

# Valeria Mapelli

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

852  
citations

840776

11  
h-index

677142

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1354  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of HMF and furfural on redox-balance and energy-state of xylose-utilizing <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2013, 6, 22.	6.2	150
2	Biobased adipic acid – The challenge of developing the production host. <i>Biotechnology Advances</i> , 2018, 36, 2248-2263.	11.7	125
3	Metabolic footprinting in microbiology: methods and applications in functional genomics and biotechnology. <i>Trends in Biotechnology</i> , 2008, 26, 490-497.	9.3	122
4	Performance and bacterial enrichment of bioelectrochemical systems during methane and acetate production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21864-21875.	7.1	78
5	Electrochemical startup increases 1,3-propanediol titers in mixed-culture glycerol fermentations. <i>Process Biochemistry</i> , 2015, 50, 1499-1508.	3.7	73
6	Engineering glutathione biosynthesis of <i>Saccharomyces cerevisiae</i> increases robustness to inhibitors in pretreated lignocellulosic materials. <i>Microbial Cell Factories</i> , 2013, 12, 87.	4.0	71
7	Flocculation Causes Inhibitor Tolerance in <i>Saccharomyces cerevisiae</i> for Second-Generation Bioethanol Production. <i>Applied and Environmental Microbiology</i> , 2014, 80, 6908-6918.	3.1	51
8	Metabolic and bioprocess engineering for production of selenized yeast with increased content of seleno-methylselenocysteine. <i>Metabolic Engineering</i> , 2011, 13, 282-293.	7.0	40
9	Enhancement of anaerobic lysine production in <i>Corynebacterium glutamicum</i> electrofermentations. <i>Bioelectrochemistry</i> , 2017, 117, 40-47.	4.6	29
10	The interplay between sulphur and selenium metabolism influences the intracellular redox balance in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2012, 12, 20-32.	2.3	28
11	Adipic acid tolerance screening for potential adipic acid production hosts. <i>Microbial Cell Factories</i> , 2017, 16, 20.	4.0	18
12	Common and Distant Structural Characteristics of Feruloyl Esterase Families from <i>Aspergillus oryzae</i> . <i>PLoS ONE</i> , 2012, 7, e39473.	2.5	13
13	In silico and in vitro studies of the reduction of unsaturated $\hat{1}\pm, \hat{1}^2$ bonds of trans-2-hexenedioic acid and 6-amino-trans-2-hexenoic acid – Important steps towards biobased production of adipic acid. <i>PLoS ONE</i> , 2018, 13, e0193503.	2.5	12
14	Respiratory metabolism and calorie restriction relieve persistent endoplasmic reticulum stress induced by calcium shortage in yeast. <i>Scientific Reports</i> , 2016, 6, 27942.	3.3	11
15	Catalytic competence of the Ras-GEF domain of hSos1 requires intra-REM domain interactions mediated by Phenylalanine 577. <i>FEBS Letters</i> , 2006, 580, 6322-6328.	2.8	8
16	The Presence of Pretreated Lignocellulosic Solids from Birch during <i>Saccharomyces cerevisiae</i> Fermentations Leads to Increased Tolerance to Inhibitors – A Proteomic Study of the Effects. <i>PLoS ONE</i> , 2016, 11, e0148635.	2.5	6
17	Cathodes enhance <i>Corynebacterium glutamicum</i> growth with nitrate and promote acetate and formate production. <i>Bioresource Technology</i> , 2016, 216, 105-113.	9.6	5
18	Viability Study of the Use of Cast Iron Open Cell Foam as Microbial Fuel Cell Electrodes. <i>Advanced Engineering Materials</i> , 2013, 15, 112-117.	3.5	4

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19	A novel chimaeric flocculation protein enhances flocculation in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering Communications</i> , 2018, 6, 49-55.	3.6	3
20	Presence of galactose in precultures induces <i>lacS</i> and leads to short lag phase in lactose-grown <i>Lactococcus lactis</i> cultures. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 33-43.	3.0	3
21	Conformational gating in ammonia lyases. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129605.	2.4	1
22	Structure-function investigation of 3-methylaspartate ammonia lyase reveals substrate molecular determinants for the deamination reaction. <i>PLoS ONE</i> , 2020, 15, e0233467.	2.5	1