

Alexander Rapoport

List of Publications by Year in descending order

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43

papers

851

citations

430874

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docs citations

44

times ranked

898

citing authors

#	ARTICLE	IF	CITATIONS
1	Survival kit of <i>Saccharomyces cerevisiae</i> for anhydrobiosis. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8821-8834.	3.6	78
2	Interrelations of the yeast <i>Candida utilis</i> and Cr(VI): metal reduction and its distribution in the cell and medium. <i>Process Biochemistry</i> , 2001, 36, 963-970.	3.7	70
3	Microbial lag phase can be indicative of, or independent from, cellular stress. <i>Scientific Reports</i> , 2020, 10, 5948.	3.3	59
4	Carotenoids and Some Other Pigments from Fungi and Yeasts. <i>Metabolites</i> , 2021, 11, 92.	2.9	53
5	Anhydrobiosis in yeast: influence of calcium and magnesium ions on yeast resistance to dehydration-rehydration. <i>FEMS Microbiology Letters</i> , 2010, 308, 55-61.	1.8	47
6	Bioethanol and lipid production from the enzymatic hydrolysate of wheat straw after furfural extraction. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6269-6277.	3.6	46
7	Anhydrobiosis: Inside yeast cells. <i>Biotechnology Advances</i> , 2019, 37, 51-67.	11.7	39
8	Immobilisation of yeast cells on the surface of hydroxyapatite ceramics. <i>Process Biochemistry</i> , 2011, 46, 665-670.	3.7	36
9	Cr(VI) sorption by intact and dehydrated <i>Candida utilis</i> cells in the presence of other metals. <i>Process Biochemistry</i> , 2002, 38, 123-131.	3.7	35
10	The role of glycerol transporters in yeast cells in various physiological and stress conditions. <i>FEMS Microbiology Letters</i> , 2015, 362, 1-8.	1.8	34
11	Drying enhances immunoactivity of spent brewer's yeast cell wall β -D-glucans. <i>Journal of Biotechnology</i> , 2015, 206, 12-16.	3.8	32
12	Effects of yeast immobilization on bioethanol production. <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 33-39.	3.1	28
13	Anhydrobiosis in yeast: cell wall mannoproteins are important for yeast <i>Saccharomyces cerevisiae</i> resistance to dehydration. <i>Yeast</i> , 2016, 33, 347-353.	1.7	25
14	Dehydration of yeast: Changes in the intracellular content of Hsp70 family proteins. <i>Process Biochemistry</i> , 2008, 43, 1138-1141.	3.7	23
15	Exponential growth phase cells of the osmotolerant yeast <i>Debaryomyces hansenii</i> are extremely resistant to dehydration stress. <i>Process Biochemistry</i> , 2001, 36, 1163-1166.	3.7	22
16	Application of anhydrobiosis and dehydration of yeasts for non-conventional biotechnological goals. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 104.	3.6	22
17	Potassium uptake system Trk2 is crucial for yeast cell viability during anhydrobiosis. <i>FEMS Microbiology Letters</i> , 2014, 350, 28-33.	1.8	21
18	Engineering of sugar transporters for improvement of xylose utilization during high-temperature alcoholic fermentation in <i>Ogataea polymorpha</i> yeast. <i>Microbial Cell Factories</i> , 2020, 19, 96.	4.0	19

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19	Cr(VI) sorption by intact and dehydrated <i>Candida utilis</i> cells: differences in mechanisms. <i>Process Biochemistry</i> , 2001, 37, 505-511.	3.7	16
20	Astrobiology of life on Earth. <i>Environmental Microbiology</i> , 2021, 23, 3335-3344.	3.8	16
21	Identification, Quantification and Kinetic Study of Carotenoids and Lipids in <i>Rhodotorula toruloides</i> CBS 14 Cultivated on Wheat Straw Hydrolysate. <i>Fermentation</i> , 2022, 8, 300.	3.0	16
22	Anhydrobiosis and Dehydration of Yeasts. , 2017, , 87-116.		13
23	Thermotolerance in <i>Saccharomyces cerevisiae</i> is linked to resistance to anhydrobiosis. <i>Process Biochemistry</i> , 2014, 49, 1889-1892.	3.7	11
24	Immobilisation increases yeast cells' resistance to dehydration-rehydration treatment. <i>Journal of Biotechnology</i> , 2014, 184, 169-171.	3.8	11
25	Anhydrobiosis in yeast: is it possible to reach anhydrobiosis for yeast grown in conditions with severe oxygen limitation?. <i>Antonie Van Leeuwenhoek</i> , 2014, 106, 211-217.	1.7	10
26	Anhydrobiosis in yeast: Glutathione overproduction improves resistance to dehydration of a recombinant <i>Ogataea</i> (<i>Hansenula</i>) polymorpha strain. <i>Process Biochemistry</i> , 2018, 71, 41-44.	3.7	9
27	Anhydrobiosis in yeasts: Psychrotolerant yeasts are highly resistant to dehydration. <i>Yeast</i> , 2019, 36, 375-379.	1.7	9
28	Catalytic treatment of rapeseed straw for enhanced production of furfural and glucose for bioethanol production. <i>Process Biochemistry</i> , 2021, 102, 102-107.	3.7	9
29	Activity of the β -glucoside transporter Agt1 in <i>Saccharomyces cerevisiae</i> cells during dehydration-rehydration events. <i>Fungal Biology</i> , 2018, 122, 613-620.	2.5	8
30	Anhydrobiosis in yeast: FTIR spectroscopic studies of yeast grown under conditions of severe oxygen limitation. <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 474-479.	3.1	5
31	A Crucial Role of Mitochondrial Dynamics in Dehydration Resistance in <i>Saccharomyces cerevisiae</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 4607.	4.1	5
32	Anhydrobiosis in Yeasts: Changes in Mitochondrial Membranes Improve the Resistance of <i>Saccharomyces cerevisiae</i> Cells to Dehydration-Rehydration. <i>Fermentation</i> , 2019, 5, 82.	3.0	4
33	New Test-system Based on the Evaluation of Yeast Cells Resistance to Dehydration-rehydration Stress. <i>Open Biotechnology Journal</i> , 2015, 9, 49-53.	1.2	4
34	Effect of Lignin-Containing Media on Growth of Medicinal Mushroom <i>Lentinula Edodes</i> . <i>Proceedings of the Latvian Academy of Sciences</i> , 2017, 71, 38-42.	0.1	3
35	Anhydrobiosis in yeasts: Glutathione synthesis by yeast <i>Ogataea</i> (<i>Hansenula</i>) polymorpha cells after their dehydration-rehydration. <i>Journal of Biotechnology</i> , 2019, 304, 28-30.	3.8	3
36	Anhydrobiosis in Non-conventional Yeasts. , 2019, , 341-359.		3

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37	Changes in Energy Status of <i>Saccharomyces cerevisiae</i> Cells during Dehydration and Rehydration. <i>Microorganisms</i> , 2021, 9, 444.	3.6	2
38	Anhydrobiosis in yeast: role of cortical endoplasmic reticulum protein Ist2 in <i>Saccharomyces cerevisiae</i> cells during dehydration and subsequent rehydration. <i>Antonie Van Leeuwenhoek</i> , 2021, 114, 1069-1077.	1.7	2
39	Effect of Pretreated Colza Straw on the Growth and Extracellular Ligninolytic Enzymes Production by <i>Lentinula edodes</i> and <i>Ganoderma lucidum</i> . <i>Fermentation</i> , 2021, 7, 157.	3.0	2
40	Resistance of a recombinant <i>Escherichia coli</i> to dehydration. <i>Cell Biology International</i> , 2009, 33, 1194-1195.	3.0	1
41	Biotechnological and environmental microbiological research in the Baltic region. <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 1-2.	3.1	0
42	Experimental Setup with Chaotic and Periodic Excitations for Cell Growth Studies. , 2020, , .		0
43	Correlation of Statistical Distributions of the Dimension of Yeast Cells Attached to the Substrate and Its Surface Electrical Potential. <i>Materials</i> , 2022, 15, 6.	2.9	0