

# Polymer Chemistry

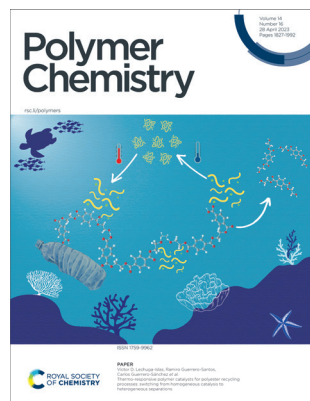
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## IN THIS ISSUE

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### Cover

See Víctor D. Lechuga-Islas, Ramiro Guerrero-Santos, Carlos Guerrero-Sánchez *et al.*, pp. 1893–1904.

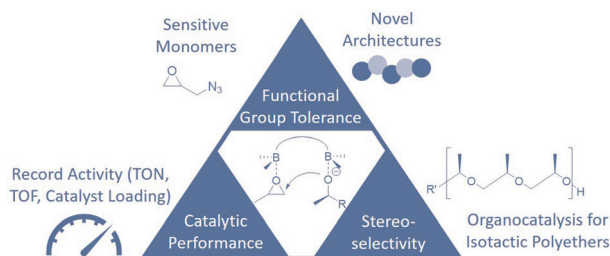
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## REVIEWS

### 1834

#### Borane catalysis for epoxide (co)polymerization

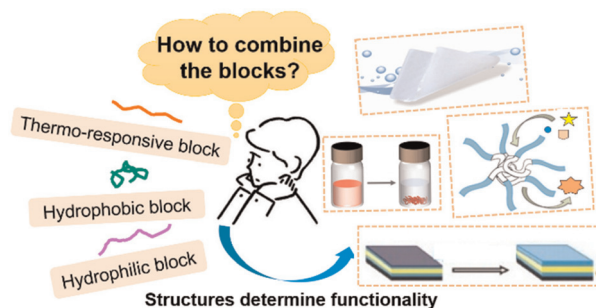
Stefan Naumann



### 1863

#### Thermo-responsive block copolymers: assembly and application

Guangran Shao, Yuan Liu, Rong Cao, Guang Han, Bing Yuan\* and Wangqing Zhang\*



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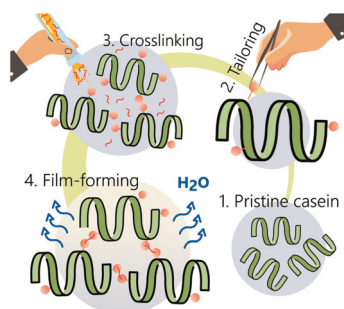


## COMMUNICATIONS

1881

**Functionalization of casein and its use for preparing self-crosslinking protein-based materials**

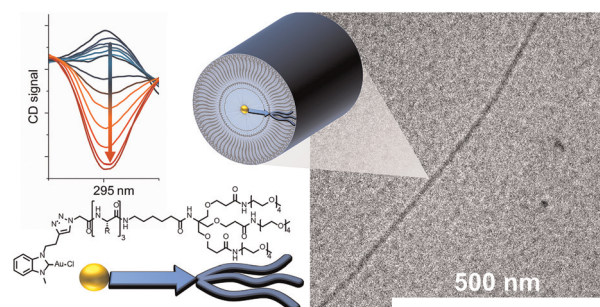
Luisa G. Cenchá, Mariana Allasia, Victoria A. Vaillard, Pablo D. Nieres, Carlos A. Córdoba, Luis M. Gugliotta, Santiago E. Vaillard and Roque J. Minari\*



1888

**Impact of sample history and solvent effects on pathway control in the supramolecular polymerisation of Au(I)-metallopeptide amphiphiles**

Marius Thomas, Vanessa Lewé, Jonas Kölsch, Moritz Urschbach, Jessica Erlenbusch, Oliver Sven Stach and Pol Besenius\*

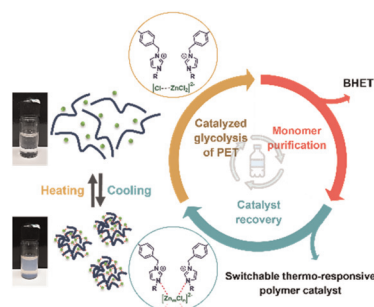


## PAPERS

1893

**Thermo-responsive polymer catalysts for polyester recycling processes: switching from homogeneous catalysis to heterogeneous separations**

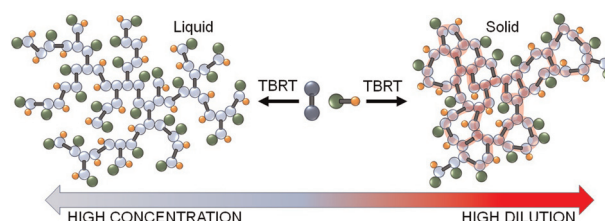
Víctor D. Lechuga-Islas,\* Dulce M. Sánchez-Cerrillo, Steffi Stumpf, Ramiro Guerrero-Santos,\* Ulrich S. Schubert and Carlos Guerrero-Sánchez\*



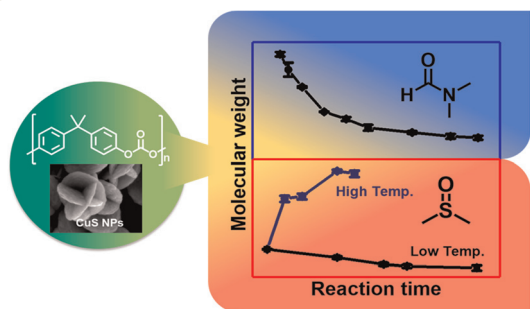
1905

**Utilising the effect of reaction concentration to tune the physical properties of hyperbranched polymers synthesised using transfer-dominated branching radical telomerisation (TBRT)**

Savannah R. Cassin, Stephen Wright, Samuel Mckeating, Oliver B. Penrhyn-Lowe, Sean Flynn, Sarah Lomas, Pierre Chambon and Steve P. Rannard\*



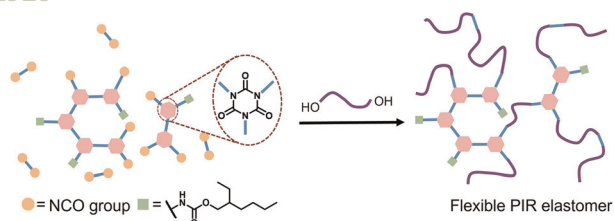
1915



### Solvent-induced competing processes in polycarbonate degradation: depolymerization, chain scission, and branching/crosslinking

Mengqi Sun, Zhen Xu, Nuwayo Eric Munyaneza, Yue Zhang, Carlos Posada and Guoliang Liu\*

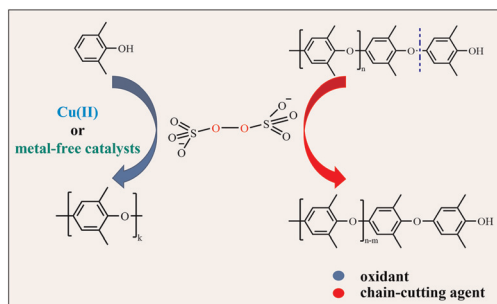
1923



### Synthesis of polyisocyanurate prepolymer and the resulting flexible elastomers with tunable mechanical properties

Yunfei Guo, Julian Kleemann, Stefan Bokern, Andre Kamm, Rint P. Sijbesma\* and Željko Tomović\*

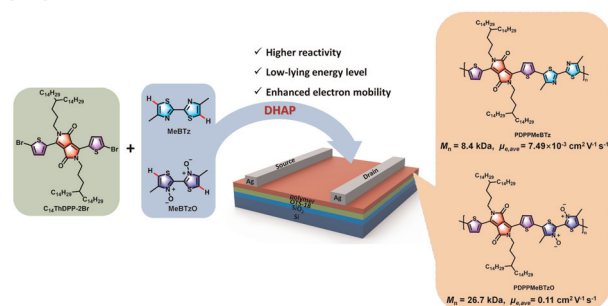
1933



### Chemical and physical properties of low-molecular-weight poly(2,6-dimethyl-1,4-phenylene oxide) (LMW-PPO) synthesized by peroxydisulfate and metal/non-metal catalysts

Yi-Fang Lu, Song-Hai Wu, Cong Wang, Yong Liu, Fu-Gen Huang, Bao-Dong Song\* and Xu Han\*

1945



### An *N*-oxide containing conjugated semiconducting polymer with enhanced electron mobility *via* direct (hetero)arylation polymerization

Xiandong He, Feng Ye, Jia-Cheng Guo, Wenju Chang, Bingxu Ma, Riqing Ding, Sijing Wang, Yong Liang, Dehua Hu,\* Zi-Hao Guo\* and Yuguang Ma

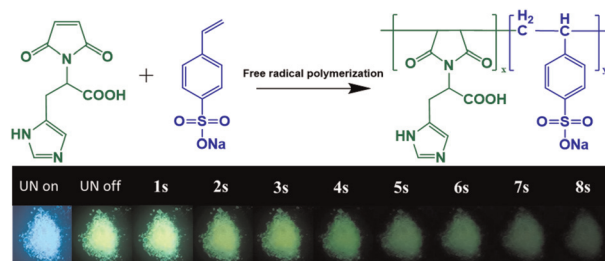


## PAPERS

1954

### Water-soluble polymers with aggregation-induced emission and ultra-long room temperature phosphorescence

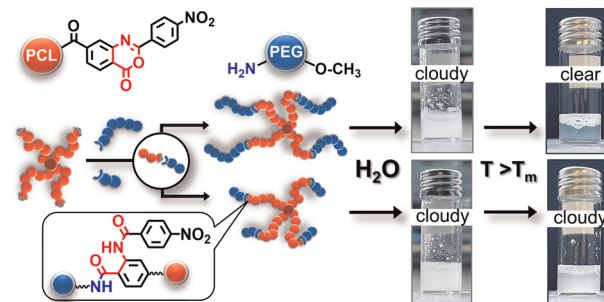
Qinbin Zhang, Chuan Huang, Yichuan Zhang\* and Mingming Guo\*



1965

### Amphiphilic tetra-PCL-*b*-PEG star block copolymers using benzoxazinone-based linking groups

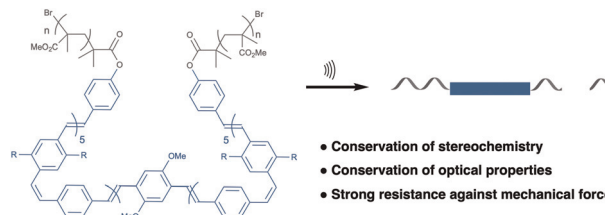
Carolyn Bunk, Hartmut Komber, Michael Lang,\* Nora Fribicz, Martin Geisler, Petr Formanek, Lothar Jakisch, Sebastian Seiffert, Brigitte Voit and Frank Böhme\*



1978

### Mechanical stability of *cis*, *trans*-poly(*p*-phenylene vinylenes)

Yurachat Janpatompong, Kamil Suwada, Michael L. Turner\* and Guillaume De Bo\*



1983

### Ethylene polymerization using heterogeneous multinuclear nickel catalysts supported by a crosslinked alpha diimine ligand network

Keaton M. Turney, Parin Kaewdeewong and James M. Eagan\*

