

# Polymer Chemistry

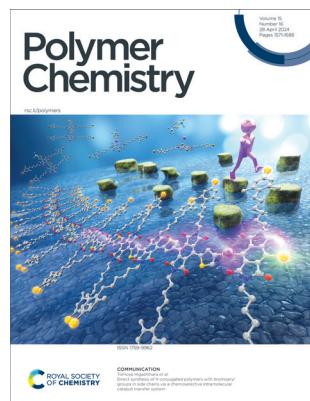
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## IN THIS ISSUE

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### Cover

See Tomoya Higashihara  
*et al.*, pp. 1591–1597.

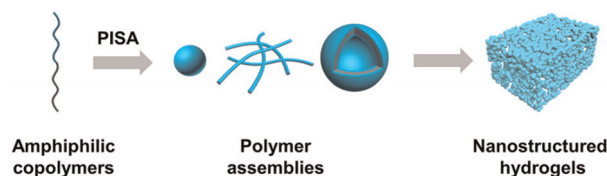
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Higashihara from *Polym.  
Chem.*, 2024, **15**, 1591.

## REVIEW

1577

### Polymerization-induced self-assembly for the construction of nanostructured hydrogels

Zizhuo Zhao and Meng Huo\*

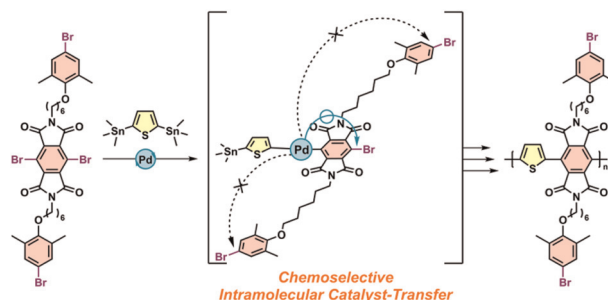


## COMMUNICATION

1591

### Direct synthesis of $\pi$ -conjugated polymers with bromoaryl groups in side chains via a chemoselective intramolecular catalyst transfer system

Kenta Yokawa, Masumi Takamura and  
Tomoya Higashihara\*



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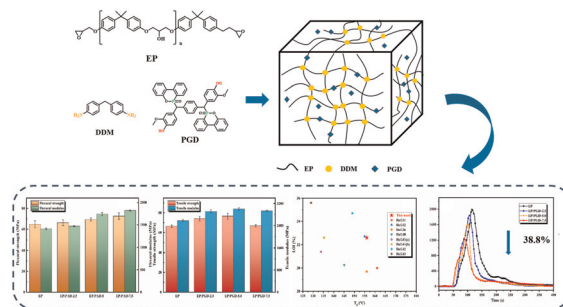
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## PAPERS

1598

## A simple synthesis of a guaiacol based reactive flame retardant and its application in epoxy resins

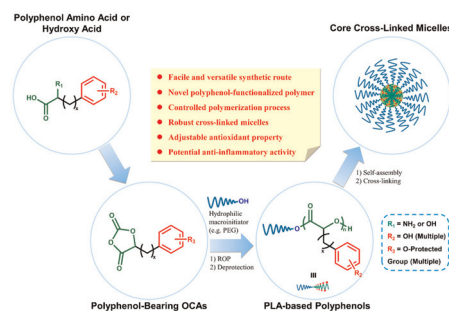
Yuan Gao, Huajun Duan,\* Jin Kang, Juan Zhang, Yuan Chen, Weipeng Liu and Ya Li



1611

Controlled synthesis of polyester-based polyphenols via living ring-opening polymerization of novel *O*-benzyl-L-dopa carboxyanhydrides

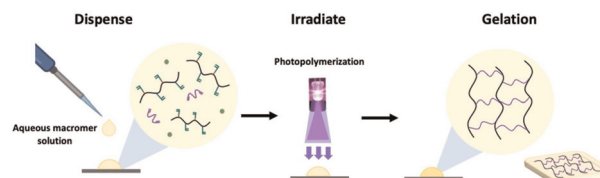
Jingsong Xiao, Jieni Hu, Chuanhao Sun and Yan Zhang\*



1620

Water-soluble macromers based on 2-acrylamido-2-methyl-1-propanesulfonic acid sodium salt (Na-AMPS) for rapid *in situ* hydrogel film formation

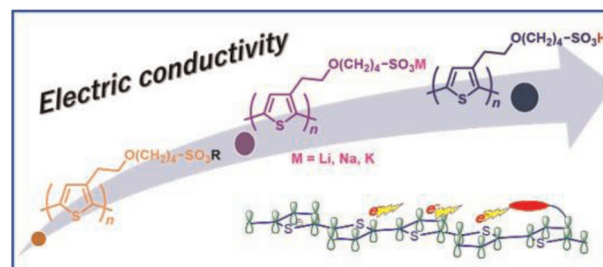
Jinjutha Daengmankhong, Sukunya Ross, Thanyaporn Pinthong, Sararat Mahasaranon, Jarupa Viyoch, Brian J. Tighe, Matthew J. Derry, Paul D. Topham and Gareth Ross\*



1635

## Synthesis and properties of polythiophenes bearing alkylsulfonic acid esters at the side chain

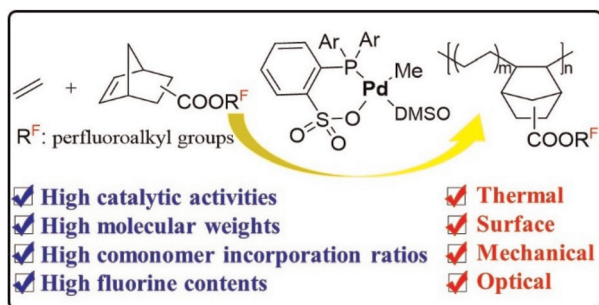
Aika Kuwayama, Sonoka Yamamoto, Yuma Sakagami, Mizuho Yamagishi, Kentaro Okano, Masaki Horie, Masahiro Funahashi and Atsunori Mori\*





## PAPERS

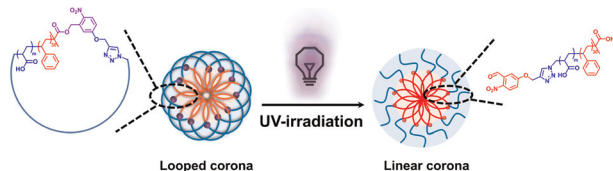
1642



### Synthesis of partially fluorinated polyolefins via copolymerization of ethylene with fluorinated norbornene-based comonomers

Shumin Meng, Daohong Liao, Chao Li\* and Menghe Xu\*

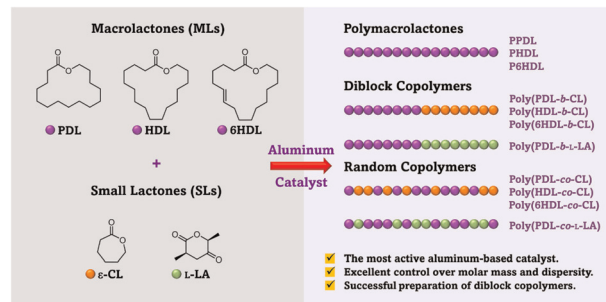
1648



### Loop to linear: exploring the impact of corona topology on the properties of self-assembled polymer nanoparticles

Haoxiang Zeng and Markus Müllner\*

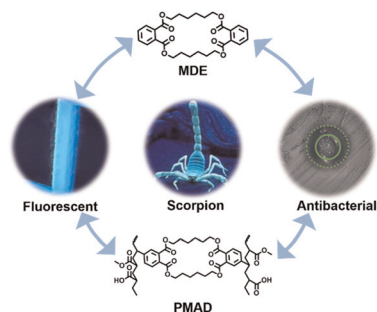
1660



### Controlled ring-opening (co)polymerization of macrolactones: a pursuit for efficient aluminum-based catalysts

Chutikan Nakornkhet, Sirawan Kamavichanurat, Wasan Joopor and Pimpa Hormnirun\*

1680



### Scorpion-inspired fluorescent polymers

Wenjin Wu, Xuhua Yang, Haozhen Zhang, Xiaowen Huang, Wanqi Zhang, Maoling Pan, Yingliang Wu,\* Lidong Zhang\* and Kun Huang\*

