

# Polymer Chemistry

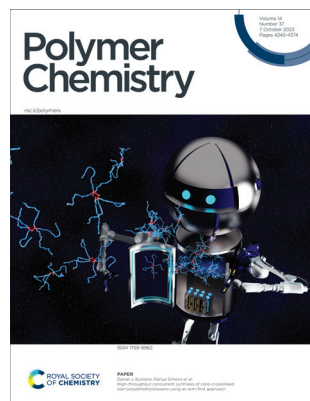
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ISSN 1759-9962 CODEN PCOHC2 14(37) 4245–4374 (2023)



### 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\*

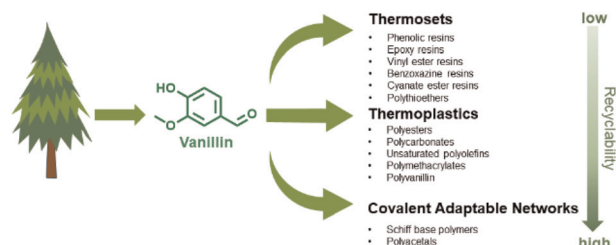


## REVIEW

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### From vanillin to biobased aromatic polymers

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



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Polymer Chemistry (electronic: ISSN 1759-9962)

is published 48 times a year by the Royal Society of Chemistry,  
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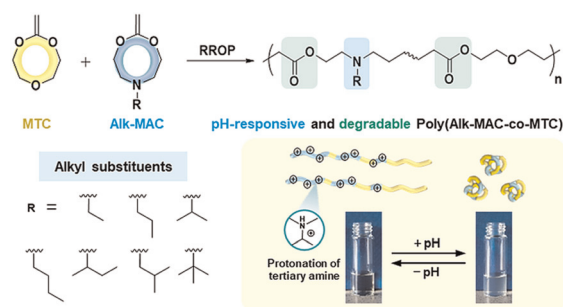


## COMMUNICATION

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

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

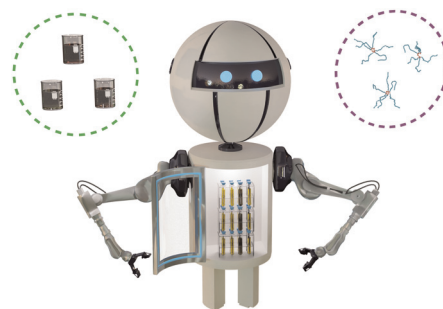


## PAPERS

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

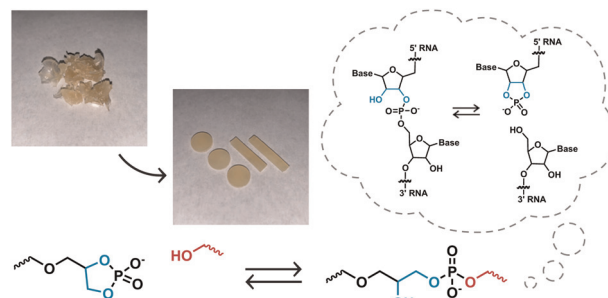
Daniel J. Eyckens,\* Shaun Howard, Graeme Moad, Benjamin W. Muir, Almar Postma and Ranya Simons\*



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### RNA-inspired phosphate diester dynamic covalent networks

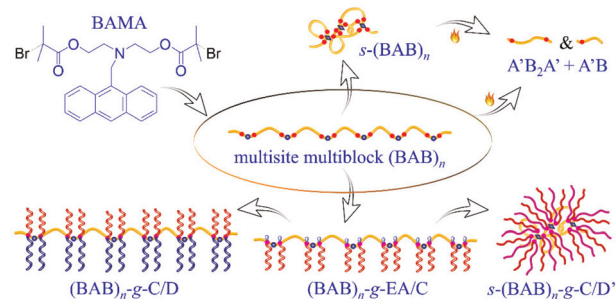
Roy Wink, Soumabrata Majumdar, Rolf A. T. M. van Benthem, Johan P. A. Heuts\* and Rint P. Sijbesma\*



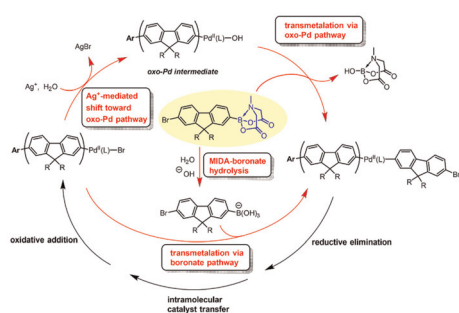
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### Cascade synthesis of architecture-transformable thermo-labile multisite multiblock copolymers

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



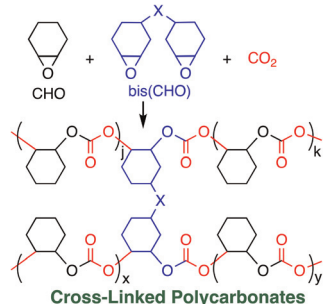
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### Suzuki–Miyaura catalyst-transfer polymerization: new mechanistic insights

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

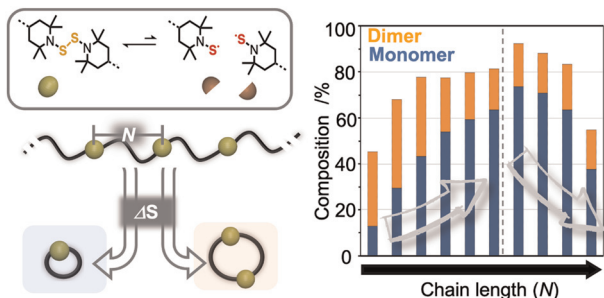
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### Catalytic synthesis and physical properties of $\text{CO}_2$ -based cross-linked poly(cyclohexene carbonate)s

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

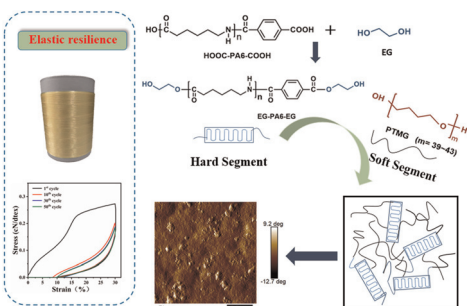
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### Ring-chain equilibria of dynamic macrocycles with a bis(hindered amino)disulfide linker

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\*



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# 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\*

