

Polymer Chemistry

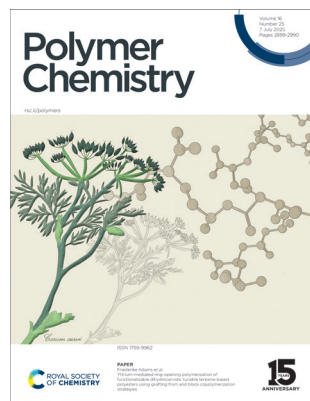
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

rsc.li/polymers

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 1759-9962 CODEN PCOHC2 16(25) 2899-2990 (2025)



Cover

See Friederike Adams *et al.*, pp. 2910–2922.

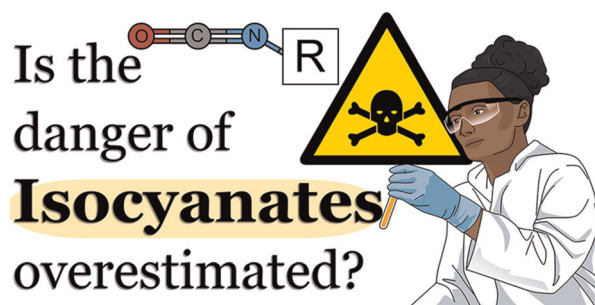
Image reproduced by permission of Friederike Adams from *Polym. Chem.*, 2025, **16**, 2910.

EDITORIAL

2905

Lab safety alert: a real case of isocyanate exposure

Akshaya Maria Prasad, Gabriel Perli, Marta Ximenis, Ainara Tejero, Agurtzane Mugica, Lucas Polo Fonseca, Ainara Sangroniz, Fernando Vidal and Haritz Sardon*

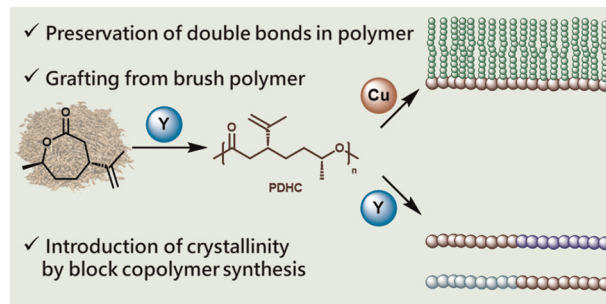


PAPERS

2910

Yttrium-mediated ring-opening polymerization of functionalizable dihydrocarvide: tunable terpene-based polyesters using grafting from and block copolymerization strategies

Lea-Sophie Hornberger, Julian Fischer, Alexandra Friedly, Ingo Hartenbach, Thomas Sottmann and Friederike Adams*



EES Batteries

**Exceptional research on
batteries and energy storage**

Part of the EES family

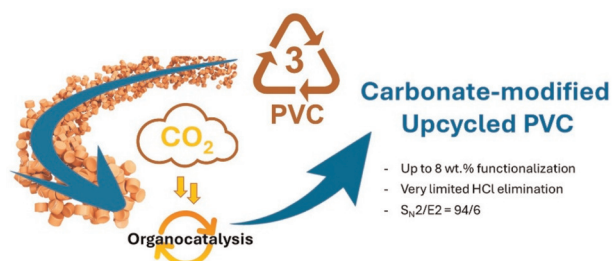
**Join
in** | Publish with us
rsc.li/EESBatteries

PAPERS

2923

CO₂-binding alcohols as potential candidates for poly(vinyl chloride) upcycling

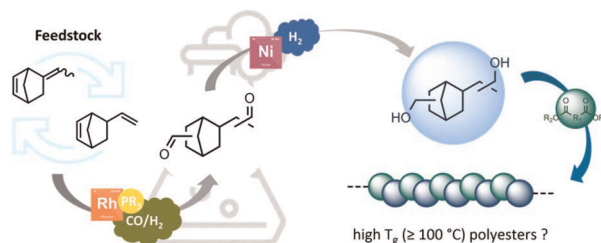
Juliette Delcorps, Emna Ben Ayed and Olivier Coulembier*



2933

5-Ethylidene-2-norbornene (ENB) and 5-vinyl-2-norbornene (VNB) based alicyclic polyols for the synthesis of polyesters

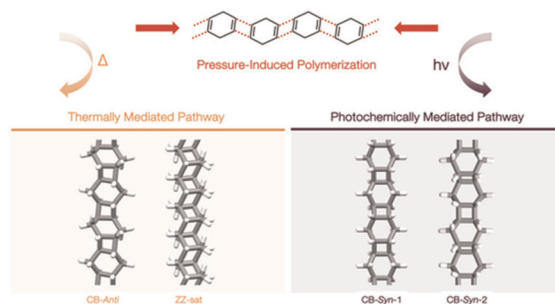
Brigita Bratić, Peter Altenbuchner, Thomas Heuser and Bernhard Rieger*



2943

Cyclobutane-linked nanothreads through thermal and photochemically mediated polymerization of cyclohexadiene

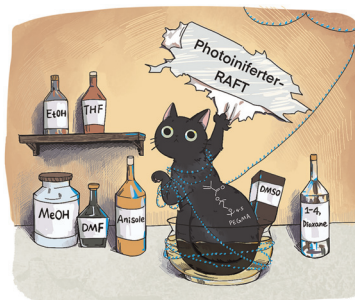
Morgan Murphy, Bohan Xu, Katie E. Rank, Sikai Wu, Steven Huss, John V. Badding, Steven A. Lopez, Vincent H. Crespi and Elizabeth Elacqua*



2952

Solvent and temperature effects in the photoiniferter RAFT polymerisation of PEG methacrylate

Roujia Chang, Bryn D. Monnery* and Inge S. Zuhorn*



2962

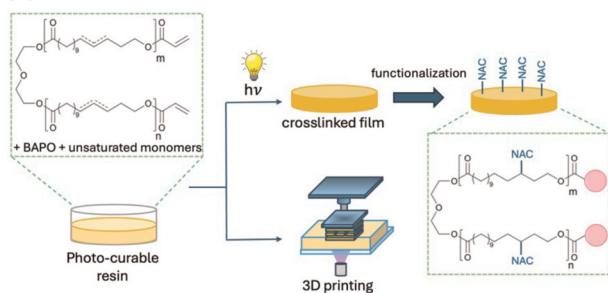
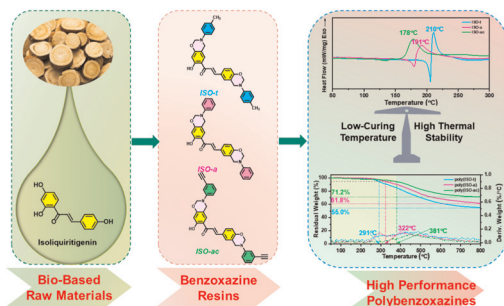


Photo-curable resins based on poly(globalide) for 3D printing of resorbable scaffolds: synthesis, crosslinking and post-functionalization

Laura Oliveira Rebouças, Isabela Lima Autran Dourado, Giovanna Delechiave, Denisse Esther Mallaupoma Camarena, Sandra Van Vlierberghe and Luiz Henrique Catalani*

2978



Achieving very high performance polybenzoxazines from natural renewable isoliquiritigenin: design, preparation and property investigation

Lin Xie and Kan Zhang*

