

# Polymer Chemistry

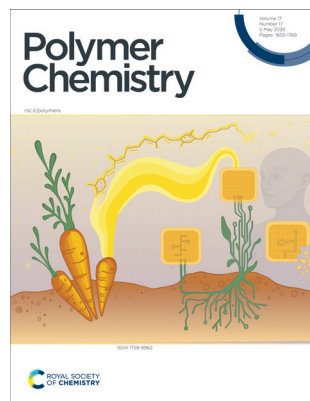
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## IN THIS ISSUE

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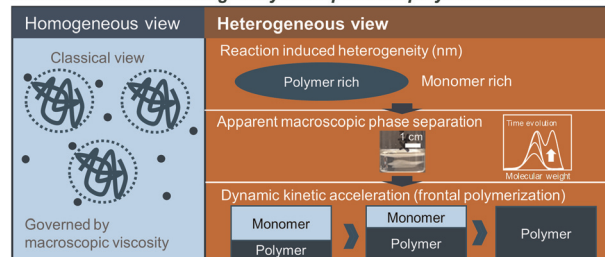
## REVIEW

1661

### Recent progress in bulk polymerization: spatiotemporally discontinuous change of polymerization accompanied by phase separation

Yasuhito Suzuki\* and Akikazu Matsumoto

#### Reaction-induced heterogeneity reshapes bulk polymerization kinetics

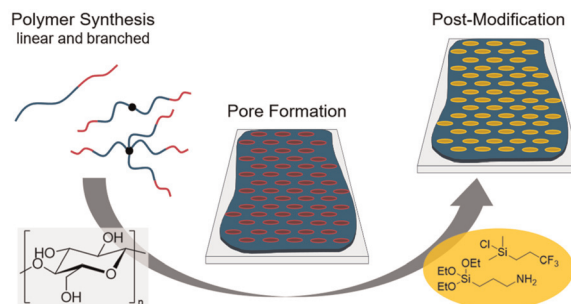


## PAPERS

1675

### Development and modification of porous polymer structures in the vicinity of cellulose fibers

Sebastian Pusse, Sebastian Heinz, Waranya Limprasart, Lea Gemmer, Suteera Witayakran, Samuel Schabel, Volker Presser, Torsten Gutmann\* and Markus Gallei\*



# RSC Applied Polymers

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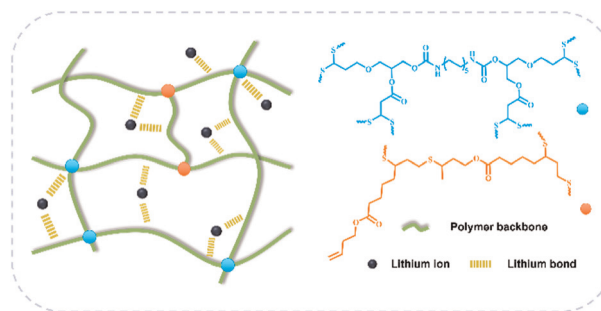
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Fundamental questions  
Elemental answers

1694

### Synthesis and structure–property relationships of lipoic acid-based conductive elastomers

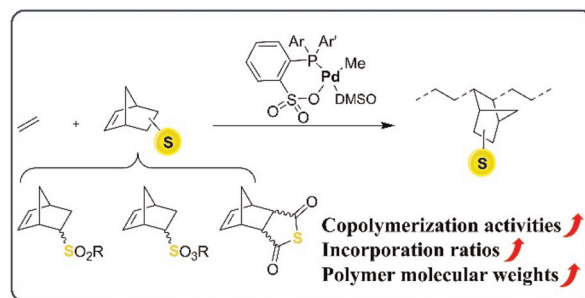
Feng Chen, Fangjun Zhu, Weikun Xu and Yanpei Fei\*



1701

### Palladium-catalyzed copolymerization to synthesize sulfur-containing polyethylene materials

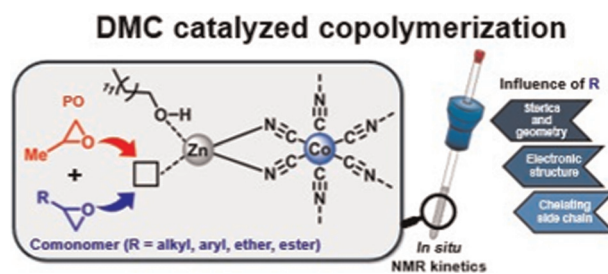
Chuncaai Zhao, Yuming Xu, Guifu Si,\* Dan Peng\* and Menghe Xu\*



1706

### Double metal cyanide (DMC) catalysis: detailed *in situ* NMR kinetics studies on the copolymerization of propylene oxide with substituted epoxides

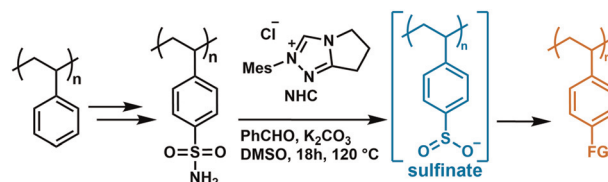
Erik Kersten, Maximilian Kaiser, Jan Blankenburg, Kamil Maciol, Manfred Wagner, Sirus Zarbakhsh and Holger Frey\*



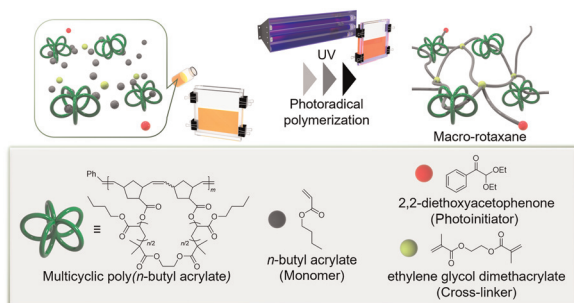
1721

### Organo-catalyzed deamination of polystyrene sulfonamide for diverse post-polymerization modification of styrenic polymers

Tulaja Shrestha, Dan My Nguyen, Harrison Goehrig, Vidhika S. Damani, Caitlin M. Quinn and Laure V. Kayser\*



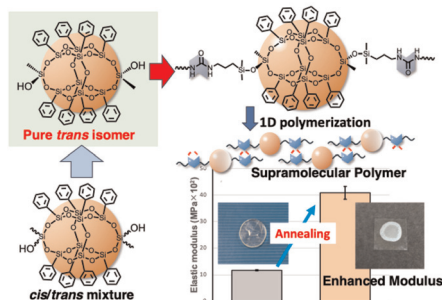
1730



### Synthesis of macro-rotaxanes *via* direct trapping of multicyclic poly(*n*-butyl acrylate) in a cross-linked network

Kotaro Ibe, Yamato Ebii, Minami Ebe, Kazushige Suzuki, Takayuki Kurokawa, Takuya Yamamoto, Feng Li, Takuya Isono\* and Toshifumi Satoh\*

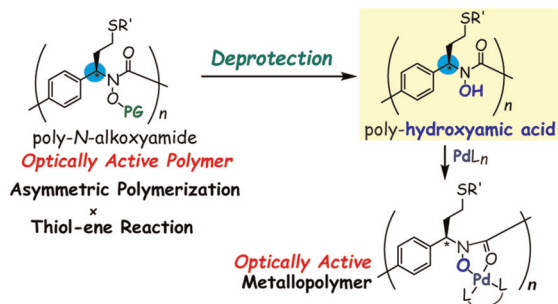
1740



### Stereochemically purified *trans*-dihydroxy-substituted cage silsesquioxane-based bisurea supramolecular polymer materials enable metastable-to-thermodynamic phase evolution and enhanced modulus

Jinshiro Takeuchi, Takahiro Iwamoto, Naoki Watanabe, Hiroaki Imoto and Kensuke Naka\*

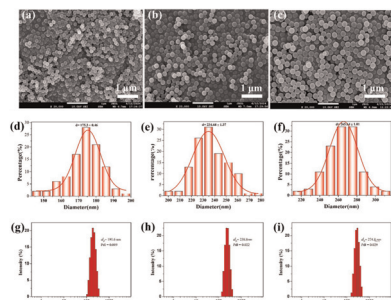
1747



### Synthesis of optically active polymers containing a main-chain hydroxamic acid backbone *via* asymmetric polymerization

Naoya Kanbayashi\* and Kiyotaka Onitsuka\*

1755



### Modulatable structural colors in rapid-curing high-performance hydrogels

Qiang Zhang, Xiao Yang and Zhaoyang Wu\*

