

Environmental Science: Atmospheres

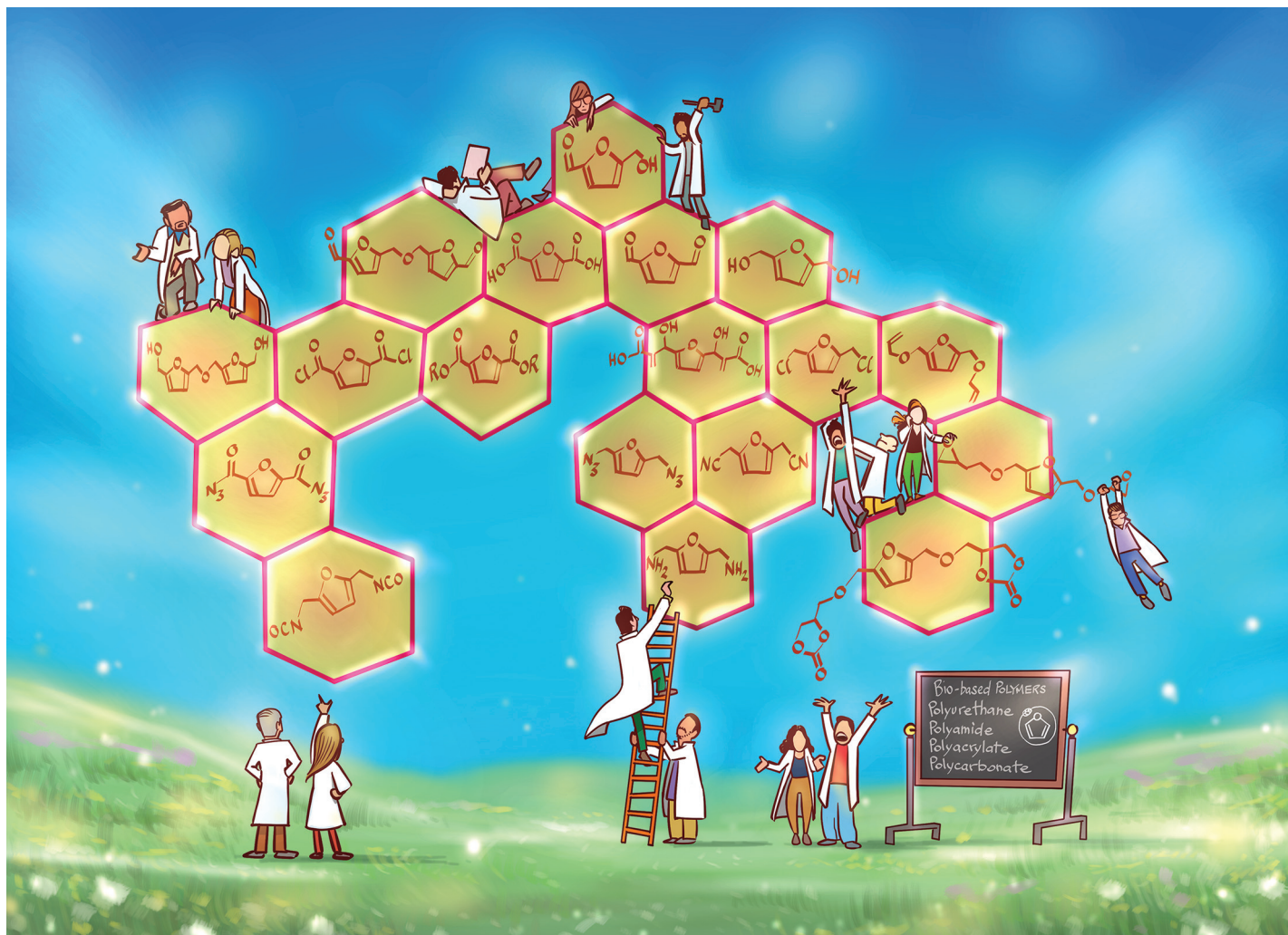
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Fundamental questions
Elemental answers





Showcasing research from Professor Aricò's laboratory, Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice, Italy and Professor García-Verdugo's laboratory, Department of Inorganic and Organic Chemistry, University Jaume I, Castellon, Spain.

Beyond 2,5-furandicarboxylic acid: *status quo*, environmental assessment, and blind spots of furanic monomers for bio-based polymers

This critical review focuses on the most investigated derivatives of 5-(hydroxymethyl)furfural (HMF) beyond 2,5-furandicarboxylic acid. HMF-derived compounds were classified according to their functionalities and the related synthetic approaches were discussed. The greenness of these procedures was evaluated using green metrics. Furthermore, for each family of HMF derivatives, their use as monomers for the synthesis of bio-based polymers was addressed.

As featured in:



See Eduardo García-Verdugo, Fabio Aricò *et al.*, *Green Chem.*, 2024, 26, 8894.