

# Polymer Chemistry

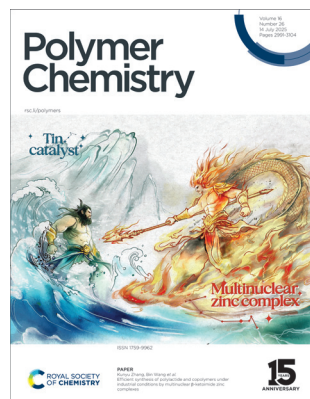
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### Cover

See Kunyu Zhang, Bin Wang  
et al., pp. 3030–3040.

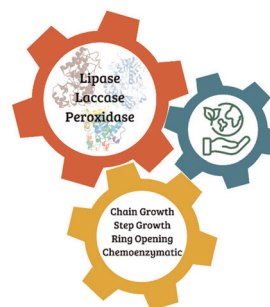
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from *Polym. Chem.*, 2025,  
**16**, 3030.

## REVIEW

2997

### Harnessing enzymes for greener polymerisations: advances in chain and step growth processes

Emily G. Dixon,\* Luisa Ciano, Anca Pordea, Karen Alvey  
and Vincenzo Taresco\*

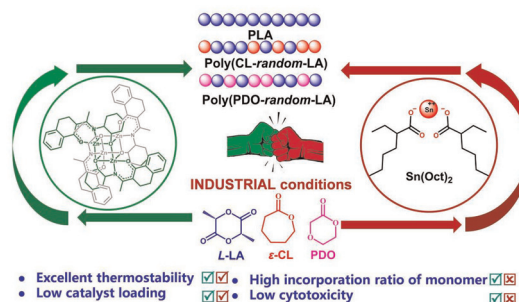


## PAPERS

3030

### Efficient synthesis of polylactide and copolymers under industrial conditions by multinuclear $\beta$ -ketoimide zinc complexes

Yu Cheng, Zihe Zhao, Xiaowei Xu, Chunxiao Ren,  
Xiaohui Wei, Yanxiang Yang, Jin Li, Daqiang Jiang,  
Kunyu Zhang,\* Bin Wang\* and Yi Luo





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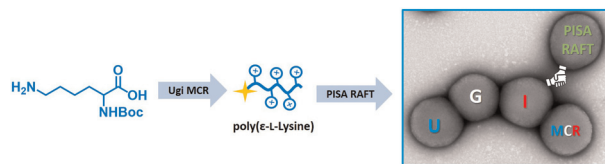


## PAPERS

3041

### Poly( $\epsilon$ -L-lysine)-decorated particles with a tunable morphology by a combination of Ugi multicomponent polymerisation and RAFT-mediated PISA

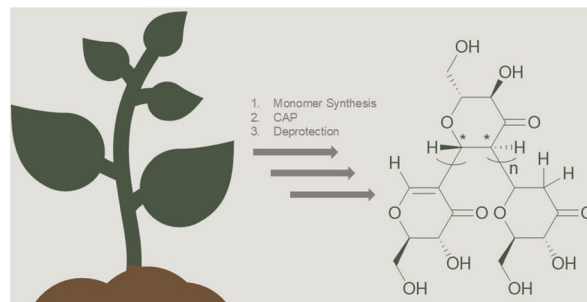
Thi Phuong Thu Nguyen, Lei Lei, Emily G. Dixon, Cl  mence Le Co  ur, Vincenzo Taresco, Antoine Debuigne and Benoit Couturaud\*



3051

### Synthesis of poly(3-keto-D-glucal) *via* conjugate addition polymerization

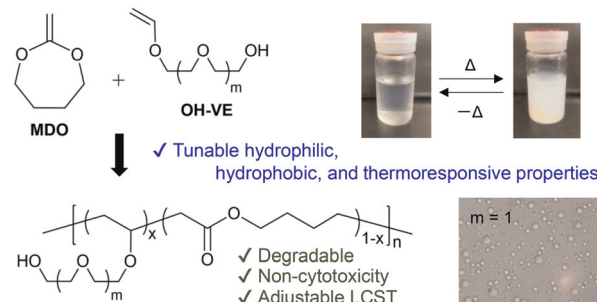
Mudassir M. Syed, Madelyn K. Funke, Logan P. Blackham and Samantha L. Kristufek\*



3059

### Design and synthesis of thermoresponsive degradable copolymers: integrating hydroxy-functional vinyl ethers with cyclic ketene acetals

Shinji Sugihara,\* Atsushi Endo, Komal Raje, Atsushi Matsumoto, Satoshi Fujita and Yasushi Maeda



3070

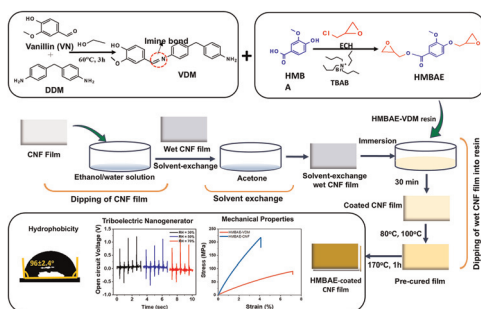
### Choice of photo-excitation conditions in xanthate-supported photo-iniferter (XPI) RAFT polymerization

Vitalii Tkachenko, Tzu-Chien Wu, Anahita Heraji Esfahani, Johannes Gurke and Matthias Hartlieb\*



## PAPERS

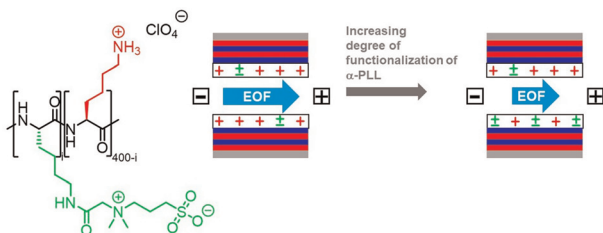
3079



### Preparation of a biomass-derived imine hardener, biobased epoxy thermoset and their coating on cellulose nanofiber film for high-performance and energy-harvesting applications

Bijender Kumar, Muhammad Latif, Samia Adil and Jaehwan Kim\*

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### Adjusting the electroosmotic flow for CE separation of proteins by using poly( $\alpha$ -L-lysine)-based mixed polycationic/polyzwitterionic multilayer coatings

Henry Frick, Laura Dhellemmes, Alisa Höchsmann, Laurent Leclercq, Christian Neusüß, Hervé Cottet and Norbert Schaschke\*

