

Michael G Resch

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,762
citations

471509

17
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

2550
citing authors

#	ARTICLE	IF	CITATIONS
1	Revealing Nature's Cellulase Diversity: The Digestion Mechanism of <i>Caldicellulosiruptor bescii</i> CelA. <i>Science</i> , 2013, 342, 1513-1516.	12.6	253
2	Reductive Catalytic Fractionation of Corn Stover Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6940-6950.	6.7	235
3	Glycosylated linkers in multimodular lignocellulose-degrading enzymes dynamically bind to cellulose. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14646-14651.	7.1	149
4	Fungal cellulases and complexed cellulosomal enzymes exhibit synergistic mechanisms in cellulose deconstruction. <i>Energy and Environmental Science</i> , 2013, 6, 1858.	30.8	128
5	Predicting Enzyme Adsorption to Lignin Films by Calculating Enzyme Surface Hydrophobicity. <i>Journal of Biological Chemistry</i> , 2014, 289, 20960-20969.	3.4	116
6	Dramatic performance of <i>Clostridium thermocellum</i> explained by its wide range of cellulase modalities. <i>Science Advances</i> , 2016, 2, e1501254.	10.3	99
7	The O-Glycosylated Linker from the <i>Trichoderma reesei</i> Family 7 Cellulase Is a Flexible, Disordered Protein. <i>Biophysical Journal</i> , 2010, 99, 3773-3781.	0.5	96
8	Alkaline Pretreatment of Switchgrass. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1479-1491.	6.7	94
9	Specificity of O-glycosylation in enhancing the stability and cellulose binding affinity of Family 1 carbohydrate-binding modules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7612-7617.	7.1	85
10	Replacement of histone H3 with CENP-A directs global nucleosome array condensation and loosening of nucleosome superhelical termini. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16588-16593.	7.1	84
11	Lignin depolymerization by fungal secretomes and a microbial sink. <i>Green Chemistry</i> , 2016, 18, 6046-6062.	9.0	84
12	Engineering plant cell walls: tuning lignin monomer composition for deconstructable biofuel feedstocks or resilient biomaterials. <i>Green Chemistry</i> , 2014, 16, 2627.	9.0	60
13	Mechanisms employed by cellulase systems to gain access through the complex architecture of lignocellulosic substrates. <i>Current Opinion in Chemical Biology</i> , 2015, 29, 100-107.	6.1	49
14	Clean Fractionation Pretreatment Reduces Enzyme Loadings for Biomass Saccharification and Reveals the Mechanism of Free and Cellulosomal Enzyme Synergy. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1377-1387.	6.7	35
15	Determinants of Histone H4 N-terminal Domain Function during Nucleosomal Array Oligomerization. <i>Journal of Biological Chemistry</i> , 2009, 284, 16716-16722.	3.4	32
16	Molecular-scale features that govern the effects of O-glycosylation on a carbohydrate-binding module. <i>Chemical Science</i> , 2015, 6, 7185-7189.	7.4	30
17	Multiscale Characterization of Lignocellulosic Biomass Variability and Its Implications to Preprocessing and Conversion: a Case Study for Corn Stover. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3218-3230.	6.7	28
18	Engineered yeast tolerance enables efficient production from toxified lignocellulosic feedstocks. <i>Science Advances</i> , 2021, 7, .	10.3	21

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19	O-glycosylation effects on family 1 carbohydrate-binding module solution structures. <i>FEBS Journal</i> , 2015, 282, 4341-4356.	4.7	18
20	Throughput, Reliability, and Yields of a Pilot-Scale Conversion Process for Production of Fermentable Sugars from Lignocellulosic Biomass: A Study on Feedstock Ash and Moisture. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2008-2015.	6.7	16
21	In vitro chromatin self-association and its relevance to genome architecture This paper is one of a selection of papers published in this Special Issue, entitled 27th International West Coast Chromatin and Chromosome Conference, and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2006, 84, 411-417.	2.0	15
22	Impacts of Inorganic Material (Total Ash) on Surface Energy, Wettability, and Cohesion of Corn Stover. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2061-2072.	6.7	13
23	Interrelationships between cellulase activity and cellulose particle morphology. <i>Cellulose</i> , 2016, 23, 2349-2361.	4.9	8
24	Computationally Designed Peptide Inhibitors of the Ubiquitin E3 Ligase SCF ^{Fbx4} . <i>ChemBioChem</i> , 2013, 14, 445-451.	2.6	7
25	Analysis, Impacts, and Solutions to Biomass Variability for Production of Fuels and Value-Added Products. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15375-15377.	6.7	4
26	Editorial overview: Energy: Prospects for fuels and chemicals from a biomass-based biorefinery using post-genomic chemical biology tools. <i>Current Opinion in Chemical Biology</i> , 2015, 29, v-vii.	6.1	2
27	Response to Comment on "Revealing Nature's Cellulase Diversity: The Digestion Mechanism of <i>Caldicellulosiruptor bescii</i> CelA". <i>Science</i> , 2014, 344, 578-578.	12.6	1