

# Polymer Chemistry

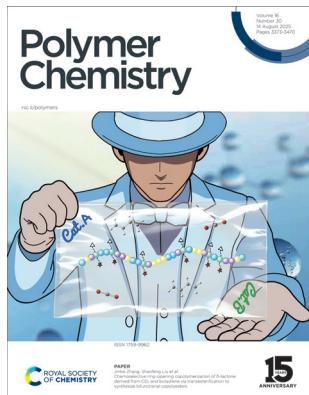
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## IN THIS ISSUE

ISSN 1759-9962 CODEN PCOHC2 16(30) 3373–3470 (2025)



### Cover

See Jinbo Zhang,  
Shaofeng Liu *et al.*,  
pp. 3423–3431.

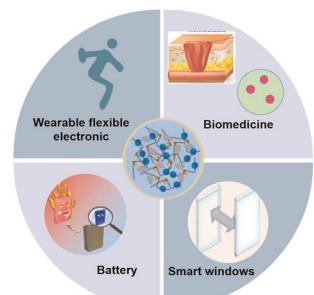
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from *Polym. Chem.*, 2025,  
**16**, 3423.

## REVIEWS

3379

### Thermoresponsive hydrogels incorporating phase-change energy storage materials for advanced thermal management

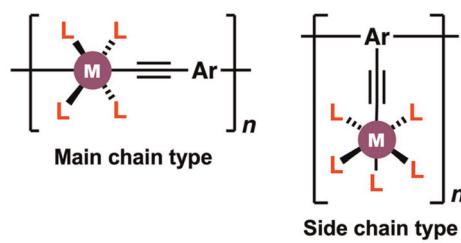
Zhuoni Jiang, Jian Tang, Chaochao Zhang, Yiping Xie\*  
and Jinxing Chen\*



3396

### Synthesis, structure control and functions of polymers containing conjugated transition metal complex moieties

Fumio Sanda



Polymers containing  
conjugated transition metal complex moieties



# Environmental Science: Atmospheres



GOLD  
OPEN  
ACCESS

## Connecting communities and inspiring new ideas

[rsc.li/submittoEA](http://rsc.li/submittoEA)

Fundamental questions  
Elemental answers



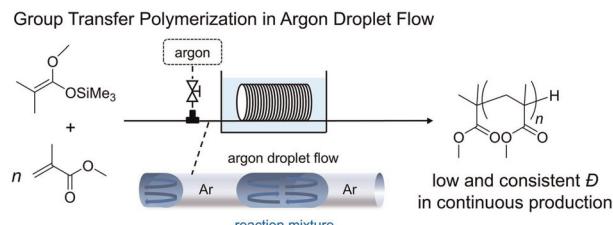
Registered charity number: 207890

## COMMUNICATION

3416

**Group transfer polymerization by argon droplet flow for continuous and consistent production of well-defined polymers**

Ryo Takabayashi, Stephan Feser, Hiroshi Yonehara, Mamoru Hyodo, Ilhyong Ryu and Takahide Fukuyama\*

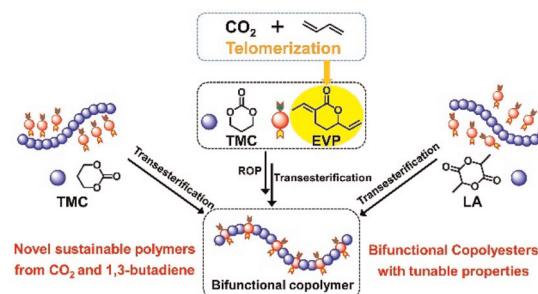


## PAPERS

3423

**Chemosselective ring-opening copolymerization of  $\delta$ -lactone derived from  $\text{CO}_2$  and butadiene via transesterification to synthesize bifunctional copolymers**

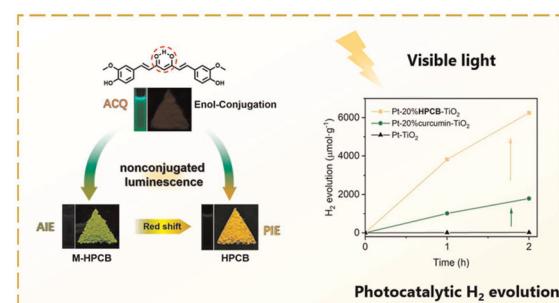
Junhao Shen, Lihang Jiang, Wenhui Kong, Zheng Zhou, Nuo Li, Jinbo Zhang,\* Shaofeng Liu\* and Zhibo Li



3432

**A nonconjugated AIE polymer from enol-conjugated ACQ curcumin through nucleophilic substitution polymerization-induced emission towards enhanced photocatalytic hydrogen evolution**

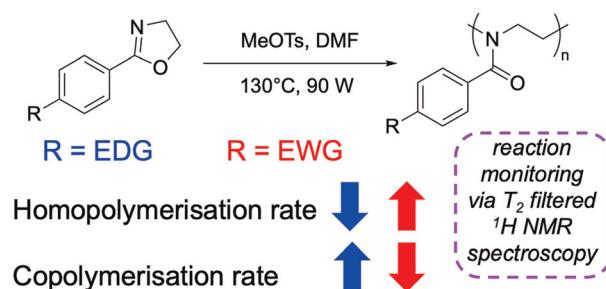
Jing-Yun Mao, Shi-Xuan Ye, Yong Yang, Cheng-Jing Lu, Xiao-Li Sun,\* Hun Xue\* and Wen-Ming Wan\*



3443

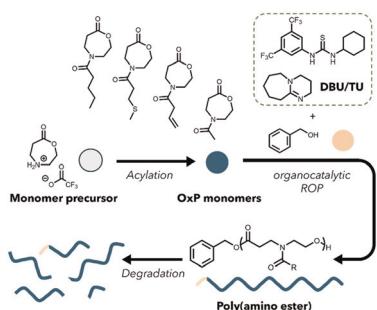
**Influence of para-substitution on the polymerisation kinetics of 2-phenyl-2-oxazolines**

Chloe M. Shilling, Lloyd A. Shaw, Juan A. Aguilar, William D. G. Brittain\* and Clare S. Mahon\*



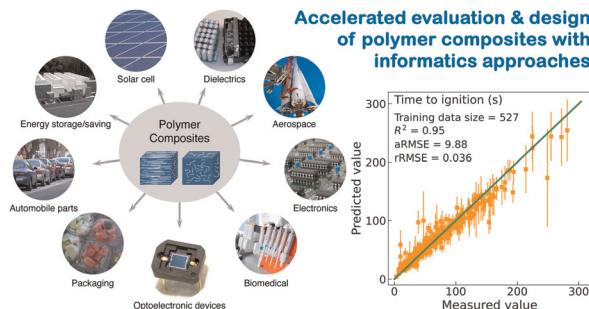
## PAPERS

3450

**1,4-Oxazepan-7-one trifluoroacetate: a modular monomer precursor for the synthesis of functional and biodegradable poly(amino esters)**

Tino Mackiol, Chloé Pascouau, Manuel Nagel, Tamara M. Bizmark, Luca Montesel, Jochen Fischer-Schuch and Pol Besenius\*

3459

**Polymer composites informatics for flammability, thermal, mechanical and electrical property predictions**

Huan Tran,\* Chiho Kim, Rishi Gurnani, Oliver Hvidsten, Justin DeSimpliciis, Rampi Ramprasad, Karim Gadelrab, Charles Tuffle, Nicola Molinari, Daniil Kitchaev and Mordechai Kornbluth

