This is an uncomplete list of publications that have made use of Xenocs Xeuss 3.0 SAXS/WAXS instrument at Aalto University/ Otanano infra/ NMC

Updated: 11.4.2022

2022

Guillermo Reyes\*, Rubina Ajdary, Maryam R. Yazdani, and Orlando J. Rojas\*, Hollow Filaments Synthesized by Dry-Jet Wet Spinning of Cellulose Nanofibrils: Structural Properties and Thermoregulation with Phase-Change Infills, ACS Appl. Polym. Mater. 2022, XXXX, XXX, XXX-XXX DOI: <https://doi.org/10.1021/acsapm.2c00177>

Bhattarai, M., Penttilä, P., Barba, L., Macias-Rodriguez, B., Hietala, S., Mikkonen, K. S., & Valoppi, F. (2022), Size-dependent filling effect of crystalline celluloses in structural engineering of composite oleogels. LWT, 160, 113331. DOI: 10.1016/j.lwt.2022.113331

Lourençon, T., Altgen, M., Pääkkönen, T., Guccini, V., Penttilä, P., Kontturi, E., & Rautkari, L. (2022), Effect of moisture on polymer deconstruction in HCl gas hydrolysis of wood. ACS Omega, 7, 7074-7083. DOI: 10.1021/acsomega.1c06773

2021

Moriam, K., Sawada, D., Nieminen, K., Ma, Y., Rissanen, M., Nygren, N., ... & Sixta, H. (2021). Spinneret geometry modulates the mechanical properties of man-made cellulose fibers. Cellulose, 28(17), 11165-11181.

Zou, T., Nonappa, N., Khavani, M., Vuorte, M., Penttilä, P., Zitting, A., Valle-Delgado, J. J., Elert, A. M., Silbernagl, D., Balakshin, M., Sammalkorpi, M., & Österberg, M. (2021), Experimental and simulation study of the solvent effects on the intrinsic properties of spherical lignin nanoparticles. The Journal of Physical Chemistry B, 125, 12315-12328. DOI: 10.1021/acs.jpcb.1c05319

Figueiredo, P., Lahtinen, M. H., Agustin, M., Morais de Carvalho, D., Hirvonen, S.-P., Penttilä, P. A., & Mikkonen, K. S. (2021), Green route fabrication approaches of lignin nanoparticles from different technical lignins: a comparison study. ChemSusChem, 14, 4718-4730.  DOI: 10.1002/cssc.202101356