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

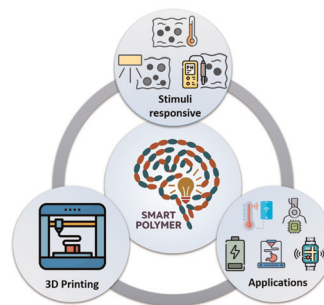
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Takehiro Kawauchi from
Polym. Chem., 2025,
16, 4529.

REVIEW

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

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

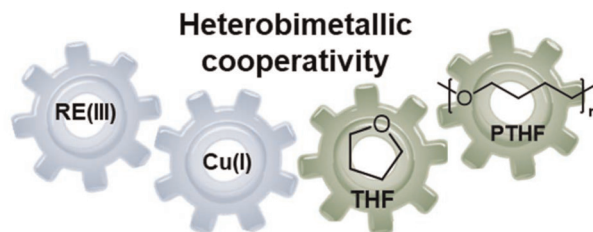


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Rare earth–transition metal cooperativity in the ring-opening polymerisation of tetrahydrofuran

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



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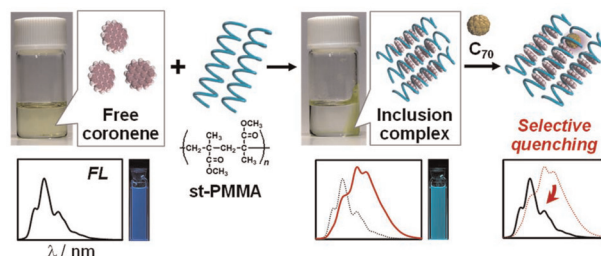
**Fundamental questions
Elemental answers**

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

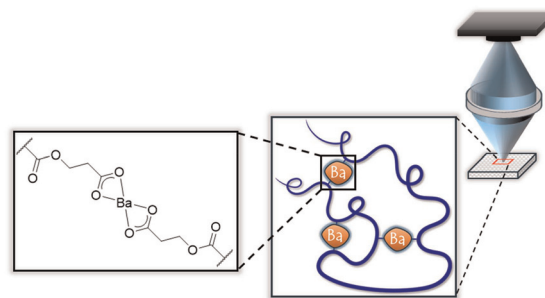
Kosei Nakata, Ryunosuke Yamamoto, Ituki Tousya, Asumi Koizumi, Takuto Adachi, Takeshi Maeda and Takehiro Kawauchi*



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

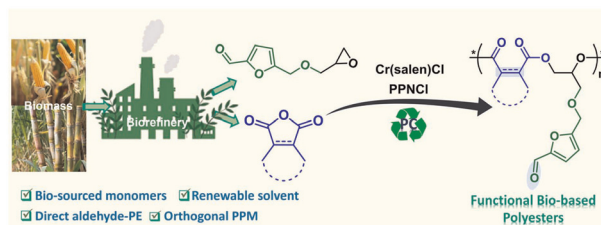
Sebastian Gillhuber, Jochen A. Kammerer, Ada Quinn, Joshua O. Holloway, Kai Mundsinger, Evelina Liarou, Dmitri Golberg, Hendrik Frisch, Megan L. O'Mara,* Christopher Barner-Kowollik* and Peter W. Roesky*



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

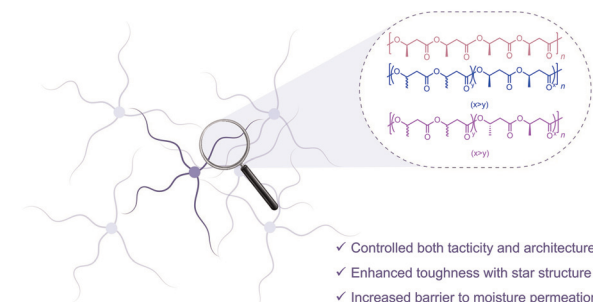
Mani Sengoden, Vanaparthi Satheesh, Sriparna Sarkar and Donald J. Darensbourg*



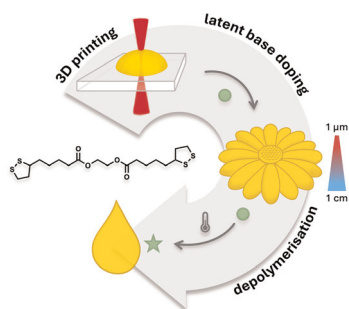
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Synergistic engineering of poly(3-hydroxybutyrate) architecture and stereomicrostructure achieves enhanced material properties

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



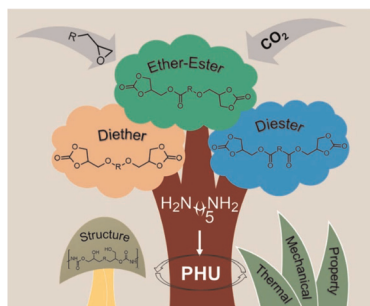
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High resolution light-based 3D printing of a bio-sourced monomer with tuneable depolymerisation

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

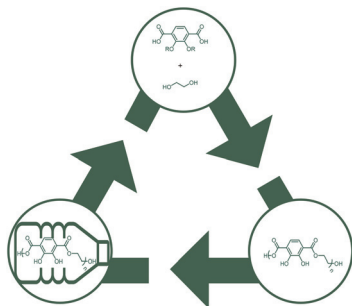
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Structure–property relationships in bio-based polyhydroxyurethanes

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

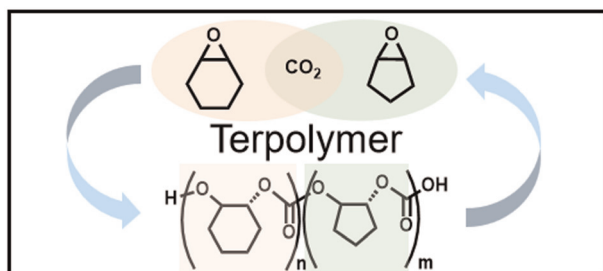
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Designing catechol-poly(ethylene terephthalate) as a depolymerizable adhesive for PET packaging

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*

