

Vasily N Popov

List of Publications by Citations

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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 | 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 |
| 106 | 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 |
| 105 | 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 |
| 104 | Scavenging of H ₂ O ₂ by mouse brain mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 2014 , 46, 471-7 | 3.7 | 48 |
| 103 | Fast mitochondrial DNA isolation from mammalian cells for next-generation sequencing. <i>BioTechniques</i> , 2013 , 55, 133-6 | 2.5 | 47 |
| 102 | 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 |
| 101 | Phytochrome-mediated regulation of plant respiration and photorespiration. <i>Plant, Cell and Environment</i> , 2014 , 37, 290-9 | 8.4 | 43 |
| 100 | Stress-induced changes in ubiquinone concentration and alternative oxidase in plant mitochondria. <i>Bioscience Reports</i> , 2001 , 21, 369-79 | 4.1 | 29 |
| 99 | Induction of glyoxylate cycle enzymes in rat liver upon food starvation. <i>FEBS Letters</i> , 1996 , 390, 258-60 | 3.8 | 29 |
| 98 | 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 |
| 97 | 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 |
| 96 | Nrf2/ARE Pathway as a Therapeutic Target for the Treatment of Parkinson Diseases. <i>Neurochemical Research</i> , 2019 , 44, 2273-2279 | 4.6 | 26 |
| 95 | Simplified qPCR method for detecting excessive mtDNA damage induced by exogenous factors. <i>Toxicology</i> , 2017 , 382, 67-74 | 4.4 | 22 |
| 94 | 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 |
| 93 | 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 |
| 92 | Alternative system of succinate oxidation in glyoxysomes of higher plants. <i>FEBS Letters</i> , 1995 , 367, 287-308 | 3.0 | 20 |
| 91 | 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 |

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| 90 | A review of the biomedical innovations for healthy longevity. <i>Aging</i> , 2017 , 9, 7-25 | 5.6 | 18 |
| 89 | Glyoxylate cycle enzymes are present in liver peroxisomes of alloxan-treated rats. <i>FEBS Letters</i> , 1998 , 440, 55-8 | 3.8 | 17 |
| 88 | 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 |
| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | Methylene blue does not bypass Complex III antimycin block in mouse brain mitochondria. <i>FEBS Letters</i> , 2019 , 593, 499-503 | 3.8 | 12 |
| 82 | 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 |
| 81 | 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 |
| 80 | The Effect of Pesticides on the Microbiome of Animals. <i>Agriculture (Switzerland)</i> , 2020 , 10, 79 | 3 | 10 |
| 79 | Improved transposon-based library preparation for the Ion Torrent platform. <i>BioTechniques</i> , 2015 , 58, 200-2 | 2.5 | 10 |
| 78 | The Effect of Tobacco Plant Transformation with a Gene for Acyl-Lipid Δ -Desaturase from <i>Synechococcus vulcanus</i> on Plant Chilling Tolerance. <i>Russian Journal of Plant Physiology</i> , 2005 , 52, 664-667 | 1.6 | 9 |
| 77 | Cyclic Synthetic Peroxides Inhibit Growth of Entomopathogenic Fungus without Toxic Effect on Bumblebees. <i>Molecules</i> , 2020 , 25, | 4.8 | 8 |
| 76 | 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 |
| 75 | 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 |
| 74 | p62-Nrf2-p62 Mitophagy Regulatory Loop as a Target for Preventive Therapy of Neurodegenerative Diseases. <i>Brain Sciences</i> , 2020 , 10, | 3.4 | 8 |
| 73 | 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 |

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| 72 | EGuanidinopropionic 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 |
| 71 | A Molecular Method for the Identification of Honey Bee Subspecies Used by Beekeepers in Russia. <i>Insects</i> , 2018 , 9, | 2.8 | 7 |
| 70 | Rapid mitochondrial DNA isolation method for direct sequencing. <i>Methods in Molecular Biology</i> , 2015 , 1264, 89-95 | 1.4 | 7 |
| 69 | 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 |
| 68 | Role of differential expression of sdh1-1 and sdh1-2 genes in alteration of isoenzyme composition of succinate dehydrogenase in germinating maize seeds. <i>Biology Bulletin</i> , 2010 , 37, 268-276 | 0.5 | 6 |
| 67 | Induction of a peroxisomal malate dehydrogenase isoform in liver of starved rats. <i>Biochemistry (Moscow)</i> , 2001 , 66, 496-501 | 2.9 | 6 |
| 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 | 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 |
| 64 | 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 |
| 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 | 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 |
| 61 | High-Throughput 16S rRNA Gene Sequencing of Butter Microbiota Reveals a Variety of Opportunistic Pathogens. <i>Foods</i> , 2020 , 9, | 4.9 | 4 |
| 60 | 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 |
| 59 | Physicochemical and kinetic characteristics of isoforms of isocitrate lyase from corn. <i>Biochemistry (Moscow)</i> , 2009 , 74, 528-32 | 2.9 | 4 |
| 58 | 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 |
| 57 | NADH oxidation by mitochondria from the thermogenic plant <i>Arum orientale</i> . <i>Biochemistry (Moscow)</i> , 2004 , 69, 580-4 | 2.9 | 4 |
| 56 | 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 |
| 55 | Changes in the Microbiome Profile in Different Parts of the Intestine in Piglets with Diarrhea.. <i>Animals</i> , 2022 , 12, | 3.1 | 4 |

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| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | Induction of aconitate hydratase in hepatocytes of starving rats. <i>Biochemistry (Moscow)</i> , 2002 , 67, 795-801 | | 3 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | Microbiota of Cow's Milk with Udder Pathologies. <i>Microorganisms</i> , 2021 , 9, | 4.9 | 3 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | The Use of DNA Barcoding and Metabarcoding for Food and Environment Quality Control. <i>Springer Geography</i> , 2020 , 111-124 | 0.4 | 2 |
| 37 | 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 |

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| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 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 | 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 |
| 27 | Carbohydrate metabolism in the liver of rats in food deprivation and experimental diabetes. <i>Biology Bulletin</i> , 2008 , 35, 99-101 | 0.5 | 1 |
| 26 | 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 |
| 25 | 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 |
| 24 | A new approach to increasing the equilibrium swelling ratio of the composite superabsorbents based on carboxymethyl cellulose sodium salt. <i>Cellulose</i> , 1 | 5.5 | 1 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |

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|----|--|-----|---|
| 18 | Methylene blue can act as an antidote to pesticide poisoning of bumble bee mitochondria. <i>Scientific Reports</i> , 2021 , 11, 14710 | 4.9 | 1 |
| 17 | Genetic mechanisms of aging in plants: What can we learn from them?. <i>Ageing Research Reviews</i> , 2022 , 101601 | 12 | 1 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 | |
| 13 | 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 | |
| 12 | Current Approaches in Diabetes Mellitus Prediction: Applications of Machine Learning and Emerging Biomarkers 2020 , 893-906 | | |
| 11 | 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 | |
| 10 | 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 | |
| 9 | 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 | |
| 8 | 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 | |
| 7 | 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 | |
| 6 | Genetic Features of Dynamics of Heart Rate Variability at Work with Perspective Human Computers Interfaces. <i>Experimental Psychology</i> , 2021 , 14, 172-186 | 0.6 | |
| 5 | 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 Chernykh Tehnologij</i> , 2021 , 82, 54-59 | 0.4 | |
| 4 | 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 | |
| 3 | 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 | |
| 2 | Modern methods of processing biowaste of poultry and livestock. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 640, 062029 | 0.3 | |
| 1 | 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 | |

