



Showcasing research from Dr. Johanna Meyer, Institute of Technical Chemistry, Leibniz University Hannover, Germany and Dr. Stefans Jopp's Laboratory, Institute of Chemistry, University of Rostock, Germany.

Synthesis, biocompatibility, and antimicrobial properties of glucose-based ionic liquids

An effective and high-yielding synthesis of glucose-based imidazolium ionic liquids using a simple 2-step procedure was established. This approach easily enables the introduction of several substitutions on the carbohydrate and the imidazole. Thus, the tuneability of these novel substances, as well as higher cell viability and antimicrobial behaviour in comparison to common imidazolium-based ionic liquids were achieved. Paving the way to promising biocompatible ionic liquids of the third generation.

As featured in:



See Stefan Jopp, Johanna Meyer *et al.*, *RSC. Sustainability.*, 2023, 1, 1751.