

# Arthur T Kopylov

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	Molecular Portrait of an Athlete. <i>Diagnostics</i> , 2021, 11, 1095.	1.3	6
4	The Concept of Folic Acid in Health and Disease. <i>Molecules</i> , 2021, 26, 3731.	1.7	76
5	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, 1-16.	0.9	2
6	Changes in the Mitochondrial Subproteome of Mouse Brain Rpn13-Binding Proteins Induced by the Neurotoxin MPTP and the Neuroprotector Isatin. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2021, 15, 199-214.	0.2	0
7	Food Intolerance: The Role of Histamine. <i>Nutrients</i> , 2021, 13, 3207.	1.7	35
8	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
9	20S and 26S proteasome-binding proteins of the rabbit brain: A proteomic dataset. <i>Data in Brief</i> , 2021, 38, 107276.	0.5	6
10	Convolutional neural network in proteomics and metabolomics for determination of comorbidity between cancer and schizophrenia. <i>Journal of Biomedical Informatics</i> , 2021, 122, 103890.	2.5	10
11	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
12	Sports Nutrition: Diets, Selection Factors, Recommendations. <i>Nutrients</i> , 2021, 13, 3771.	1.7	36
13	Changes in Protein Structural Motifs upon Post-Translational Modification in Kidney Cancer. <i>Diagnostics</i> , 2021, 11, 1836.	1.3	2
14	$\beta$ 2-synuclein potentiates synaptic vesicle dopamine uptake and rescues dopaminergic neurons from MPTP-induced death in the absence of other synucleins. <i>Journal of Biological Chemistry</i> , 2021, 297, 101375.	1.6	10
15	Current Approaches in Supersecondary Structures Investigation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11879.	1.8	6
16	Determination of Specific IgG to Identify Possible Food Intolerance in Athletes Using ELISA. <i>Data</i> , 2021, 6, 122.	1.2	0
17	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
18	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

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19	Is renalase ready to become a biomarker of ischemia?. International Journal of Cardiology, 2020, 307, 179.	0.8	5
20	CD44-Associated Tn Antigen as a New Biomarker of Tumor Cells with Aberrant Glycosylation. Biochemistry (Moscow), 2020, 85, 1064-1071.	0.7	6
21	Super Secondary Structures of Proteins with Post-Translational Modifications in Colon Cancer. Molecules, 2020, 25, 3144.	1.7	13
22	Stability of Plasma Protein Composition in Dried Blood Spot during Storage. Processes, 2020, 8, 1500.	1.3	3
23	Molecular pathophysiology of diabetes mellitus during pregnancy with antenatal complications. Scientific Reports, 2020, 10, 19641.	1.6	12
24	Proteome of Glioblastoma-Derived Exosomes as a Source of Biomarkers. Biomedicines, 2020, 8, 216.	1.4	37
25	Biobanksâ€”A Platform for Scientific and Biomedical Research. Diagnostics, 2020, 10, 485.	1.3	42
26	Pharmacogenetic Testing: A Tool for Personalized Drug Therapy Optimization. Pharmaceutics, 2020, 12, 1240.	2.0	20
27	Mitochondrial Dysfunction in Parkinsonâ€™s Disease: Focus on Mitochondrial DNA. Biomedicines, 2020, 8, 591.	1.4	30
28	Dried Blood Spot in Laboratory: Directions and Prospects. Diagnostics, 2020, 10, 248.	1.3	54
29	A Neuroprotective Dose of Isatin Causes Multilevel Changes Involving the Brain Proteome: Prospects for Further Research. International Journal of Molecular Sciences, 2020, 21, 4187.	1.8	20
30	The Effect of a Neuroprotective Dose of Isatin or Deprenyl to Mice on the Profile of Brain Isatin-Binding Proteins. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2020, 14, 116-126.	0.2	3
31	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. Proteomes, 2020, 8, 12.	1.7	3
32	Proteome data of serum samples from patients with schizophrenia. Data in Brief, 2020, 29, 105338.	0.5	1
33	Assessment of Serological Early Biomarker Candidates for Lung Adenocarcinoma by using Multiple Reaction Monitoringâ€™Mass Spectrometry. Proteomics - Clinical Applications, 2020, 14, e1900095.	0.8	7
34	Revelation of Proteomic Indicators for Colorectal Cancer in Initial Stages of Development. Molecules, 2020, 25, 619.	1.7	31
35	Association of Proteins Modulating Immune Response and Insulin Clearance during Gestation with Antenatal Complications in Patients with Gestational or Type 2 Diabetes Mellitus. Cells, 2020, 9, 1032.	1.8	7
36	Research of the Effect of Proton Radiation on the Brain Proteome of Mouse. Biology Bulletin, 2020, 47, 1618-1626.	0.1	1

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37	Qualitative Difference of the Mitochondrial Subproteoms of Brain Rpn10- and Rpn13-Binding Proteins. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2020, 14, 297-305.	0.2	0
38	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
39	Multi-dimensional immunoproteomics coupled with in vitro recapitulation of oncogenic NRASQ61R identifies diagnostically relevant autoantibody biomarkers in thyroid neoplasia. <i>Cancer Letters</i> , 2019, 467, 96-106.	3.2	11
40	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
41	Pilot data of serum proteins from children with autism spectrum disorders. <i>Data in Brief</i> , 2019, 27, 104558.	0.5	4
42	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
43	Quantitative Targeted Screening of Proteins Associated with Lung Adenocarcinoma by the Method of Selected Reaction Monitoring. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2019, 13, 60-67.	0.2	0
44	Affinity Isolation and Mass Spectrometry Identification of Prostacyclin Synthase (PTGIS) Subinteractome. <i>Biology</i> , 2019, 8, 49.	1.3	10
45	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
46	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
47	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
48	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
49	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
50	FractionOptimizer: a method for optimal peptide fractionation in bottom-up proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3827-3833.	1.9	8
51	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
52	Isolation of large amounts of highly pure mitochondria for proteomics studies. <i>Biochemistry (Moscow)</i> , 2018, 83, 76-85.	0.7	13
53	Brochosomins and other novel proteins from brochosomes of leafhoppers (Insecta, Hemiptera, Tj ETQq1 1 0.784314 rgBT / Overlock 10	1.2	18
54	Relative Abundance of Proteins in Blood Plasma Samples from Patients with Chronic Cerebral Ischemia. <i>Journal of Molecular Neuroscience</i> , 2018, 64, 440-448.	1.1	10



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73	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
74	A semi-virtual two dimensional gel electrophoresis: IF-ESI LC-MS/MS. <i>MethodsX</i> , 2017, 4, 260-264.	0.7	5
75	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
76	Quantitative affinity interaction of ubiquitinated and non-ubiquitinated proteins with proteasome subunit Rpn10. <i>Biochemistry (Moscow)</i> , 2017, 82, 1042-1047.	0.7	9
77	Highly sensitive protein detection by biospecific AFM-based fishing with pulsed electrical stimulation. <i>FEBS Open Bio</i> , 2017, 7, 1186-1195.	1.0	13
78	Identification of Peptide AEDG in the Polypeptide Complex of the Pineal Gland. <i>Bulletin of Experimental Biology and Medicine</i> , 2017, 164, 41-43.	0.3	9
79	Quantitative target proteomics of chromosome 13 human blood plasma proteins. <i>Doklady Biochemistry and Biophysics</i> , 2017, 476, 326-328.	0.3	1
80	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
81	Next-Generation Techniques for Discovering Human Monoclonal Antibodies. <i>Molecular Biology</i> , 2017, 51, 782-787.	0.4	4
82	Prospects in studying the human proteome. <i>Herald of the Russian Academy of Sciences</i> , 2017, 87, 318-323.	0.2	1
83	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
84	Variety and Dynamics of Proteoforms in the Human Proteome: Aspects of Markers for Hepatocellular Carcinoma. <i>Proteomes</i> , 2017, 5, 33.	1.7	10
85	Constitutive and activation-dependent phosphorylation of lymphocyte phosphatase-associated phosphoprotein (LPAP). <i>PLoS ONE</i> , 2017, 12, e0182468.	1.1	10
86	The Size of the Human Proteome: The Width and Depth. <i>International Journal of Analytical Chemistry</i> , 2016, 2016, 1-6.	0.4	180
87	Chemical modifications of amyloid- $\beta$ (1-42) have a significant impact on the repertoire of brain amyloid- $\beta$ (1-42) binding proteins. <i>Biochimie</i> , 2016, 128-129, 55-58.	1.3	11
88	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
89	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
90	Dataset of target mass spectromic proteome profiling for human chromosome 18. <i>Data in Brief</i> , 2016, 8, 1365-1369.	0.5	1

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91	A simple method of prediction of visibility of peptides in mass spectrometry with electrospray ionization. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2016, 10, 91-95.	0.2	0
92	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
93	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
94	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
95	Proteomic analysis of blood serum protein profiles in children with autism. <i>Voprosy Prakticheskoi Pediatrii</i> , 2016, 11, 12-17.	0.0	8
96	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
97	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
98	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
99	AFM-based protein fishing in the pulsed electric field. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2015, 9, 121-129.	0.2	10
100	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
101	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
102	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
103	Amyloid-Binding Proteins: Affinity-Based Separation, Proteomic Identification, and Optical Biosensor Validation. <i>Methods in Molecular Biology</i> , 2015, 1295, 465-477.	0.4	10
104	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
105	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
106	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
107	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
108	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

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109	Chromosomocentric approach to overcoming difficulties in implementation of international project Human Proteome. Ukrainian Biochemical Journal, 2013, 85, 8-17.	0.1	0
110	Use of Biotinylated Ubiquitin for Analysis of Rat Brain Mitochondrial Proteome and Interactome. International Journal of Molecular Sciences, 2012, 13, 11593-11609.	1.8	6
111	Effect of affinity Sorbent on proteomic profiling of isatin-binding proteins of mouse brain. Biochemistry (Moscow), 2012, 77, 1326-1338.	0.7	21
112	Chromosome-centric approach to overcoming bottlenecks in the Human Proteome Project. Expert Review of Proteomics, 2012, 9, 667-676.	1.3	37
113	Mass spectrometry detection of monomeric renalase in human urine. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2012, 6, 300-306.	0.2	1
114	Affinity-based proteomic profiling: Problems and achievements. Proteomics, 2012, 12, 621-637.	1.3	38
115	Mass spectrometry label-free quantitative analysis of proteins. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2010, 4, 49-58.	0.2	1
116	Isatin-binding proteins of rat and mouse brain: Proteomic identification and optical biosensor validation. Proteomics, 2010, 10, 23-37.	1.3	57
117	Isatin binding proteins in rat brain: In situ imaging, quantitative characterization of specific [ <sup>3</sup> H]isatin binding, and proteomic profiling. Journal of Neuroscience Research, 2009, 87, 2763-2772.	1.3	35
118	Proteomics of mouse liver microsomes: Performance of different protein separation workflows for LC-MS/MS. Proteomics, 2009, 9, 4102-4105.	1.3	28
119	Mass spectrometry identification of cytochrome P450 2B4 interaction sites for NADPH: Cytochrome P450 reductase. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2009, 3, 361-371.	0.2	0