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## IN THIS ISSUE

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### Cover

See Takehiro Kawauchi *et al.*, pp. 4529–4536.

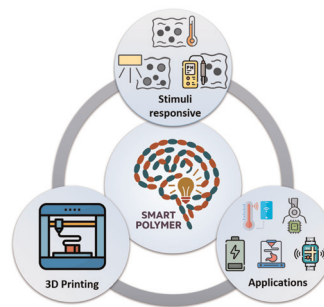
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## REVIEW

4479

### Smart polymers for 3D printing applications: current status and future outlook

Nishikanta Singh, Priyank Sinha, Durgesh Kumar Sinha and Sanjib Banerjee\*

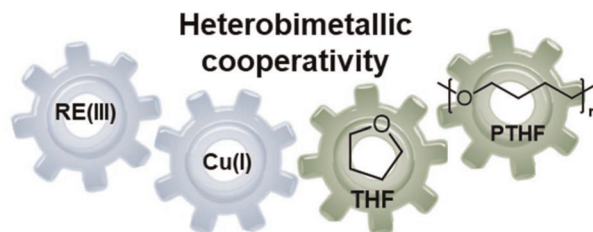


## COMMUNICATION

4524

### Rare earth–transition metal cooperativity in the ring-opening polymerisation of tetrahydrofuran

Rwitabrita Panda, Fabian Rang, Franziska Flecken, Patrick Weis, Sven Schneider, Patrick Théato and Schirin Hanf\*



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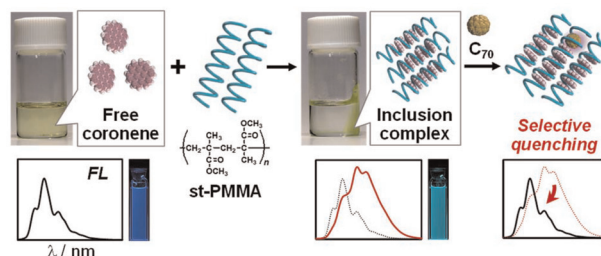
Fundamental questions  
Elemental answers

## PAPERS

4529

### Modulating the luminescence properties of coronene molecules *via* inclusion complex formation with helical syndiotactic poly(methyl methacrylate)

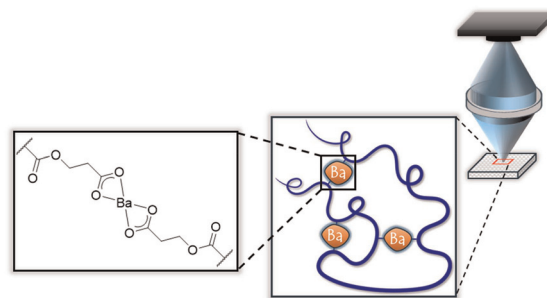
Kosei Nakata, Ryunosuke Yamamoto, Ituki Tousya, Asumi Koizumi, Takuto Adachi, Takeshi Maeda and Takehiro Kawauchi\*



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### Control over Ba(II)-mediated single-chain polymer nanoparticle compaction by dynamic metal complexation

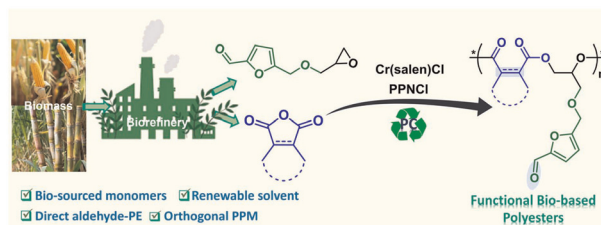
Sebastian Gillhuber, Jochen A. Kammerer, Ada Quinn, Joshua O. Holloway, Kai Mundsinger, Evelina Liarou, Dmitri Golberg, Hendrik Frisch, Megan L. O'Mara,\* Christopher Barner-Kowollik\* and Peter W. Roesky\*



4548

### Renewable hydroxymethylfurfural epoxide and cyclic anhydride copolymerization: a green route to functional biobased polyesters

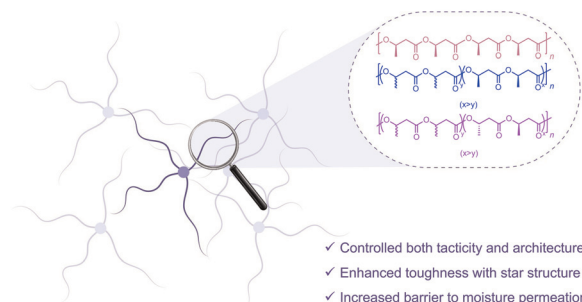
Mani Sengoden, Vanaparathi Satheesh, Sriparna Sarkar and Donald J. Darensbourg\*



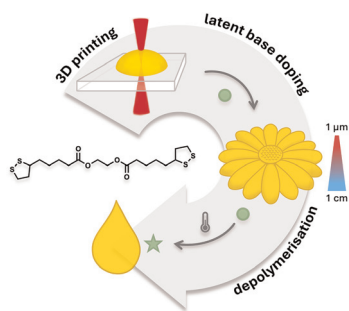
4557

### Synergistic engineering of poly(3-hydroxybutyrate) architecture and stereomicrostructure achieves enhanced material properties

Maëlle T. Gace, Ethan C. Quinn, Fateme Shariatikia, Jorge L. Olmedo-Martínez, Shu Xu, Alejandro J. Müller\* and Eugene Y.-X. Chen\*



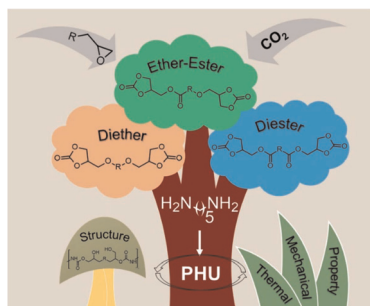
4571



### High resolution light-based 3D printing of a bio-sourced monomer with tuneable depolymerisation

Pia S. Klee, Samantha O. Catt, Lea Sielaff and Eva Blasco\*

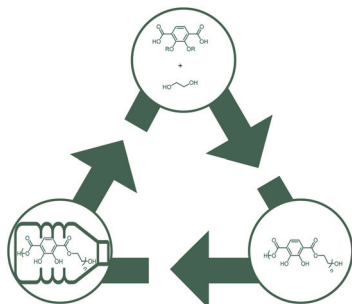
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### Structure–property relationships in bio-based polyhydroxyurethanes

Pooja A. Yadav, John Hadynski, Nicholas Stucchi, Matthew Yakaboski, Austin Keenan, Philip T. Pienkos and Devon A. Shipp\*

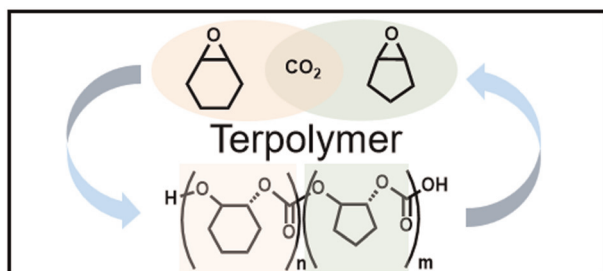
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### Designing catechol-poly(ethylene terephthalate) as a depolymerizable adhesive for PET packaging

Tan H. B. Nguyen, Corey T. Chiu, William Renter, Ferley Orozco, Paul F. Egan and Samantha L. Kristufek\*

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### Synthesis and degradation of terpolymers of cyclohexene oxide, cyclopentene oxide, and carbon dioxide using organoboron catalysts

Qinwen Wang, Tianhao Wu, Bo Li\* and Guang-Peng Wu\*

