

Stefan Cord-Landwehr

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

966
citations

516561

16
h-index

642610

23
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26
all docs

26
docs citations

26
times ranked

856
citing authors

#	ARTICLE	IF	CITATIONS
1	A chitin deacetylase from the endophytic fungus <i>Pestalotiopsis</i> sp. efficiently inactivates the elicitor activity of chitin oligomers in rice cells. <i>Scientific Reports</i> , 2016, 6, 38018.	1.6	136
2	Enzymatic production of defined chitosan oligomers with a specific pattern of acetylation using a combination of chitin oligosaccharide deacetylases. <i>Scientific Reports</i> , 2015, 5, 8716.	1.6	108
3	Combined HILIC-ELSD/ESI-MSn enables the separation, identification and quantification of sugar beet pectin derived oligomers. <i>Carbohydrate Polymers</i> , 2012, 90, 41-48.	5.1	71
4	“Slipped Sandwich”™ Model for Chitin and Chitosan Perception in <i>Arabidopsis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2018, 31, 1145-1153.	1.4	66
5	A Recombinant Fungal Chitin Deacetylase Produces Fully Defined Chitosan Oligomers with Novel Patterns of Acetylation. <i>Applied and Environmental Microbiology</i> , 2016, 82, 6645-6655.	1.4	63
6	Enzymatic production of all fourteen partially acetylated chitosan tetramers using different chitin deacetylases acting in forward or reverse mode. <i>Scientific Reports</i> , 2017, 7, 17692.	1.6	62
7	Reassessment of chitosanase substrate specificities and classification. <i>Nature Communications</i> , 2017, 8, 1698.	5.8	59
8	Chitinases Are Essential for Cell Separation in <i>Ustilago maydis</i> . <i>Eukaryotic Cell</i> , 2015, 14, 846-857.	3.4	51
9	Patterns matter part 1: Chitosan polymers with non-random patterns of acetylation. <i>Reactive and Functional Polymers</i> , 2020, 151, 104583.	2.0	49
10	Quantitative Mass-Spectrometric Sequencing of Chitosan Oligomers Revealing Cleavage Sites of Chitosan Hydrolases. <i>Analytical Chemistry</i> , 2017, 89, 2893-2900.	3.2	47
11	Enzymatic Production and Enzymatic-Mass Spectrometric Fingerprinting Analysis of Chitosan Polymers with Different Nonrandom Patterns of Acetylation. <i>Journal of the American Chemical Society</i> , 2019, 141, 3137-3145.	6.6	39
12	A chitin deacetylase of <i>Podospira anserina</i> has two functional chitin binding domains and a unique mode of action. <i>Carbohydrate Polymers</i> , 2018, 183, 1-10.	5.1	37
13	Patterns matter part 2: Chitosan oligomers with defined patterns of acetylation. <i>Reactive and Functional Polymers</i> , 2020, 151, 104577.	2.0	34
14	Preparation of Defined Chitosan Oligosaccharides Using Chitin Deacetylases. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7835.	1.8	28
15	Chitinase: A fungal chitosan hydrolyzing enzyme with a new and unusually specific cleavage pattern. <i>Carbohydrate Polymers</i> , 2017, 174, 1121-1128.	5.1	27
16	Chitosan and Chitin Deacetylase Activity Are Necessary for Development and Virulence of <i>Ustilago maydis</i> . <i>MBio</i> , 2021, 12, .	1.8	27
17	Deciphering the ChitoCode: fungal chitins and chitosans as functional biopolymers. <i>Fungal Biology and Biotechnology</i> , 2021, 8, 19.	2.5	11
18	Expression of <i>Bacillus licheniformis</i> chitin deacetylase in <i>E. coli</i> pLysS: Sustainable production, purification and characterisation. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 1008-1013.	3.6	10

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19	Quantification of chitosan in aqueous solutions by enzymatic hydrolysis and oligomer analysis via HPLC-ELSD. <i>Carbohydrate Polymers</i> , 2022, 283, 119141.	5.1	10
20	In silico and in vitro analysis of an <i>Aspergillus niger</i> chitin deacetylase to decipher its subsite sugar preferences. <i>Journal of Biological Chemistry</i> , 2021, 297, 101129.	1.6	9
21	Endochitinase 1 (Tv-ECH1) from <i>Trichoderma virens</i> has high subsite specificities for acetylated units when acting on chitosans. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 453-461.	3.6	7
22	The non-sulfated ulvanobiuronic acid of ulvans is the smallest active unit able to induce an oxidative burst in dicot cells. <i>Carbohydrate Polymers</i> , 2021, 270, 118338.	5.1	6
23	High-Throughput Screening Using UHPLC-MS To Characterize the Subsite Specificities of Chitosanases or Chitinases. <i>Analytical Chemistry</i> , 2020, 92, 3246-3252.	3.2	5