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	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
2	Metabolic engineering of Yarrowia lipolytica for poly(ethylene terephthalate) degradation. Science of the Total Environment, 2022, 831, 154841.	8.0	17
3	Production of PETase by engineered Yarrowia lipolytica for efficient poly(ethylene terephthalate) biodegradation. Science of the Total Environment, 2022, 846, 157358.	8.0	14
4	The potential of cold-adapted microorganisms for biodegradation of bioplastics. Waste Management, 2021, 119, 72-81.	7.4	18
5	Efficient biodegradation of aliphatic polyester by genetically engineered strains of the yeast Yarrowia lipolytica. International Biodeterioration and Biodegradation, 2021, 161, 105232.	3.9	11
6	Current Knowledge on Polyethylene Terephthalate Degradation by Genetically Modified Microorganisms. Frontiers in Bioengineering and Biotechnology, 2021, 9, 771133.	4.1	29
7	The Overexpression of YALI0B07117g Results in Enhanced Erythritol Synthesis from Glycerol by the Yeast Yarrowia lipolytica. Molecules, 2021, 26, 7549.	3.8	10
8	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
9	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
10	The influence of transketolase on lipid biosynthesis in the yeast Yarrowia lipolytica. Microbial Cell Factories, 2020, 19, 138.	4.0	25
11	HOG-Independent Osmoprotection by Erythritol in Yeast Yarrowia lipolytica. Genes, 2020, 11, 1424.	2.4	17
12	Production of tailor-made fatty acids from crude glycerol at low pH by Yarrowia lipolytica. Bioresource Technology, 2020, 314, 123746.	9.6	28
13	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
14	Scale-up of the erythritol production technology â€“ Process simulation and techno-economic analysis. Journal of Cleaner Production, 2020, 257, 120533.	9.3	36
15	A comprehensive assessment of microbiome diversity in Tenebrio molitor fed with polystyrene waste. Environmental Pollution, 2020, 262, 114281.	7.5	61
16	Heterologous overexpression of bacterial hemoglobin VHb improves erythritol biosynthesis by yeast Yarrowia lipolytica. Microbial Cell Factories, 2019, 18, 176.	4.0	32
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	Aseptic production of citric and isocitric acid from crude glycerol by genetically modified Yarrowia lipolytica. Bioresource Technology, 2019, 271, 340-344.	9.6	83

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19	Recent advances in biological production of erythritol. Critical Reviews in Biotechnology, 2018, 38, 620-633.	9.0	106
20	Influence of ylHog1 MAPK kinase on Yarrowia lipolytica stress response and erythritol production. Scientific Reports, 2018, 8, 14735.	3.3	24
21	A Role of a Newly Identified Isomerase From Yarrowia lipolytica in Erythritol Catabolism. Frontiers in Microbiology, 2018, 9, 1122.	3.5	18
22	Degradation of plastics and plastic-degrading bacteria in cold marine habitats. Applied Microbiology and Biotechnology, 2018, 102, 7669-7678.	3.6	340
23	Functional overexpression of genes involved in erythritol synthesis in the yeast Yarrowia lipolytica. Biotechnology for Biofuels, 2017, 10, 77.	6.2	76
24	EUF1 â€“ a newly identified gene involved in erythritol utilization in Yarrowia lipolytica. Scientific Reports, 2017, 7, 12507.	3.3	27
25	Isolation and characterization of Arctic microorganisms decomposing bioplastics. AMB Express, 2017, 7, 148.	3.0	94
26	Polyol production from waste materials by genetically modified Yarrowia lipolytica. Bioresource Technology, 2017, 243, 393-399.	9.6	67
27	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
28	Characterization of erythrose reductase from Yarrowia lipolytica and its influence on erythritol synthesis. Microbial Cell Factories, 2017, 16, 118.	4.0	64
29	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
30	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
31	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
32	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
33	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
34	Production of the Bacillus licheniformis SubC protease using Lactococcus lactis NICE expression system. SpringerPlus, 2012, 1, 54.	1.2	3
35	Computer-assisted coloring and illuminating based on a region-tree structure. SpringerPlus, 2012, 1, 1.	1.2	63
36	Distinct Roles of ComK1 and ComK2 in Gene Regulation in Bacillus cereus. PLoS ONE, 2011, 6, e21859.	2.5	6

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37	Response of Bacillus cereus ATCC 14579 to challenges with sublethal concentrations of enterocin AS-48. BMC Microbiology, 2009, 9, 227.	3.3	21
38	Ubiquitous late competence genes in Bacillus species indicate the presence of functional DNA uptake machineries. Environmental Microbiology, 2009, 11, 1911-1922.	3.8	60
39	Induction of natural competence in Bacillus cereus ATCC14579. Microbial Biotechnology, 2008, 1, 226-235.	4.2	39
40	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