156	Traumatically injured astrocytes release a proteomic signature modulated by STAT3-dependent cell survival. <i>Glia</i> , 2016 , 64, 668-94	9	36
155	Inhibition of Huntingtin Exon-1 Aggregation by the Molecular Tweezer CLR01. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5640-5643	16.4	34
154	Enhancing Sensitivity of Liquid Chromatography-Mass Spectrometry of Peptides and Proteins Using Supercharging Agents. <i>International Journal of Mass Spectrometry</i> , 2018 , 427, 157-164	1.9	34
153	Doping control analysis of bovine hemoglobin-based oxygen therapeutics in human plasma by LC-electrospray ionization-MS/MS. <i>Analytical Chemistry</i> , 2003 , 75, 3287-93	7.8	34
152	Collisional activation and dissociation of large multiply charged proteins produced by electrospray ionization. <i>Analytica Chimica Acta</i> , 1990 , 241, 167-173	6.6	34
151	Radical directed dissociation for facile identification of iodotyrosine residues using electrospray ionization mass spectrometry. <i>Analytical Chemistry</i> , 2010 , 82, 3826-33	7.8	33
150	Application of mass spectrometry for target identification and characterization. <i>Medicinal Research Reviews</i> , 1999 , 19, 307-19	14.4	33
149	Use of electrospray ionization mass spectrometry to probe antisense peptide interactions. <i>Biological Mass Spectrometry</i> , 1994 , 23, 6-12		33
148	Effects of green tea extract on lung cancer A549 cells: proteomic identification of proteins associated with cell migration. <i>Proteomics</i> , 2009 , 9, 757-67	4.8	32
147	Mass spectrometric characterization of transferrins and their fragments derived by reduction of disulfide bonds. <i>Journal of the American Society for Mass Spectrometry</i> , 2003 , 14, 635-47	3.5	32
146	Capillary zone electrophoresis-mass spectrometry with electrospray ionization of peptides and proteins. <i>Journal of Separation Science</i> , 1989 , 1, 223-229		32
145	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
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