

# Polymer Chemistry

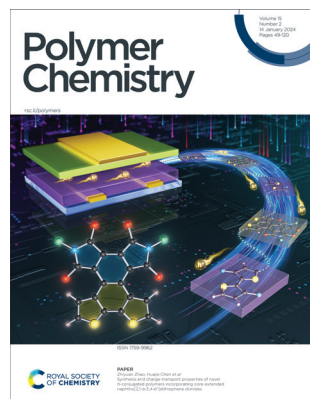
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

[rsc.li/polymers](https://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 15(2) 49–120 (2024)



### Cover

See Zhiyuan Zhao,  
Huajie Chen *et al.*, pp. 59–70.

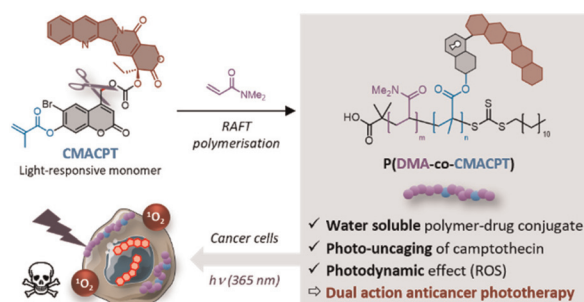
Image reproduced by  
permission of Huajie Chen  
from *Polym. Chem.*, 2024,  
15, 59.

## COMMUNICATION

54

### A dual action coumarin-camptothecin polymer for light responsive drug release and photodynamic therapy

Paige A. Shaw, Maxime Klausen\* and Mark Bradley\*

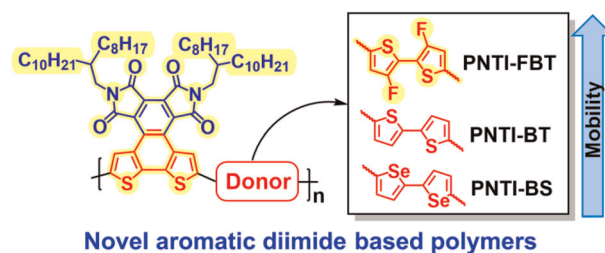


## PAPERS

59

### Synthesis and charge-transport properties of novel $\pi$ -conjugated polymers incorporating core-extended naphtho[2,1-*b*:3,4-*b'*]dithiophene diimides

Lingli Zhao, Yanyan Cao, Hanwen Qin, Xi He,  
Zhiyuan Zhao,\* Yunlong Guo and Huajie Chen\*



GOLD  
OPEN  
ACCESS

# RSC Applied Polymers

**The application of polymers,  
both natural and synthetic**

**Interdisciplinary and open access**

[rsc.li/RSCApplPolym](https://rsc.li/RSCApplPolym)

**Fundamental questions  
Elemental answers**

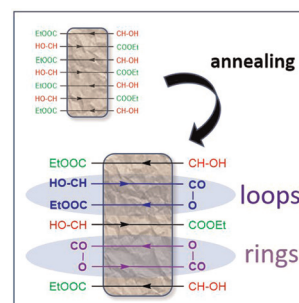


## PAPERS

71

## Polycondensations and cyclization of poly(L-lactide) ethyl esters in the solid state

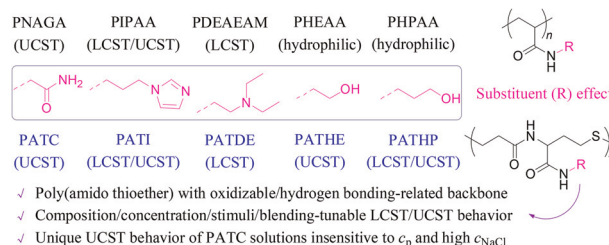
Steffen M. Weidner, Andreas Meyer, Jana Falkenhagen and Hans R. Kricheldorf\*



83

## Multi-tunable thermoresponsive behaviors of poly(amido thioether)s

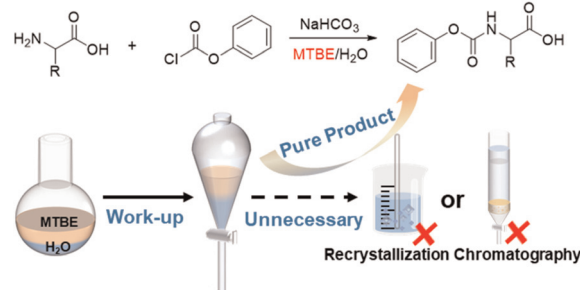
Lu Lian, Qingqing Wang, Fujin Duan and Youliang Zhao\*



97

Facile synthesis of *N*-phenoxy carbonyl amino acids by a two-phase reaction for direct polymerization

Donghui Zhang,\* Shiqi Liu, Zhihao Cai, Weizhe Luo, Guojian Liu and Runhui Liu\*



106

## From RAFT emulsion polymerization to RAFT dispersion polymerization: a facile approach to tuning dispersities and behaviors of self-assembled block copolymers

Junpeng Cao, Yanling Li, Yingxin Tan, Li Zhang and Jianbo Tan\*

