

Mirjam A Kabel

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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 | 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 |
| 107 | Hydrothermally treated xylan rich by-products yield different classes of xylo-oligosaccharides. <i>Carbohydrate Polymers</i> , 2002 , 50, 47-56 | 10.3 | 185 |
| 106 | Structural differences of xylans affect their interaction with cellulose. <i>Carbohydrate Polymers</i> , 2007 , 69, 94-105 | 10.3 | 160 |
| 105 | Discovery of the combined oxidative cleavage of plant xylan and cellulose by a new fungal polysaccharide monoxygenase. <i>Biotechnology for Biofuels</i> , 2015 , 8, 101 | 7.8 | 151 |
| 104 | In vitro fermentability of differently substituted xylo-oligosaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2002 , 50, 6205-10 | 5.7 | 133 |
| 103 | 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 |
| 102 | Lytic polysaccharide monoxygenases 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 |
| 101 | Complex xylo-oligosaccharides identified from hydrothermally treated Eucalyptus wood and brewery's spent grain. <i>Carbohydrate Polymers</i> , 2002 , 50, 191-200 | 10.3 | 94 |
| 100 | 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 |
| 99 | 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 |
| 98 | Laccase/Mediator Systems: Their Reactivity toward Phenolic Lignin Structures. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2037-2046 | 8.3 | 81 |
| 97 | Distinct Substrate Specificities and Electron-Donating Systems of Fungal Lytic Polysaccharide Monoxygenases. <i>Frontiers in Microbiology</i> , 2018 , 9, 1080 | 5.7 | 70 |
| 96 | 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 |
| 95 | 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 |
| 94 | 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 |
| 93 | Boosting LPMO-driven lignocellulose degradation by polyphenol oxidase-activated lignin building blocks. <i>Biotechnology for Biofuels</i> , 2017 , 10, 121 | 7.8 | 59 |
| 92 | 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 |

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|----|---|------|----|
| 91 | 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 |
| 90 | Effects of <i>Eucalyptus globulus</i> wood autohydrolysis conditions on the reaction products. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 9006-13 | 5.7 | 55 |
| 89 | Characterization of substituents in xylans from corn cobs and stover. <i>Carbohydrate Polymers</i> , 2011 , 86, 722-731 | 10.3 | 52 |
| 88 | 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 |
| 87 | 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 |
| 86 | Quantification of the catalytic performance of C1-cellulose-specific lytic polysaccharide monoxygenases. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 1281-1295 | 5.7 | 43 |
| 85 | 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 |
| 84 | 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 |
| 83 | 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 |
| 82 | 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 |
| 81 | 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 |
| 80 | 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 |
| 79 | 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 |
| 78 | 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 |
| 77 | 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 |
| 76 | Characterisation of cell wall polysaccharides from rapeseed (<i>Brassica napus</i>) meal. <i>Carbohydrate Polymers</i> , 2013 , 98, 1650-6 | 10.3 | 33 |
| 75 | 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 |
| 74 | 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 |

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|----|---|------|----|
| 73 | Bilberry xyloglucan--novel building blocks containing beta-xylose within a complex structure. <i>Carbohydrate Research</i> , 2007 , 342, 170-81 | 2.9 | 30 |
| 72 | CE-MSn of complex pectin-derived oligomers. <i>Electrophoresis</i> , 2008 , 29, 2101-11 | 3.6 | 30 |
| 71 | A novel acetyl xylan esterase enabling complete deacetylation of substituted xylans. <i>Biotechnology for Biofuels</i> , 2018 , 11, 74 | 7.8 | 29 |
| 70 | 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 |
| 69 | Influence of Lytic Polysaccharide Monooxygenase Active Site Segments on Activity and Affinity. <i>International Journal of Molecular Sciences</i> , 2019 , 20, | 6.3 | 28 |
| 68 | Carbohydrate utilization and metabolism is highly differentiated in <i>Agaricus bisporus</i> . <i>BMC Genomics</i> , 2013 , 14, 663 | 4.5 | 27 |
| 67 | Structural features and water holding capacities of pressed potato fibre polysaccharides. <i>Carbohydrate Polymers</i> , 2013 , 93, 589-96 | 10.3 | 25 |
| 66 | 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 |
| 65 | 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 |
| 64 | 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 |
| 63 | β-Glucans and Resistant Starch Alter the Fermentation of Recalcitrant Fibers in Growing Pigs. <i>PLoS ONE</i> , 2016 , 11, e0167624 | 3.7 | 21 |
| 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 | 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 |
| 60 | 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 |
| 59 | Elucidation of In Situ Ligninolysis Mechanisms of the Selective White-Rot Fungus <i>Ceriporiopsis subvermispota</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16757-16764 | 8.3 | 17 |
| 58 | 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 |
| 57 | Evidence for ligninolytic activity of the ascomycete fungus. <i>Biotechnology for Biofuels</i> , 2020 , 13, 75 | 7.8 | 16 |
| 56 | Feruloyl Esterases for Biorefineries: Subfamily Classified Specificity for Natural Substrates. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 332 | 5.8 | 15 |

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|----|---|------|----|
| 55 | Configuration of active site segments in lytic polysaccharide monoxygenases steers oxidative xyloglucan degradation. <i>Biotechnology for Biofuels</i> , 2020 , 13, 95 | 7.8 | 15 |
| 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 | 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 |
| 52 | The two <i>Rasamsonia emersonii</i> β -glucuronidases, ReGH67 and ReGH115, show a different mode-of-action towards glucuronoxylan and glucuronoxyloligosaccharides. <i>Biotechnology for Biofuels</i> , 2016 , 9, 105 | 7.8 | 14 |
| 51 | 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 |
| 50 | Understanding laccase/HBT-catalyzed grass delignification at the molecular level. <i>Green Chemistry</i> , 2020 , 22, 1735-1746 | 10 | 13 |
| 49 | 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 |
| 48 | The solubility of primary plant cell wall polysaccharides in LiCl-DMSO. <i>Carbohydrate Polymers</i> , 2018 , 200, 332-340 | 10.3 | 12 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |
| 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 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | Endoglucanase V and a phosphatase from <i>Trichoderma viride</i> are able to act on modified exopolysaccharide from <i>Lactococcus lactis</i> subsp. <i>cremoris</i> B40. <i>Carbohydrate Research</i> , 1999 , 317, 131-44 | 2.9 | 9 |
| 38 | 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 |

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|----|--|------|---|
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | Potential of a gypsum-free composting process of wheat straw for mushroom production. <i>PLoS ONE</i> , 2017 , 12, e0185901 | 3.7 | 6 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | Delignification outperforms alkaline extraction for xylan fingerprinting of oil palm empty fruit bunch. <i>Carbohydrate Polymers</i> , 2016 , 153, 356-363 | 10.3 | 5 |
| 26 | 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 |
| 25 | Structural characterization of tissue-specific galactan from flax fibers by ¹ H NMR and MALDI TOF mass spectrometry. <i>Russian Journal of Bioorganic Chemistry</i> , 2006 , 32, 558-567 | 1 | 4 |
| 24 | 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 |
| 23 | 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 |
| 22 | Breeding Targets to Improve Biomass Quality in <i>Miscanthus</i> . <i>Molecules</i> , 2021 , 26, | 4.8 | 4 |
| 21 | Different action patterns of glucoamylases on branched gluco-oligosaccharides from amylopectin. <i>Carbohydrate Polymers</i> , 2016 , 143, 198-203 | 10.3 | 3 |
| 20 | Production of β 1,3-L-arabinofuranosidase active on substituted xylan does not improve compost degradation by <i>Agaricus bisporus</i> . <i>PLoS ONE</i> , 2018 , 13, e0201090 | 3.7 | 3 |

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|----|---|------|---|
| 19 | 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 |
| 18 | Fungal xylanolytic enzymes: Diversity and applications. <i>Bioresource Technology</i> , 2022 , 344, 126290 | 11 | 3 |
| 17 | Regioselective C4 and C6 Double Oxidation of Cellulose by Lytic Polysaccharide Monooxygenases. <i>ChemSusChem</i> , 2021 , | 8.3 | 3 |
| 16 | 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 |
| 15 | Facile enzymatic Cacylation of lignin model compounds. <i>Catalysis Communications</i> , 2020 , 136, 105919 | 3.2 | 3 |
| 14 | 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 |
| 13 | Non-productive binding of cellobiohydrolase i investigated by surface plasmon resonance spectroscopy. <i>Cellulose</i> , 2021 , 28, 9525-9545 | 5.5 | 3 |
| 12 | Biomass Pretreatment and Enzymatic Hydrolysis Dynamics Analysis Based on Particle Size Imaging. <i>Microscopy and Microanalysis</i> , 2018 , 24, 517-525 | 0.5 | 2 |
| 11 | Strategy to identify reduced arabinoxylo-oligosaccharides by HILIC-MS.. <i>Carbohydrate Polymers</i> , 2022 , 289, 119415 | 10.3 | 2 |
| 10 | Microbial lignin degradation in an industrial composting environment. <i>Bioresource Technology Reports</i> , 2022 , 17, 100911 | 4.1 | 1 |
| 9 | Glycoside Hydrolase family 30 harbors fungal subfamilies with distinct polysaccharide specificities.. <i>New Biotechnology</i> , 2021 , 67, 32-41 | 6.4 | 1 |
| 8 | Modification of Plant Carbohydrates Using Fungal Enzymes 2021 , 370-384 | | 1 |
| 7 | GH10 and GH11 endoxylanases in <i>Penicillium subrubescens</i> : Comparative characterization and synergy with GH51, GH54, GH62 L-arabinofuranosidases from the same fungus. <i>New Biotechnology</i> , 2022 , 70, 84-92 | 6.4 | 1 |
| 6 | 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 |
| 5 | Profiling the cell walls of seagrasses from A (<i>Amphibolis</i>) to Z (<i>Zostera</i>).. <i>BMC Plant Biology</i> , 2022 , 22, 63 | 5.3 | 0 |
| 4 | 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 |
| 3 | Extending the diversity of <i>Myceliophthora thermophila</i> LPMOs: Two different xyloglucan cleavage profiles.. <i>Carbohydrate Polymers</i> , 2022 , 288, 119373 | 10.3 | 0 |
| 2 | 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 |

- 1 In vivo formation of arabinoxylo-oligosaccharides by dietary endo-xylanase alters arabinoxylan utilization in broilers. *Carbohydrate Polymers*, **2022**, 291, 119527

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