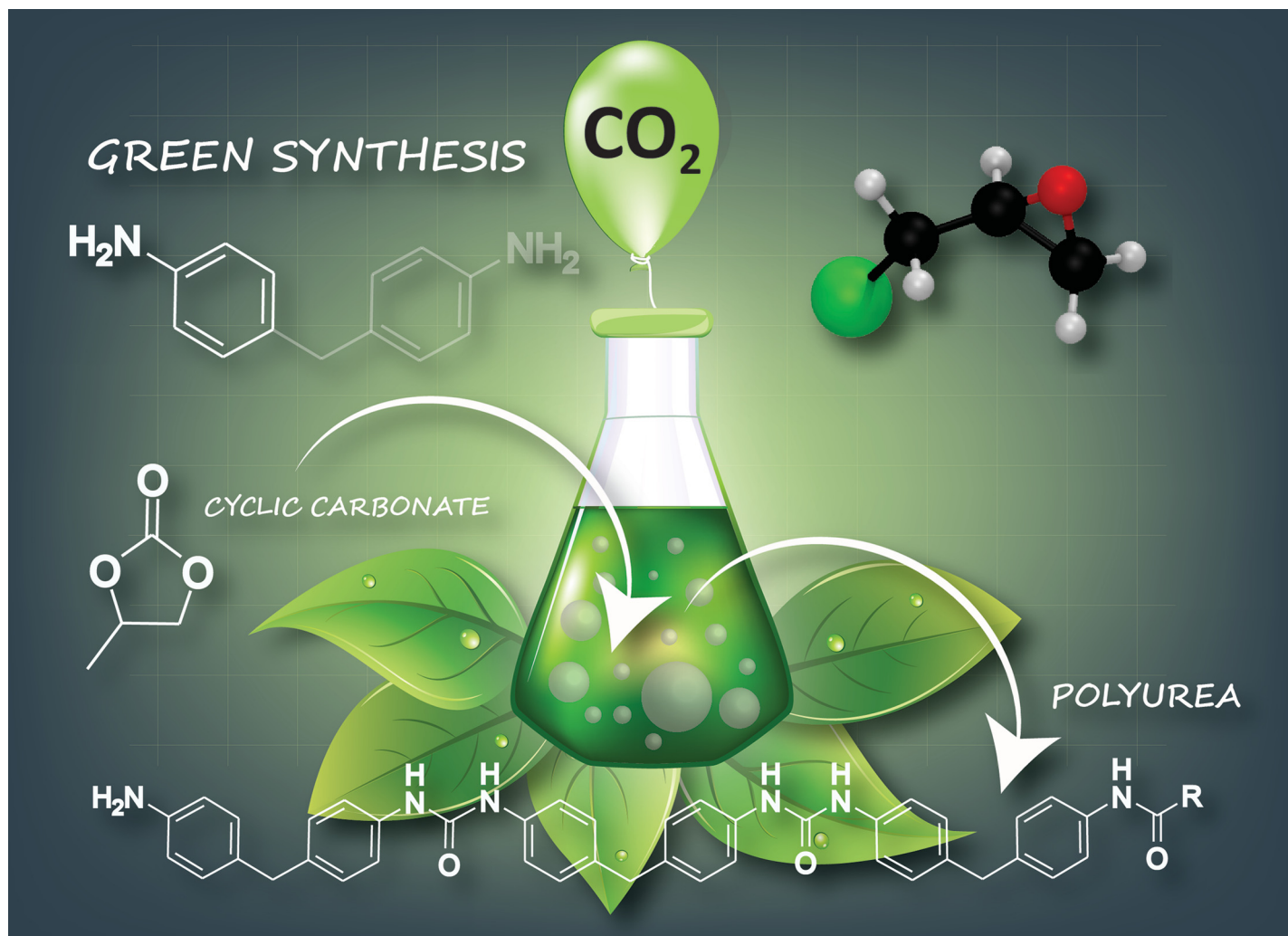


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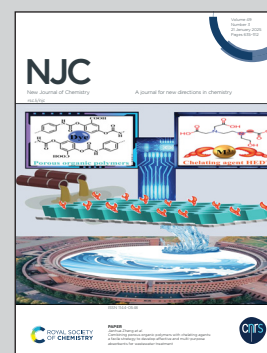


A showcase of collaborative research by the Canadian Jordanian CO₂ Team (CJCO₂T), featuring contributions from A. K. Qaroush (The University of Jordan), A. F. Eftaiha and F. M. Al-Qaisi (The Hashemite University), K. I. Assaf (Al-Balqa Applied University), and P. G. Jessop (Queen's University).

Polyurea-catalyzed cycloaddition of CO₂ and epichlorohydrin: a green approach

We report an isocyanate-free, one-pot solvothermal synthesis of a polyurea from propylene carbonate and methylene-4,4'-dianiline. The resulting polymer acts as a macro organocatalyst for the cycloaddition of epichlorohydrin (ECH) with CO₂. The catalyst is recyclable and can be recovered *via* simple washing and filtration. However, modification of the amine end groups with ECH decreases its catalytic activity.

As featured in:



See Abdussalam K. Qaroush, Ala'a F. Eftaiha, Philip G. Jessop *et al.*, *New J. Chem.*, 2025, **49**, 703.