Roman A Zubarev

List of Publications by Year in Descending Order

282 papers	15,682 citations	62 h-index	118 g-index
321 ext. papers	17,129 ext. citations	5.9 avg, IF	6.63 L-index

#	Paper	IF	Citations
282	Single Cell Proteomics Using Multiplexed Isobaric Labeling for Mass Spectrometric Analysis. *Methods in Molecular Biology*, **2022**, 2386, 113-127	1.4	0
281	Conformational Selection in Biocatalytic Plastic Degradation by PETase. *ACS Catalysis*, **2022**, 12, 3397-3409	13.1	5
280	A "spindle and thread" mechanism unblocks p53 translation by modulating N-terminal disorder.. *Structure*, **2022**,	5.2	1
279	A mass spectrometry-based non-radioactive differential radial capillary action of ligand assay (DRaCALA) to assess ligand binding to proteins.. *Journal of Mass Spectrometry*, **2022**, 57, e4822	2.2	0
278	Comprehensive Target Screening and Cellular Profiling of the Cancer-Active Compound b-AP15 Indicate Abrogation of Protein Homeostasis and Organelle Dysfunction as the Primary Mechanism of Action.. *Frontiers in Oncology*, **2022**, 12, 852980	5.3	0
277	Ion-Based Proteome-Integrated Solubility Alteration Assays for Systemwide Profiling of Protein-Molecule Interactions.. *Analytical Chemistry*, **2022**, 94, 7066-7074	7.8	0
276	The antimicrobial drug pyrimethamine inhibits STAT3 transcriptional activity by targeting the enzyme dihydrofolate reductase.. *Journal of Biological Chemistry*, **2021**, 101531	5.4	4
275	An integrative proteomics method identifies a regulator of translation during stem cell maintenance and differentiation. *Nature Communications*, **2021**, 12, 6558	17.4	3
274	Comprehensive chemical proteomics analyses reveal that the new TRi-1 and TRi-2 compounds are more specific thioredoxin reductase 1 inhibitors than auranofin. *Redox Biology*, **2021**, 48, 102184	11.3	3
273	System-wide identification and prioritization of enzyme substrates by thermal analysis. *Nature Communications*, **2021**, 12, 1296	17.4	16
272	Polymorphic estrogen receptor binding site causes Cd2-dependent sex bias in the susceptibility to autoimmune diseases. *Nature Communications*, **2021**, 12, 5565	17.4	0
271	Bacterial citrullinated epitopes generated by infection-a missing link for ACPA production. *Annals of the Rheumatic Diseases*, **2020**, 79, 1194-1202	2.4	14
270	S100A6 is a critical regulator of hematopoietic stem cells. *Leukemia*, **2020**, 34, 3323-3337	10.7	3
269	Comprehensive chemical proteomics for target deconvolution of the redox active drug auranofin. *Redox Biology*, **2020**, 32, 101491	11.3	27
268	IgM antibodies against malondialdehyde and phosphorylcholine in different systemic rheumatic diseases. *Scientific Reports*, **2020**, 10, 11010	4.9	2
267	Lysine-specific demethylase 1A restricts ex vivo propagation of human HSCs and is a target of UM171. *Blood*, **2020**, 136, 2151-2161	2.2	12
266	DAF-16/FOXO requires Protein Phosphatase 4 to initiate transcription of stress resistance and longevity promoting genes. *Nature Communications*, **2020**, 11, 138	17.4	15

265	Thermal Proteome Profiling Identifies Oxidative-Dependent Inhibition of the Transcription of Major Oncogenes as a New Therapeutic Mechanism for Select Anticancer Compounds. *Cancer Research*, **2020**, 80, 1538-1550	10.1	9
264	Tailoring subtractive cell biopanning to identify diffuse gastric adenocarcinoma-associated antigens via human scFv antibodies. *Immunology*, **2020**, 159, 96-108	7.8	2
263	Nuclear proteome analysis of Chlamydomonas with response to CO2 limitation. *Algal Research*, **2020**, 46, 101765	5	7
262	Multiparametric Profiling of Engineered Nanomaterials: Unmasking the Surface Coating Effect. *Advanced Science*, **2020**, 7, 2002221	13.6	11
261	Histone Purification Combined with High-Resolution Mass Spectrometry to Examine Histone Post-Translational Modifications and Histone Variants in Caenorhabditis elegans. *Current Protocols in Protein Science*, **2020**, 102, e114	3.1	1
260	Slight Deuterium Enrichment in Water Acts as an Antioxidant: Is Deuterium a Cell Growth Regulator?. *Molecular and Cellular Proteomics*, **2020**, 19, 1790-1804	7.6	5
259	IL-16 processing in sentinel node regulatory T cells is a factor in bladder cancer immunity. *Scandinavian Journal of Immunology*, **2020**, 92, e12926	3.4	2
258	Changes in the plasma microvesicle proteome during the ovarian hyperstimulation phase of assisted reproductive technology. *Scientific Reports*, **2020**, 10, 13645	4.9	1
257	Vitamin D3 receptor polymorphisms regulate T cells and T cell-dependent inflammatory diseases. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 24986-24997	11.5	9
256	A Cyclic di-GMP Network Is Present in Gram-Positive and Gram-Negative Species. *ACS Infectious Diseases*, **2020**, 6, 2672-2687	5.5	4
255	Anticancer Effect of Deuterium Depleted Water - Redox Disbalance Leads to Oxidative Stress. *Molecular and Cellular Proteomics*, **2019**, 18, 2373-2387	7.6	18
254	Proteome Integral Solubility Alteration: A High-Throughput Proteomics Assay for Target Deconvolution. *Journal of Proteome Research*, **2019**, 18, 4027-4037	5.6	56
253	SpotLight Proteomics-A IgG-Enrichment Phenotype Profiling Approach with Clinical Implications. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	2
252	Posttranslational Targeting of a Recombinant Protein Promotes Its Efficient Secretion into the Escherichia coli Periplasm. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	1
251	Cationic gold nanoparticles elicit mitochondrial dysfunction: a multi-omics study. *Scientific Reports*, **2019**, 9, 4366	4.9	31
250	Repurposing of auranofin: Thioredoxin reductase remains a primary target of the drug. *Biochimie*, **2019**, 162, 46-54	4.6	61
249	Structural Basis of Cross-Reactivity of Anti-Citrullinated Protein Antibodies. *Arthritis and Rheumatology*, **2019**, 71, 210-221	9.5	33
248	The Russian Mass Spectrometry Interest Group at ASMS: Over 20 Years of Science and Water Polo. *Journal of the American Society for Mass Spectrometry*, **2019**, 30, 2178-2182	3.5	

247	Oxidative Stress Induced by the Deubiquitinase Inhibitor b-AP15 Is Associated with Mitochondrial Impairment. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 1659468	6.7	8
246	Functional Identification of Target by Expression Proteomics (FITExP) **2019**, 257-266		
245	Proteasome inhibitor b-AP15 induces enhanced proteotoxicity by inhibiting cytoprotective aggresome formation. *Cancer Letters*, **2019**, 448, 70-83	9.9	11
244	ProTargetMiner as a proteome signature library of anticancer molecules for functional discovery. *Nature Communications*, **2019**, 10, 5715	17.4	16
243	Pharmacoproteomics Profiling of Plasma From β-Thalassemia Patients in Response to Hydroxyurea Treatment. *Journal of Clinical Pharmacology*, **2019**, 59, 98-106	2.9	9
242	Proteomic Analysis of Mouse Brain Subjected to Spaceflight. *International Journal of Molecular Sciences*, **2018**, 20,	6.3	10
241	Variable domain N-linked glycosylation and negative surface charge are key features of monoclonal ACPA: Implications for B-cell selection. *European Journal of Immunology*, **2018**, 48, 1030-1045	6.1	29
240	Optimizing Recombinant Protein Production in the Escherichia coli Periplasm Alleviates Stress. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	29
239	Proteogenomics of Malignant Melanoma Cell Lines: The Effect of Stringency of Exome Data Filtering on Variant Peptide Identification in Shotgun Proteomics. *Journal of Proteome Research*, **2018**, 17, 1801-1811	5.6	10
238	Size-Dependent Hydrogen Atom Attachment to Gas-Phase Hydrogen-Deficient Polypeptide Radical Cations. *Journal of the American Chemical Society*, **2018**, 140, 531-533	16.4	6
237	Identification and characterization of antibodies elicited by human cystatin C fragment. *Journal of Molecular Recognition*, **2018**, 31, e2689	2.6	
236	The SysteMHC Atlas project. *Nucleic Acids Research*, **2018**, 46, D1237-D1247	20.1	87
235	Comparative Proteomics of Dying and Surviving Cancer Cells Improves the Identification of Drug Targets and Sheds Light on Cell Life/Death Decisions. *Molecular and Cellular Proteomics*, **2018**, 17, 1144-1155	7.6	16
234	Proteomic Identification of Heat Shock-Induced Danger Signals in a Melanoma Cell Lysate Used in Dendritic Cell-Based Cancer Immunotherapy. *Journal of Immunology Research*, **2018**, 2018, 3982942	4.5	5
233	Streptococcal Endo-β-Acetylglucosaminidase Suppresses Antibody-Mediated Inflammation. *Frontiers in Immunology*, **2018**, 9, 1623	8.4	9
232	STAT3 differential scanning fluorimetry and differential scanning light scattering assays: Addressing a missing link in the characterization of STAT3 inhibitor interactions. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 160, 80-88	3.5	11
231	Biology/Disease-Driven Initiative on Protein-Aggregation Diseases of the Human Proteome Project: Goals and Progress to Date. *Journal of Proteome Research*, **2018**, 17, 4072-4084	5.6	3
230	The deubiquitinase inhibitor b-AP15 induces strong proteotoxic stress and mitochondrial damage. *Biochemical Pharmacology*, **2018**, 156, 291-301	6	18

229	Altered Fc galactosylation in IgG is a potential serum marker for chronic lung disease. *ERJ Open Research*, **2018**, 4,	3.5	6
228	IgM antibodies against phosphorylcholine promote polarization of T regulatory cells from patients with atherosclerotic plaques, systemic lupus erythematosus and healthy donors. *Atherosclerosis*, **2018**, 268, 36-48	3.1	24
227	Small-molecule inhibitor of OGG1 suppresses proinflammatory gene expression and inflammation. *Science*, **2018**, 362, 834-839	33.3	71
226	Isotopic resonance at 370 ppm deuterium negatively affects kinetics of luciferin oxidation by luciferase. *Scientific Reports*, **2018**, 8, 16249	4.9	6
225	Patients with anti-Jo1 antibodies display a characteristic IgG Fc-glycan profile which is further enhanced in anti-Jo1 autoantibodies. *Scientific Reports*, **2018**, 8, 17958	4.9	10
224	Proteogenomics of Adenosine-to-Inosine RNA Editing in the Fruit Fly. *Journal of Proteome Research*, **2018**, 17, 3889-3903	5.6	5
223	Dynamic Proteomics Reveals High Plasticity of Cellular Proteome: Growth-Related and Drug-Induced Changes in Cancer Cells are Comparable. *Proteomics*, **2018**, 18, e1800118	4.8	6
222	SpotLight Proteomics: uncovering the hidden blood proteome improves diagnostic power of proteomics. *Scientific Reports*, **2017**, 7, 41929	4.9	18
221	Expression proteomics study to determine metallodrug targets and optimal drug combinations. *Scientific Reports*, **2017**, 7, 1590	4.9	14
220	Covariation of Peptide Abundances Accurately Reflects Protein Concentration Differences. *Molecular and Cellular Proteomics*, **2017**, 16, 936-948	7.6	36
219	Cytotoxic and Proinflammatory Effects of Metal-Based Nanoparticles on THP-1 Monocytes Characterized by Combined Proteomics Approaches. *Journal of Proteome Research*, **2017**, 16, 689-697	5.6	28
218	On the Effect of Planetary Stable Isotope Compositions on Growth and Survival of Terrestrial Organisms. *PLoS ONE*, **2017**, 12, e0169296	3.7	7
217	IgG Fc galactosylation predicts response to methotrexate in early rheumatoid arthritis. *Arthritis Research and Therapy*, **2017**, 19, 182	5.7	25
216	HydrogenDeuterium Exchange Mass Spectrometry in Drug Discovery - Theory, Practice and Future **2017**, 61-71		1
215	Autoreactivity to malondialdehyde-modifications in rheumatoid arthritis is linked to disease activity and synovial pathogenesis. *Journal of Autoimmunity*, **2017**, 84, 29-45	15.5	31
214	Self-assembly of Deinococcus radiodurans supports nanocell scenario of life origin. *Discoveries*, **2017**, 5, e72	3.7	1
213	Application of amide hydrogen/deuterium exchange mass spectrometry for epitope mapping in human cystatin C. *Amino Acids*, **2016**, 48, 2809-2820	3.5	14
212	How well can morphology assess cell death modality? A proteomics study. *Cell Death Discovery*, **2016**, 2, 16068	6.9	6

211	Validation and development of MTH1 inhibitors for treatment of cancer. *Annals of Oncology*, **2016**, 27, 2275-2283	10.3	77
210	Establishing a Proteomics-Based Monocyte Assay To Assess Differential Innate Immune Activation Responses. *Journal of Proteome Research*, **2016**, 15, 2337-45	5.6	8
209	Isolation and characterization of autoantibodies against human cystatin C. *Amino Acids*, **2016**, 48, 2501-2518	3.5	2
208	Isoelectric point region pI 7.4 as a treasure island of abnormal proteoforms in blood. *Discoveries*, **2016**, 4, e67	3.7	3
207	Functional and Structural Characterization of a Novel HLA-DRB1*04:01-Restricted α-Enolase T Cell Epitope in Rheumatoid Arthritis. *Frontiers in Immunology*, **2016**, 7, 494	8.4	32
206	Phosphorylation of Leukotriene C4 Synthase at Serine 36 Impairs Catalytic Activity. *Journal of Biological Chemistry*, **2016**, 291, 18410-8	5.4	9
205	Human IgM Antibodies to Malondialdehyde Conjugated With Albumin Are Negatively Associated With Cardiovascular Disease Among 60-Year-Olds. *Journal of the American Heart Association*, **2016**, 5,	6	14
204	DeMix-Q: Quantification-Centered Data Processing Workflow. *Molecular and Cellular Proteomics*, **2016**, 15, 1467-78	7.6	50
203	Approach for Identifying Human Leukocyte Antigen (HLA)-DR Bound Peptides from Scarce Clinical Samples. *Molecular and Cellular Proteomics*, **2016**, 15, 3017-29	7.6	33
202	Functional Identification of Target by Expression Proteomics (FITExP) reveals protein targets and highlights mechanisms of action of small molecule drugs. *Scientific Reports*, **2015**, 5, 11176	4.9	30
201	Proteomics Reveals a Role for Attachment in Monocyte Differentiation into Efficient Proinflammatory Macrophages. *Journal of Proteome Research*, **2015**, 14, 3940-7	5.6	8
200	Novel proline-hydroxyproline glycopeptides from the dandelion (Taraxacum officinale Wigg.) flowers: de novo sequencing and biological activity. *Plant Science*, **2015**, 238, 323-9	5.3	9
199	Effect of host plant and immune challenge on the levels of chemosensory and odorant-binding proteins in caterpillar salivary glands. *Insect Biochemistry and Molecular Biology*, **2015**, 61, 34-45	4.5	9
198	Limited Proteolysis Combined with Stable Isotope Labeling Reveals Conformational Changes in Protein (Pseudo)kinases upon Binding Small Molecules. *Journal of Proteome Research*, **2015**, 14, 4179-93	5.6	4
197	Subset of Kappa and Lambda Germline Sequences Result in Light Chains with a Higher Molecular Mass Phenotype. *Journal of Proteome Research*, **2015**, 14, 5283-90	5.6	6
196	Shared immunological targets in the lungs and joints of patients with rheumatoid arthritis: identification and validation. *Annals of the Rheumatic Diseases*, **2015**, 74, 1772-7	2.4	86
195	Release of Active Peptidyl Arginine Deiminases by Neutrophils Can Explain Production of Extracellular Citrullinated Autoantigens in Rheumatoid Arthritis Synovial Fluid. *Arthritis and Rheumatology*, **2015**, 67, 3135-45	9.5	127
194	Primordial soup was edible: abiotically produced Miller-Urey mixture supports bacterial growth. *Scientific Reports*, **2015**, 5, 14338	4.9	5

193	Isotopic resonance hypothesis: experimental verification by Escherichia coli growth measurements. *Scientific Reports*, **2015**, 5, 9215	4.9	17
192	An updated h-index measures both the primary and total scientific output of a researcher. *Discoveries*, **2015**, 3,	3.7	9
191	Molecular profiling of prostate cancer derived exosomes may reveal a predictive signature for response to docetaxel. *Oncotarget*, **2015**, 6, 21740-54	3.3	84
190	Multijunction Capillary Isoelectric Focusing Device Combined with Online Membrane-Assisted Buffer Exchanger Enables Isoelectric Point Fractionation of Intact Human Plasma Proteins for Biomarker Discovery. *Analytical Chemistry*, **2015**, 87, 11840-6	7.8	4
189	Development of autoantibodies against muscle-specific FHL1 in severe inflammatory myopathies. *Journal of Clinical Investigation*, **2015**, 125, 4612-24	15.9	27
188	Mass spectrometric de novo sequencing of natural non-tryptic peptides: comparing peculiarities of collision-induced dissociation (CID) and high energy collision dissociation (HCD). *Rapid Communications in Mass Spectrometry*, **2014**, 28, 2595-604	2.2	14
187	Heightened immune response to autocitrullinated Porphyromonas gingivalis peptidylarginine deiminase: a potential mechanism for breaching immunologic tolerance in rheumatoid arthritis. *Annals of the Rheumatic Diseases*, **2014**, 73, 263-9	2.4	134
186	Fragmentation of positively-charged biological ions activated with a beam of high-energy cations. *Analytical Chemistry*, **2014**, 86, 372-9	7.8	20
185	DeMix workflow for efficient identification of cofragmented peptides in high resolution data-dependent tandem mass spectrometry. *Molecular and Cellular Proteomics*, **2014**, 13, 3211-23	7.6	44
184	Membrane-assisted isoelectric focusing device as a micropreparative fractionator for two-dimensional shotgun proteomics. *Analytical Chemistry*, **2014**, 86, 5728-32	7.8	9
183	Cell line profiling to improve monoclonal antibody production. *Biotechnology and Bioengineering*, **2014**, 111, 748-60	4.9	43
182	Prognostic polypeptide blood plasma biomarkers of Alzheimer's disease progression. *Journal of Alzheimer's Disease*, **2014**, 40, 659-66	4.3	35
181	Effects of low-level deuterium enrichment on bacterial growth. *PLoS ONE*, **2014**, 9, e102071	3.7	16
180	IgG antibodies to cyclic citrullinated peptides exhibit profiles specific in terms of IgG subclasses, Fc-glycans and a fab-Peptide sequence. *PLoS ONE*, **2014**, 9, e113924	3.7	27
179	Binding of Pro-Gly-Pro at the active site of leukotriene A4 hydrolase/aminopeptidase and development of an epoxide hydrolase selective inhibitor. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 4227-32	11.5	41
178	Urinary prognostic biomarkers in patients with focal segmental glomerulosclerosis. *Nephro-Urology Monthly*, **2014**, 6, e16806	0.4	19
177	Natural polymorphisms in Tap2 influence negative selection and CD4:CD8 lineage commitment in the rat. *PLoS Genetics*, **2014**, 10, e1004151	6	14
176	Predictive urinary biomarkers for steroid-resistant and steroid-sensitive focal segmental glomerulosclerosis using high resolution mass spectrometry and multivariate statistical analysis. *BMC Nephrology*, **2014**, 15, 141	2.7	21

175	The novel diagnostic biomarkers for focal segmental glomerulosclerosis. *International Journal of Nephrology*, **2014**, 2014, 574261	1.7	21
174	Blood plasma IgG Fc glycans are significantly altered in Alzheimer's disease and progressive mild cognitive impairment. *Journal of Alzheimer's Disease*, **2014**, 38, 567-79	4.3	52
173	Detection of viral proteins in human cells lines by xeno-proteomics: elimination of the last valid excuse for not testing every cellular proteome dataset for viral proteins. *PLoS ONE*, **2014**, 9, e91433	3.7	3
172	N-terminal peptide sequence repetition influences the kinetics of backbone fragmentation: a manifestation of the Jahn-Teller effect?. *Journal of the American Society for Mass Spectrometry*, **2013**, 24, 1671-5	3.5	
171	Optimizing heterologous protein production in the periplasm of E. coli by regulating gene expression levels. *Microbial Cell Factories*, **2013**, 12, 24	6.4	87
170	Shotgun brain proteomics reveals early molecular signature in presymptomatic mouse model of Alzheimer's disease. *Journal of Alzheimer's Disease*, **2013**, 37, 297-308	4.3	14
169	In silico proteome-wide amino aCid and elemental composition (PACE) analysis of expression proteomics data provides a fingerprint of dominant metabolic processes. *Genomics, Proteomics and Bioinformatics*, **2013**, 11, 219-29	6.5	2
168	Rapid and deep human proteome analysis by single-dimension shotgun proteomics. *Molecular and Cellular Proteomics*, **2013**, 12, 3330-8	7.6	107
167	The challenge of the proteome dynamic range and its implications for in-depth proteomics. *Proteomics*, **2013**, 13, 723-6	4.8	112
166	The effects of 5-fluorouracil on the proteome of colon cancer cells. *Journal of Proteome Research*, **2013**, 12, 1969-79	5.6	22
165	Orbitrap mass spectrometry. *Analytical Chemistry*, **2013**, 85, 5288-96	7.8	327
164	Collision-induced dissociation fragmentation inside disulfide C-terminal loops of natural non-tryptic peptides. *Journal of the American Society for Mass Spectrometry*, **2013**, 24, 1037-44	3.5	11
163	Brain proteomics supports the role of glutamate metabolism and suggests other metabolic alterations in protein l-isoaspartyl methyltransferase (PIMT)-knockout mice. *Journal of Proteome Research*, **2013**, 12, 4566-76	5.6	8
162	In silico instrumental response correction improves precision of label-free proteomics and accuracy of proteomics-based predictive models. *Molecular and Cellular Proteomics*, **2013**, 12, 2324-31	7.6	64
161	The PredictAD project: development of novel biomarkers and analysis software for early diagnosis of the Alzheimer's disease. *Interface Focus*, **2013**, 3, 20120072	3.9	19
160	C57BL/6 mice need MHC class II Aq to develop collagen-induced arthritis dependent on autoreactive T cells. *Annals of the Rheumatic Diseases*, **2013**, 72, 1225-32	2.4	32
159	Structural basis of SUFU-GLI interaction in human Hedgehog signalling regulation. *Acta Crystallographica Section D: Biological Crystallography*, **2013**, 69, 2563-79		42
158	Dominant suppression of inflammation by glycan-hydrolyzed IgG. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 10252-7	11.5	14

157	Urinary prognostic biomarkers and classification of IgA nephropathy by high resolution mass spectrometry coupled with liquid chromatography. *PLoS ONE*, **2013**, 8, e80830	3.7	54
156	Peptide radical cations: gender determines dissociation chemistry. *Mass Spectrometry*, **2013**, 2, S0004	1.7	2
155	Introducing an Asp-Pro linker in the synthesis of random one-bead-one-compound hexapeptide libraries compatible with ESI-MS analysis. *ACS Combinatorial Science*, **2012**, 14, 145-9	3.9	5
154	LC-MS/MS with 2D mass mapping of skin secretionsPpeptides as a reliable tool for interspecies identification inside Rana esculenta complex. *Peptides*, **2012**, 34, 296-302	3.8	11
153	Separation of polypeptides by isoelectric point focusing in electrospray-friendly solution using a multiple-junction capillary fractionator. *Analytical Chemistry*, **2012**, 84, 6856-62	7.8	20
152	Chemosensory proteins, major salivary factors in caterpillar mandibular glands. *Insect Biochemistry and Molecular Biology*, **2012**, 42, 796-805	4.5	34
151	Proteomic analysis of urinary biomarker candidates for nonmuscle invasive bladder cancer. *Proteomics*, **2012**, 12, 135-44	4.8	69
150	Radical a-ions in electron capture dissociation: on the origin of species. *Journal of the American Society for Mass Spectrometry*, **2012**, 23, 1015-8	3.5	6
149	Carbonyl charge solvation patterns may relate to fragmentation classes in collision-activated dissociation. *Journal of the American Society for Mass Spectrometry*, **2012**, 23, 1319-25	3.5	3
148	Identification of shared citrullinated immunological targets in the lungs and joints of patients with rheumatoid arthritis. *Annals of the Rheumatic Diseases*, **2012**, 71, A19.1-A19	2.4	5
147	Conformation effects of CpG methylation on single-stranded DNA oligonucleotides: analysis of the opioid peptide dynorphin-coding sequences. *PLoS ONE*, **2012**, 7, e39605	3.7	9
146	Drug target identification from protein dynamics using quantitative pathway analysis. *Journal of Proteome Research*, **2011**, 10, 2679-83	5.6	13
145	Alzheimer's disease and mild cognitive impairment are associated with elevated levels of isoaspartyl residues in blood plasma proteins. *Journal of Alzheimer's Disease*, **2011**, 27, 113-8	4.3	19
144	Role of stable isotopes in life--testing isotopic resonance hypothesis. *Genomics, Proteomics and Bioinformatics*, **2011**, 9, 15-20	6.5	13
143	Myeloid-derived suppressor cells express the death receptor Fas and apoptose in response to T cell-expressed FasL. *Blood*, **2011**, 117, 5381-90	2.2	120
142	High levels of the adhesion molecule CD44 on leukemic cells generate acute myeloid leukemia relapse after withdrawal of the initial transforming event. *Leukemia*, **2011**, 25, 515-26	10.7	53
141	Facing challenges in Proteomics today and in the coming decade: Report of Roundtable Discussions at the 4th EuPA Scientific Meeting, Portugal, Estoril 2010. *Journal of Proteomics*, **2011**, 75, 4-17	3.9	8
140	Toward a comprehensive characterization of the phosphotyrosine proteome. *Cellular Signalling*, **2011**, 23, 1387-95	4.9	18

139	Investigation of skin secretory peptidome of Rana lessonae frog by mass spectrometry. *Journal of Analytical Chemistry*, **2011**, 66, 1298-1306	1.1	7
138	Mass spectral study of the skin peptide of brown frog Rana temporaria from Zvenigorod population. *Journal of Analytical Chemistry*, **2011**, 66, 1353-1360	1.1	9
137	Novel cysteine tags for the sequencing of non-tryptic disulfide peptides of anurans: ESI-MS study of fragmentation efficiency. *Journal of the American Society for Mass Spectrometry*, **2011**, 22, 2246-55	3.5	9
136	Sequence scrambling in shotgun proteomics is negligible. *Journal of the American Society for Mass Spectrometry*, **2011**, 22, 1121-4	3.5	44
135	Effects of peptide backbone amide-to-ester bond substitution on the cleavage frequency in electron capture dissociation and collision-activated dissociation. *Journal of the American Society for Mass Spectrometry*, **2011**, 22, 1441-52	3.5	12
134	Heme binding in gas-phase holo-myoglobin cations: distal becomes proximal?. *Journal of the American Society for Mass Spectrometry*, **2011**, 22, 1763-70	3.5	18
133	Optimization of immunoaffinity enrichment and detection: toward a comprehensive characterization of the phosphotyrosine proteome of K562 cells by liquid chromatography-mass spectrometry. *Analyst, The*, **2011**, 136, 1971-8	5	16
132	ATP enhances neuronal differentiation of PC12 cells by activating PKC□interactions with cytoskeletal proteins. *Journal of Proteome Research*, **2011**, 10, 529-40	5.6	8
131	New proteomic developments to analyze protein isomerization and their biological significance in plants. *Journal of Proteomics*, **2011**, 74, 1475-82	3.9	2
130	Proteomic pathway analysis reveals inflammation increases myeloid-derived suppressor cell resistance to apoptosis. *Molecular and Cellular Proteomics*, **2011**, 10, M110.002980	7.6	55
129	Impact of temperature dependent sampling procedures in proteomics and peptidomics--a characterization of the liver and pancreas post mortem degradome. *Molecular and Cellular Proteomics*, **2011**, 10, M900229MCP200	7.6	32
128	Identification of specific citrullination sites on fibrinogen in RA. *Annals of the Rheumatic Diseases*, **2010**, 69, A4-A5	2.4	
127	Are the majority of a(2)-ions cyclic?. *Physical Chemistry Chemical Physics*, **2010**, 12, 13372-4	3.6	8
126	Alternative methods for verifying the results of the mass spectrometric identification of peptides in shotgun proteomics. *Journal of Analytical Chemistry*, **2010**, 65, 1462-1468	1.1	1
125	Early life relict feature in peptide mass distribution. *Open Life Sciences*, **2010**, 5, 190-196	1.2	
124	Prodynorphin mutations cause the neurodegenerative disorder spinocerebellar ataxia type 23. *American Journal of Human Genetics*, **2010**, 87, 593-603	11	86
123	Porcine P2 myelin protein primary structure and bound fatty acids determined by mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2010**, 397, 1903-10	4.4	3
122	Calibration function for the Orbitrap FTMS accounting for the space charge effect. *Journal of the American Society for Mass Spectrometry*, **2010**, 21, 1846-51	3.5	26

121	Mass spectrometric analysis of asparagine deamidation and aspartate isomerization in polypeptides. *Electrophoresis*, **2010**, 31, 1764-72	3.6	127
120	Multiple soft ionization of gas-phase proteins and swift backbone dissociation in collisions with Angewandte Chemie - International Edition, **2010**, 49, 1439-41	16.4	14
119	MS analysis of rheumatoid arthritic synovial tissue identifies specific citrullination sites on fibrinogen. *Proteomics - Clinical Applications*, **2010**, 4, 511-8	3.1	51
118	Empirical approach to false discovery rate estimation in shotgun proteomics. *Rapid Communications in Mass Spectrometry*, **2010**, 24, 454-62	2.2	13
117	The exosome associates cotranscriptionally with the nascent pre-mRNP through interactions with heterogeneous nuclear ribonucleoproteins. *Molecular Biology of the Cell*, **2009**, 20, 3459-70	3.5	31
116	Proteomics and pathway analysis identifies JNK signaling as critical for high linear energy transfer radiation-induced apoptosis in non-small lung cancer cells. *Molecular and Cellular Proteomics*, **2009**, 8, 1117-29	7.6	18
115	Room-temperature infrared spectroscopy combined with mass spectrometry distinguishes gas-phase protein isomers. *Angewandte Chemie - International Edition*, **2009**, 48, 8340-2	16.4	29
114	Alterations in the composition of membrane glycero-and sphingolipids in the course of Flammulina velutipes surface culture development. *Microbiology*, **2009**, 78, 193-201	1.4	6
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