



Showcasing research from Associate Professor Dr. Julio C. Pastre of Institute of Chemistry, Department of Organic Chemistry, University of Campinas – UNICAMP, Campinas, SP – Brazil.

Nitrogenated aromatics from chitin

We demonstrated in this work the great potential of two chitin-derived furans, 3A5EF and 3A5HF as dienes in DA reactions to readily reach high-value nitrogenated aromatic compounds. The DA adducts underwent dehydration reactions as a key step leading to the synthesis of *N*-containing aromatics with the nitrogen atom directly attached to the benzene ring. Thus, we developed a unique two-step tandem process, Diels–Alder followed by aromatisation, that provides access to eight novel chitin-derived 4-acetylaminophthalimides and two *N*-containing functionalised phthalic anhydride and benzo-nitrile derivatives in good overall yield.

As featured in:



See Julio Cezar Pastre *et al.*, *Green Chem.*, 2023, **25**, 5059.