Aleksandra Maria MiroÅ„czuk

List of Publications by Year
in descending order

40 papers	2,024 citations	304743 22 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	1775 citing authors

#	Article	IF	Citations
1	Degradation of plastics and plastic-degrading bacteria in cold marine habitats. Applied Microbiology and Biotechnology, 2018, 102, 7669-7678.	3.6	340
2	Efficient conversion of crude glycerol from various industrial wastes into single cell oil by yeast Yarrowia lipolytica. Bioresource Technology, 2016, 207, 237-243.	9.6	146
3	Recent advances in biological production of erythritol. Critical Reviews in Biotechnology, 2018, 38, 620-633.	9.0	106
4	Isolation and characterization of Arctic microorganisms decomposing bioplastics. AMB Express, 2017, 7, 148.	3.0	94
5	Biochemical properties and biotechnological applications of microbial enzymes involved in the degradation of polyester-type plastics. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140315.	2.3	93
6	Aseptic production of citric and isocitric acid from crude glycerol by genetically modified Yarrowia lipolytica. Bioresource Technology, 2019, 271, 340-344.	9.6	83
7	A two-stage fermentation process of erythritol production by yeast Y. lipolytica from molasses and glycerol. Bioresource Technology, 2015, 198, 445-455.	9.6	81
8	Functional overexpression of genes involved in erythritol synthesis in the yeast Yarrowia lipolytica. Biotechnology for Biofuels, 2017, 10, 77.	6.2	76
9	A novel strain of Yarrowia lipolytica as a platform for value-added product synthesis from glycerol. Biotechnology for Biofuels, 2016, 9, 180.	6.2	74
10	Enhanced production of erythritol by Yarrowia lipolytica on glycerol in repeated batch cultures. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 57-64.	3.0	72
11	Polyol production from waste materials by genetically modified Yarrowia lipolytica. Bioresource Technology, 2017, 243, 393-399.	9.6	67
12	Characterization of erythrose reductase from Yarrowia lipolytica and its influence on erythritol synthesis. Microbial Cell Factories, 2017, 16, 118.	4.0	64
13	Computer-assisted coloring and illuminating based on a region-tree structure. SpringerPlus, 2012, 1, 1.	1.2	63
14	A comprehensive assessment of microbiome diversity in Tenebrio molitor fed with polystyrene waste. Environmental Pollution, 2020, 262, 114281.	7.5	61
15	Ubiquitous late competence genes in Bacillus species indicate the presence of functional DNA uptake machineries. Environmental Microbiology, 2009, 11, 1911-1922.	3.8	60
16	Newly isolated mutant of Yarrowia lipolytica MK1 as a proper host for efficient erythritol biosynthesis from glycerol. Process Biochemistry, 2015, 50, 61-68.	3.7	55
17	Lipid Production From Waste Materials in Seawater-Based Medium by the Yeast Yarrowia lipolytica. Frontiers in Microbiology, 2019, 10, 547.	3.5	44
18	Induction of natural competence in Bacillus cereus ATCC14579. Microbial Biotechnology, 2008, 1, 226-235.	4.2	39

#	Article	IF	Citations
19	Scale-up of the erythritol production technology â€“ Process simulation and techno-economic analysis. Journal of Cleaner Production, 2020, 257, 120533.	9.3	36
20	Heterologous overexpression of bacterial hemoglobin VHb improves erythritol biosynthesis by yeast Yarrowia lipolytica. Microbial Cell Factories, 2019, 18, 176.	4.0	32
21	Current Knowledge on Polyethylene Terephthalate Degradation by Genetically Modified Microorganisms. Frontiers in Bioengineering and Biotechnology, 2021, 9, 771133.	4.1	29
22	Production of tailor-made fatty acids from crude glycerol at low pH by Yarrowia lipolytica. Bioresource Technology, 2020, 314, 123746.	9.6	28
23	EUF1 â€“ a newly identified gene involved in erythritol utilization in Yarrowia lipolytica. Scientific Reports, 2017, 7, 12507.	3.3	27
24	The influence of transketolase on lipid biosynthesis in the yeast Yarrowia lipolytica. Microbial Cell Factories, 2020, 19, 138.	4.0	25
25	Influence of ylHog1 MAPK kinase on Yarrowia lipolytica stress response and erythritol production. Scientific Reports, 2018, 8, 14735.	3.3	24
26	Rye and Oat Agricultural Wastes as Substrate Candidates for Biomass Production of the Non-Conventional Yeast Yarrowia lipolytica. Sustainability, 2020, 12, 7704.	3.2	24
27	Response of Bacillus cereus ATCC 14579 to challenges with sublethal concentrations of enterocin AS-48. BMC Microbiology, 2009, 9, 227.	3.3	21
28	High-yield expression of extracellular lipase from Yarrowia lipolytica and its interactions with lipopeptide biosurfactants: A biophysical approach. Archives of Biochemistry and Biophysics, 2020, 689, 108475.	3.0	19
29	A Role of a Newly Identified Isomerase From Yarrowia lipolytica in Erythritol Catabolism. Frontiers in Microbiology, 2018, 9, 1122.	3.5	18
30	The potential of cold-adapted microorganisms for biodegradation of bioplastics. Waste Management, 2021, 119, 72-81.	7.4	18
31	HOG-Independent Osmoprotection by Erythritol in Yeast Yarrowia lipolytica. Genes, 2020, 11, 1424.	2.4	17
32	Metabolic engineering of Yarrowia lipolytica for poly(ethylene terephthalate) degradation. Science of the Total Environment, 2022, 831, 154841.	8.0	17
33	Production of PETase by engineered Yarrowia lipolytica for efficient poly(ethylene terephthalate) biodegradation. Science of the Total Environment, 2022, 846, 157358.	8.0	14
34	An Effective Method of Continuous Production of Erythritol from Glycerol by Yarrowia lipolytica MK1. Food Technology and Biotechnology, 2017, 55, 125-130.	2.1	13
35	A Single, Specific Thymine Mutation in the ComK-Binding Site Severely Decreases Binding and Transcription Activation by the Competence Transcription Factor ComK of Bacillus subtilis. Journal of Bacteriology, 2007, 189, 4718-4728.	2.2	11
36	Efficient biodegradation of aliphatic polyester by genetically engineered strains of the yeast Yarrowia lipolytica. International Biodeterioration and Biodegradation, 2021, 161, 105232.	3.9	11

#	Article	IF	Citations
37	The Overexpression of YALI0B07117g Results in Enhanced Erythritol Synthesis from Glycerol by the Yeast Yarrowia lipolytica. Molecules, 2021, 26, 7549.	3.8	10
38	Distinct Roles of ComK1 and ComK2 in Gene Regulation in Bacillus cereus. PLoS ONE, 2011, 6, e21859.	2.5	6
39	Production of the Bacillus licheniformis SubC protease using Lactococcus lactis NICE expression system. SpringerPlus, 2012, 1, 54.	1.2	3
40	Identification of novel extracellular putative chitinase and hydrolase from Geomyces sp. B10I with the biodegradation activity towards polyesters. AMB Express, 2022, 12, 12.	3.0	3