

Tatiana Kulakovskaya

List of Publications by Year in descending order

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79
papers

1,545
citations

304368

22
h-index

360668

35
g-index

80
all docs

80
docs citations

80
times ranked

1248
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyphosphate and Phosphate Pump. Annual Review of Microbiology, 2000, 54, 709-734.	2.9	164
2	New aspects of inorganic polyphosphate metabolism and function. Journal of Bioscience and Bioengineering, 1999, 88, 111-129.	1.1	110
3	Inorganic polyphosphate in industry, agriculture and medicine: Modern state and outlook. Process Biochemistry, 2012, 47, 1-10.	1.8	97
4	Ustilagic acid secretion by strains. FEMS Yeast Research, 2005, 5, 919-923.	1.1	64
5	Inorganic Polyphosphates and Exopolyphosphatases in Cell Compartments of the Yeast <i>Saccharomyces cerevisiae</i> Under Inactivation of PPX1 and PPN1 Genes. Bioscience Reports, 2006, 26, 45-54.	1.1	49
6	Inorganic polyphosphates and heavy metal resistance in microorganisms. World Journal of Microbiology and Biotechnology, 2018, 34, 139.	1.7	49
7	ATP leakage from yeast cells treated by extracellular glycolipids of. FEMS Yeast Research, 2003, 3, 401-404.	1.1	39
8	Production of Antifungal Cellobiose Lipids by <i>Trichosporon porosum</i> . Mycopathologia, 2010, 169, 117-123.	1.3	39
9	Exopolyphosphatases of the yeast. FEMS Yeast Research, 2003, 3, 233-238.	1.1	38
10	Characterization of an antifungal glycolipid secreted by the yeast. FEMS Yeast Research, 2004, 5, 247-252.	1.1	38
11	Extracellular Cellobiose Lipid from Yeast and Their Analogues: Structures and Fungicidal Activities. Journal of Oleo Science, 2009, 58, 133-140.	0.6	38
12	Accumulation of phosphate and polyphosphate by <i>Cryptococcus humicola</i> and <i>Saccharomyces cerevisiae</i> in the absence of nitrogen. FEMS Yeast Research, 2012, 12, 617-624.	1.1	34
13	Inorganic polyphosphate in mitochondria of at phosphate limitation and phosphate excess. FEMS Yeast Research, 2004, 4, 643-648.	1.1	32
14	Polyphosphatase PPN1 of <i>Saccharomyces cerevisiae</i> : Switching of Exopolyphosphatase and Endopolyphosphatase Activities. PLoS ONE, 2015, 10, e0119594.	1.1	31
15	Purification and Properties of Exopolyphosphatase from the Cytosol of <i>Saccharomyces cerevisiae</i> Not Encoded by the PPX1 Gene. Biochemistry (Moscow), 2004, 69, 387-393.	0.7	30
16	Adaptation of <i>Saccharomyces cerevisiae</i> to toxic manganese concentration triggers changes in inorganic polyphosphates. FEMS Yeast Research, 2013, 13, 463-470.	1.1	30
17	Formation of insoluble magnesium phosphates during growth of the archaea <i>Haloarobacterium salinarum</i> and the bacterium <i>Brevibacterium anticum</i> . FEMS Microbiology Ecology, 2005, 52, 129-137.	1.3	27
18	Synthesis of magneto-sensitive iron-containing nanoparticles by yeasts. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 657-663.	1.4	27

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19	Effects of inactivation of the gene on exopolyphosphatases, inorganic polyphosphates and function of mitochondria in the yeast. <i>FEMS Yeast Research</i> , 2005, 5, 823-828.	1.1	26
20	Membrane-bound and soluble polyphosphatases of mitochondria of <i>Saccharomyces cerevisiae</i> : identification and comparative characterization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1372, 153-162.	1.4	24
21	Cytoplasmic inorganic polyphosphate participates in the heavy metal tolerance of <i>Cryptococcus humicola</i> . <i>Folia Microbiologica</i> , 2014, 59, 381-389.	1.1	24
22	Efflux of potassium ions from cells and spheroplasts of <i>Saccharomyces cerevisiae</i> yeast treated with silver and copper ions. <i>Biochemistry (Moscow)</i> , 2008, 73, 1224-1227.	0.7	23
23	Polyphosphates and exopolyphosphatase activities in the yeast <i>Saccharomyces cerevisiae</i> under overexpression of homologous and heterologous PPN1 genes. <i>Biochemistry (Moscow)</i> , 2013, 78, 946-953.	0.7	23
24	Inactivation of PPX1 and PPN1 genes encoding exopolyphosphatases of <i>Saccharomyces cerevisiae</i> does not prevent utilization of polyphosphates as phosphate reserve. <i>Biochemistry (Moscow)</i> , 2008, 73, 985-989.	0.7	22
25	Inorganic polyphosphates in mitochondria. <i>Biochemistry (Moscow)</i> , 2010, 75, 825-831.	0.7	22
26	Ppn2 endopolyphosphatase overexpressed in <i>Saccharomyces cerevisiae</i> : Comparison with Ppn1, Ppx1, and Ddp1 polyphosphatases. <i>Biochimie</i> , 2019, 163, 101-107.	1.3	22
27	High molecular mass exopolyphosphatase from the cytosol of the yeast <i>Saccharomyces cerevisiae</i> is encoded by the PPN1 gene. <i>Biochemistry (Moscow)</i> , 2006, 71, 975-977.	0.7	21
28	Inorganic polyphosphate and exopolyphosphatase in the nuclei of <i>Saccharomyces cerevisiae</i> : dependence on the growth phase and inactivation of the PPX1 and PPN1 genes. <i>Yeast</i> , 2006, 23, 735-740.	0.8	18
29	Triterpenoid saponins from the roots of <i>Acanthophyllum gypsophiloides</i> Regel. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 763-775.	1.3	18
30	Mannan and phosphomannan from <i>Kuraishia capsulata</i> yeast. <i>Carbohydrate Polymers</i> , 2018, 181, 624-632.	5.1	17
31	The Reduced Level of Inorganic Polyphosphate Mobilizes Antioxidant and Manganese-Resistance Systems in <i>Saccharomyces cerevisiae</i> . <i>Cells</i> , 2019, 8, 461.	1.8	17
32	Fungicidal activity of cellobiose lipids from culture broth of yeast <i>Cryptococcus humicola</i> and <i>Pseudozyma fusiformata</i> . <i>Russian Journal of Bioorganic Chemistry</i> , 2007, 33, 156-160.	0.3	16
33	Phosphate accumulation of <i>Acetobacter xylinum</i> . <i>Archives of Microbiology</i> , 2009, 191, 467-471.	1.0	16
34	Inorganic polyphosphates and exopolyphosphatases in different cell compartments of <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , 2006, 71, 1171-1175.	0.7	15
35	Enzymes of Inorganic Polyphosphate Metabolism. <i>Progress in Molecular and Subcellular Biology</i> , 2013, 54, 39-63.	0.9	15
36	Transcriptome profile of yeast reveals the essential role of PMA2 and uncharacterized gene YBR056W-A (MNC1) in adaptation to toxic manganese concentration. <i>Metallomics</i> , 2017, 9, 175-182.	1.0	15

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37	Accumulation of Polyphosphates and Expression of High Molecular Weight Exopolyphosphatase in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , 2005, 70, 980-985.	0.7	14
38	Diversity of phosphorus reserves in microorganisms. <i>Biochemistry (Moscow)</i> , 2014, 79, 1602-1614.	0.7	14
39	Purification and properties of polyphosphatase from <i>Saccharomyces cerevisiae</i> cytosol. , 1998, 14, 383-390.		13
40	PPX1 gene overexpression has no influence on polyphosphates in <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , 2014, 79, 1211-1215.	0.7	13
41	The cadmium tolerance in <i>Saccharomyces cerevisiae</i> depends on inorganic polyphosphate. <i>Journal of Basic Microbiology</i> , 2017, 57, 982-986.	1.8	13
42	Inorganic polyphosphate in the yeast <i>Saccharomyces cerevisiae</i> with a mutation disturbing the function of vacuolar ATPase. <i>Biochemistry (Moscow)</i> , 2010, 75, 1052-1054.	0.7	12
43	The biosorption of cadmium and cobalt and iron ions by yeast <i>Cryptococcus humicola</i> at nitrogen starvation. <i>Folia Microbiologica</i> , 2018, 63, 507-510.	1.1	12
44	Properties of Partially Purified Endopolyphosphatase of the Yeast <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , 2010, 75, 1404-1407.	0.7	11
45	Nuclear exopolyphosphatase of is not encoded by the gene encoding the major yeast exopolyphosphatase. <i>FEMS Yeast Research</i> , 2003, 3, 113-117.	1.1	10
46	Two exopolyphosphatases in <i>Saccharomyces cerevisiae</i> cytosol at different culture conditions. <i>Process Biochemistry</i> , 2004, 39, 1625-1630.	1.8	10
47	V-ATPase dysfunction suppresses polyphosphate synthesis in <i>Saccharomyces cerevisiae</i> . <i>Folia Microbiologica</i> , 2013, 58, 437-441.	1.1	9
48	Inorganic Polyphosphate and Cancer. <i>Biochemistry (Moscow)</i> , 2018, 83, 961-968.	0.7	9
49	The effect of inactivation of the exo-and endopolyphosphatase genes PPX1 and PPN1 on the level of different polyphosphates in the yeast <i>Saccharomyces cerevisiae</i> . <i>Microbiology</i> , 2006, 75, 25-28.	0.5	7
50	Effects of cellobiose lipid B on <i>Saccharomyces cerevisiae</i> cells: K ⁺ leakage and inhibition of polyphosphate accumulation. <i>Microbiology</i> , 2008, 77, 288-292.	0.5	7
51	Polyphosphates and polyphosphatase activity in the yeast <i>Saccharomyces cerevisiae</i> during overexpression of the DDP1 gene. <i>Biochemistry (Moscow)</i> , 2015, 80, 1312-1317.	0.7	7
52	Purification and properties of recombinant exopolyphosphatase PPN1 and effects of its overexpression on polyphosphate in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 52-56.	1.1	7
53	Inorganic Polyphosphate and Physiological Properties of <i>Saccharomyces cerevisiae</i> Yeast Overexpressing Ppn2. <i>Biochemistry (Moscow)</i> , 2020, 85, 516-522.	0.7	7
54	VTC4 Polyphosphate Polymerase Knockout Increases Stress Resistance of <i>Saccharomyces cerevisiae</i> Cells. <i>Biology</i> , 2021, 10, 487.	1.3	7

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55	Partial Purification and Characterization of Nuclear Exopolyphosphatase from <i>Saccharomyces cerevisiae</i> Strain with Inactivated PPX1 Gene Encoding a Major Yeast Exopolyphosphatase. <i>Biochemistry (Moscow)</i> , 2004, 69, 270-274.	0.7	6
56	Manganese tolerance in yeasts involves polyphosphate, magnesium, and vacuolar alterations. <i>Folia Microbiologica</i> , 2016, 61, 311-317.	1.1	6
57	The early stage of polyphosphate accumulation in <i>Saccharomyces cerevisiae</i> : comparative study by extraction and DAPI staining. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2011, 02, 293-297.	0.3	5
58	Decrease of phosphate concentration in the medium by <i>Brevibacterium casei</i> cells. <i>Microbiology</i> , 2007, 76, 663-668.	0.5	4
59	Inorganic polyphosphates and sensitivity of <i>Saccharomyces cerevisiae</i> cells to membrane-damaging agents. <i>Microbiology</i> , 2011, 80, 10-14.	0.5	4
60	Extracellular phosphomannan as a phosphate reserve in the yeast <i>Kuraishia capsulata</i> . <i>Biochemistry (Moscow)</i> , 2013, 78, 674-677.	0.7	4
61	Metabolism of Yeast Extracellular Glycolipids. , 2014, , 65-74.		4
62	The role of mineral phosphorus compounds in naphthalene biodegradation by <i>Pseudomonas putida</i> . <i>Applied Biochemistry and Microbiology</i> , 2015, 51, 202-208.	0.3	4
63	The acid phosphatase Pho5 of <i>Saccharomyces cerevisiae</i> is not involved in polyphosphate breakdown. <i>Folia Microbiologica</i> , 2019, 64, 867-873.	1.1	4
64	Polyphosphatase PPX1 of <i>Saccharomyces cerevisiae</i> as a Tool for Polyphosphate Assay. <i>Advances in Enzyme Research</i> , 2015, 03, 93-100.	0.7	4
65	Specific Features of Metabolism and Functions of High-Molecular Inorganic Polyphosphates in Yeasts as Representatives of Lower Eukaryotes. <i>Molecular Biology</i> , 2005, 39, 482-494.	0.4	3
66	Inactivation of the PPN1 gene exerts different effects on the metabolism of inorganic polyphosphates in the cytosol and the vacuoles of the yeast <i>Saccharomyces cerevisiae</i> . <i>Microbiology</i> , 2006, 75, 253-258.	0.5	3
67	Polyphosphates as an energy source for growth of <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , 2014, 79, 478-482.	0.7	3
68	Inorganic polyphosphate in methylotrophic yeasts. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 5235-5244.	1.7	3
69	Changes in cell wall structure and protein set in <i>Candida maltosa</i> grown on hexadecane. <i>Folia Microbiologica</i> , 2021, 66, 247-253.	1.1	3
70	Finding of endopolyphosphatase activity in the yeast <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , 2009, 74, 842-845.	0.7	2
71	Effect of Fe on inorganic polyphosphate level in autotrophic and heterotrophic cells of <i>Rhodospirillum rubrum</i> . <i>Archives of Microbiology</i> , 2019, 201, 1307-1312.	1.0	2
72	Enzymes of Polyphosphate Metabolism in Yeast: Properties, Functions, Practical Significance. <i>Biochemistry (Moscow)</i> , 2021, 86, S96-S108.	0.7	2

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73	Stress Resistance of <i>Saccharomyces cerevisiae</i> Strains Overexpressing Yeast Polyphosphatases. <i>Stresses</i> , 2022, 2, 17-25.	1.8	2
74	The patterns of utilization and accumulation of polyphosphates in the cytosol of the yeast <i>Saccharomyces cerevisiae</i> under inactivation of exopolyphosphatase genes PPX1 and PPN1. <i>Microbiology</i> , 2009, 78, 304-307.	0.5	1
75	Inorganic polyphosphates of different fractions in the mutant yeast <i>Saccharomyces cerevisiae</i> with impaired mitochondrial ATP synthesis. <i>Microbiology</i> , 2010, 79, 30-33.	0.5	1
76	The Role of Inorganic Polyphosphates in Stress Response and Regulation of Enzyme Activities in Yeast. , 2016, , 3-14.		1
77	Yeast Polyphosphatases PPX1 and PPN1: Properties, Functions, and Localization. , 2016, , 15-33.		1
78	Polyphosphatase PPN1 of <i>Saccharomyces cerevisiae</i> Is a Deoxyadenosine Triphosphate Phosphohydrolase. <i>Advances in Enzyme Research</i> , 2016, 04, 144-151.	0.7	1
79	Phosphate efflux as a test of plasma membrane leakage in <i>Saccharomyces cerevisiae</i> cells. <i>Canadian Journal of Microbiology</i> , 2021, 67, 226-230.	0.8	0