

# Polymer Chemistry

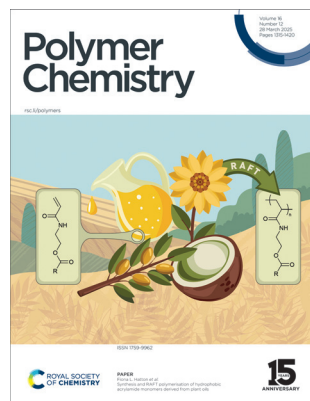
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## IN THIS ISSUE

ISSN 1759-9962 CODEN PCOHC2 16(12) 1315-1420 (2025)



### Cover

See Fiona L. Hatton *et al.*, pp. 1321–1331.

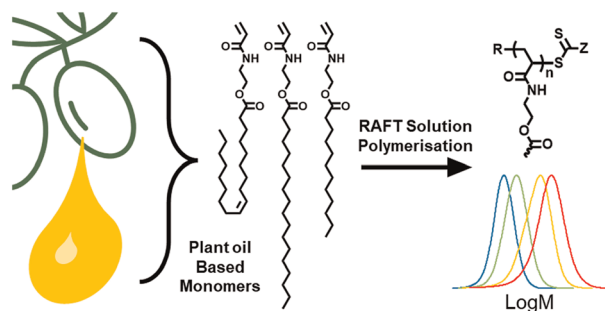
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## PAPERS

1321

### Synthesis and RAFT polymerisation of hydrophobic acrylamide monomers derived from plant oils

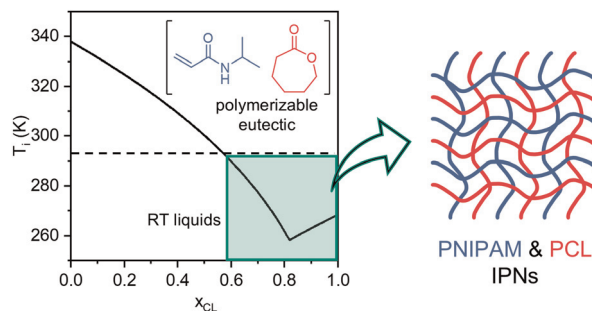
Oliver J. Harris, Peter Tollington, Calum J. Greenhalgh, Ryan R. Larder, Helen Willcock and Fiona L. Hatton\*



1332

### Mixed-mode interpenetrating polymer networks from polymerizable eutectics

Alexandra L. Mutch\* and Stuart C. Thickett\*



# RSC Applied Interfaces

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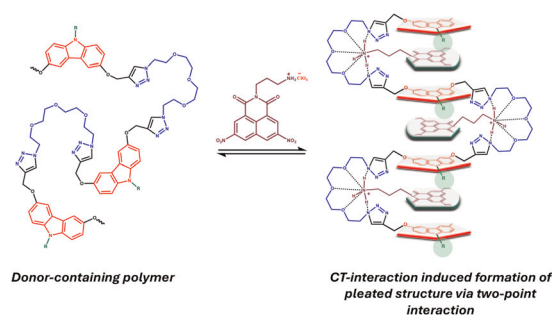
[rsc.li/RSCApplInter](https://rsc.li/RSCApplInter)

Fundamental questions  
Elemental answers

1345

### Chain folding of carbazole-donor containing polymers via a two-point interaction with naphthalene monoimide-based acceptors

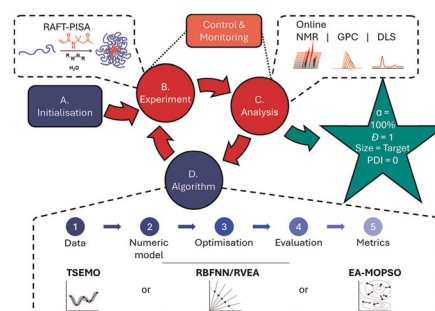
Arun Kumar Gayen and S. Ramakrishnan\*



1355

### Self-driving laboratory platform for many-objective self-optimisation of polymer nanoparticle synthesis with cloud-integrated machine learning and orthogonal online analytics

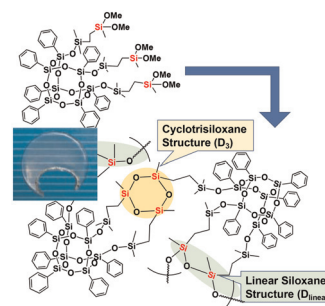
Stephen T. Knox, Kai E. Wu, Nazrul Islam, Roisin O'Connell, Peter M. Pittaway, Kudakwashe E. Chingono, John Oyekan, George Panoutsos, Thomas W. Chamberlain, Richard A. Bourne and Nicholas J. Warren\*



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### Preparation of phenyl-substituted open-cage silsesquioxane-pendant polysiloxanes and their thermal and optical properties

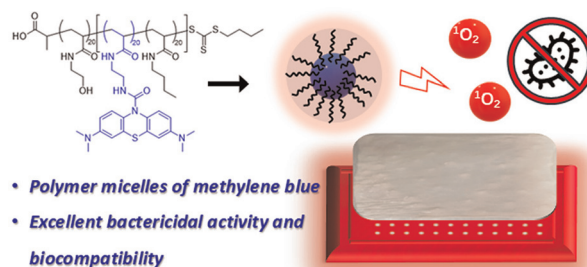
Miku Kosaka, Kenji Kanaori, Hiroaki Imoto and Kensuke Naka\*



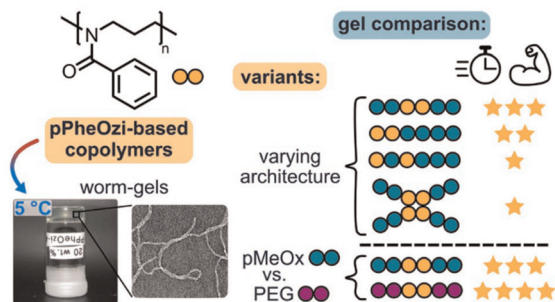
1373

### Photoactive methylene blue-functionalized polymer for antimicrobial activation under red light

Zeyu Shao, Huanli Sun and Edgar H. H. Wong\*



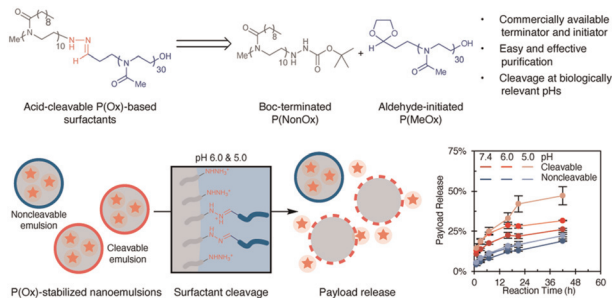
1383



### Triblock architecture and PEG hydrophilic blocks enable efficient thermogelation of poly(2-phenyl-2-oxazine)-based worm-gels

Anna-Lena Ziegler, Andrew Kerr, Florian T. Kaps and Robert Luxenhofer\*

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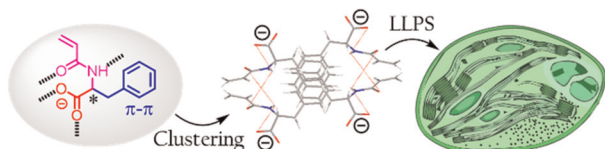


### Acid-cleavable poly(oxazoline) surfactants

Joseph A. Garcia, Linglan Zhu, Ashley Vergara Mendez and Ellen M. Sletten\*

1400

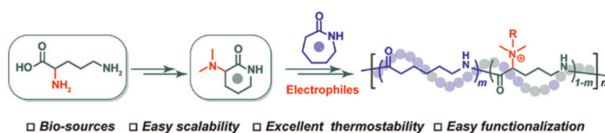
- Nanocrystal Topochemical RAFT Polymerization
- ✓ Phenylalanine Monomer Nanocrystals@Droplet
- ✓ Pathway Dependent Nanocluster Self-Assembly
- ✓ Well-Controlled to >99% Conversions within 1 h



### L-Phenylalanine monomer coacervation leads to well-controlled nanocrystal topochemical photo-RAFT polymerization

Yuting Li, Xiyu Wang, Ying Cao, Wenjing Niu, Qing Zheng, Xinhua Lu and Yuanli Cai\*

1409



### Scalable access to functional nylon 6 via ring-opening copolymerization of biobased delta-valerolactam with epsilon-caprolactam

Yahui Mao, Maosheng Li\* and Youhua Tao\*

