# **Polymer Chemistry**

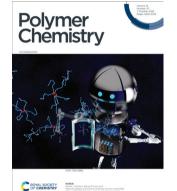
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#### Cover

See Daniel J. Eyckens, Ranya Simons et al., pp. 4282-4293.

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## **EDITORIAL**

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# Introduction to Chalcogen-containing polymers

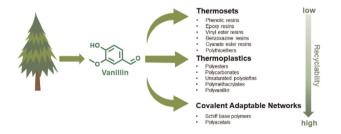
Justin M. Chalker,\* Rongrong Hu\* and Jeffrey Pyun\*



# **REVIEW**

# From vanillin to biobased aromatic polymers

Hongru Qiang, Jiewen Wang, Hengxu Liu and Yunging Zhu\*



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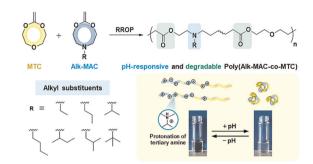


# COMMUNICATION

#### 4275

Amine-bearing cyclic ketene acetals for pH-responsive and degradable polyesters through radical ring-opening polymerisation

Yivi Deng, Anaïs Frezel, Fabian Mehner, Peter Friedel and Jens Gaitzsch\*



# **PAPERS**

#### 4282

High-throughput concurrent synthesis of core-crosslinked star-polydimethylsiloxane using an arm-first approach

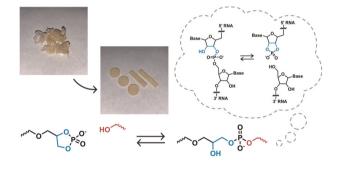
Daniel J. Eyckens,\* Shaun Howard, Graeme Moad, Benjamin W. Muir, Almar Postma and Ranya Simons\*



#### 4294

RNA-inspired phosphate diester dynamic covalent networks

Roy Wink, Soumabrata Majumdar, Rolf A. T. M. van Benthem, Johan P. A. Heuts\* and Rint P. Sijbesma\*



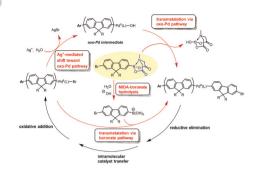
#### 4303

Cascade synthesis of architecture-transformable thermo-labile multisite multiblock copolymers

Lu Lian, Jiaman Hu, Yong Lin and Youliang Zhao\*

# **PAPERS**

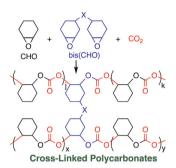
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# Suzuki-Miyaura catalyst-transfer polymerization: new mechanistic insights

Mitchell T. Howell, Peter Kei, Maksim V. Anokhin, Yaroslav Losovyj, Frank R. Fronczek and Evqueni E. Nesterov\*

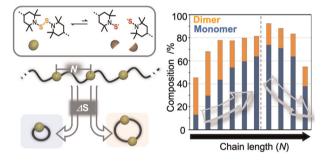
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# Catalytic synthesis and physical properties of CO<sub>2</sub>-based cross-linked poly(cyclohexene carbonate)s

Chihiro Maeda,\* Kenta Kawabata, Kaito Niki, Yuma Sako, Takumi Okihara\* and Tadashi Ema\*

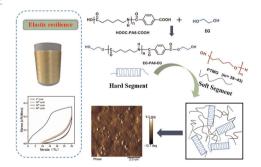
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# Ring-chain equilibria of dynamic macrocycles with a bis(hindered amino)disulfide linker

Rikito Takashima, Daisuke Aoki,\* Shigeki Kuwata and Hideyuki Otsuka\*

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Flexible preparation of PA6-based thermoplastic elastomer filaments with enhanced elasticity, melt spinnability and transparency enabled by high-molecular-weight soft segments

YaLi Liu, Run Zhao, Yuan Liu, Xueli Wang, Dequn Wu, Lifang Liu, Jianyong Yu, Faxue Li and Ruchao Yuan\*

# **PAPERS**

# 4362

Synthesis of hypercrosslinked polymers with a spherical shell structure for highly effective cycloaddition of CO<sub>2</sub> under ambient conditions

Shuqing Li, Zhen Zhan, Xiaoyan Wang\* and Bien Tan\*

