



An article presented by Professor Francesco Ruffo and Dr. Massimo Melchiorre from the University of Naples Federico II, Italy and Professor Andrea Balducci, Khai Shin Teoh, and Dr. Juan Luis Gómez Urbano from the Friedrich-Schiller University Jena, Germany.

A lactic acid dioxolane as a bio-based solvent for lithium-ion batteries: physicochemical and electrochemical investigations of lithium imide-based electrolytes

The potential of a novel biobased dioxolane, derived from lactic acid, was explored as a sustainable solvent for lithium-ion batteries. Electrolytes formulated with imide-based conductive salts were fully characterized, and a full-cell was successfully demonstrated, highlighting its promise for next-generation energy storage.

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See Francesco Ruffo, Andrea Balducci *et al.*, *Green Chem.*, 2025, 27, 5040.