

Publication List Li Liu

as of October 2025

95. Zhuang J.D., Shi J.M., Lu A.M., Liu L.† and Voglmeir J.† (2025): ATP-independent enzymatic cascade for chitin-to-glucose bioconversion. **Green Chemistry** (accepted)
94. Bian J., Wang Y., Liu L.†, Voglmeir J.† (2025): Human O-GlcNAc Transferase Substrate Recognition via MALDI-TOF MS Quantification of Peptide Glycosylation. **Carbohydrate Research** (accepted)
93. Hu Z.X., Zhang J.Y., van Ede J., Zhang Y.Y., Li Y.Q., Ghirardello M., Galan M.C., Pabst M., Liu L.†, Voglmeir J.† (2025): Human O-GlcNAc Transferase Substrate Recognition via MALDI-TOF MS Quantification of Peptide Glycosylation. **Glycoconjugate Journal** (accepted)
92. Wei B., Liu L.†, Voglmeir J.† (2025): Novel PNGase H+ from *Amycolatopsis mediterranei*: Biochemical properties and food analysis potential. **Food Materials Research** 5: e015
91. Zhang Y.Y., Hu Z.X., Zhang S.Y., Liu Li., Galan M.C.†, Voglmeir J.†, Ghirardello M. † (2025): Improved ESI-MS Sensitivity via an Imidazolium Tag (DAPMI-ITag) for Precise Sialic Acid Detection in Human Serum and CMAH-Null Mouse Tissues. **Analytical Chemistry** 97, 24, 12587-12694.
90. Wang W., Pang X.J., Wang M., Tian Y., Wu W., Pergolizzi G., Rejzek M., Field R.A., Liu L.†, Widmalm G.†, and Voglmeir J.† (2025): Repurposing CDP-Tyvelose 2-Epimerase Enables a GDP-Fucose-based Fucosylation Pathway starting from Sucrose. **JACS Au** 5,6, 2689-2698.
89. Guo R.R., Heijs B., Wang W.J., Wuhler M., Liu L.†, Lageveen-Kammeijer G.S.M.†, and Voglmeir J.† (2025): Insight into Distribution and Composition of Nonhuman N-Glycans in Mammalian Organs via MALDI-TOF and MALDI-MSI. **Carbohydrate Polymers** 351, 123065.
88. Hu Z.X., Lyu Y.S., Song H.B., Liu L.† and Voglmeir J.† (2024): Galactosylation of Glycoconjugates Using Pacific oyster β -1,3-Galactosyltransferases. **Carbohydrate Research** 109254.
87. Hu Z.X., Li S.R., Xia Q.J., Wang T., Voglmeir J., Widmalm G.† and Liu L.† (2024): Enzymatic Synthesis of N-Formylated Sialosides via a Five-Enzyme Cascade. **Organic & Biomolecular Chemistry** 22, 7485-7491.
86. Zhang J.X., Lyu Y.S., Voglmeir J.† & Liu L.† (2024): Differential impact of glycoprotein glycosylation on *Akkermansia muciniphila* growth dynamics. **Food Materials Research** 4: e022.
85. Chen S., Daly P., Anjago W.M., Wang R., Zhao Y., Wen X., Zhou D., Deng S., Lin X., Voglmeir J., Cai F., Shen Q., Druzhinina I.S., Wei L. (2024): Genus-wide analysis of *Trichoderma* antagonism toward *Pythium* and *Globisporangium* plant pathogens and the contribution of cellulases to the antagonism. **Applied and Environmental Microbiology** e0068124.

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84. Zhang Y.Y., Zhang S.Y., Hu Z.X., Voglmeir J., Liu L.†, Galan M.C.†, Ghirardello M.† (2024): High sensitivity profiling of N-glycans from mouse serum using fluorescent imidazolium tags by HILIC electrospray ionisation spectrometry. **Carbohydrate Polymers** 343:122449.
83. Zhuang J.D., Shi J.M., Hong C.C., Wu T.T., Liu L.†, and Voglmeir J.† (2024): Engineering Bifunctional Galactokinase/Uridyltransferase Chimera for Enhanced UDP-D-Xylose Production. **JACS Au** 4(7):2557-2563.
82. Liu F.F., Wang M., Ma G.H., Kulinich A., Liu L.†, Voglmeir J.† (2024): Characterization of *Solitalea canadensis* α -mannosidase with specific activity towards α 1,3-mannosidic linkages. **Carbohydrate Research** 538:109100.
81. Yu Y.Y., Zhang S.Y., Sun J.H., Li Y.Y., Zhang Y.Y., Lu A.M., Liu L.†, Voglmeir J.† (2024): Biocatalytic β -glucosylation/ β -galactosylation of Rebaudioside C by glycosynthases. **Food Materials Research** (in press).
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73. Guo R.R., Zhang T.C., Lambert T.O.T., Wang T., Voglmeir J.†, Rand K.D.†, Liu L.† (2022): PNGase H+ variant from *Rudaea cellulosilytica* with improved deglycosylation efficiency for rapid analysis of eukaryotic N-glycans and HDX-MS

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66. Mao H., Li S., Yin B., Lin X., Guo J., Wang T., Voglmeir J.†, Liu L.† (2022). The mechanism of probiotic action of human milk N-glycome towards *B. infantis* ATCC 15697 and identification of the principal functional components. **Food Chemistry** 384, 132532.
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