

Vasily N Popov

List of Publications by Year in Descending Order

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

107
papers

1,172
citations

18
h-index

31
g-index

120
ext. papers

1,545
ext. citations

2.8
avg, IF

4.94
L-index

#	Paper	IF	Citations
107	Changes in the Microbiome Profile in Different Parts of the Intestine in Piglets with Diarrhea.. <i>Animals</i> , 2022 , 12,	3.1	4
106	Effect of l-carnitine and mildronate on the mitochondrial metabolism of heart and bacterial composition of the gut microbiome in ageing mice.. <i>Life Sciences</i> , 2022 , 293, 120333	6.8	
105	Probiotics analysis by high-throughput sequencing revealed multiple mismatches at bacteria genus level with the declared and actual composition. <i>LWT - Food Science and Technology</i> , 2022 , 156, 113055	5.4	1
104	The effect of pesticides on the NADH-supported mitochondrial respiration of permeabilized potato mitochondria.. <i>Pesticide Biochemistry and Physiology</i> , 2022 , 183, 105056	4.9	0
103	Genetic mechanisms of aging in plants: What can we learn from them?. <i>Ageing Research Reviews</i> , 2022 , 101601	12	1
102	Dynamics of Changes in the Gut Microbiota of Healthy Mice Fed with Lactic Acid Bacteria and Bifidobacteria. <i>Microorganisms</i> , 2022 , 10, 1020	4.9	4
101	Study of microbiome changes in patients with ulcerative colitis in the Central European part of Russia. <i>Heliyon</i> , 2021 , 7, e06432	3.6	8
100	Study of the amount of oxidative damage to mitochondrial and chloroplast DNA in clones of white poplar (<i>Populus alba</i> L.) during long-term in vitro cultivation for 26 years. <i>Plant Molecular Biology</i> , 2021 , 106, 479-489	4.6	
99	Nrf2/ARE Activators Improve Memory in Aged Mice via Maintaining of Mitochondrial Quality Control of Brain and the Modulation of Gut Microbiome. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	4
98	The uncoupling of respiration in plant mitochondria: keeping reactive oxygen and nitrogen species under control. <i>Journal of Experimental Botany</i> , 2021 , 72, 793-807	7	4
97	Genetic Features of Dynamics of Heart Rate Variability at Work with Perspective Human Computers Interfaces. <i>Experimental and Applied Psychobiology</i> , 2021 , 14, 172-186	0.6	
96	Toxicity of new fungicides for eukaryotic microorganisms isolated from the gut of the food-important vegetable pollinator <i>Bombus terrestris</i> L.. <i>Vestnik Voronezhskogo Gosudarstvennogo Universiteta in Chernyyh Tehnologiy</i> , 2021 , 82, 54-59	0.4	
95	The connection between rs6265 polymorphism in the gene and successful mastering of the video-oculographic interface. <i>Journal of Integrative Neuroscience</i> , 2021 , 20, 287-296	1.5	
94	The effect of pesticides on the mtDNA integrity and bioenergetic properties of potato mitochondria. <i>Pesticide Biochemistry and Physiology</i> , 2021 , 172, 104764	4.9	1
93	Recycling biological waste using the fly <i>Hermetia illucens</i> , environmental risks and biosafety for Russia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 640, 062028	0.3	
92	Modern methods of processing biowaste of poultry and livestock. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 640, 062029	0.3	
91	Study of the quality and safety of microbiological bioformulations for plant protection and growth stimulation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 640, 022003	0.3	

90	Methylene blue can act as an antidote to pesticide poisoning of bumble bee mitochondria. <i>Scientific Reports</i> , 2021 , 11, 14710	4.9	1
89	Mildronate protects heart mtDNA from oxidative stress toxicity induced by exhaustive physical exercise. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 705, 108892	4.1	2
88	Microbiota of Cow's Milk with Udder Pathologies. <i>Microorganisms</i> , 2021 , 9,	4.9	3
87	The Effect of Pesticides on the Microbiome of Animals. <i>Agriculture (Switzerland)</i> , 2020 , 10, 79	3	10
86	High-Throughput 16S rRNA Gene Sequencing of Butter Microbiota Reveals a Variety of Opportunistic Pathogens. <i>Foods</i> , 2020 , 9,	4.9	4
85	Long-term mildronate treatment increased Proteobacteria level in gut microbiome, and caused behavioral deviations and transcriptome change in liver, heart and brain of healthy mice. <i>Toxicology and Applied Pharmacology</i> , 2020 , 398, 115031	4.6	2
84	The Fenofibrate Effect on Genotoxicity in Brain and Liver and on the Expression of Genes Regulating Fatty Acids Metabolism of Mice. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2020 , 14, 23-32	0.4	0
83	Crosstalk between the mTOR and Nrf2/ARE signaling pathways as a target in the improvement of long-term potentiation. <i>Experimental Neurology</i> , 2020 , 328, 113285	5.7	27
82	Cyclic Synthetic Peroxides Inhibit Growth of Entomopathogenic Fungus without Toxic Effect on Bumblebees. <i>Molecules</i> , 2020 , 25,	4.8	8
81	Effect of long-term methylene blue treatment on the composition of mouse gut microbiome and its relationship with the cognitive abilities of mice. <i>PLoS ONE</i> , 2020 , 15, e0241784	3.7	4
80	Current Approaches in Diabetes Mellitus Prediction: Applications of Machine Learning and Emerging Biomarkers 2020 , 893-906		
79	Diagnostics of Polymerus Hahn (Heteroptera, Miridae) Species Group Including Agricultural Pests in the East European Forest-Steppe, Based on Morphological and Molecular Characters. <i>Entomological Review</i> , 2020 , 100, 827-836	0.4	
78	INTEGRAL ANALYSIS OF GENOMIC AND TRANSCRIPTOMIC CHANGES IN CLEAR CELL RENAL CELL CARCINOMA IN THE RUSSIAN POPULATION. <i>Siberian Journal of Oncology</i> , 2020 , 18, 39-49	0.3	
77	CORRELATION OF BDNF, TOMM40, APOE, AQP5 GENE POLYMORPHISMS AND EFFICACY OF HUMAN - COMPUTER INTERFACES. <i>Ulyanovsk Medico-biological Journal</i> , 2020 , 110-121	0.2	
76	Lung cancer increases HO concentration in the exhaled breath condensate, extent of mtDNA damage, and mtDNA copy number in buccal mucosa. <i>Heliyon</i> , 2020 , 6, e04303	3.6	3
75	p62-Nrf2-p62 Mitophagy Regulatory Loop as a Target for Preventive Therapy of Neurodegenerative Diseases. <i>Brain Sciences</i> , 2020 , 10,	3.4	8
74	Method for detection of mtDNA damages for evaluating of pesticides toxicity for bumblebees (<i>Bombus terrestris</i> L.). <i>Pesticide Biochemistry and Physiology</i> , 2020 , 169, 104675	4.9	3
73	The Use of DNA Barcoding and Metabarcoding for Food and Environment Quality Control. <i>Springer Geography</i> , 2020 , 111-124	0.4	2

72	Quality Control of Bee-Collected Pollen Using Bumblebee Microcolonies and Molecular Approaches Reveals No Correlation Between Pollen Quality and Pathogen Presence. <i>Journal of Economic Entomology</i> , 2019 , 112, 49-59	2.2	2
71	Connection between polymorphisms in HTR2A, TPH2, BDNF, TOMM40 genes and the successful mastering of human-computer interfaces. <i>Journal of Genetics</i> , 2019 , 98, 1	1.2	1
70	Regulation of Mitochondrial Biogenesis as a Way for Active Longevity: Interaction Between the Nrf2 and PGC-1 β Signaling Pathways. <i>Frontiers in Genetics</i> , 2019 , 10, 435	4.5	176
69	Predictive Estimates of Risks Associated with Type 2 Diabetes Mellitus on the Basis of Biochemical Biomarkers and Derived Time-Dependent Parameters. <i>Journal of Computational Biology</i> , 2019 , 26, 1041-1049	1.7	1
68	Methylene blue does not bypass Complex III antimycin block in mouse brain mitochondria. <i>FEBS Letters</i> , 2019 , 593, 499-503	3.8	12
67	Unique features of flight muscles mitochondria of honey bees (<i>Apis mellifera</i> L.). <i>Archives of Insect Biochemistry and Physiology</i> , 2019 , 102, e21595	2.3	5
66	Methylene blue elicits non-genotoxic HO production and protects brain mitochondria from rotenone toxicity.. <i>Journal of Applied Biomedicine</i> , 2019 , 17, 107-114	0.6	6
65	Genotypic variability of <i>Pinus sylvestris</i> L. on the drought-resistance attribute. <i>Vavilovskii Zhurnal Genetiki i Seleksii</i> , 2019 , 23, 15-23	0.9	1
64	IDENTIFICATION OF CONTAMINATION OF SALMON MEAT BY DNA FROM BACTERIA OF THE PSEUDOMONAS FLUORESCENS GROUP IN THE IMPLEMENTATION OF THE DNA BARCODING OF PRODUCTS OF JAPANESE CUISINE. <i>Gigiena i Sanitariia</i> , 2019 , 96, 483-488	0.4	
63	Targeted sequencing to discover germline variants in the BRCA1 and BRCA2 genes in a Russian population and their association with breast cancer risk. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2019 , 813, 51-57	3.3	5
62	Nrf2/ARE Pathway as a Therapeutic Target for the Treatment of Parkinson Diseases. <i>Neurochemical Research</i> , 2019 , 44, 2273-2279	4.6	26
61	L-Guanidinopropionic Acid Stimulates Brain Mitochondria Biogenesis and Alters Cognitive Behavior in Nondiseased Mid-Age Mice. <i>Journal of Experimental Neuroscience</i> , 2018 , 12, 1179069518766524	3.6	7
60	A Molecular Method for the Identification of Honey Bee Subspecies Used by Beekeepers in Russia. <i>Insects</i> , 2018 , 9,	2.8	7
59	STUDY OF THE MICROBIOLOGICAL COMPOSITION OF DAIRY PRODUCTS AND MAYONNAISE USING DNA BARCODING AND METABARCODING. <i>Foods and Raw Materials</i> , 2018 , 6, 144-153	1.3	2
58	The University's Innovative Activity and the Real Sector of the Economy. <i>Vysshee Obrazovanie V Rossii</i> , 2018 , 27, 111-116	1.3	3
57	Development and validation of a TaqMan RT-PCR method for identification of mayonnaise spoilage yeast <i>Pichia kudriavzevii</i> . <i>AMB Express</i> , 2018 , 8, 186	4.1	5
56	Taqman RT-PCR Analysis for the Identification of the Osmotolerant Yeast <i>Zygosaccharomyces rouxii</i> . <i>Applied Biochemistry and Microbiology</i> , 2018 , 54, 682-688	1.1	2
55	A simple molecular method for rapid identification of commercially used <i>Amblyseius</i> and <i>Neoseiulus</i> species (Acari: Phytoseiidae). <i>Zootaxa</i> , 2018 , 4394, 270-278	0.5	1

54	Divalent cation chelators citrate and EDTA unmask an intrinsic uncoupling pathway in isolated mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 2017 , 49, 3-11	3.7	1
53	Evaluation of the toxicity of fungicides to flight muscle mitochondria of bumblebee (<i>Bombus terrestris</i> L.). <i>Pesticide Biochemistry and Physiology</i> , 2017 , 135, 41-46	4.9	18
52	Simplified qPCR method for detecting excessive mtDNA damage induced by exogenous factors. <i>Toxicology</i> , 2017 , 382, 67-74	4.4	22
51	A review of the biomedical innovations for healthy longevity. <i>Aging</i> , 2017 , 9, 7-25	5.6	18
50	DNA barcoding and morphological analysis for rapid identification of most economically important crop-infesting Sunn pests belonging to Laporte, 1833 (Hemiptera, Scutelleridae). <i>ZooKeys</i> , 2017 , 51-71	1.2	4
49	Changes in levels of metabolic pathway gene expression under conditions of clear cell renal carcinoma. <i>Doklady Biochemistry and Biophysics</i> , 2017 , 474, 159-161	0.8	
48	State of <i>Pinus sylvestris</i> L. generative sphere according to cytogenetic analysis in changing climate conditions on the territory of Voronezh oblast. <i>Contemporary Problems of Ecology</i> , 2017 , 10, 271-276	0.8	1
47	Quantitative detection of low-abundance somatic structural variants in normal cells by high-throughput sequencing. <i>Nature Methods</i> , 2016 , 13, 584-6	21.6	8
46	The effect of fenofibrate on expression of genes involved in fatty acids beta-oxidation and associated free-radical processes. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2016 , 10, 70-74	0.4	1
45	Changes in chloroplast ultrastructure of tobacco plants in the course of protection from oxidative stress under hypothermia. <i>Russian Journal of Plant Physiology</i> , 2016 , 63, 301-307	1.6	7
44	Methylene blue improves sensorimotor phenotype and decreases anxiety in parallel with activating brain mitochondria biogenesis in mid-age mice. <i>Neuroscience Research</i> , 2016 , 113, 19-27	2.9	16
43	Production of reactive oxygen species by flight muscle mitochondria of the bumblebee (<i>Bombus terrestris</i> L.). <i>Doklady Biochemistry and Biophysics</i> , 2015 , 463, 229-31	0.8	3
42	Improved transposon-based library preparation for the Ion Torrent platform. <i>BioTechniques</i> , 2015 , 58, 200-2	2.5	10
41	Rapid mitochondrial DNA isolation method for direct sequencing. <i>Methods in Molecular Biology</i> , 2015 , 1264, 89-95	1.4	7
40	Feedback Loop of Non-coupled Respiration and Reactive Oxygen Species Production in Plant Mitochondria. <i>Signaling and Communication in Plants</i> , 2015 , 79-88	1	1
39	Scavenging of H ₂ O ₂ by mouse brain mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 2014 , 46, 471-7	3.7	48
38	Mitochondrial energy-dissipating systems (alternative oxidase, uncoupling proteins, and external NADH dehydrogenase) are involved in development of frost-resistance of winter wheat seedlings. <i>Biochemistry (Moscow)</i> , 2014 , 79, 506-19	2.9	27
37	Phytochrome-mediated regulation of plant respiration and photorespiration. <i>Plant, Cell and Environment</i> , 2014 , 37, 290-9	8.4	43

36	Characteristics of functioning of succinate dehydrogenase from flight muscles of the bumblebee <i>Bombus terrestris</i> (L.). <i>Biology Bulletin</i> , 2013 , 40, 429-434	0.5	2
35	Isolation and properties of flight muscle mitochondria of the bumblebee <i>Bombus terrestris</i> (L.). <i>Biochemistry (Moscow)</i> , 2013 , 78, 909-14	2.9	12
34	Fast mitochondrial DNA isolation from mammalian cells for next-generation sequencing. <i>BioTechniques</i> , 2013 , 55, 133-6	2.5	47
33	The role of promoter methylation in the regulation of genes encoding succinate dehydrogenase in maize seedlings. <i>Russian Journal of Plant Physiology</i> , 2012 , 59, 299-306	1.6	13
32	Cytogenetic response of Scots pine (<i>Pinus sylvestris</i> Linnaeus, 1753) (Pinaceae) to heavy metals. <i>Comparative Cytogenetics</i> , 2012 , 6, 93-106	1	5
31	Activation of genes encoding mitochondrial proteins involved in alternative and uncoupled respiration of tomato plants treated with low temperature and reactive oxygen species. <i>Russian Journal of Plant Physiology</i> , 2011 , 58, 914-920	1.6	8
30	Involvement of hydrogen peroxide in the regulation of coexpression of alternative oxidase and rotenone-insensitive NADH dehydrogenase in tomato leaves and calluses. <i>Biology Bulletin</i> , 2011 , 38, 36-41	0.5	1
29	Preparation and properties of isocitrate lyase isoforms from the cotyledons of <i>Glycine max</i> L.. <i>Applied Biochemistry and Microbiology</i> , 2010 , 46, 93-98	1.1	1
28	Role of differential expression of <i>sdh1-1</i> and <i>sdh1-2</i> genes in alteration of isoenzyme composition of succinate dehydrogenase in germinating maize seeds. <i>Biology Bulletin</i> , 2010 , 37, 268-276	0.5	6
27	Succinate dehydrogenase in <i>Arabidopsis thaliana</i> is regulated by light via phytochrome A. <i>FEBS Letters</i> , 2010 , 584, 199-202	3.8	50
26	Physicochemical and kinetic characteristics of isoforms of isocitrate lyase from corn. <i>Biochemistry (Moscow)</i> , 2009 , 74, 528-32	2.9	4
25	Physical, chemical, and regulatory properties of glycolate oxidase in C3 and C4 plants. <i>Russian Journal of Plant Physiology</i> , 2009 , 56, 164-167	1.6	2
24	The role of UCP2 and ADP/ATP antiporter in superoxide radical-induced uncoupling in kidney mitochondria. <i>Doklady Biochemistry and Biophysics</i> , 2008 , 423, 328-30	0.8	1
23	Carbohydrate metabolism in the liver of rats in food deprivation and experimental diabetes. <i>Biology Bulletin</i> , 2008 , 35, 99-101	0.5	1
22	Role of transamination in the mobilization of respiratory substrates in germinating seeds of castor oil plants. <i>Applied Biochemistry and Microbiology</i> , 2007 , 43, 341-346	1.1	4
21	Light regulation of succinate dehydrogenase expression in <i>Arabidopsis thaliana</i> leaves. <i>Russian Journal of Plant Physiology</i> , 2007 , 54, 360-365	1.6	13
20	Participation of ATP/ADP antiporter in oleate- and oleate hydroperoxide-induced uncoupling suppressed by GDP and carboxyatractylate. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006 , 1757, 1324-9	4.6	44
19	Comparative Analysis of Glyoxylate Cycle Key Enzyme Isocitrate Lyase from Organisms of Different Systematic Groups. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2005 , 41, 631-639	0.5	12

18	Distribution and Properties of Glycolate Oxidase from Bundle Sheath and Mesophyll Cells of Green Amaranth Leaves (<i>Amaranthus retroflexus</i>). <i>Russian Journal of Plant Physiology</i> , 2005 , 52, 553-558	1.6	4
17	The Effect of Tobacco Plant Transformation with a Gene for Acyl-Lipid β -Desaturase from <i>Synechococcus vulcanus</i> on Plant Chilling Tolerance. <i>Russian Journal of Plant Physiology</i> , 2005 , 52, 664-667	1.6	9
16	Purification and properties of isocitrate lyase from pupas of the butterfly <i>Papilio machaon</i> L. <i>Biochemistry (Moscow)</i> , 2004 , 69, 376-80	2.9	1
15	NADH oxidation by mitochondria from the thermogenic plant <i>Arum orientale</i> . <i>Biochemistry (Moscow)</i> , 2004 , 69, 580-4	2.9	4
14	Dispersal of Land Snails of the Genus <i>Xeropicta</i> Monterosato, 1892 (Gastropoda; Pulmonata; Hygromiidae). <i>Russian Journal of Ecology</i> , 2004 , 35, 263-266	0.7	2
13	Possible role of free oxidation processes in the regulation of reactive oxygen species production in plant mitochondria. <i>Biochemical Society Transactions</i> , 2003 , 31, 1316-7	5.1	22
12	Effect of electron-transport inhibitors on the generation of reactive oxygen species by pea mitochondria during succinate oxidation. <i>Biochemistry (Moscow)</i> , 2003 , 68, 747-51	2.9	13
11	Glycolate oxidase isoforms are distributed between the bundle sheath and mesophyll tissues of maize leaves. <i>Journal of Plant Physiology</i> , 2003 , 160, 851-7	3.6	20
10	Induction of aconitate hydratase in hepatocytes of starving rats. <i>Biochemistry (Moscow)</i> , 2002 , 67, 795-801	3.9	3
9	Subcellular Localization of Oxaloacetate Decarboxylase and Its Isolation from Maize Leaves. <i>Russian Journal of Plant Physiology</i> , 2002 , 49, 635-640	1.6	1
8	Effects of cold exposure in vivo and uncouplers and recouplers in vitro on potato tuber mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002 , 1553, 232-7	4.6	16
7	Induction of a peroxisomal malate dehydrogenase isoform in liver of starved rats. <i>Biochemistry (Moscow)</i> , 2001 , 66, 496-501	2.9	6
6	Stress-induced changes in ubiquinone concentration and alternative oxidase in plant mitochondria. <i>Bioscience Reports</i> , 2001 , 21, 369-79	4.1	29
5	Glyoxylate cycle enzymes are present in liver peroxisomes of alloxan-treated rats. <i>FEBS Letters</i> , 1998 , 440, 55-8	3.8	17
4	Inhibition of the alternative oxidase stimulates H ₂ O ₂ production in plant mitochondria. <i>FEBS Letters</i> , 1997 , 415, 87-90	3.8	140
3	Induction of glyoxylate cycle enzymes in rat liver upon food starvation. <i>FEBS Letters</i> , 1996 , 390, 258-60	3.8	29
2	Alternative system of succinate oxidation in glyoxysomes of higher plants. <i>FEBS Letters</i> , 1995 , 367, 287-90	3.8	20
1	A new approach to increasing the equilibrium swelling ratio of the composite superabsorbents based on carboxymethyl cellulose sodium salt. <i>Cellulose</i> , 1995 , 1, 1-10	5.5	1

