### **Polymer Chemistry**

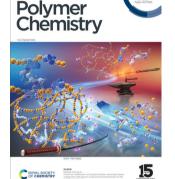
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

#### rsc.li/polymers

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

#### IN THIS ISSUE

ISSN 1759-9962 CODEN PCOHC2 16(13) 1421-1520 (2025)



Cover See Daisuke Aoki et al... pp. 1448-1457.

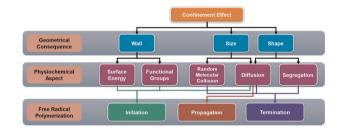
Image reproduced by permission of Daisuke Aoki from Polym. Chem., 2025, **16**, 1448.

#### **PERSPECTIVE**

1427

Nanoconfined polymerization: advantages of lyotropic liquid crystals as soft templates

Seyed Mostafa Tabatabaei and Reza Foudazi\*

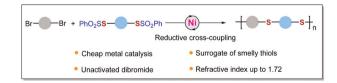


#### COMMUNICATION

#### 1441

Nickel-catalyzed reductive cross-coupling polymerization of dithiosulfonates and dibromides for the synthesis of polythioethers

Xin Yi, Hao Zeng, Chunyu Chen, Ziwei Luo, Ningyu Li, Junyang Cen, Yuening Pan, Ze Li and Pinglu Zhang\*





# Royal Society of Chemistry approved training courses

Explore your options.

Develop your skills.

Discover learning that suits you.

Courses in the classroom, the lab, or online

Find something for every stage of your professional development. Search our database by:

- subject area
- location
- event type
- skill level

Members get at least 10% off

Visit rsc.li/cpd-training

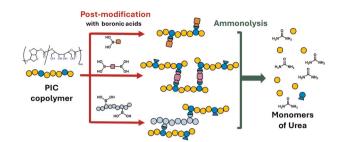


#### **PAPERS**

#### 1448

Chemical modification of poly(isosorbide carbonate)-based copolymers with boronic acids and the ammonolysis of the modified copolymers

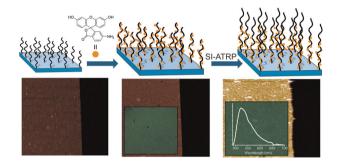
Kazuaki Rikivama, Akari Matsunami, Shunsuke Fujimata, Tatsuo Taniguchi and Daisuke Aoki\*



#### 1458

Fluorescent surface-grafted block copolymer brushes obtained in a versatile post-polymerization approach

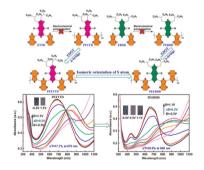
Piotr Wieczorek, Tomasz Kuciel, Tomasz Uchacz\* and Szczepan Zapotoczny\*



#### 1469

Isomeric orientation of the S atom in thiophene of benzodithiophene-4,8-dione to achieve a high-performance electrochromic polymer

Pengjie Chao,\* Qicheng Su, Yuqing Liao, Daize Mo,\* Dongling Shen, Yizhong Shi and Lanqing Li\*



#### 1478

Organocatalyzed photoredox radical cyclopolymerization of methacrylate- and acrylamide-crotonate hybrid monomers

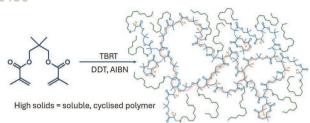
Gaoyuan Yu, Yong-Le Tian, Ke Li and Dian-Feng Chen\*



♦ No crosslinking ◆ High cyclization rate ◆ Tailored structure & topology

#### **PAPERS**

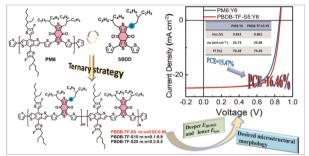
#### 1486



### Geometry-directed cyclisation within the transfer-dominated branching radical telomerisation of dimethacrylates

Corinna Smith, Oliver B. Penrhyn-Lowe, Samuel Mckeating, Stephen Wright, Andrew B. Dwyer and Steve P. Rannard\*

#### 1493



### An alkylthio side chain tuned the PM6 structure and elevated photovoltaic performance of ternary donor polymers

Pengzhi Guo,\* Jinye He, Junhong Liang, Tiantian Wang, Mingruo Li, Jianhong Wei, Wentao Miao, Zezhou Liang, Yuan Zhou, Junfeng Tong, Xunchang Wang, Chenglong Wang and Yangjun Xia\*

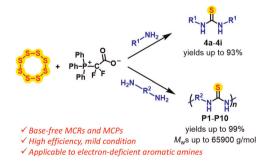
#### 1503



#### A pinch of silver salt to enable *rac*-lactide ringopening polymerisation at room temperature using Ti-salen complexes

Justin Koh, Chloe A. Baker, Marianna N. Diamantakis, Nicholas J. Long\* and Charles Romain\*

#### 1509



## The base-free multicomponent polymerization of elemental sulfur, difluoromethylene phosphobetaine and amines toward electron-deficient aromatic polythioureas

Yongjiang Yu, Wang Chen, Rongrong Hu\* and Ben Zhong Tang