

# Arthur T Kopylov

## List of Publications by Year in descending order

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119  
papers

1,730  
citations

279701

23  
h-index

360920

35  
g-index

134  
all docs

134  
docs citations

134  
times ranked

1963  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Size of the Human Proteome: The Width and Depth. <i>International Journal of Analytical Chemistry</i> , 2016, 2016, 1-6.	0.4	180
2	The Concept of Folic Acid in Health and Disease. <i>Molecules</i> , 2021, 26, 3731.	1.7	76
3	Chromosome 18 Transcriptome Profiling and Targeted Proteome Mapping in Depleted Plasma, Liver Tissue and HepG2 Cells. <i>Journal of Proteome Research</i> , 2013, 12, 123-134.	1.8	59
4	Isatin-binding proteins of rat and mouse brain: Proteomic identification and optical biosensor validation. <i>Proteomics</i> , 2010, 10, 23-37.	1.3	57
5	Dried Blood Spot in Laboratory: Directions and Prospects. <i>Diagnostics</i> , 2020, 10, 248.	1.3	54
6	Chromosome 18 Transcriptoproteome of Liver Tissue and HepG2 Cells and Targeted Proteome Mapping in Depleted Plasma: Update 2013. <i>Journal of Proteome Research</i> , 2014, 13, 183-190.	1.8	44
7	Biobanks – A Platform for Scientific and Biomedical Research. <i>Diagnostics</i> , 2020, 10, 485.	1.3	42
8	Plasma exosomes stimulate breast cancer metastasis through surface interactions and activation of FAK signaling. <i>Breast Cancer Research and Treatment</i> , 2019, 174, 129-141.	1.1	39
9	Affinity-based proteomic profiling: Problems and achievements. <i>Proteomics</i> , 2012, 12, 621-637.	1.3	38
10	Chromosome-centric approach to overcoming bottlenecks in the Human Proteome Project. <i>Expert Review of Proteomics</i> , 2012, 9, 667-676.	1.3	37
11	Proteome of Glioblastoma-Derived Exosomes as a Source of Biomarkers. <i>Biomedicines</i> , 2020, 8, 216.	1.4	37
12	Sports Nutrition: Diets, Selection Factors, Recommendations. <i>Nutrients</i> , 2021, 13, 3771.	1.7	36
13	Isatin binding proteins in rat brain: In situ imaging, quantitative characterization of specific [ <sup>3</sup> H]isatin binding, and proteomic profiling. <i>Journal of Neuroscience Research</i> , 2009, 87, 2763-2772.	1.3	35
14	Food Intolerance: The Role of Histamine. <i>Nutrients</i> , 2021, 13, 3207.	1.7	35
15	Targeted Quantitative Screening of Chromosome 18 Encoded Proteome in Plasma Samples of Astronaut Candidates. <i>Journal of Proteome Research</i> , 2016, 15, 4039-4046.	1.8	33
16	Inter-laboratory evaluation of instrument platforms and experimental workflows for quantitative accuracy and reproducibility assessment. <i>EuPA Open Proteomics</i> , 2015, 8, 6-15.	2.5	32
17	The Effects of Endogenous Non-Peptide Molecule Isatin and Hydrogen Peroxide on Proteomic Profiling of Rat Brain Amyloid- $\beta$ Binding Proteins: Relevance to Alzheimer's Disease?. <i>International Journal of Molecular Sciences</i> , 2015, 16, 476-495.	1.8	31
18	Revelation of Proteomic Indicators for Colorectal Cancer in Initial Stages of Development. <i>Molecules</i> , 2020, 25, 619.	1.7	31

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19	Mitochondrial Dysfunction in Parkinson's Disease: Focus on Mitochondrial DNA. <i>Biomedicines</i> , 2020, 8, 591.	1.4	30
20	Proteomics of mouse liver microsomes: Performance of different protein separation workflows for LC-MS/MS. <i>Proteomics</i> , 2009, 9, 4102-4105.	1.3	28
21	Exome-based proteogenomics of HEK-293 human cell line: Coding genomic variants identified at the level of shotgun proteome. <i>Proteomics</i> , 2016, 16, 1980-1991.	1.3	28
22	Brain mitochondrial subproteome of Rpn10-binding proteins and its changes induced by the neurotoxin MPTP and the neuroprotector isatin. <i>Biochemistry (Moscow)</i> , 2017, 82, 330-339.	0.7	28
23	Combined use of irreversible binding and MRM technology for low- and ultralow copy-number protein detection and quantitation. <i>Proteomics</i> , 2013, 13, 727-742.	1.3	24
24	Methionine to isothreonine conversion as a source of false discovery identifications of genetically encoded variants in proteogenomics. <i>Journal of Proteomics</i> , 2015, 120, 169-178.	1.2	24
25	State of the Art of Chromosome 18-Centric HPP in 2016: Transcriptome and Proteome Profiling of Liver Tissue and HepG2 Cells. <i>Journal of Proteome Research</i> , 2016, 15, 4030-4038.	1.8	23
26	The Effect of Neurotoxin MPTP and Neuroprotector Isatin on the Profile of Ubiquitinated Brain Mitochondrial Proteins. <i>Cells</i> , 2018, 7, 91.	1.8	22
27	Effect of affinity Sorbent on proteomic profiling of isatin-binding proteins of mouse brain. <i>Biochemistry (Moscow)</i> , 2012, 77, 1326-1338.	0.7	21
28	Highly sensitive protein detection by combination of atomic force microscopy fishing with charge generation and mass spectrometry analysis. <i>FEBS Journal</i> , 2014, 281, 4705-4717.	2.2	20
29	Pharmacogenetic Testing: A Tool for Personalized Drug Therapy Optimization. <i>Pharmaceutics</i> , 2020, 12, 1240.	2.0	20
30	A Neuroprotective Dose of Isatin Causes Multilevel Changes Involving the Brain Proteome: Prospects for Further Research. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4187.	1.8	20
31	Renalase Secreted by Human Kidney HEK293T Cells Lacks its N-Terminal Peptide: Implications for Putative Mechanisms of Renalase Action. <i>Kidney and Blood Pressure Research</i> , 2016, 41, 593-603.	0.9	18
32	Why Are the Correlations between mRNA and Protein Levels so Low among the 275 Predicted Protein-Coding Genes on Human Chromosome 18?. <i>Journal of Proteome Research</i> , 2017, 16, 4311-4318.	1.8	18
33	Brochosomins and other novel proteins from brochosomes of leafhoppers (Insecta, Hemiptera,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.2	18
34	200+ Protein Concentrations in Healthy Human Blood Plasma: Targeted Quantitative SRM SIS Screening of Chromosomes 18, 13, Y, and the Mitochondrial Chromosome Encoded Proteome. <i>Journal of Proteome Research</i> , 2019, 18, 120-129.	1.8	17
35	Human urinary renalase lacks the N-terminal signal peptide crucial for accommodation of its FAD cofactor. <i>International Journal of Biological Macromolecules</i> , 2015, 78, 347-353.	3.6	16
36	Diversity of Plant Sterols Metabolism: The Impact on Human Health, Sport, and Accumulation of Contaminating Sterols. <i>Nutrients</i> , 2021, 13, 1623.	1.7	15

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37	Highly sensitive protein detection by biospecific <sc>AFM</sc>-based fishing with pulsed electrical stimulation. FEBS Open Bio, 2017, 7, 1186-1195.	1.0	13
38	Isolation of large amounts of highly pure mitochondria for "omics" studies. Biochemistry (Moscow), 2018, 83, 76-85.	0.7	13
39	Super Secondary Structures of Proteins with Post-Translational Modifications in Colon Cancer. Molecules, 2020, 25, 3144.	1.7	13
40	Molecular pathophysiology of diabetes mellitus during pregnancy with antenatal complications. Scientific Reports, 2020, 10, 19641.	1.6	12
41	Chemical modifications of amyloid- $\beta$ (1-42) have a significant impact on the repertoire of brain amyloid- $\beta$ (1-42) binding proteins. Biochimie, 2016, 128-129, 55-58.	1.3	11
42	Increased Sensitivity of Mass Spectrometry by Alkaline Two-Dimensional Liquid Chromatography: Deep Cover of the Human Proteome in Gene-Centric Mode. Journal of Proteome Research, 2018, 17, 4258-4266.	1.8	11
43	Multi-dimensional immunoproteomics coupled with in vitro recapitulation of oncogenic NRASQ61R identifies diagnostically relevant autoantibody biomarkers in thyroid neoplasia. Cancer Letters, 2019, 467, 96-106.	3.2	11
44	Functional Properties of Circulating Exosomes Mediated by Surface-Attached Plasma Proteins. Journal of Hematology (Brossard, Quebec), 2018, 7, 149-153.	0.4	11
45	AFM-based protein fishing in the pulsed electric field. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2015, 9, 121-129.	0.2	10
46	Variety and Dynamics of Proteoforms in the Human Proteome: Aspects of Markers for Hepatocellular Carcinoma. Proteomes, 2017, 5, 33.	1.7	10
47	Constitutive and activation-dependent phosphorylation of lymphocyte phosphatase-associated phosphoprotein (LPAP). PLoS ONE, 2017, 12, e0182468.	1.1	10
48	Relative Abundance of Proteins in Blood Plasma Samples from Patients with Chronic Cerebral Ischemia. Journal of Molecular Neuroscience, 2018, 64, 440-448.	1.1	10
49	Affinity Isolation and Mass Spectrometry Identification of Prostacyclin Synthase (PTGIS) Subinteractome. Biology, 2019, 8, 49.	1.3	10
50	Convolutional neural network in proteomics and metabolomics for determination of comorbidity between cancer and schizophrenia. Journal of Biomedical Informatics, 2021, 122, 103890.	2.5	10
51	Amyloid-Binding Proteins: Affinity-Based Separation, Proteomic Identification, and Optical Biosensor Validation. Methods in Molecular Biology, 2015, 1295, 465-477.	0.4	10
52	$\beta$ -synuclein potentiates synaptic vesicle dopamine uptake and rescues dopaminergic neurons from MPTP-induced death in the absence of other synucleins. Journal of Biological Chemistry, 2021, 297, 101375.	1.6	10
53	Quantitative affinity interaction of ubiquitinated and non-ubiquitinated proteins with proteasome subunit Rpn10. Biochemistry (Moscow), 2017, 82, 1042-1047.	0.7	9
54	Identification of Peptide AEDG in the Polypeptide Complex of the Pineal Gland. Bulletin of Experimental Biology and Medicine, 2017, 164, 41-43.	0.3	9

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55	A multicentric study to evaluate the use of relative retention times in targeted proteomics. <i>Journal of Proteomics</i> , 2017, 152, 138-149.	1.2	9
56	Proteomic Analysis of Cerebral Cortex Extracts from <i>Sus scrofa</i> with Induced Hemorrhagic Stroke. <i>Journal of Molecular Neuroscience</i> , 2018, 65, 28-34.	1.1	8
57	FractionOptimizer: a method for optimal peptide fractionation in bottom-up proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3827-3833.	1.9	8
58	Proteomic analysis of blood serum protein profiles in children with autism. <i>Voprosy Prakticheskoi Pediatrii</i> , 2016, 11, 12-17.	0.0	8
59	Use of deuterium labeling by high-temperature solid-state hydrogen-exchange reaction for mass spectrometric analysis of bradykinin biotransformation. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1283-1294.	0.7	7
60	Challenges of the Human Proteome Project: 10-Year Experience of the Russian Consortium. <i>Journal of Proteome Research</i> , 2019, 18, 4206-4214.	1.8	7
61	Assessment of Serological Early Biomarker Candidates for Lung Adenocarcinoma by using Multiple Reaction Monitoring-Mass Spectrometry. <i>Proteomics - Clinical Applications</i> , 2020, 14, e1900095.	0.8	7
62	Association of Proteins Modulating Immune Response and Insulin Clearance during Gestation with Antenatal Complications in Patients with Gestational or Type 2 Diabetes Mellitus. <i>Cells</i> , 2020, 9, 1032.	1.8	7
63	Proteomic and molecular dynamic investigations of PTM-induced structural fluctuations in breast and ovarian cancer. <i>Scientific Reports</i> , 2021, 11, 19318.	1.6	7
64	Use of Biotinylated Ubiquitin for Analysis of Rat Brain Mitochondrial Proteome and Interactome. <i>International Journal of Molecular Sciences</i> , 2012, 13, 11593-11609.	1.8	6
65	A new method for quantitative determination of renalase based on mass spectrometric determination of a proteotypic peptide labelled with stable isotopes. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1263-1270.	0.7	6
66	Ubiquitin Subproteome of Brain Mitochondria and Its Changes Induced by Experimental Parkinsonism and Action of Neuroprotectors. <i>Biochemistry (Moscow)</i> , 2019, 84, 1359-1374.	0.7	6
67	CD44-Associated Tn Antigen as a New Biomarker of Tumor Cells with Aberrant Glycosylation. <i>Biochemistry (Moscow)</i> , 2020, 85, 1064-1071.	0.7	6
68	Molecular Portrait of an Athlete. <i>Diagnostics</i> , 2021, 11, 1095.	1.3	6
69	20S and 26S proteasome-binding proteins of the rabbit brain: A proteomic dataset. <i>Data in Brief</i> , 2021, 38, 107276.	0.5	6
70	Current Approaches in Supersecondary Structures Investigation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11879.	1.8	6
71	Serum Immunoproteomics Combined With Pathological Reassessment of Surgical Specimens Identifies TCP-1 $\gamma$ Autoantibody as a Potential Biomarker in Thyroid Neoplasia. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, E1206-E1215.	1.8	5
72	A semi-virtual two dimensional gel electrophoresis: IF-ESI LC-MS/MS. <i>MethodsX</i> , 2017, 4, 260-264.	0.7	5

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73	Semi-supervised quality control method for proteome analyses based on tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2018, 427, 59-64.	0.7	5
74	Quantitative assessment of betamethasone dual-acting formulation in urine of patients with rheumatoid arthritis and ankylosing spondylitis after single-dose intramuscular administration and its application to long-term pharmacokinetic study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 149, 278-289.	1.4	5
75	Is renalase ready to become a biomarker of ischemia?. <i>International Journal of Cardiology</i> , 2020, 307, 179.	0.8	5
76	Algorithm of targeted (SRM) methods development in mass-spectrometric studies. <i>Biomedical Chemistry Research and Methods</i> , 2018, 1, e00006.	0.1	5
77	Next-Generation Techniques for Discovering Human Monoclonal Antibodies. <i>Molecular Biology</i> , 2017, 51, 782-787.	0.4	4
78	Pilot data of serum proteins from children with autism spectrum disorders. <i>Data in Brief</i> , 2019, 27, 104558.	0.5	4
79	Comparative Analysis of Blood Plasma Proteome in Patients with Renal Cell Carcinoma. <i>Bulletin of Experimental Biology and Medicine</i> , 2019, 167, 91-96.	0.3	4
80	Next Steps on in Silico 2DE Analyses of Chromosome 18 Proteoforms. <i>Journal of Proteome Research</i> , 2018, 17, 4085-4096.	1.8	3
81	Application of Adeno-Associated Virus Vectors for Engineering SCF-Containing Extracellular Vesicles of Mesenchymal Stromal Cells. <i>Bulletin of Experimental Biology and Medicine</i> , 2019, 166, 527-534.	0.3	3
82	Stability of Plasma Protein Composition in Dried Blood Spot during Storage. <i>Processes</i> , 2020, 8, 1500.	1.3	3
83	The Effect of a Neuroprotective Dose of Isatin or Deprenyl to Mice on the Profile of Brain Isatin-Binding Proteins. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2020, 14, 116-126.	0.2	3
84	Is It Possible to Find Needles in a Haystack? Meta-Analysis of 1000+ MS/MS Files Provided by the Russian Proteomic Consortium for Mining Missing Proteins. <i>Proteomes</i> , 2020, 8, 12.	1.7	3
85	Mass Spectrometric Identification of Proteins Enhanced by the Atomic Force Microscopy Immobilization Surface. <i>International Journal of Molecular Sciences</i> , 2021, 22, 431.	1.8	3
86	Comparative proteomic analysis of mouse liver and brain isatin-binding proteins. <i>Biomedical Chemistry Research and Methods</i> , 2018, 1, e00007.	0.1	3
87	Severe types of fetopathy are associated with changes in the serological proteome of diabetic mothers. <i>Medicine (United States)</i> , 2021, 100, e27829.	0.4	3
88	Managing of Unassigned Mass Spectrometric Data by Neural Network for Cancer Phenotypes Classification. <i>Journal of Personalized Medicine</i> , 2021, 11, 1288.	1.1	3
89	Combination of atomic force microscopy and mass spectrometry for the detection of target protein in the serum samples of children with autism spectrum disorders. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 256, 012015.	0.3	2
90	Proteomic profiling data of HEK293 proteins bound to human recombinant renalases-1 and -2. <i>Data in Brief</i> , 2018, 21, 1477-1482.	0.5	2

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91	Neurotoxic Effects of A <sup>126-42</sup> Peptides Mimicking Putative Products Formed by the Angiotensin Converting Enzyme. <i>Journal of Alzheimer's Disease</i> , 2018, 66, 263-270.	1.2	2
92	MAPK and Notch-Mediated Effects of Meso-Xanthin F199 Compounds on Proliferative Activity and Apoptosis of Human Melanocytes in Three-Dimensional Culture. <i>BioMed Research International</i> , 2021, 2021, 1-16.	0.9	2
93	Proteomic and electron microscopy study of myogenic differentiation of alveolar mucosa multipotent mesenchymal stromal cells in three-dimensional culture. <i>Proteomics</i> , 2021, , 2000304.	1.3	2
94	Changes in Protein Structural Motifs upon Post-Translational Modification in Kidney Cancer. <i>Diagnostics</i> , 2021, 11, 1836.	1.3	2
95	Mass spectrometry label-free quantitative analysis of proteins. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2010, 4, 49-58.	0.2	1
96	Mass spectrometry detection of monomeric renalase in human urine. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2012, 6, 300-306.	0.2	1
97	Development of Mass Spectrometry Selected Reaction Monitoring Method for Quantitation and Pharmacokinetic Study of Stepharine in Rabbit Plasma. <i>Advances in Pharmacological Sciences</i> , 2014, 2014, 1-9.	3.7	1
98	Dataset of target mass spectromic proteome profiling for human chromosome 18. <i>Data in Brief</i> , 2016, 8, 1365-1369.	0.5	1
99	Quantitative target proteomics of chromosome 13 human blood plasma proteins. <i>Doklady Biochemistry and Biophysics</i> , 2017, 476, 326-328.	0.3	1
100	Prospects in studying the human proteome. <i>Herald of the Russian Academy of Sciences</i> , 2017, 87, 318-323.	0.2	1
101	Manual method of visually identifying candidate signals for a targeted peptide. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1083, 258-270.	1.2	1
102	Searching for Specific Markers of Glioblastoma: Analysis of Glioblastoma Cell Proteoforms. <i>Cell and Tissue Biology</i> , 2018, 12, 455-459.	0.2	1
103	The Effect of Neurotoxin MPTP Administration to Mice on the Proteomic Profile of Brain Isatin-Binding Proteins. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2018, 12, 22-26.	0.2	1
104	Identification of the Molecular Partners of Lymphocyte Phosphatase-Associated Phosphoprotein (LPAP) That Are Involved in Human Lymphocyte Activation. <i>Molecular Biology</i> , 2019, 53, 739-747.	0.4	1
105	Proteome data of serum samples from patients with schizophrenia. <i>Data in Brief</i> , 2020, 29, 105338.	0.5	1
106	Research of the Effect of Proton Radiation on the Brain Proteome of Mouse. <i>Biology Bulletin</i> , 2020, 47, 1618-1626.	0.1	1
107	Panoramic mass spectrometry: identification of candidate protein markers of ovarian cancer in blood plasma. <i>Voprosy Ginekologii, Akusherstva I Perinatologii</i> , 2018, 17, 5-13.	0.1	1
108	Critical Assessment of the Current WADA Approach for the Detection of 4-Chlorodehydromethyltestosterone. <i>Journal of Analytical Sciences Methods and Instrumentation</i> , 2016, 06, 65-82.	0.1	1

