

Mirjam A Kabel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

3,406
citations

33
h-index

55
g-index

109
ext. papers

3,958
ext. citations

6.4
avg, IF

5.43
L-index

#	Paper	IF	Citations
108	Fungal glycoside hydrolase family 44 xyloglucanases are restricted to the phylum Basidiomycota and show a distinct xyloglucan cleavage pattern.. <i>IScience</i> , 2022 , 25, 103666	6.1	0
107	Profiling the cell walls of seagrasses from A (Amphibolis) to Z (Zostera).. <i>BMC Plant Biology</i> , 2022 , 22, 63	5.3	0
106	Fungal xylanolytic enzymes: Diversity and applications. <i>Bioresource Technology</i> , 2022 , 344, 126290	11	3
105	Microbial lignin degradation in an industrial composting environment. <i>Bioresource Technology Reports</i> , 2022 , 17, 100911	4.1	1
104	Steering the formation of cellobiose and oligosaccharides during enzymatic hydrolysis of asparagus fibre. <i>LWT - Food Science and Technology</i> , 2022 , 160, 113273	5.4	0
103	Extending the diversity of Myceliophthora thermophila LPMOs: Two different xyloglucan cleavage profiles.. <i>Carbohydrate Polymers</i> , 2022 , 288, 119373	10.3	0
102	Strategy to identify reduced arabinoxylo-oligosaccharides by HILIC-MS.. <i>Carbohydrate Polymers</i> , 2022 , 289, 119415	10.3	2
101	Cereal type and combined xylanase/glucanase supplementation influence the cecal microbiota composition in broilers.. <i>Journal of Animal Science and Biotechnology</i> , 2022 , 13, 51	6	0
100	In vivo formation of arabinoxylo-oligosaccharides by dietary endo-xylanase alters arabinoxylan utilization in broilers. <i>Carbohydrate Polymers</i> , 2022 , 291, 119527	10.3	0
99	GH10 and GH11 endoxylanases in Penicillium subrubescens: Comparative characterization and synergy with GH51, GH54, GH62 β -arabinofuranosidases from the same fungus. <i>New Biotechnology</i> , 2022 , 70, 84-92	6.4	1
98	Regioselective C4 and C6 Double Oxidation of Cellulose by Lytic Polysaccharide Monooxygenases. <i>ChemSusChem</i> , 2021 ,	8.3	3
97	Glycoside Hydrolase family 30 harbors fungal subfamilies with distinct polysaccharide specificities.. <i>New Biotechnology</i> , 2021 , 67, 32-41	6.4	1
96	Oxidized Product Profiles of AA9 Lytic Polysaccharide Monooxygenases Depend on the Type of Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 14124-14133	8.3	4
95	Termite Gut Microbiota Contribution to Wheat Straw Delignification in Anaerobic Bioreactors. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2191-2202	8.3	8
94	Breeding Targets to Improve Biomass Quality in Miscanthus. <i>Molecules</i> , 2021 , 26,	4.8	4
93	Non-productive binding of cellobiohydrolase i investigated by surface plasmon resonance spectroscopy. <i>Cellulose</i> , 2021 , 28, 9525-9545	5.5	3
92	Modification of Plant Carbohydrates Using Fungal Enzymes 2021 , 370-384		1

91	Feruloyl Esterases for Biorefineries: Subfamily Classified Specificity for Natural Substrates. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 332	5.8	15
90	Reactivity of p-Coumaroyl Groups in Lignin upon Laccase and Laccase/HBT Treatments. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8723-8731	8.3	4
89	Configuration of active site segments in lytic polysaccharide monooxygenases steers oxidative xyloglucan degradation. <i>Biotechnology for Biofuels</i> , 2020 , 13, 95	7.8	15
88	Understanding laccase/HBT-catalyzed grass delignification at the molecular level. <i>Green Chemistry</i> , 2020 , 22, 1735-1746	10	13
87	Mass spectrometric fragmentation patterns discriminate C1- and C4-oxidised cello-oligosaccharides from their non-oxidised and reduced forms. <i>Carbohydrate Polymers</i> , 2020 , 234, 115917	10.3	10
86	Quantification of morphochemical changes during in situ enzymatic hydrolysis of individual biomass particles based on autofluorescence imaging. <i>Biopolymers</i> , 2020 , 111, e23347	2.2	3
85	Facile enzymatic C ₆ acylation of lignin model compounds. <i>Catalysis Communications</i> , 2020 , 136, 105919	3.2	3
84	Colonies of the fungus <i>Aspergillus niger</i> are highly differentiated to adapt to local carbon source variation. <i>Environmental Microbiology</i> , 2020 , 22, 1154-1166	5.2	7
83	Controlling the Competition: Boosting Laccase/HBT-Catalyzed Cleavage of a EO-4? Linked Lignin Model. <i>ACS Catalysis</i> , 2020 , 10, 8650-8659	13.1	8
82	Functional Validation of Two Fungal Subfamilies in Carbohydrate Esterase Family 1 by Biochemical Characterization of Esterases From Uncharacterized Branches. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 694	5.8	10
81	Evidence for ligninolytic activity of the ascomycete fungus. <i>Biotechnology for Biofuels</i> , 2020 , 13, 75	7.8	16
80	Elucidation of In Situ Ligninolysis Mechanisms of the Selective White-Rot Fungus <i>Ceriporiopsis subvermispora</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16757-16764	8.3	17
79	The impact of lignin sulfonation on its reactivity with laccase and laccase/HBT. <i>Catalysis Science and Technology</i> , 2019 , 9, 1535-1542	5.5	10
78	Evaluation of fungal degradation of wheat straw cell wall using different analytical methods from ruminant nutrition perspective. <i>Journal of the Science of Food and Agriculture</i> , 2019 , 99, 4054-4062	4.3	5
77	Improving ruminal digestibility of various wheat straw types by white-rot fungi. <i>Journal of the Science of Food and Agriculture</i> , 2019 , 99, 957-965	4.3	10
76	Structural Motifs of Wheat Straw Lignin Differ in Susceptibility to Degradation by the White-Rot Fungus. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 20032-20042	8.3	8
75	Uniformly ¹³ C Labeled Lignin Internal Standards for Quantitative Pyrolysis-GCMS Analysis of Grass and Wood. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 20070-20076	8.3	14
74	Influence of Lytic Polysaccharide Monooxygenase Active Site Segments on Activity and Affinity. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	28

73	The nutritional value of the lower maize stem cannot be improved by ensiling nor by a fungal treatment. <i>Animal Feed Science and Technology</i> , 2019 , 247, 92-102	3	3
72	Low liquid ammonia treatment of wheat straw increased enzymatic cell wall polysaccharide degradability and decreased residual hydroxycinnamic acids. <i>Bioresource Technology</i> , 2019 , 272, 288-299 ¹¹		4
71	The physiology of <i>Agaricus bisporus</i> in semi-commercial compost cultivation appears to be highly conserved among unrelated isolates. <i>Fungal Genetics and Biology</i> , 2018 , 112, 12-20	3.9	7
70	Laccase/Mediator Systems: Their Reactivity toward Phenolic Lignin Structures. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2037-2046	8.3	81
69	Lignin composition is more important than content for maize stem cell wall degradation. <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 384-390	4.3	8
68	Production of β -D-xylofuranosidase active on substituted xylan does not improve compost degradation by <i>Agaricus bisporus</i> . <i>PLoS ONE</i> , 2018 , 13, e0201090	3.7	3
67	The solubility of primary plant cell wall polysaccharides in LiCl-DMSO. <i>Carbohydrate Polymers</i> , 2018 , 200, 332-340	10.3	12
66	Distinct Substrate Specificities and Electron-Donating Systems of Fungal Lytic Polysaccharide Monooxygenases. <i>Frontiers in Microbiology</i> , 2018 , 9, 1080	5.7	70
65	A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. <i>Biotechnology for Biofuels</i> , 2018 , 11, 74	7.8	29
64	Corn stover lignin is modified differently by acetic acid compared to sulfuric acid. <i>Industrial Crops and Products</i> , 2018 , 121, 160-168	5.9	12
63	Quantification of the catalytic performance of C1-cellulose-specific lytic polysaccharide monooxygenases. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 1281-1295	5.7	43
62	Mechanistic insight in the selective delignification of wheat straw by three white-rot fungal species through quantitative C-13 py-GC-MS and whole cell wall HSQC NMR. <i>Biotechnology for Biofuels</i> , 2018 , 11, 262	7.8	21
61	Biomass Pretreatment and Enzymatic Hydrolysis Dynamics Analysis Based on Particle Size Imaging. <i>Microscopy and Microanalysis</i> , 2018 , 24, 517-525	0.5	2
60	RP-UHPLC-UV-ESI-MS/MS analysis of LPMO generated C4-oxidized gluco-oligosaccharides after non-reductive labeling with 2-aminobenzamide. <i>Carbohydrate Research</i> , 2017 , 448, 191-199	2.9	13
59	Boosting LPMO-driven lignocellulose degradation by polyphenol oxidase-activated lignin building blocks. <i>Biotechnology for Biofuels</i> , 2017 , 10, 121	7.8	59
58	Occurrence and function of enzymes for lignocellulose degradation in commercial <i>Agaricus bisporus</i> cultivation. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 4363-4369	5.7	38
57	Potential of a gypsum-free composting process of wheat straw for mushroom production. <i>PLoS ONE</i> , 2017 , 12, e0185901	3.7	6
56	Quantification of Lignin and Its Structural Features in Plant Biomass Using C Lignin as Internal Standard for Pyrolysis-GC-SIM-MS. <i>Analytical Chemistry</i> , 2017 , 89, 10907-10916	7.8	42

55	Biochemical characterization of the xylan hydrolysis profile of the extracellular endo-xylanase from <i>Geobacillus thermodenitrificans</i> T12. <i>BMC Biotechnology</i> , 2017 , 17, 44	3.5	9
54	HO as a candidate bottleneck for MnP activity during cultivation of <i>Agaricus bisporus</i> in compost. <i>AMB Express</i> , 2017 , 7, 124	4.1	15
53	Different action patterns of glucoamylases on branched gluco-oligosaccharides from amylopectin. <i>Carbohydrate Polymers</i> , 2016 , 143, 198-203	10.3	3
52	βGlucans and Resistant Starch Alter the Fermentation of Recalcitrant Fibers in Growing Pigs. <i>PLoS ONE</i> , 2016 , 11, e0167624	3.7	21
51	The two <i>Rasamsonia emersonii</i> βglucuronidases, ReGH67 and ReGH115, show a different mode-of-action towards glucuronoxylan and glucuronoxyloligosaccharides. <i>Biotechnology for Biofuels</i> , 2016 , 9, 105	7.8	14
50	Deconstruction of lignin linked p-coumarates, ferulates and xylan by NaOH enhances the enzymatic conversion of glucan. <i>Bioresource Technology</i> , 2016 , 216, 44-51	11	29
49	Lytic polysaccharide monooxygenases from <i>Myceliophthora thermophila</i> C1 differ in substrate preference and reducing agent specificity. <i>Biotechnology for Biofuels</i> , 2016 , 9, 186	7.8	99
48	Delignification outperforms alkaline extraction for xylan fingerprinting of oil palm empty fruit bunch. <i>Carbohydrate Polymers</i> , 2016 , 153, 356-363	10.3	5
47	Water-holding capacity of soluble and insoluble polysaccharides in pressed potato fibre. <i>Industrial Crops and Products</i> , 2015 , 64, 242-250	5.9	12
46	Accumulation of recalcitrant xylan in mushroom-compost is due to a lack of xylan substituent removing enzyme activities of <i>Agaricus bisporus</i> . <i>Carbohydrate Polymers</i> , 2015 , 132, 359-68	10.3	5
45	Discovery of the combined oxidative cleavage of plant xylan and cellulose by a new fungal polysaccharide monooxygenase. <i>Biotechnology for Biofuels</i> , 2015 , 8, 101	7.8	151
44	Characterisation of branched gluco-oligosaccharides to study the mode-of-action of a glucoamylase from <i>Hypocrea jecorina</i> . <i>Carbohydrate Polymers</i> , 2015 , 132, 59-66	10.3	10
43	Importance of acid or alkali concentration on the removal of xylan and lignin for enzymatic cellulose hydrolysis. <i>Industrial Crops and Products</i> , 2015 , 64, 88-96	5.9	45
42	Uncovering the abilities of <i>Agaricus bisporus</i> to degrade plant biomass throughout its life cycle. <i>Environmental Microbiology</i> , 2015 , 17, 3098-109	5.2	37
41	Fate of Carbohydrates and Lignin during Composting and Mycelium Growth of <i>Agaricus bisporus</i> on Wheat Straw Based Compost. <i>PLoS ONE</i> , 2015 , 10, e0138909	3.7	55
40	Compost Grown <i>Agaricus bisporus</i> Lacks the Ability to Degrade and Consume Highly Substituted Xylan Fragments. <i>PLoS ONE</i> , 2015 , 10, e0134169	3.7	16
39	Understanding carbohydrate structures fermented or resistant to fermentation in broilers fed rapeseed (<i>Brassica napus</i>) meal to evaluate the effect of acid treatment and enzyme addition. <i>Poultry Science</i> , 2014 , 93, 926-34	3.9	6
38	Effects of processing technologies and pectolytic enzymes on degradability of nonstarch polysaccharides from rapeseed meal in broilers. <i>Poultry Science</i> , 2014 , 93, 589-98	3.9	22

37	Carbohydrate composition of compost during composting and mycelium growth of <i>Agaricus bisporus</i> . <i>Carbohydrate Polymers</i> , 2014 , 101, 281-8	10.3	24
36	Separation of digesta fractions complicates estimation of ileal digestibility using marker methods with Cr ₂ O ₃ and cobalt-ethylenediamine tetraacetic acid in broiler chickens. <i>Poultry Science</i> , 2014 , 93, 2010-7	3.9	11
35	Improved starch recovery from potatoes by enzymes and reduced water holding of the residual fibres. <i>Carbohydrate Polymers</i> , 2014 , 113, 256-63	10.3	7
34	Unfermented recalcitrant polysaccharide structures from rapeseed (<i>Brassica napus</i>) meal in pigs. <i>Industrial Crops and Products</i> , 2014 , 58, 271-279	5.9	18
33	Processing technologies and cell wall degrading enzymes to improve nutritional value of dried distillers grain with solubles for animal feed: an in vitro digestion study. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 8821-8	5.7	24
32	Characterisation of cell wall polysaccharides from rapeseed (<i>Brassica napus</i>) meal. <i>Carbohydrate Polymers</i> , 2013 , 98, 1650-6	10.3	33
31	Structural features and water holding capacities of pressed potato fibre polysaccharides. <i>Carbohydrate Polymers</i> , 2013 , 93, 589-96	10.3	25
30	Carbohydrate utilization and metabolism is highly differentiated in <i>Agaricus bisporus</i> . <i>BMC Genomics</i> , 2013 , 14, 663	4.5	27
29	Enzyme resistant feruloylated xylooligomer analogues from thermochemically treated corn fiber contain large side chains, ethyl glycosides and novel sites of acetylation. <i>Carbohydrate Research</i> , 2013 , 381, 33-42	2.9	37
28	Residual carbohydrates from in vitro digested processed rapeseed (<i>Brassica napus</i>) meal. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 8257-63	5.7	31
27	Effects of pretreatment of wheat bran on the quality of protein-rich residue for animal feeding and on monosaccharide release for ethanol production. <i>Bioresource Technology</i> , 2012 , 124, 446-54	11	19
26	Corn fiber, cobs and stover: enzyme-aided saccharification and co-fermentation after dilute acid pretreatment. <i>Bioresource Technology</i> , 2011 , 102, 5995-6004	11	70
25	Characterization of substituents in xylans from corn cobs and stover. <i>Carbohydrate Polymers</i> , 2011 , 86, 722-731	10.3	52
24	Characterization and mode of action of two acetyl xylan esterases from <i>Chrysosporium lucknowense</i> C1 active towards acetylated xylans. <i>Enzyme and Microbial Technology</i> , 2011 , 49, 312-20	3.8	35
23	Biochemical characterization and relative expression levels of multiple carbohydrate esterases of the xylanolytic rumen bacterium <i>Prevotella ruminicola</i> 23 grown on an ester-enriched substrate. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 5671-81	4.8	42
22	Characterization of oligomeric xylan structures from corn fiber resistant to pretreatment and simultaneous saccharification and fermentation. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 11294-301	5.7	82
21	A Brief and Informationally Rich Naming System for Oligosaccharide Motifs of Heteroxylans Found in Plant Cell Walls. <i>Australian Journal of Chemistry</i> , 2009 , 62, 533	1.2	70
20	Hydrothermal processing of rice husks: effects of severity on product distribution. <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 965-972	3.5	57

19	CE-MSn of complex pectin-derived oligomers. <i>Electrophoresis</i> , 2008 , 29, 2101-11	3.6	30
18	Effects of Eucalyptus globulus wood autohydrolysis conditions on the reaction products. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 9006-13	5.7	55
17	Effect of pretreatment severity on xylan solubility and enzymatic breakdown of the remaining cellulose from wheat straw. <i>Bioresource Technology</i> , 2007 , 98, 2034-42	11	360
16	MALDI-TOF MS evidence for the linking of flax bast fibre galactan to rhamnogalacturonan backbone. <i>Carbohydrate Polymers</i> , 2007 , 67, 86-96	10.3	30
15	Structural differences of xylans affect their interaction with cellulose. <i>Carbohydrate Polymers</i> , 2007 , 69, 94-105	10.3	160
14	Preparation of arabinoxylobiose from rye xylan using family 10 <i>Aspergillus aculeatus</i> endo-1,4-β-xylanase. <i>Carbohydrate Polymers</i> , 2007 , 68, 350-359	10.3	100
13	Bilberry xyloglucan--novel building blocks containing beta-xylose within a complex structure. <i>Carbohydrate Research</i> , 2007 , 342, 170-81	2.9	30
12	A generic model for glucose production from various cellulose sources by a commercial cellulase complex. <i>Biocatalysis and Biotransformation</i> , 2007 , 25, 419-429	2.5	34
11	Standard assays do not predict the efficiency of commercial cellulase preparations towards plant materials. <i>Biotechnology and Bioengineering</i> , 2006 , 93, 56-63	4.9	92
10	A comparison of liquid chromatography, capillary electrophoresis, and mass spectrometry methods to determine xyloglucan structures in black currants. <i>Journal of Chromatography A</i> , 2006 , 1133, 275-86	4.5	50
9	Capillary electrophoresis fingerprinting, quantification and mass-identification of various 9-aminopyrene-1,4,6-trisulfonate-derivatized oligomers derived from plant polysaccharides. <i>Journal of Chromatography A</i> , 2006 , 1137, 119-26	4.5	39
8	Structural characterization of tissue-specific galactan from flax fibers by 1H NMR and MALDI TOF mass spectrometry. <i>Russian Journal of Bioorganic Chemistry</i> , 2006 , 32, 558-567	1	4
7	Location of O-acetyl substituents in xylo-oligosaccharides obtained from hydrothermally treated Eucalyptus wood. <i>Carbohydrate Research</i> , 2003 , 338, 69-77	2.9	64
6	Identification of Structural Features of Various (O-Acetylated) Xylo-Oligosaccharides from Xylan-Rich Agricultural By-Products: A Review. <i>ACS Symposium Series</i> , 2003 , 107-121	0.4	3
5	Complex xylo-oligosaccharides identified from hydrothermally treated Eucalyptus wood and brewery spent grain. <i>Carbohydrate Polymers</i> , 2002 , 50, 191-200	10.3	94
4	Hydrothermally treated xylan rich by-products yield different classes of xylo-oligosaccharides. <i>Carbohydrate Polymers</i> , 2002 , 50, 47-56	10.3	185
3	In vitro fermentability of differently substituted xylo-oligosaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2002 , 50, 6205-10	5.7	133
2	Mass determination of oligosaccharides by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry following HPLC, assisted by on-line desalting and automated sample handling. <i>Carbohydrate Polymers</i> , 2001 , 44, 161-165	10.3	36

- 1 Endoglucanase V and a phosphatase from *Trichoderma viride* are able to act on modified exopolysaccharide from *Lactococcus lactis* subsp. *cremoris* B40. *Carbohydrate Research*, **1999**, 317, 131-44²⁹ 9