

Polymer Chemistry

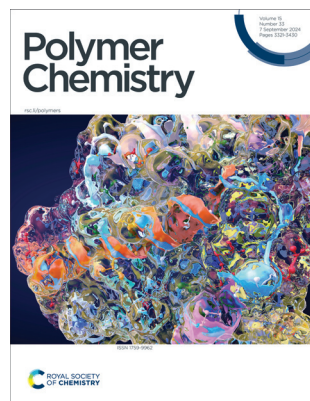
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

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(33) 3321-3430 (2024)



Cover

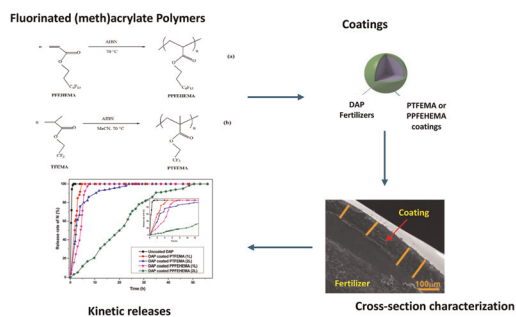
Image credit: © Christoph Burgstedt/SPL/Getty Images

PAPERS

3327

Insights into hydrophobic (meth)acrylate polymers as coating for slow-release fertilizers to reduce nutrient leaching

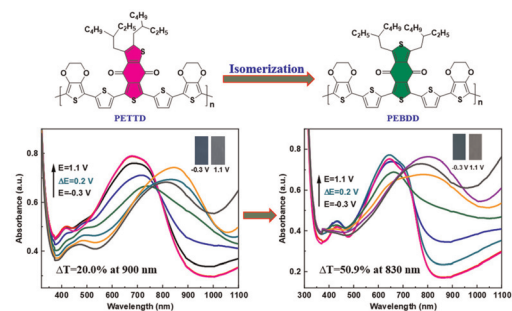
Asma Sofyane, Salima Atlas, Mohammed Lahcini, Elvira Vidović, Bruno Ameduri* and Mustapha Raihane*



3341

An isomerism strategy to optimize electrochromic performance: a small orientation change of S atoms in thiophene makes a big difference

Pengjie Chao,* Qicheng Su, Daize Mo* and Lanqing Li



ChemComm

Uncover new possibilities
with outstanding
preliminary research

Original discoveries, fuelling
every step of scientific progress

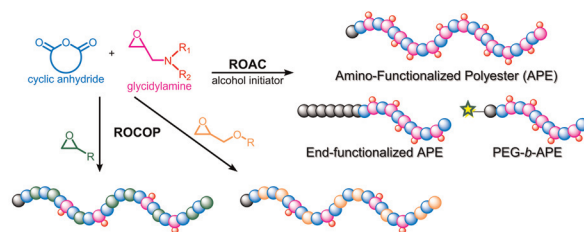
rsc.li/chemcomm

Fundamental questions
Elemental answers

3349

Synthesis of amino-functionalized polyester via ring-opening alternating copolymerization of glycidylamines with cyclic anhydrides

Ryota Suzuki, Tianle Gao, Ayaka Sumi, Takuya Yamamoto, Kenji Tajima, Feng Li, Takuya Isono* and Toshifumi Satoh*

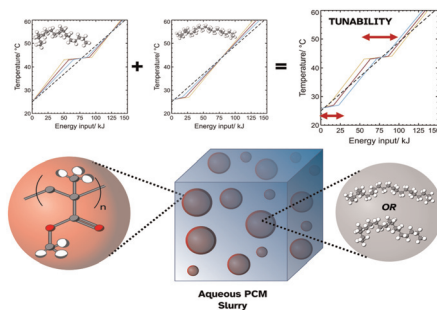


✓ High-density amino-functionalized polyester (APE) ✓ Controlled/living polymerization
 ✓ Block copolymerization ✓ End-functionalization ✓ Wide range of monomer variation

3359

Phase change material nanocapsules for latent function thermal fluids with tuneable thermal energy storage profiles

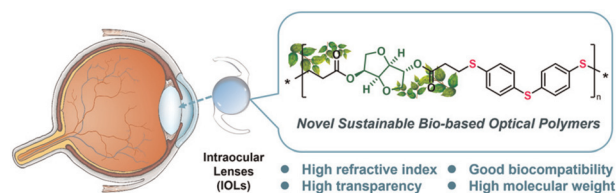
Joshua R. Booth, Joshua D. Davies and Stefan A. F. Bon*



3378

Synthesis of novel sustainable optical poly(isosorbide thioethers) with high refractive indices and good biocompatibility using functional ionic liquid catalysts

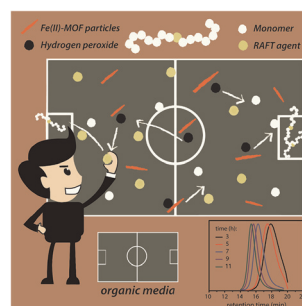
Heng Wang, Weilu Ding, Zhencai Zhang, Yiwen Zhang, Zhao Yang, Mi Feng, Ming Jiang and Fei Xu*



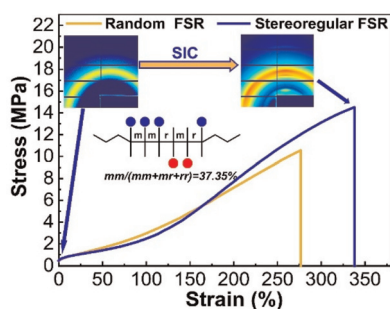
3394

Fenton-RAFT polymerization in organic media

Amin Reyhani, Ross A. L. Wylie, Arunjunai R. S. Santha Kumar, Alicia Rasines Mazo, Omid Mazaheri, Kathryn A. Mumford and Greg G. Qiao*



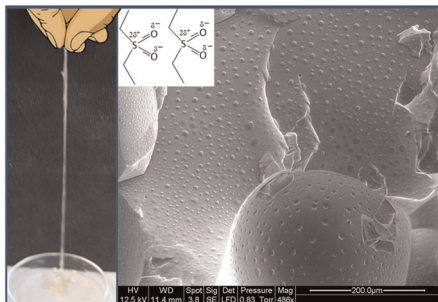
3406



High-strength fluorosilicone rubber with exceptional shape memory performance obtained through stereochemical structure regulation

Ruirui Shi, Wei Zheng, Yifan Wang, Teng Long, Zhe Liu, Yushu Xu, Hua Wang* and Chuanjian Zhou*

3416



Syntheses and supramolecular associations of block and grafted phosphonated- and sulfonated-silicone copolymers

Emmanuel Pouget, Erlea Holgado Garcia, Sergei V. Kostjuk, Irina V. Vasilenko, Claire Longuet, Patrice Lucas, Christine Joly-Duhamel and François Ganachaud*

