

# Polymer Chemistry

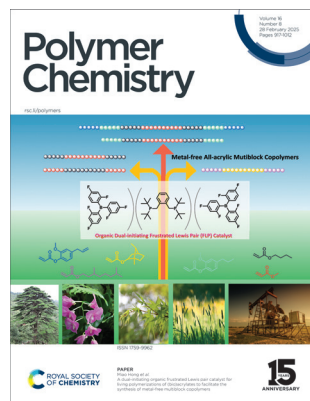
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## IN THIS ISSUE

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### Cover

See Miao Hong *et al.*,  
pp. 936–946.

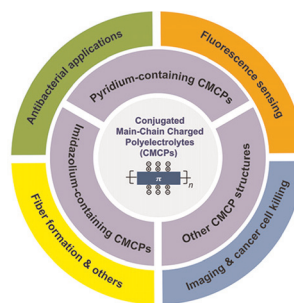
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**16**, 936. Acknowledgment:  
Meadow grass and oil rig  
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## REVIEW

923

### Synthesis and applications of conjugated main-chain charged polyelectrolytes

Hai-Yan Huang, Dongyang Fan,\* Dong Wang,  
Ting Han\* and Ben Zhong Tang\*

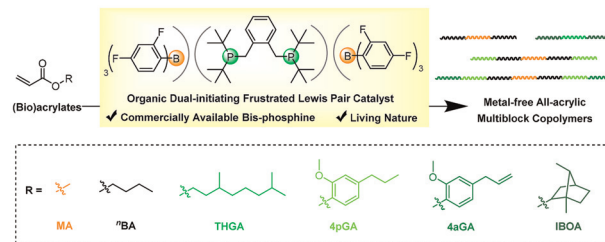


## PAPERS

936

### A dual-initiating organic frustrated Lewis pair catalyst for living polymerizations of (bio)acrylates to facilitate the synthesis of metal-free multiblock copolymers

Zhen-Hua Zhang, Yuyang Chen, Yuesheng Li and  
Miao Hong\*



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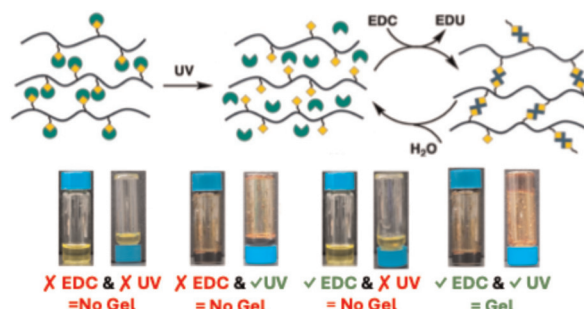
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## PAPERS

947

### Photoresponsive polymers for carbodiimide-fueled transient hydrogels

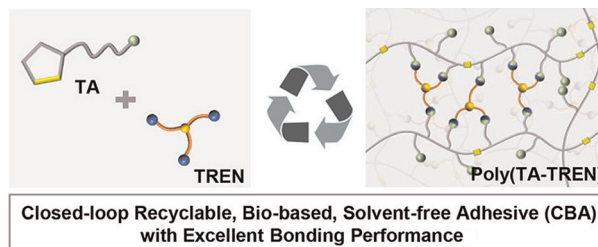
Ibrahim O. Raji, Torin C. Wilcox, C. Scott Hartley and Dominik Konkolewicz\*



954

### An eco-friendly adhesive with ultra-strong adhesive performance

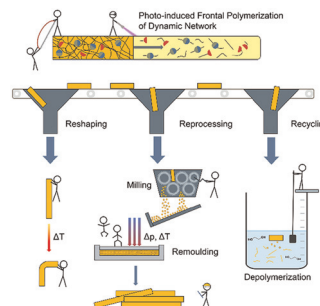
Zhenyu Yang,\* Xiaoting Ji, Xin-long Sha, Jincheng Ding, Lin Cheng and Guangfeng Li\*



963

### Frontal polymerization of thiol–acrylate covalent adaptable networks

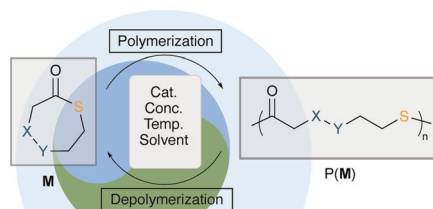
Christoph Schmidleitner, Matthias Udo Kriehuber, Roman Korotkov, Sandra Schlögl\* and Elisabeth Rossegger\*



972

### Chemically recyclable poly(thioether-thioester)s via ring-opening polymerization of seven-membered thiolactones

Long-Hai Liu, Si-Qi Wang, Hua-Zhong Fan, Qing Cao, Zhongzheng Cai\* and Jian-Bo Zhu\*



- >90% Conversion at room temperature
- Improved thermal stability
- High-performance mechanical property

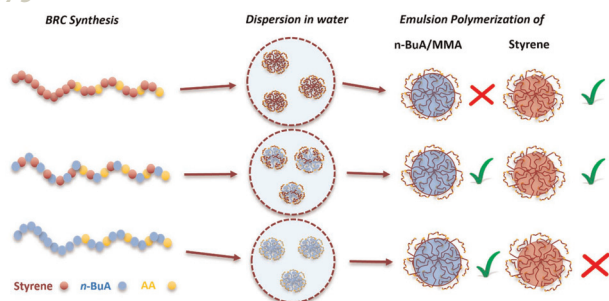
- Heteroatom-position influence
- $T_m$  up to 95 °C
- $\text{Au}^{3+}$  Absorption and recovery





## PAPERS

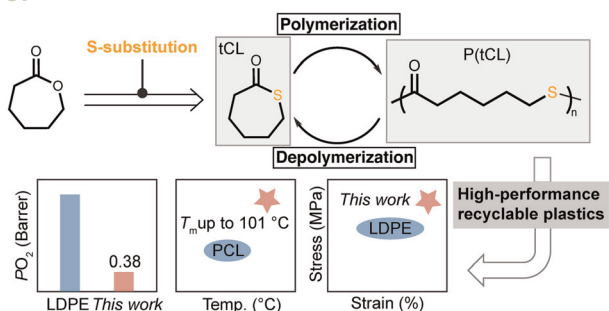
979



### Amphiphilic block-random copolymer stabilisers: extension to other monomer types

Arthur Werner, Connor A. Sanders, Sandra E. Smeltzer, Sean R. George, Andreas Gernandt, Bernd Reck and Michael F. Cunningham\*

987

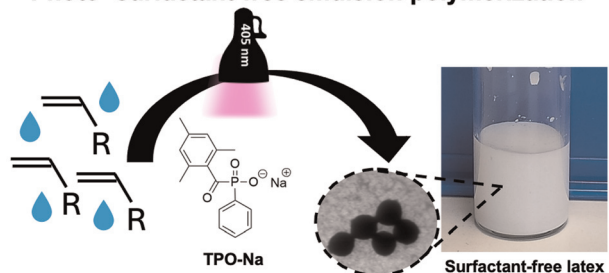


### Implementing a sulfur-substitution approach toward a high-performance recyclable polythioester

Si-Qi Wang, Long-Hai Liu, Kun Li, Wei Xiong, Hua-Zhong Fan, Qing Cao, Zhongzheng Cai\* and Jian-Bo Zhu\*

994

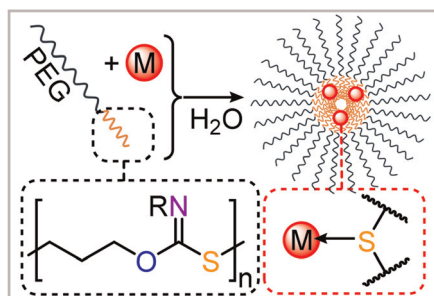
### Photo- surfactant-free emulsion polymerization



### Shedding light on surfactant-free emulsion polymerization

Erika Paola Fonseca Parra, Jean-Luc Six and Khalid Ferji\*

1003



### Sulfur-containing block polymers from ring-opening copolymerization: coordinative encapsulants for transition metals

Jenny Stephan, Merlin R. Stühler, Christoph Fornaçon-Wood, Mathias Dimde, Kai Ludwig, Heinz Sturm, Jorge L. Olmedo-Martínez, Alejandro J. Müller and Alex J. Plajer\*

