

# Polymer Chemistry

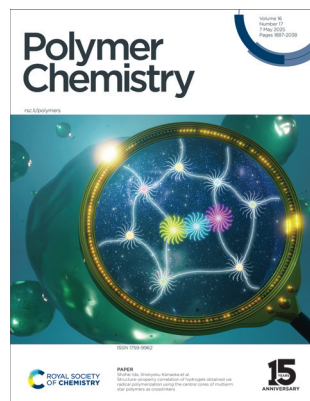
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## IN THIS ISSUE

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### Cover

See Shohei Ida,  
Shokyoku Kanaoka *et al.*,  
pp. 1929–1938.

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from *Polym. Chem.*, 2025,  
**16**, 1929.

## EDITORIAL

1894

### Introduction to polymers for gene delivery

Sébastien Perrier,\* Youqing Shen,\* Zhuxian Zhou,\*  
Todd Emrick\* and Marxa L. Figueiredo\*

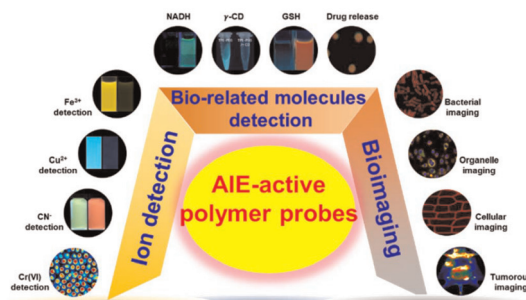


## REVIEW

1897

### AIE polymers for biosensing applications

Yuhang Zeng, Die Huang, Baixue Li,\* Jia Wang\* and  
Rong Hu\*



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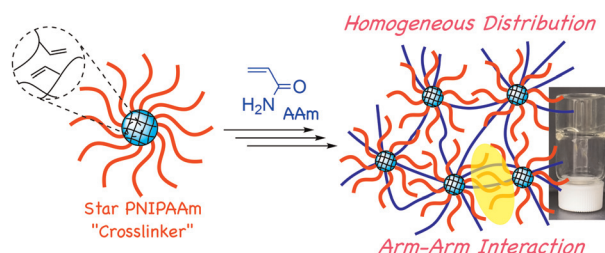


## PAPERS

1929

### Structure–property correlation of hydrogels obtained *via* radical polymerization using the central cores of multiarm star polymers as crosslinkers

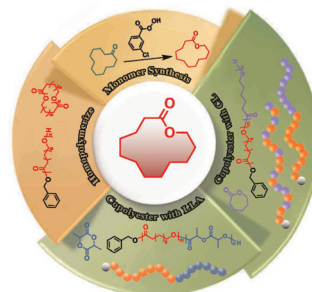
Shohei Ida,\* Souma Suzuki, Shogo Toda, Hiroki Takeshita, Masatoshi Oyama, Keiji Nakajima and Shokyoku Kanaoka\*



1939

### Tunable organo-catalysed ring-opening polymerization of $\omega$ -dodecalactone macrolactone by the cyclic triphosphazene base

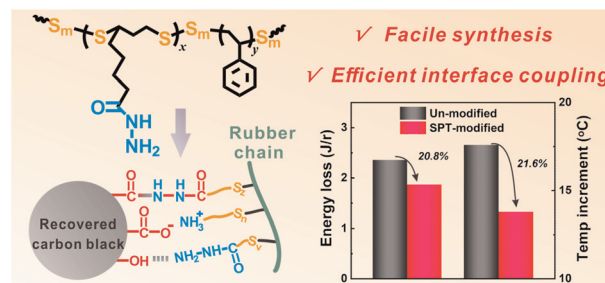
Rui Han, Xiangyu Miao, Dongfang Zhao, Zheng Li and Zhibo Li\*



1949

### Reviving recovered carbon black as a reinforcement for natural rubber by utilizing acylhydrazine-functionalized polysulfide as an intelligent interfacial modifier

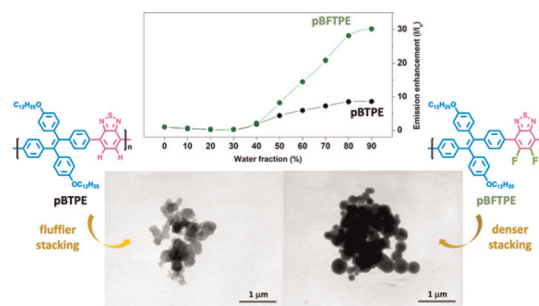
Senmao Yu, Zhenghai Tang,\* Dong Wang, Siwu Wu, Fei Chen, Baochun Guo\* and Liqun Zhang



1961

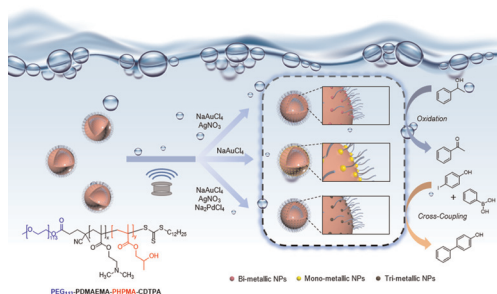
### Effect of fluorine substitution on tetraphenylethene-benzothiadiazole based AIE-active copolymers

Chih-Hsien Chen,\* Yen-Ting Cao, Yi-Ting Ou and Man-Hsin Hsieh



## PAPERS

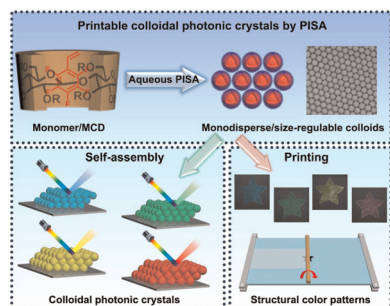
1969



### Polymer–metal nanocomposites with bi- or tri-metallic compositions exhibiting catalytic properties

Nicholas Kai Shiang Teo, Yi Huang and San H. Thang\*

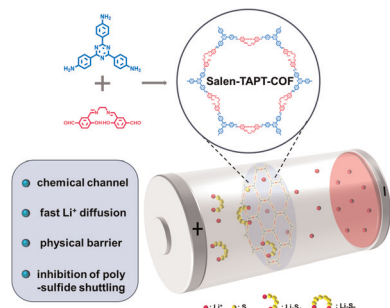
1981



### Monodisperse and size-regulable nanoparticles by polymerization-induced self-assembly for printable colloidal photonic crystals

Nankai An, Xushuai Chen, Xi Chen\* and Jinying Yuan\*

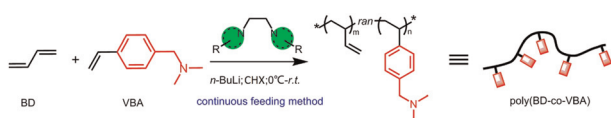
1990



### Two-dimensional salen-based covalent organic frameworks with highly electronegative groups as separators for high stability lithium–sulfur batteries

Xiaoyu Xu, Yingkai Guan, Bo Sun, Wei Xie, Yanhong Xu\* and Ji Qi\*

1997



### Facile synthesis of functionalized high vinyl polybutadiene by using 1,2-dipiperidinoethane derivatives as polar modifiers

Qiqi Dai, Yao Long, Xupeng Han, Yang Yang, Yi Yang, Yawen Fu, Wenjun Yi, Xiaoxing Gu, Kun Liu\* and Lijun Li\*

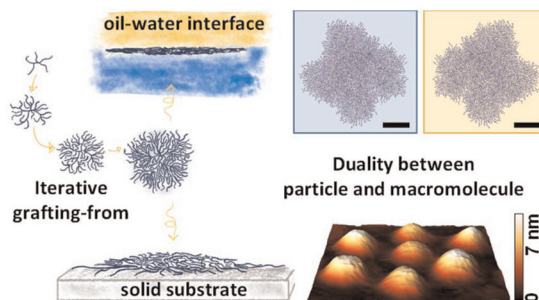


## PAPERS

2007

# Synthesis of water-soluble, highly branched arborescent poly(acrylate)s: a colloid-macromolecule chimera

Jonas Quandt, Rustam A. Gumerov, Timon Kratzenberg, Max Hohenschutz, David Kulczycki, Walter Richtering, Igor I. Potemkin and Cesar Rodriguez-Emmenegger\*



2023

# Advanced pH-responsive copolymers for stabilizing lipid nanoparticles and manipulating their internal nanostructures

Xudong Cai, Nicholas Kai Shiang Teo, Bo Fan, San H. Thang, Calum J. Drummond,\* Nhiem Tran\* and Jiali Zhai\*

