

# Polymer Chemistry

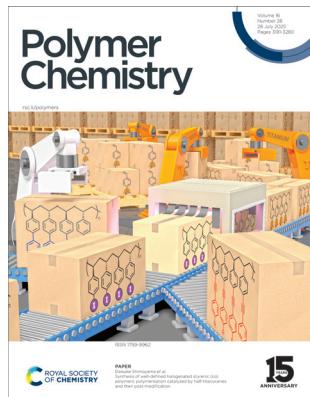
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## IN THIS ISSUE

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### Cover

See Daisuke Shimoyama  
*et al.*, pp. 3216–3227.

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*Polym. Chem.*, 2025, **16**,  
3216.

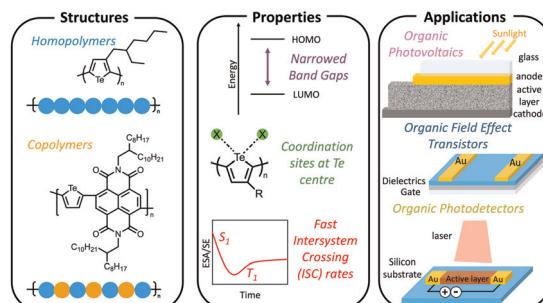
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## REVIEW

3187

### Developments in polytellurophenes and tellurophene-containing polymers: from synthesis to applications

Ailsa K. Edward, Kimia Hosseini, Kristen L. Perry and  
Dwight S. Seferos\*

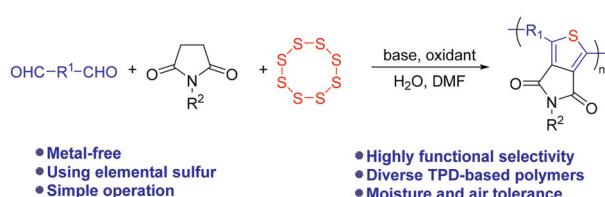


## COMMUNICATION

3211

### Metal-free multicomponent polymerization to access polythiophenes from elemental sulfur, dialdehydes, and imides

Sirui Li, Zihui Jiang, Shuxin Liu, Zeqi Wei, Nan Zheng,  
Yubin Zheng\* and Wangze Song\*



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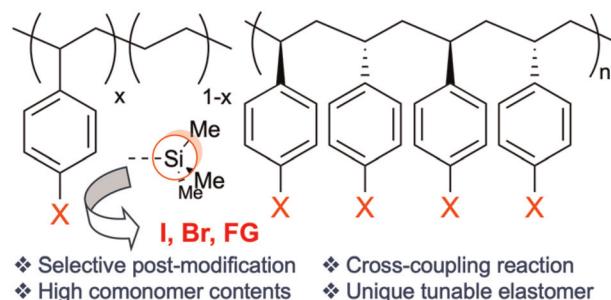


## PAPERS

3216

# Synthesis of well-defined halogenated styrenic (co) polymers: polymerisation catalyzed by half-titanocenes and their post-modification

Youshu Jiang, Seiji Higashi, Hiroshi Hirano,  
Kotohiro Nomura and Daisuke Shimoyama\*



- ❖ Selective post-modification
- ❖ High comonomer contents
- ❖ Cross-coupling reaction
- ❖ Unique tunable elastomer

3228

# Ugi five-component polymerization of CO<sub>2</sub> and 5-hydroxymethylfurfural derivatives toward the synthesis of functional polyfuran

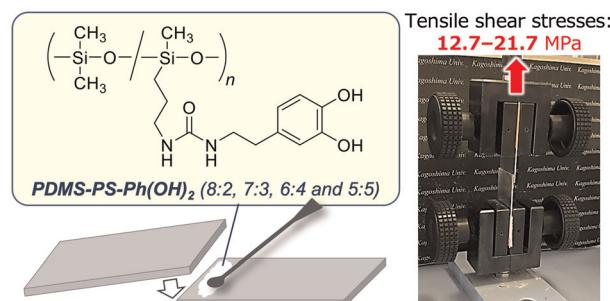
Ziliang Wang, Chang Liu, Li Xu, Baixue Li, Jie Liu, Xue Wang\* and Yusheng Qin\*



3237

## Enhancement of the adhesion of polysiloxane-based adhesives through catechol functionalization

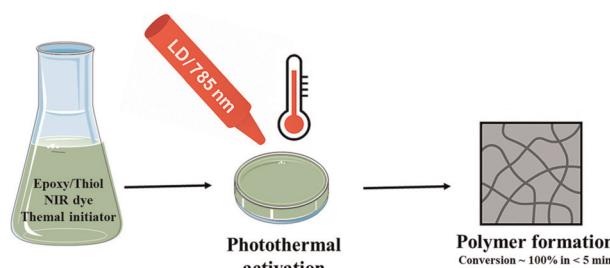
Azumi Fukuyoshi, Shogo Oshiro, Yuya Seino,  
Yosuke Uchida, Takashi Aketa, Toshiyuki Ozai,  
Hideo Nakagawa and Yoshiro Kaneko\*



3244

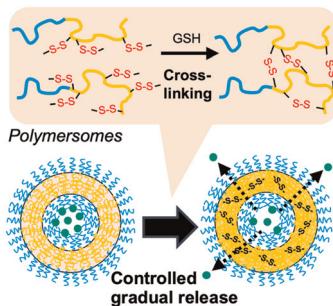
## NIR photothermal activation in epoxy/thiol polymerization

Rania Rejeb, Philibert Lenormand, Didier Gigmes,  
Frédéric Dumur, Michael Schmitt, Julien Pinaud\* and  
Jacques Lalevée\*



## PAPERS

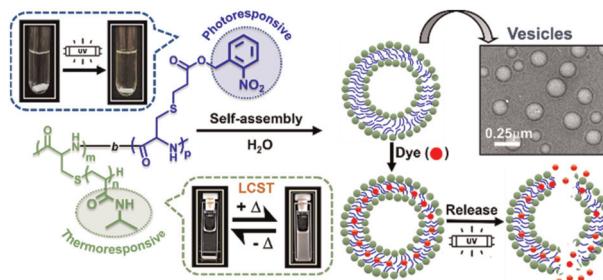
3258



**Creation of polymersomes with changes in the membrane structure *via* disulfide crosslinking under reductive conditions for controlled gradual cargo release**

Tomoya Kojima, Kouichi Asakura and Taisuke Banno\*

3265



**Dual-responsive amphiphilic cysteine block copolypeptide: self-assembled vesicles for dye encapsulation and photo-triggered release**

Joy Das, Priyanka Dinda, Ambuz Basak, Mohammad Anas, Sunetra Karmakar and Tarun K. Mandal\*

