

# Tatiana Kulakovskaya

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1704250/tatiana-kulakovskaya-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Polyphosphate and phosphate pump. <i>Annual Review of Microbiology</i> , <b>2000</b> , 54, 709-34	17.5	144
78	New aspects of inorganic polyphosphate metabolism and function. <i>Journal of Bioscience and Bioengineering</i> , <b>1999</b> , 88, 111-29	3.3	99
77	Inorganic polyphosphate in industry, agriculture and medicine: Modern state and outlook. <i>Process Biochemistry</i> , <b>2012</b> , 47, 1-10	4.8	66
76	Ustilagic acid secretion by <i>Pseudozyma fusiformata</i> strains. <i>FEMS Yeast Research</i> , <b>2005</b> , 5, 919-23	3.1	55
75	Inorganic polyphosphates and exopolyphosphatases in cell compartments of the yeast <i>Saccharomyces cerevisiae</i> under inactivation of PPX1 and PPN1 genes. <i>Bioscience Reports</i> , <b>2006</b> , 26, 45-54 <sup>1</sup>	4.1	42
74	Production of antifungal cellobiose lipids by <i>Trichosporon porosum</i> . <i>Mycopathologia</i> , <b>2010</b> , 169, 117-23	2.9	35
73	Extracellular cellobiose lipid from yeast and their analogues: structures and fungicidal activities. <i>Journal of Oleo Science</i> , <b>2009</b> , 58, 133-40	1.6	34
72	Characterization of an antifungal glycolipid secreted by the yeast <i>Sympodiomyopsis paphiopedili</i> . <i>FEMS Yeast Research</i> , <b>2004</b> , 5, 247-52	3.1	32
71	Exopolyphosphatases of the yeast <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , <b>2003</b> , 3, 233-8	3.1	32
70	ATP leakage from yeast cells treated by extracellular glycolipids of <i>Pseudozyma fusiformata</i> . <i>FEMS Yeast Research</i> , <b>2003</b> , 3, 401-4	3.1	31
69	Accumulation of phosphate and polyphosphate by <i>Cryptococcus humicola</i> and <i>Saccharomyces cerevisiae</i> in the absence of nitrogen. <i>FEMS Yeast Research</i> , <b>2012</b> , 12, 617-24	3.1	29
68	Inorganic polyphosphate in mitochondria of <i>Saccharomyces cerevisiae</i> at phosphate limitation and phosphate excess. <i>FEMS Yeast Research</i> , <b>2004</b> , 4, 643-8	3.1	29
67	Inorganic polyphosphates and heavy metal resistance in microorganisms. <i>World Journal of Microbiology and Biotechnology</i> , <b>2018</b> , 34, 139	4.4	29
66	Polyphosphatase PPN1 of <i>Saccharomyces cerevisiae</i> : switching of exopolyphosphatase and endopolyphosphatase activities. <i>PLoS ONE</i> , <b>2015</b> , 10, e0119594	3.7	25
65	Adaptation of <i>Saccharomyces cerevisiae</i> to toxic manganese concentration triggers changes in inorganic polyphosphates. <i>FEMS Yeast Research</i> , <b>2013</b> , 13, 463-70	3.1	23
64	Effects of inactivation of the PPN1 gene on exopolyphosphatases, inorganic polyphosphates and function of mitochondria in the yeast <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , <b>2005</b> , 5, 823-8	3.1	23
63	Cytoplasmic inorganic polyphosphate participates in the heavy metal tolerance of <i>Cryptococcus humicola</i> . <i>Folia Microbiologica</i> , <b>2014</b> , 59, 381-9	2.8	22

62	Formation of insoluble magnesium phosphates during growth of the archaea Halorubrum distributum and Halobacterium salinarium and the bacterium Brevibacterium antiquum. <i>FEMS Microbiology Ecology</i> , <b>2005</b> , 52, 129-37	4.3	22
61	Membrane-bound and soluble polyphosphatases of mitochondria of <i>Saccharomyces cerevisiae</i> : identification and comparative characterization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1998</b> , 1372, 153-62	3.8	21
60	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> , <b>2008</b> , 73, 985-9	2.9	21
59	Synthesis of magneto-sensitive iron-containing nanoparticles by yeasts. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2014</b> , 41, 657-63	4.2	19
58	Polyphosphates and exopolyphosphatase activities in the yeast <i>Saccharomyces cerevisiae</i> under overexpression of homologous and heterologous PPN1 genes. <i>Biochemistry (Moscow)</i> , <b>2013</b> , 78, 946-53	2.9	19
57	High molecular mass exopolyphosphatase from the cytosol of the yeast <i>Saccharomyces cerevisiae</i> is encoded by the PPN1 gene. <i>Biochemistry (Moscow)</i> , <b>2006</b> , 71, 975-7	2.9	19
56	Phosphate accumulation of <i>Acetobacter xylinum</i> . <i>Archives of Microbiology</i> , <b>2009</b> , 191, 467-71	3	16
55	Triterpenoid saponins from the roots of <i>Acanthophyllum gypsophiloides</i> Regel. <i>Beilstein Journal of Organic Chemistry</i> , <b>2012</b> , 8, 763-75	2.5	15
54	Inorganic polyphosphates in mitochondria. <i>Biochemistry (Moscow)</i> , <b>2010</b> , 75, 825-31	2.9	15
53	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> , <b>2006</b> , 23, 735-40	3.4	15
52	Purification and properties of exopolyphosphatase from the cytosol of <i>Saccharomyces cerevisiae</i> not encoded by the PPX1 gene. <i>Biochemistry (Moscow)</i> , <b>2004</b> , 69, 387-93	2.9	15
51	Efflux of potassium ions from cells and spheroplasts of <i>Saccharomyces cerevisiae</i> yeast treated with silver and copper ions. <i>Biochemistry (Moscow)</i> , <b>2008</b> , 73, 1224-7	2.9	14
50	Accumulation of polyphosphates and expression of high molecular weight exopolyphosphatase in the yeast <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , <b>2005</b> , 70, 980-5	2.9	13
49	PPX1 gene overexpression has no influence on polyphosphates in <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , <b>2014</b> , 79, 1211-5	2.9	12
48	Inorganic polyphosphate in the yeast <i>Saccharomyces cerevisiae</i> with a mutation disturbing the function of vacuolar ATPase. <i>Biochemistry (Moscow)</i> , <b>2010</b> , 75, 1052-4	2.9	12
47	Inorganic polyphosphates and exopolyphosphatases in different cell compartments of <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , <b>2006</b> , 71, 1171-5	2.9	12
46	Ppn2 endopolyphosphatase overexpressed in <i>Saccharomyces cerevisiae</i> : Comparison with Ppn1, Ppx1, and Ddp1 polyphosphatases. <i>Biochimie</i> , <b>2019</b> , 163, 101-107	4.6	11
45	Diversity of phosphorus reserves in microorganisms. <i>Biochemistry (Moscow)</i> , <b>2014</b> , 79, 1602-14	2.9	11

44	Enzymes of inorganic polyphosphate metabolism. <i>Progress in Molecular and Subcellular Biology</i> , <b>2013</b> , 54, 39-63	3	11
43	Properties of partially purified endopolyphosphatase of the yeast <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , <b>2010</b> , 75, 1404-7	2.9	11
42	Purification and properties of polyphosphatase from <i>Saccharomyces cerevisiae</i> cytosol. <i>Yeast</i> , <b>1998</b> , 14, 383-90	3.4	11
41	The cadmium tolerance in <i>Saccharomyces cerevisiae</i> depends on inorganic polyphosphate. <i>Journal of Basic Microbiology</i> , <b>2017</b> , 57, 982-986	2.7	10
40	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> , <b>2007</b> , 33, 156-160	1	10
39	Mannan and phosphomannan from <i>Kuraishia capsulata</i> yeast. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 624-632	2.3	10
38	V-ATPase dysfunction suppresses polyphosphate synthesis in <i>Saccharomyces cerevisiae</i> . <i>Folia Microbiologica</i> , <b>2013</b> , 58, 437-41	2.8	9
37	Two exopolyphosphatases in <i>Saccharomyces cerevisiae</i> cytosol at different culture conditions. <i>Process Biochemistry</i> , <b>2004</b> , 39, 1625-1630	4.8	9
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> , <b>2017</b> , 9, 175-182	4.5	8
35	The Reduced Level of Inorganic Polyphosphate Mobilizes Antioxidant and Manganese-Resistance Systems in. <i>Cells</i> , <b>2019</b> , 8,	7.9	8
34	Nuclear exopolyphosphatase of <i>Saccharomyces cerevisiae</i> is not encoded by the PPX1 gene encoding the major yeast exopolyphosphatase. <i>FEMS Yeast Research</i> , <b>2003</b> , 3, 113-7	3.1	8
33	Polyphosphates and Polyphosphatase Activity in the Yeast <i>Saccharomyces cerevisiae</i> during Overexpression of the DDP1 Gene. <i>Biochemistry (Moscow)</i> , <b>2015</b> , 80, 1312-7	2.9	7
32	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> , <b>2015</b> , 119, 52-6	3.3	7
31	The biosorption of cadmium and cobalt and iron ions by yeast <i>Cryptococcus humicola</i> at nitrogen starvation. <i>Folia Microbiologica</i> , <b>2018</b> , 63, 507-510	2.8	6
30	Inorganic Polyphosphate and Cancer. <i>Biochemistry (Moscow)</i> , <b>2018</b> , 83, 961-968	2.9	6
29	Manganese tolerance in yeasts involves polyphosphate, magnesium, and vacuolar alterations. <i>Folia Microbiologica</i> , <b>2016</b> , 61, 311-7	2.8	5
28	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> , <b>2004</b> , 69, 270-4	2.9	5
27	The role of mineral phosphorus compounds in naphthalene biodegradation by <i>Pseudomonas putida</i> . <i>Applied Biochemistry and Microbiology</i> , <b>2015</b> , 51, 202-208	1.1	4

26	Metabolism of Yeast Extracellular Glycolipids <b>2014</b> , 65-74		4
25	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> , <b>2011</b> , 02, 293-297	0.9	4
24	Effects of cellobiose lipid B on <i>Saccharomyces cerevisiae</i> cells: K <sup>+</sup> leakage and inhibition of polyphosphate accumulation. <i>Microbiology</i> , <b>2008</b> , 77, 288-292	1.4	4
23	Decrease of phosphate concentration in the medium by <i>Brevibacterium casei</i> cells. <i>Microbiology</i> , <b>2007</b> , 76, 663-668	1.4	4
22	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> , <b>2006</b> , 75, 25-28	1.4	4
21	Polyphosphates as an energy source for growth of <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , <b>2014</b> , 79, 478-82	2.9	3
20	Inorganic polyphosphates and sensitivity of <i>Saccharomyces cerevisiae</i> cells to membrane-damaging agents. <i>Microbiology</i> , <b>2011</b> , 80, 10-14	1.4	3
19	Polyphosphatase PPX1 of <i>Saccharomyces cerevisiae</i> as a Tool for Polyphosphate Assay. <i>Advances in Enzyme Research</i> , <b>2015</b> , 03, 93-100	0.7	3
18	Inorganic Polyphosphate and Physiological Properties of <i>Saccharomyces cerevisiae</i> Yeast Overexpressing Ppn2. <i>Biochemistry (Moscow)</i> , <b>2020</b> , 85, 516-522	2.9	2
17	Extracellular phosphomannan as a phosphate reserve in the yeast <i>Kuraishia capsulata</i> . <i>Biochemistry (Moscow)</i> , <b>2013</b> , 78, 674-7	2.9	2
16	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> , <b>2006</b> , 75, 253-258	1.4	2
15	Specific Features of Metabolism and Functions of High-Molecular Inorganic Polyphosphates in Yeasts as Representatives of Lower Eukaryotes. <i>Molecular Biology</i> , <b>2005</b> , 39, 482-494	1.2	2
14	Inorganic polyphosphate in methylotrophic yeasts. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 5235-5244	5.7	1
13	Yeast Polyphosphatases PPX1 and PPN1: Properties, Functions, and Localization <b>2016</b> , 15-33		1
12	Effect of Fe on inorganic polyphosphate level in autotrophic and heterotrophic cells of <i>Rhodospirillum rubrum</i> . <i>Archives of Microbiology</i> , <b>2019</b> , 201, 1307-1312	3	1
11	Finding of endopolyphosphatase activity in the yeast <i>Saccharomyces cerevisiae</i> . <i>Biochemistry (Moscow)</i> , <b>2009</b> , 74, 842-5	2.9	1
10	Polyphosphatase PPN1 of <i>Saccharomyces cerevisiae</i> Is a Deoxyadenosine Triphosphate Phosphohydrolase. <i>Advances in Enzyme Research</i> , <b>2016</b> , 04, 144-151	0.7	1
9	Polyphosphate Polymerase Knockout Increases Stress Resistance of Cells. <i>Biology</i> , <b>2021</b> , 10,	4.9	1

8	Enzymes of Polyphosphate Metabolism in Yeast: Properties, Functions, Practical Significance. <i>Biochemistry (Moscow)</i> , <b>2021</b> , 86, S96-S108	2.9	1
7	The acid phosphatase Pho5 of <i>Saccharomyces cerevisiae</i> is not involved in polyphosphate breakdown. <i>Folia Microbiologica</i> , <b>2019</b> , 64, 867-873	2.8	0
6	Inorganic polyphosphates of different fractions in the mutant yeast <i>Saccharomyces cerevisiae</i> with impaired mitochondrial ATP synthesis. <i>Microbiology</i> , <b>2010</b> , 79, 30-33	1.4	0
5	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> , <b>2009</b> , 78, 304-307	1.4	0
4	Stress Resistance of <i>Saccharomyces cerevisiae</i> Strains Overexpressing Yeast Polyphosphatases. <i>Stresses</i> , <b>2022</b> , 2, 17-25		0
3	The Role of Inorganic Polyphosphates in Stress Response and Regulation of Enzyme Activities in Yeast <b>2016</b> , 3-14		0
2	Changes in cell wall structure and protein set in <i>Candida maltosa</i> grown on hexadecane. <i>Folia Microbiologica</i> , <b>2021</b> , 66, 247-253	2.8	0
1	Phosphate efflux as a test of plasma membrane leakage in cells. <i>Canadian Journal of Microbiology</i> , <b>2021</b> , 67, 226-230	3.2	