Tatiana Kulakovskaya

List of Publications by Year in Descending Order

79 papers	1,221 citations	20 h-index	31 g-index
80 ext. papers	1,379 ext. citations	3.1 avg, IF	4.5 L-index

#	Paper	IF	Citations
79	Stress Resistance of Saccharomyces cerevisiae Strains Overexpressing Yeast Polyphosphatases. *Stresses*, **2022**, 2, 17-25		0
78	Polyphosphate Polymerase Knockout Increases Stress Resistance of Cells. *Biology*, **2021**, 10,	4.9	1
77	Changes in cell wall structure and protein set in Candida maltosa grown on hexadecane. *Folia Microbiologica*, **2021**, 66, 247-253	2.8	0
76	Phosphate efflux as a test of plasma membrane leakage in cells. *Canadian Journal of Microbiology*, **2021**, 67, 226-230	3.2	
75	Enzymes of Polyphosphate Metabolism in Yeast: Properties, Functions, Practical Significance. *Biochemistry (Moscow)*, **2021**, 86, S96-S108	2.9	1
74	Inorganic Polyphosphate and Physiological Properties of Saccharomyces cerevisiae Yeast Overexpressing Ppn2. *Biochemistry (Moscow)*, **2020**, 85, 516-522	2.9	2
73	Ppn2 endopolyphosphatase overexpressed in Saccharomyces cerevisiae: Comparison with Ppn1, Ppx1, and Ddp1 polyphosphatases. *Biochimie*, **2019**, 163, 101-107	4.6	11
72	The Reduced Level of Inorganic Polyphosphate Mobilizes Antioxidant and Manganese-Resistance Systems in. *Cells*, **2019**, 8,	7.9	8
71	The acid phosphatase Pho5 of Saccharomyces cerevisiae is not involved in polyphosphate breakdown. *Folia Microbiologica*, **2019**, 64, 867-873	2.8	0
70	Effect of Fe on inorganic polyphosphate level in autotrophic and heterotrophic cells of Rhodospirillum rubrum. *Archives of Microbiology*, **2019**, 201, 1307-1312	3	1
69	Inorganic polyphosphate in methylotrophic yeasts. *Applied Microbiology and Biotechnology*, **2018**, 102, 5235-5244	5.7	1
68	The biosorption of cadmium and cobalt and iron ions by yeast Cryptococcus humicola at nitrogen starvation. *Folia Microbiologica*, **2018**, 63, 507-510	2.8	6
67	Mannan and phosphomannan from Kuraishia capsulata yeast. *Carbohydrate Polymers*, **2018**, 181, 624-632	10.3	10
66	Inorganic Polyphosphate and Cancer. *Biochemistry (Moscow)*, **2018**, 83, 961-968	2.9	6
65	Inorganic polyphosphates and heavy metal resistance in microorganisms. *World Journal of Microbiology and Biotechnology*, **2018**, 34, 139	4.4	29
64	Transcriptome profile of yeast reveals the essential role of PMA2 and uncharacterized gene YBR056W-A (MNC1) in adaptation to toxic manganese concentration. *Metallomics*, **2017**, 9, 175-182	4.5	8
63	The cadmium tolerance in Saccharomyces cerevisiae depends on inorganic polyphosphate. *Journal of Basic Microbiology*, **2017**, 57, 982-986	2.7	10

62	Yeast Polyphosphatases PPX1 and PPN1: Properties, Functions, and Localization **2016**, 15-33		1
61	Manganese tolerance in yeasts involves polyphosphate, magnesium, and vacuolar alterations. *Folia Microbiologica*, **2016**, 61, 311-7	2.8	5
60	Polyphosphatase PPN1 of <i>Saccharomyces cerevisiae</i> Is a Deoxyadenosine Triphosphate Phosphohydrolase. *Advances in Enzyme Research*, **2016**, 04, 144-151	0.7	1
59	The Role of Inorganic Polyphosphates in Stress Response and Regulation of Enzyme Activities in Yeast **2016**, 3-14		0
58	The role of mineral phosphorus compounds in naphthalene biodegradation by Pseudomonas putida. *Applied Biochemistry and Microbiology*, **2015**, 51, 202-208	1.1	4
57	Polyphosphates and Polyphosphatase Activity in the Yeast Saccharomyces cerevisiae during Overexpression of the DDP1 Gene. *Biochemistry (Moscow)*, **2015**, 80, 1312-7	2.9	7
56	Polyphosphatase PPN1 of Saccharomyces cerevisiae: switching of exopolyphosphatase and endopolyphosphatase activities. *PLoS ONE*, **2015**, 10, e0119594	3.7	25
55	Purification and properties of recombinant exopolyphosphatase PPN1 and effects of its overexpression on polyphosphate in Saccharomyces cerevisiae. *Journal of Bioscience and Bioengineering*, **2015**, 119, 52-6	3.3	7
54	Polyphosphatase PPX1 of <i>Saccharomyces cerevisiae</i> as a Tool for Polyphosphate Assay. *Advances in Enzyme Research*, **2015**, 03, 93-100	0.7	3
53	Synthesis of magneto-sensitive iron-containing nanoparticles by yeasts. *Journal of Industrial Microbiology and Biotechnology*, **2014**, 41, 657-63	4.2	19
52	Cytoplasmic inorganic polyphosphate participates in the heavy metal tolerance of Cryptococcus humicola. *Folia Microbiologica*, **2014**, 59, 381-9	2.8	22
51	Polyphosphates as an energy source for growth of Saccharomyces cerevisiae. *Biochemistry (Moscow)*, **2014**, 79, 478-82	2.9	3
50	PPX1 gene overexpression has no influence on polyphosphates in Saccharomyces cerevisiae. *Biochemistry (Moscow)*, **2014**, 79, 1211-5	2.9	12
49	Diversity of phosphorus reserves in microorganisms. *Biochemistry (Moscow)*, **2014**, 79, 1602-14	2.9	11
48	Metabolism of Yeast Extracellular Glycolipids **2014**, 65-74		4
47	Extracellular phosphomannan as a phosphate reserve in the yeast Kuraishia capsulata. *Biochemistry (Moscow)*, **2013**, 78, 674-7	2.9	2
46	Polyphosphates and exopolyphosphatase activities in the yeast Saccharomyces cerevisiae under overexpression of homologous and heterologous PPN1 genes. *Biochemistry (Moscow)*, **2013**, 78, 946-53	2.9	19
45	V-ATPase dysfunction suppresses polyphosphate synthesis in Saccharomyces cerevisiae. *Folia Microbiologica*, **2013**, 58, 437-41	2.8	9

44	Adaptation of Saccharomyces cerevisiae to toxic manganese concentration triggers changes in inorganic polyphosphates. *FEMS Yeast Research*, **2013**, 13, 463-70	3.1	23
43	Enzymes of inorganic polyphosphate metabolism. *Progress in Molecular and Subcellular Biology*, **2013**, 54, 39-63	3	11
42	Accumulation of phosphate and polyphosphate by Cryptococcus humicola and Saccharomyces cerevisiae in the absence of nitrogen. *FEMS Yeast Research*, **2012**, 12, 617-24	3.1	29
41	Inorganic polyphosphate in industry, agriculture and medicine: Modern state and outlook. *Process Biochemistry*, **2012**, 47, 1-10	4.8	66
40	Triterpenoid saponins from the roots of Acanthophyllum gypsophiloides Regel. *Beilstein Journal of Organic Chemistry*, **2012**, 8, 763-75	2.5	15
39	The early stage of polyphosphate accumulation in <i>saccharomyces cerevisiae</i>: comparative study by extraction and DAPI staining. *Advances in Bioscience and Biotechnology (Print)*, **2011**, 02, 293-297	0.9	4
38	Inorganic polyphosphates and sensitivity of Saccharomyces cerevisiae cells to membrane-damaging agents. *Microbiology*, **2011**, 80, 10-14	1.4	3
37	Inorganic polyphosphates in mitochondria. *Biochemistry (Moscow)*, **2010**, 75, 825-31	2.9	15
36	Inorganic polyphosphate in the yeast Saccharomyces cerevisiae with a mutation disturbing the function of vacuolar ATPase. *Biochemistry (Moscow)*, **2010**, 75, 1052-4	2.9	12
35	Properties of partially purified endopolyphosphatase of the yeast Saccharomyces cerevisiae. *Biochemistry (Moscow)*, **2010**, 75, 1404-7	2.9	11
34	Inorganic polyphosphates of different fractions in the mutant yeast Saccharomyces cerevisiae with impaired mitochondrial ATP synthesis. *Microbiology*, **2010**, 79, 30-33	1.4	0
33	Production of antifungal cellobiose lipids by Trichosporon porosum. *Mycopathologia*, **2010**, 169, 117-23	2.9	35
32	Phosphate accumulation of Acetobacter xylinum. *Archives of Microbiology*, **2009**, 191, 467-71	3	16
31	Finding of endopolyphosphatase activity in the yeast Saccharomyces cerevisiae. *Biochemistry (Moscow)*, **2009**, 74, 842-5	2.9	1
30	The patterns of utilization and accumulation of polyphosphates in the cytosol of the yeast Saccharomyces cerevisiae under inactivation of exopolyphosphatase genes PPX1 and PPN1. *Microbiology*, **2009**, 78, 304-307	1.4	0
29	Extracellular cellobiose lipid from yeast and their analogues: structures and fungicidal activities. *Journal of Oleo Science*, **2009**, 58, 133-40	1.6	34
28	Inactivation of PPX1 and PPN1 genes encoding exopolyphosphatases of Saccharomyces cerevisiae does not prevent utilization of polyphosphates as phosphate reserve. *Biochemistry (Moscow)*, **2008**, 73, 985-9	2.9	21
27	Efflux of potassium ions from cells and spheroplasts of Saccharomyces cerevisiae yeast treated with silver and copper ions. *Biochemistry (Moscow)*, **2008**, 73, 1224-7	2.9	14

26	Effects of cellobiose lipid B on Saccharomyces cerevisiae cells: K+ leakage and inhibition of polyphosphate accumulation. *Microbiology*, **2008**, 77, 288-292	1.4	4
25	Decrease of phosphate concentration in the medium by Brevibacterium casei cells. *Microbiology*, **2007**, 76, 663-668	1.4	4
24	Fungicidal activity of cellobiose lipids from culture broth of yeast Cryptococcus humicola and Pseudozyma fusiformata. *Russian Journal of Bioorganic Chemistry*, **2007**, 33, 156-160	1	10
23	Inorganic polyphosphate and exopolyphosphatase in the nuclei of Saccharomyces cerevisiae: dependence on the growth phase and inactivation of the PPX1 and PPN1 genes. *Yeast*, **2006**, 23, 735-40	3.4	15
22	High molecular mass exopolyphosphatase from the cytosol of the yeast Saccharomyces cerevisiae is encoded by the PPN1 gene. *Biochemistry (Moscow)*, **2006**, 71, 975-7	2.9	19
21	Inorganic polyphosphates and exopolyphosphatases in different cell compartments of Saccharomyces cerevisiae. *Biochemistry (Moscow)*, **2006**, 71, 1171-5	2.9	12
20	The effect of inactivation of the exo-and endopolyphosphatase genes PPX1 and PPN1 on the level of different polyphosphates in the yeast Saccharomyces cerevisiae. *Microbiology*, **2006**, 75, 25-28	1.4	4
19	Inactivation of the PPN1 gene exerts different effects on the metabolism of inorganic polyphosphates in the cytosol and the vacuoles of the yeast Saccharomyces cerevisiae. *Microbiology*, **2006**, 75, 253-258	1.4	2
18	Inorganic polyphosphates and exopolyphosphatases in cell compartments of the yeast Saccharomyces cerevisiae under inactivation of PPX1 and PPN1 genes. *Bioscience Reports*, **2006**, 26, 45-54	4.1	42
17	Formation of insoluble magnesium phosphates during growth of the archaea Halorubrum distributum and Halobacterium salinarium and the bacterium Brevibacterium antiquum. *FEMS Microbiology Ecology*, **2005**, 52, 129-37	4.3	22
16	Effects of inactivation of the PPN1 gene on exopolyphosphatases, inorganic polyphosphates and function of mitochondria in the yeast Saccharomyces cerevisiae. *FEMS Yeast Research*, **2005**, 5, 823-8	3.1	23
15	Ustilagic acid secretion by Pseudozyma fusiformata strains. *FEMS Yeast Research*, **2005**, 5, 919-23	3.1	55
14	Specific Features of Metabolism and Functions of High-Molecular Inorganic Polyphosphates in Yeasts as Representatives of Lower Eukaryotes. *Molecular Biology*, **2005**, 39, 482-494	1.2	2
13	Accumulation of polyphosphates and expression of high molecular weight exopolyphosphatase in the yeast Saccharomyces cerevisiae. *Biochemistry (Moscow)*, **2005**, 70, 980-5	2.9	13
12	Partial purification and characterization of nuclear exopolyphosphatase from Saccharomyces cerevisiae strain with inactivated PPX1 gene encoding a major yeast exopolyphosphatase. *Biochemistry (Moscow)*, **2004**, 69, 270-4	2.9	5
11	Purification and properties of exopolyphosphatase from the cytosol of Saccharomyces cerevisiae not encoded by the PPX1 gene. *Biochemistry (Moscow)*, **2004**, 69, 387-93	2.9	15
10	Two exopolyphosphatases in Saccharomyces cerevisiae cytosol at different culture conditions. *Process Biochemistry*, **2004**, 39, 1625-1630	4.8	9
9	Inorganic polyphosphate in mitochondria of Saccharomyces cerevisiae at phosphate limitation and phosphate excess. *FEMS Yeast Research*, **2004**, 4, 643-8	3.1	29

8	Characterization of an antifungal glycolipid secreted by the yeast Sympodiomycopsis paphiopedili. *FEMS Yeast Research*, **2004**, 5, 247-52	3.1	32
7	ATP leakage from yeast cells treated by extracellular glycolipids of Pseudozyma fusiformata. *FEMS Yeast Research*, **2003**, 3, 401-4	3.1	31
6	Exopolyphosphatases of the yeast Saccharomyces cerevisiae. *FEMS Yeast Research*, **2003**, 3, 233-8	3.1	32
5	Nuclear exopolyphosphatase of Saccharomyces cerevisiae is not encoded by the PPX1 gene encoding the major yeast exopolyphosphatase. *FEMS Yeast Research*, **2003**, 3, 113-7	3.1	8
4	Polyphosphate and phosphate pump. *Annual Review of Microbiology*, **2000**, 54, 709-34	17.5	144
3	New aspects of inorganic polyphosphate metabolism and function. *Journal of Bioscience and Bioengineering*, **1999**, 88, 111-29	3.3	99
2	Purification and properties of polyphosphatase from Saccharomyces cerevisiae cytosol. *Yeast*, **1998** , 14, 383-90	3.4	11
1	Membrane-bound and soluble polyphosphatases of mitochondria of Saccharomyces cerevisiae: identification and comparative characterization. *Biochimica Et Biophysica Acta - Biomembranes*, **1998**, 1372, 153-62	3.8	21