

Jan J Lyczakowski

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

736
citations

933447

10
h-index

1125743

13
g-index

18
all docs

18
docs citations

18
times ranked

1080
citing authors

#	ARTICLE	IF	CITATIONS
1	An even pattern of xylan substitution is critical for interaction with cellulose in plant cell walls. <i>Nature Plants</i> , 2017, 3, 859-865.	9.3	204
2	Molecular architecture of softwood revealed by solid-state NMR. <i>Nature Communications</i> , 2019, 10, 4978.	12.8	157
3	Xylan decoration patterns and the plant secondary cell wall molecular architecture. <i>Biochemical Society Transactions</i> , 2016, 44, 74-78.	3.4	75
4	The Patterned Structure of Galactoglucomannan Suggests It May Bind to Cellulose in Seed Mucilage. <i>Plant Physiology</i> , 2018, 178, 1011-1026.	4.8	62
5	Removal of glucuronic acid from xylan is a strategy to improve the conversion of plant biomass to sugars for bioenergy. <i>Biotechnology for Biofuels</i> , 2017, 10, 224.	6.2	57
6	Label-Free Analysis and Sorting of Microalgae and Cyanobacteria in Microdroplets by Intrinsic Chlorophyll Fluorescence for the Identification of Fast Growing Strains. <i>Analytical Chemistry</i> , 2016, 88, 10445-10451.	6.5	42
7	Structural Imaging of Native Cryo-Preserved Secondary Cell Walls Reveals the Presence of Macrofibrils and Their Formation Requires Normal Cellulose, Lignin and Xylan Biosynthesis. <i>Frontiers in Plant Science</i> , 2019, 10, 1398.	3.6	40
8	An engineered GH1 β -glucosidase displays enhanced glucose tolerance and increased sugar release from lignocellulosic materials. <i>Scientific Reports</i> , 2019, 9, 4903.	3.3	36
9	Fusion of Pyruvate Decarboxylase and Alcohol Dehydrogenase Increases Ethanol Production in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2014, 3, 976-978.	3.8	22
10	Xylan Structure and Dynamics in Native <i>Brachypodium</i> Grass Cell Walls Investigated by Solid-State NMR Spectroscopy. <i>ACS Omega</i> , 2021, 6, 15460-15471.	3.5	19
11	Two conifer GUX clades are responsible for distinct glucuronic acid patterns on xylan. <i>New Phytologist</i> , 2021, 231, 1720-1733.	7.3	13
12	Upregulation of GLRs expression by light in <i>Arabidopsis</i> leaves. <i>BMC Plant Biology</i> , 2022, 22, 197.	3.6	3
13	Transformation of European Ash (<i>Fraxinus excelsior</i> L.) Callus as a Starting Point for Understanding the Molecular Basis of Ash Dieback. <i>Plants</i> , 2021, 10, 2524.	3.5	2