

# Polymer Chemistry

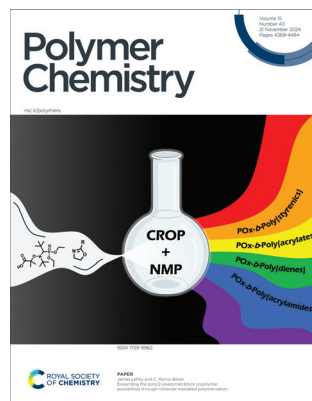
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

[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(43) 4369-4484 (2024)



### Cover

See James Lefley and C. Remzi Becer, pp. 4416-4424.

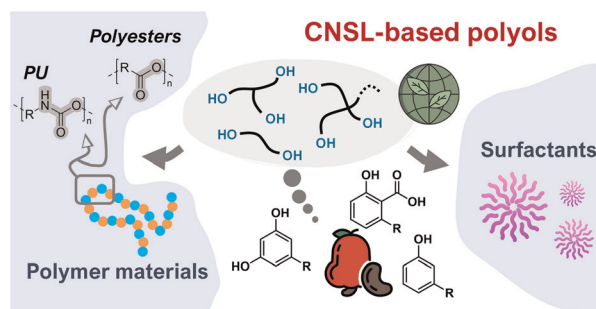
Image reproduced by permission of James Lefley from *Polym. Chem.*, 2024, **15**, 4416.

## REVIEW

4375

### Polyols from cashew nut shell liquid (CNSL): corner-stone building blocks for cutting-edge bio-based additives and polymers

Emilie Rojzman, Maxinne Denis, Camille Sirvent, Vincent Lapinte, Sylvain Caillol\* and Benoit Briou\*

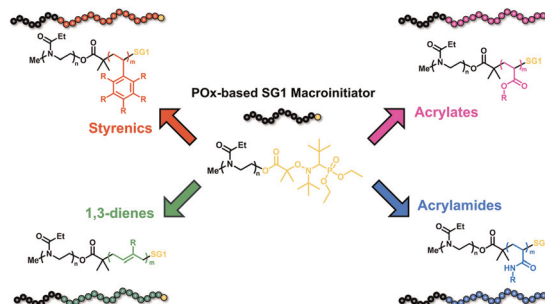


## PAPERS

4416

### Expanding the poly(2-oxazoline) block copolymer possibilities through nitroxide mediated polymerisation

James Lefley and C. Remzi Becer\*



# RSC Applied Polymers

GOLD  
OPEN  
ACCESS

The application of polymers,  
both natural and synthetic

Interdisciplinary and open access

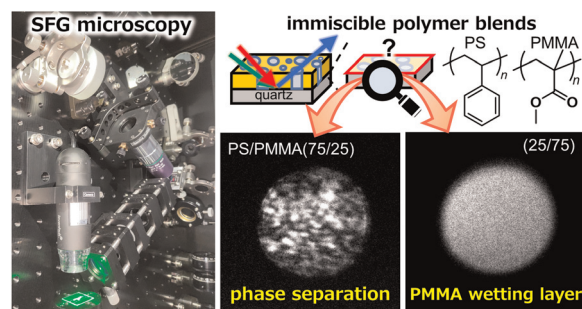
[rsc.li/RSCApplPolym](https://rsc.li/RSCApplPolym)

Fundamental questions  
Elemental answers

4425

### Effect of interfacial local conformation of polymer chains on adhesion strength

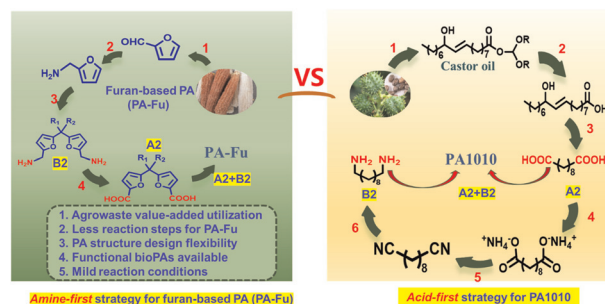
Tatsuki Abe, Satoru Yamamoto and Keiji Tanaka\*



4433

### A novel amine-first strategy suitable for preparing both functional and engineering bio-polyamides: furfurylamine as the sole furan source for bisfuranic diamine/diacid monomers

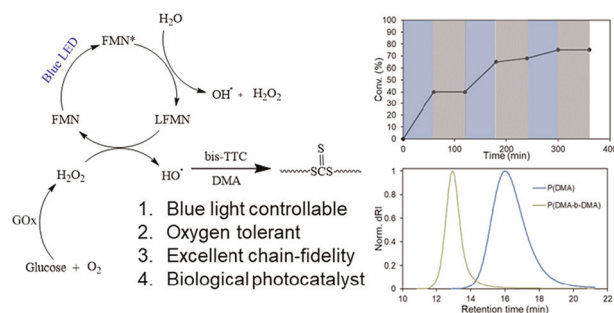
Hong-Hui Shu, Yun Liu, Sheng-Li Han, Xiu-Qin Fang, Chang Wang and Cheng-Mei Liu\*



4447

### Bio-photo-Fenton-like RAFT polymerization under blue light

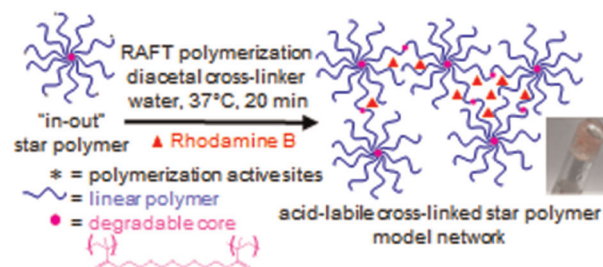
James L. Grace and Greg G. Qiao\*



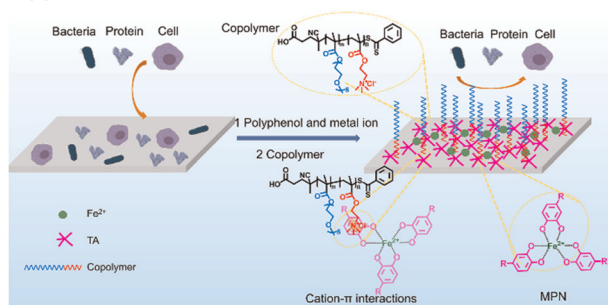
4454

### Acid-labile and non-degradable cross-linked star polymer model networks by aqueous polymerization for *in situ* encapsulation and release

Gavin Irvine, Stuart Herron, Daniel W. Lester and Efrosyni Themistou\*



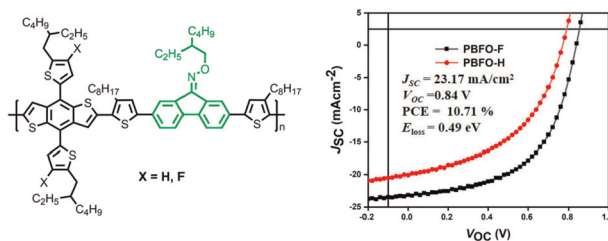
4465



### Rapid formation of antifouling coatings via cation- $\pi$ interactions

Zhicheng Huang, Kaijie Zhao, Shaoyin Wei, Yingxin Hao, Qina Yu, Jingcheng Hao, Jiwei Cui and Peiyu Zhang\*

4474



### Simple oxime functionalized fluorene polymers for organic solar cells

Abdullah Adewale Adeoba, Xiangyu Shen, Fuzhen Bi, Jianan Niu, Mingxin Sun, Shuguang Wen\* and Xichang Bao\*

