

# Polymer Chemistry

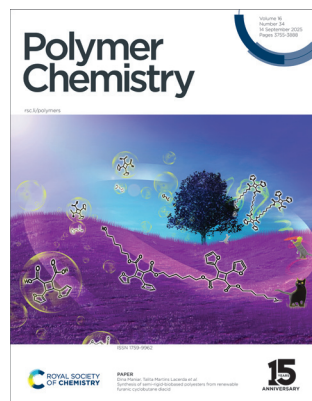
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## IN THIS ISSUE

ISSN 1759-9962 CODEN PCOHC2 16(34) 3755-3888 (2025)



### Cover

See Dina Maniar,  
Talita Martins Lacerda *et al.*,  
pp. 3808–3818.

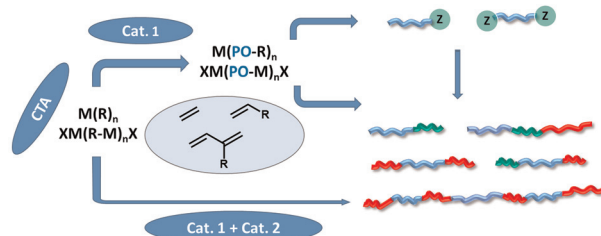
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*Polym. Chem.*, 2025, **16**,  
3808.

## REVIEW

3761

### Block copolymers from coordinative chain transfer (co)polymerization (CCT(co)P) of olefins and 1,3-dienes and mechanical properties of the resulting thermoplastic elastomers

Samy Alioui, Damien Montarnal, Franck D'Agosto and Christophe Boisson\*

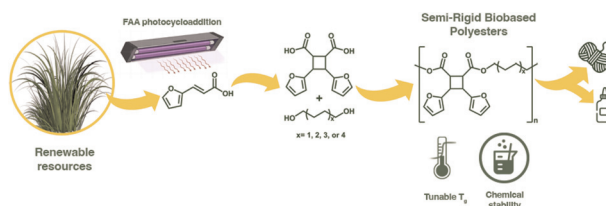


## PAPERS

3808

### Synthesis of semi-rigid-biobased polyesters from renewable furanic cyclobutane diacid

Luan Moreira Grilo, Sara Faoro, Beatriz Agostinho, Andreia F. Sousa, Nathanael Guigo, Katja Loos, Dina Maniar\* and Talita Martins Lacerda\*



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## PAPERS

3819

### Tailoring tetracationic linkers to improve the physical and CO<sub>2</sub> gas separation properties of doubly segmented PEEK-ionene + ionic liquid composites

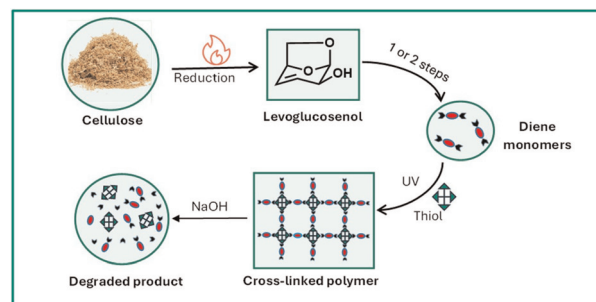
Sudhir Ravula, Kevin W. Wise, Lyndi Strange, Zihua Zhu, Jennifer Yao, Pravin S. Shinde, David J. Heldebrant and Jason E. Bara\*



3835

### Expanding the chemical functionality of levoglucosenone-based monomers for degradable thiol-ene thermosets with high bio-derived content

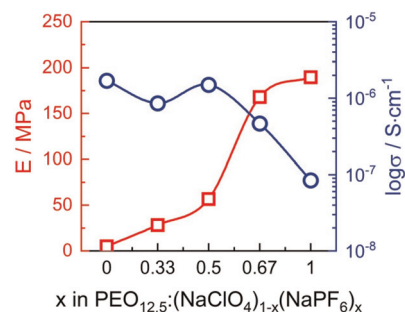
Mahesh Prasad Timilsina, Melissa K. Stanfield, Jason A. Smith and Stuart C. Thickett\*



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### Impact of the NaClO<sub>4</sub>/NaPF<sub>6</sub> salt ratio on the structure, mechanical and conductive properties of the PEO:(NaClO<sub>4</sub>)<sub>1-x</sub>(NaPF<sub>6</sub>)<sub>x</sub> solid polymer electrolyte

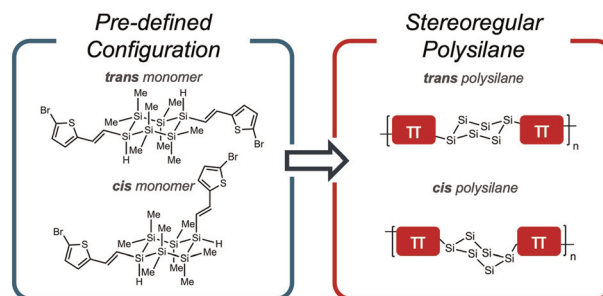
Alexander A. Shindrov,\* Aleksei V. Utkin, Denis P. Pishchur and Dmitry Z. Tsydpylov



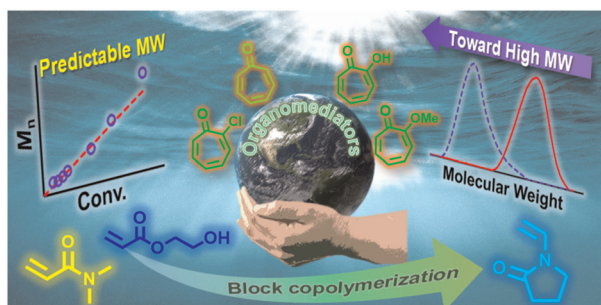
3857

### Stereogenic-at-silicon hybrid conjugated polymers

Qifeng Jiang, Marissa G. Coschigano, Braden A. Mediavilla, Alexandra F. Gittens, Sophia J. Melvin and Rebekka S. Klausen\*



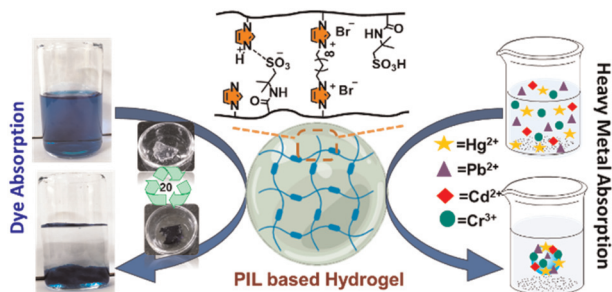
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### Troponoid-mediated radical polymerization in aqueous medium

I-Hsiang Chang, Ting-Yu Lin, Po-Tsun Lai, Edeline Clarissa Adhidjaja and Chi-How Peng\*

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### A multifaceted poly(ionic liquid)-based superabsorbent hydrogel for simultaneous removal of heavy metals and synthetic dyes

Patra HariPriya and Kari Vijayakrishna\*

