

Polymer Chemistry

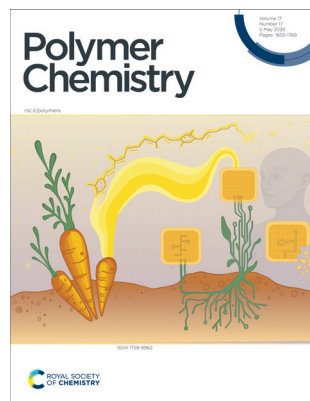
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IN THIS ISSUE

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Cover

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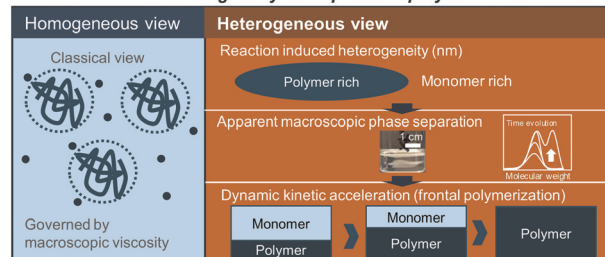
REVIEW

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

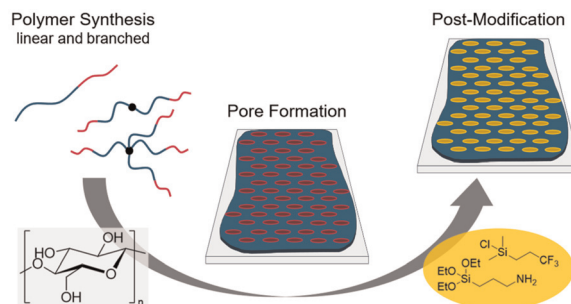


PAPERS

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*



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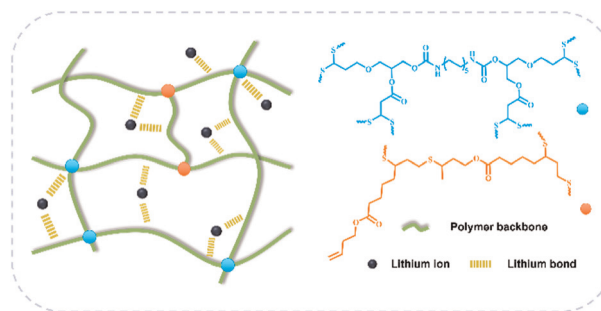
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Fundamental questions
Elemental answers

1694

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

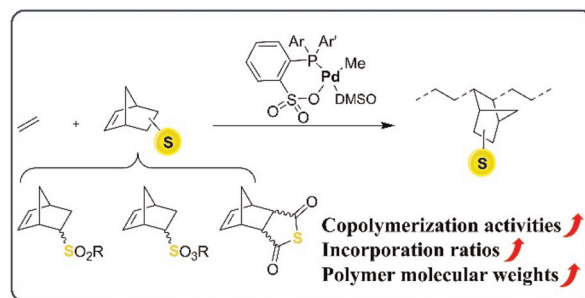
Feng Chen, Fangjun Zhu, Weikun Xu and Yanpei Fei*



1701

Palladium-catalyzed copolymerization to synthesize sulfur-containing polyethylene materials

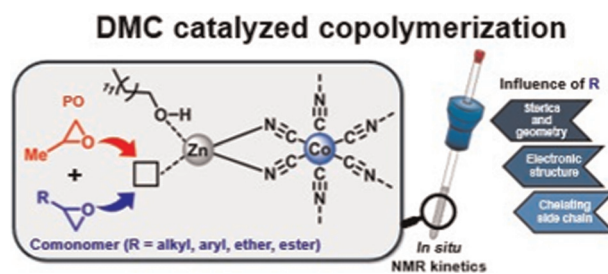
Chuncaai Zhao, Yuming Xu, Guifu Si,* Dan Peng* and Menghe Xu*



1706

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

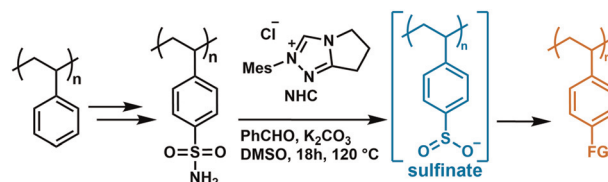
Erik Kersten, Maximilian Kaiser, Jan Blankenburg, Kamil Maciol, Manfred Wagner, Sirus Zarbakhsh and Holger Frey*



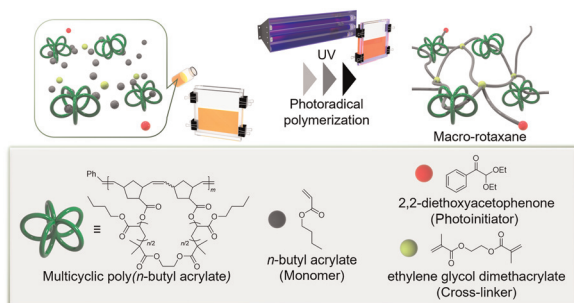
1721

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*



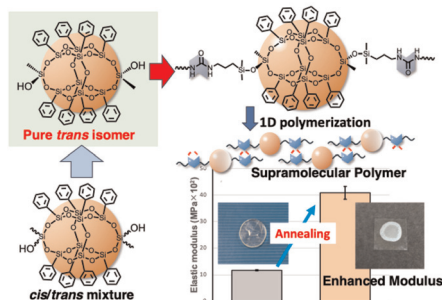
1730



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*

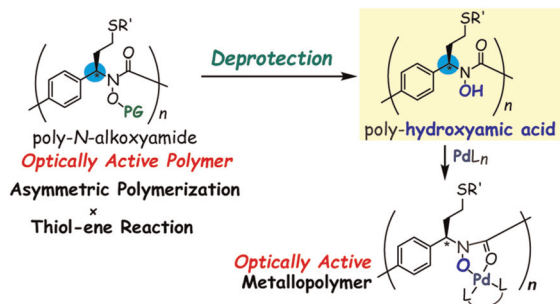
1740



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*

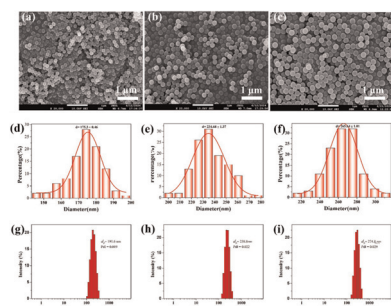
1747



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*

