Olga O Babich

List of Publications by Year
in descending order

73	1,313	393982	414034
papers	citations	19 h-index	32 g-index

78	78	78	1222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spirocyclic Motifs in Natural Products. Molecules, 2019, 24, 4165.	1.7	124
2	Microalgae: A Promising Source of Valuable Bioproducts. Biomolecules, 2020, 10, 1153.	1.8	117
3	Effects of material characteristics on the structural characteristics and flavor substances retention of meat analogs. Food Hydrocolloids, 2020, 105, 105752.	5.6	109
4	Antimicrobial potential of ZnO, TiO2 and SiO2 nanoparticles in protecting building materials from biodegradation. International Biodeterioration and Biodegradation, 2020, 146, 104821.	1.9	80
5	Overview of Global Trends in Classification, Methods of Preparation and Application of Bacteriocins. Antibiotics, 2020, 9, 553.	1.5	75
6	Medicinal Plants to Strengthen Immunity during a Pandemic. Pharmaceuticals, 2020, 13, 313.	1.7	42
7	Apoptosis-mediated endothelial toxicity but not direct calcification or functional changes in anti-calcification proteins defines pathogenic effects of calcium phosphate bions. Scientific Reports, 2016, 6, 27255.	1.6	37
8	Functional properties of the enzyme-modified protein from oat bran. Food Bioscience, 2018, 24, 46-49.	2.0	36
9	In vivo study of medical and biological properties of functional bakery products with the addition of pumpkin flour. Bioactive Carbohydrates and Dietary Fibre, 2017, 12, 20-24.	1.5	34
10	Recombinant <scp>l</scp>â€phenylalanine ammonia lyase from Rhodosporidium toruloides as a potential anticancer agent. Biotechnology and Applied Biochemistry, 2013, 60, 316-322.	1.4	32
11	The effect of postharvest ultraviolet irradiation on the content of antioxidant compounds and the activity of antioxidant enzymes in tomato. Heliyon, 2020, 6, e03288.	1.4	32
12	Modern Trends in the In Vitro Production and Use of Callus, Suspension Cells and Root Cultures of Medicinal Plants. Molecules, 2020, 25, 5805.	1.7	30
13	Algae: Study of Edible and Biologically Active Fractions, Their Properties and Applications. Plants, 2022, 11, 780.	1.6	30
14	Influence of Carbohydrate Additives on the Growth Rate of Microalgae Biomass with an Increased Carbohydrate Content. Marine Drugs, 2021, 19, 381.	2.2	27
15	Production, Purification, and Study of the Amino Acid Composition of Microalgae Proteins. Molecules, 2021, 26, 2767.	1.7	26
16	Alginate Lyases from Marine Bacteria: An Enzyme Ocean for Sustainable Future. Molecules, 2022, 27, 3375.	1.7	26
17	Short Chain Fatty Acids (SCFA) Reprogram Gene Expression in Human Malignant Epithelial and Lymphoid Cells. PLoS ONE, 2016, 11, e0154102.	1.1	25
18	Study of Morphological Features and Determination of the Fatty Acid Composition of the Microalgae Lipid Complex. Biomolecules, 2020, 10, 1571.	1.8	25

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19	Identification and quantification of phenolic compounds of Western Siberia Astragalus danicus in different regions. Heliyon, 2019, 5, e02245.	1.4	22
20	Future of Chondroprotectors in the Treatment of Degenerative Processes of Connective Tissue. Pharmaceuticals, 2020, 13, 220.	1.7	20
21	INVESTIGATING ANTIBIOTIC ACTIVITY OF THE GENUS BACILLUS STRAINS AND PROPERTIES OF THEIR BACTERIOCINS IN ORDER TO DEVELOP NEXT-GENERATION PHARMACEUTICALS. Foods and Raw Materials, 2016, 4, 92-100.	0.8	20
22	Comparative Analysis of Physical and Chemical Properties of Biodegradable Edible Films of Various Compositions. Journal of Food Process Engineering, 2017, 40, e12331.	1.5	19
23	In vivo study of the potential of the carbohydrate-mineral complex from pine nut shells as an ingredient of functional food products. Bioactive Carbohydrates and Dietary Fibre, 2019, 18, 100185.	1.5	17
24	The Process of Producing Bioethanol from Delignified Cellulose Isolated from Plants of the Miscanthus Genus. Bioengineering, 2020, 7, 61.	1.6	14
25	Antibiotic activity and resistance of lactic acid bacteria and other antagonistic bacteriocin-producing microorganisms. Foods and Raw Materials, 2020, 8, 377-384.	0.8	14
26	Chondroprotection and Molecular Mechanism of Action of Phytonutraceuticals on Osteoarthritis. Molecules, 2021, 26, 2391.	1.7	13
27	OAT PROTEIN CONCENTRATE PRODUCTION. Foods and Raw Materials, 2018, 6, 47-55.	0.8	13
28	Suspensions of metal nanoparticles as a basis for protection of internal surfaces of building structures from biodegradation. Case Studies in Construction Materials, 2020, 12, e00319.	0.8	12
29	Quantitative and qualitative profile of biologically active substances extracted from purple echinacea (EChinacea Purpurea L.) growing in the Kemerovo region: functional foods application. Foods and Raw Materials, 2019, , 84-92.	0.8	12
30	Effects of Biopreservatives Combined with Modified Atmosphere Packaging on the Quality of Apples and Tomatoes. Polish Journal of Food and Nutrition Sciences, 2019, 69, 289-296.	0.6	12
31	Assessment of the Resource Potential of Baltic Sea Macroalgae. Applied Sciences (Switzerland), 2022, 12, 3599.	1.3	11
32	Physicochemical properties and biological activity of extracts of dried biomass of callus and suspension cells and in vitro root cultures. Food Processing: Techniques and Technology, 2020, 50, 480-492.	0.3	10
33	Miscanthus plants processing in fuel, energy, chemical and microbiological industries. Foods and Raw Materials, 2019, , 403-411.	0.8	10
34	Phytochemical Analysis of Symphytum officinale Root Culture Extract. Applied Sciences (Switzerland), 2021, 11, 4478.	1.3	9
35	ANALYSIS OF INFLUENCE OF BIOHUMUS ON THE BASIS OF CONSORTIUM OF EFFECTIVE MICROORGANISMS ON THE PRODUCTIVITY OF WINTER WHEAT. Foods and Raw Materials, 2017, 5, 90-99.	0.8	9
36	Bioactive Carbohydrate Polymersâ€"Between Myth and Reality. Molecules, 2021, 26, 7068.	1.7	9

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37	Cellulolytic and Xylanolytic Enzymes from Yeasts: Properties and Industrial Applications. Molecules, 2022, 27, 3783.	1.7	9
38	Determination of cinnamic acid by capillary zone electrophoresis using ion-pair reagents. Journal of Analytical Chemistry, 2012, 67, 474-477.	0.4	8
39	Associations of polymorphisms in the cytokine genes IL1Î² (rs16944), IL6 (rs1800795), IL12b (rs3212227) and growth factor VEGFA (rs2010963) with anthracosilicosis in coal miners in Russia and related genotoxic effects. Mutagenesis, 2018, 33, 129-135.	1.0	8
40	A Study of the Antioxidant, Cytotoxic Activity and Adsorption Properties of Karelian Shungite by Physicochemical Methods. Antioxidants, 2021, 10, 1121.	2.2	8
41	Sea Buckthorn and Rosehip Oils with Chokeberry Extract to Prevent Hypercholesterolemia in Mice Caused by a High-Fat Diet In Vivo. Nutrients, 2020, 12, 2941.	1.7	7
42	Study of the Potential of the Capsule Shell Based on Natural Polysaccharides in Targeted Delivery of the L-Phenylalanine Ammonia-Lyase Enzyme Preparation. Pharmaceuticals, 2020, 13, 63.	1.7	7
43	Methods of Increasing Miscanthus Biomass Yield for Biofuel Production. Energies, 2021, 14, 8368.	1.6	7
44	Study of the Biologically Active Properties of Medicinal Plant Cotinus coggygria. Plants, 2021, 10, 1224.	1.6	6
45	Review of Studies on Joint Recovery of Macroalgae and Marine Debris by Hydrothermal Liquefaction. Applied Sciences (Switzerland), 2022, 12, 569.	1.3	6
46	Plants of the Russian Federation pharmacopeia: an unexhausted natural products research opportunity?. Natural Product Research, 2020, 35, 1-3.	1.0	5
47	Study of the Properties of In Vitro Dactylorhiza maculata (L.) SoÃ³ (Family Orchidaceae) Extracts. Plants, 2021, 10, 1330.	1.6	5
48	Phytotherapeutic Approaches to the Prevention of Age-Related Changes and the Extension of Active Longevity. Molecules, 2022, 27, 2276.	1.7	5
49	Comparative Analysis of Collagen-Containing Waste Biodegradation, Amino Acid, Peptide and Carbohydrate Composition of Hydrolysis Products. Applied Sciences (Switzerland), 2021, 11, 11511.	1.3	5
50	The effectiveness of plant hydrocolloids at maintaining the quality characteristics of the encapsulated form of L-phenylalanine-ammonia-lyase. Heliyon, 2020, 6, e03096.	1.4	4
51	Determination of the Qualitative Composition of Biologically-Active Substances of Extracts of In Vitro Callus, Cell Suspension, and Root Cultures of the Medicinal Plant Rhodiola rosea. Biomolecules, 2021, 11, 365.	1.8	4
52	Oat Protein Concentrate As Part of Curd Product for Sport Nutrition. Food Processing: Techniques and Technology, 2019, 49, 345-355.	0.3	4
53	Structure and properties of antimicrobial peptides produced by antagonist microorganisms isolated from Siberian natural objects. Foods and Raw Materials, 2022, , 27-39.	0.8	4
54	Recovery and Use of Recycled Carbon Fibers from Composites Based on Phenol-Formaldehyde Resins. Recycling, 2022, 7, 22.	2.3	4

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55	Chemical Composition and Content of Biologically Active Substances Found in Cotinus coggygria, Dactylorhiza maculata, Platanthera chlorantha Growing in Various Territories. Plants, 2021, 10, 2806.	1.6	4
56	Antimicrobial Screening and Fungicidal Properties of EucalÃ½ptus globulus Ultrasonic Extracts. Plants, 2022, 11, 1441.	1.6	4
57	Feasibility of Old Bark and Wood Waste Recycling. Plants, 2022, 11, 1549.	1.6	4
58	Determination of the Qualitative Composition of Biologically Active Substances of Extracts of In Vitro Callus, Cell Suspension, and Root Cultures of the Medicinal Plant Rhaponticum carthamoides. Applied Sciences (Switzerland), 2021, 11, 2555.	1.3	3
59	Evaluation of the Conditions for the Cultivation of Callus Cultures of Hyssopus officinalis Regarding the Yield of Polyphenolic Compounds. Plants, 2021, 10, 915.	1.6	3
60	Antimicrobial Potential of Microorganisms Isolated from the Bottom Sediments of Lake Baikal. Antibiotics, 2021, 10, 927.	1.5	3
61	First Insight into the Diversity and Antibacterial Potential of Psychrophilic and Psychotrophic Microbial Communities of Abandoned Amber Quarry. Microorganisms, 2021, 9, 1521.	1.6	3
62	Improvement of Enzymatic Saccharification of Cellulose-Containing Raw Materials Using Aspergillus niger. Processes, 2021, 9, 1360.	1.3	3
63	Isolation of Valuable Biological Substances from Microalgae Culture. Foods, 2022, 11, 1654.	1.9	3
64	Bioethanol Production from Miscanthus sinensis Cellulose by Bioconversion. Food Processing: Techniques and Technology, 2021, 51, 387-394.	0.3	2
65	Production Technology for Oat Protein with Advanced Physicochemical, Functional, and Technological Properties. Food Processing: Techniques and Technology, 2019, 49, 216-226.	0.3	2
66	Bioengineering and Molecular Biology of Miscanthus. Energies, 2022, 15, 4941.	1.6	2
67	Efficient Expression of Recombinant L-phenylalanine Ammonia-lyase From Rhodosporidium toruloides using Escherichia coli. Journal of Applied Biotechnology, 2013, 2, 24.	0.1	1
68	Opportunities for using biologically active substances Rhodiola rosea L. in the production of functional food with consideration for antimicrobial activity. E3S Web of Conferences, 2020, 176, 01011.	0.2	1
69	Hydrolysis of the Red Blood Cells of Pig and Cattle to Ensure Optimum Conditions for the Manufacturing of Iron-Containing Products Having Maximum Heme Iron. Biology and Medicine (Aligarh), 2016, 8, .	0.3	1
70	Study of the l-Phenylalanine Ammonia-Lyase Penetration Kinetics and the Efficacy of Phenylalanine Catabolism Correction Using In Vitro Model Systems. Pharmaceutics, 2021, 13, 383.	2.0	0
71	Study of the Antimicrobial Potential of Bacteria found in Natural Resources. Journal of Pure and Applied Microbiology, 2021, 15, 759-771.	0.3	0
72	Evaluation of Biocompatibility and Antagonistic Properties of Microorganisms Isolated from Natural Sources for Obtaining Biofertilizers Using Microalgae Hydrolysate. Microorganisms, 2021, 9, 1667.	1.6	0

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73	Analysis of the Parameters of Lactulose Drying in Terms of Yield and Quality of the Finished Product. Biosciences, Biotechnology Research Asia, 2015, 12, 2325-2331.	0.2	0