

Polymer Chemistry

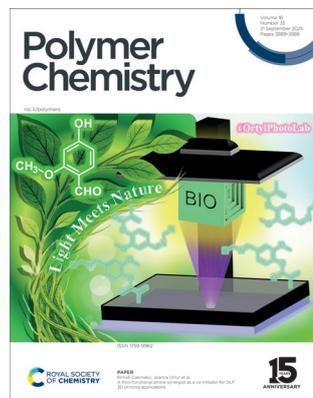
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

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 16(35) 3889–3988 (2025)



Cover

See Emrah Çakmakçı,
Joanna Ortyl *et al.*,
pp. 3895–3915.

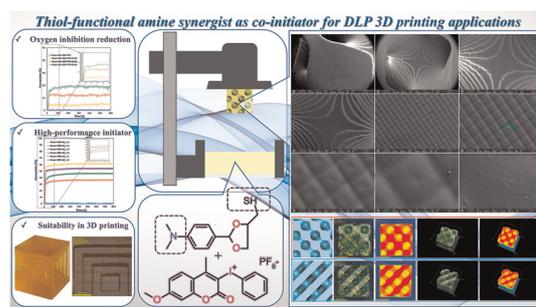
Image reproduced by
permission of Joanna Ortyl
and Magdalena Jankowska
from *Polym. Chem.*, 2025,
16, 3895.

PAPERS

3895

A thiol-functional amine synergist as a co-initiator for DLP 3D printing applications

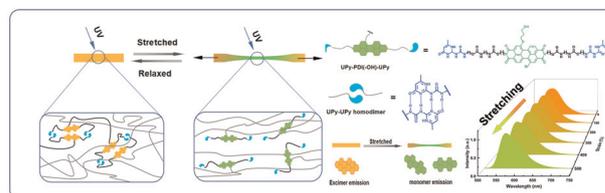
Magdalena Jankowska, Ozge Ozukanar,
Emrah Çakmakçı* and Joanna Ortyl*



3916

Enhanced mechano-responsive luminescence in polyurethanes by supramolecular mechanophores based on synergy between quadruple H-bonding and π - π stacking

Yaxing Tang, Fengmao Liu, Geng Li, Juemin Zhao,
Jiaxing Ma, Haonan Lin, Jie Li* and Hua Wang*



RSC Applied Polymers

GOLD
OPEN
ACCESS

The application of polymers,
both natural and synthetic

Interdisciplinary and open access

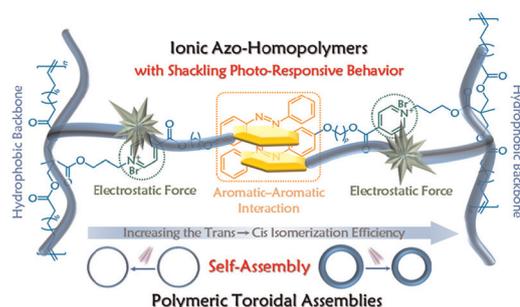
rsc.li/RSCApplPolym

Fundamental questions
Elemental answers

3924

Polymeric toroidal assemblies formed from ionic homopolymers with shackling photo-responsive behavior

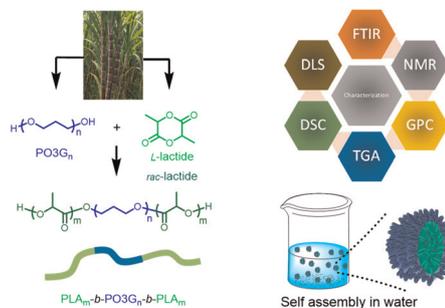
Qingqing Yang, Junjun Lv, Jinye Wang, Wei Song and Liang Ding*



3935

Bio-based poly(1,3-trimethyleneglycol-co-lactide) triblock copolymers: a promising platform for biomedical applications

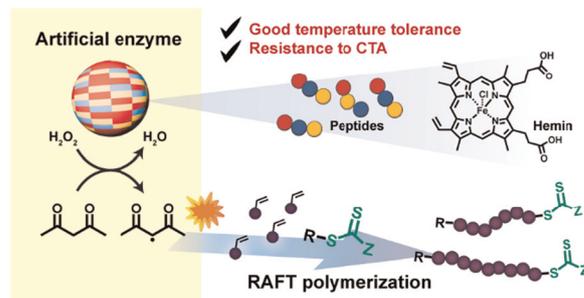
Ernesto Tinajero Díaz, Eduard Carles Zamora and Antxon Martínez de Ilarduya*



3946

A catalytic peptide/hemin complex as an artificial enzyme for RAFT polymerization

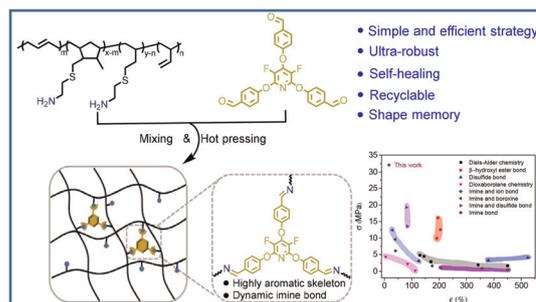
Yao-Yu Jhang and Sheng-Sheng Yu*



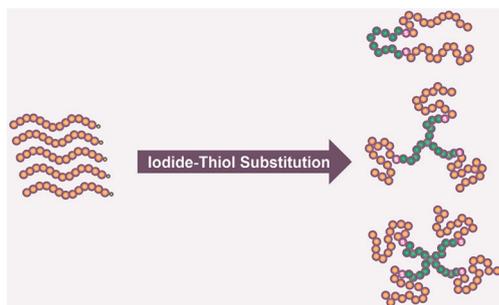
3957

Rigidity-tuned fluoroaromatic imine vitrimers yield ultra-high-strength, self-healing, and recyclable shape memory polybutadiene rubbers

Yi Wu, Yingjia Yu, Guanliang He, Yuze Shi and Xuqing Liu*



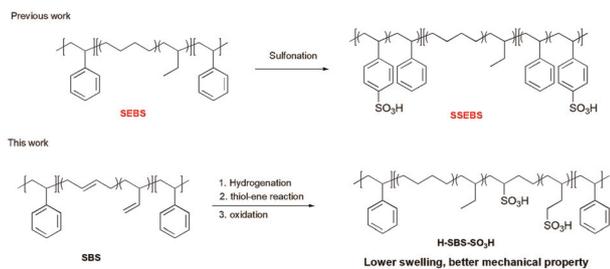
3968



Rapid and versatile polymer–polymer coupling via iodide–thiol substitution click chemistry

Jirui Zhang and Atsushi Goto*

3977



Soft block sulfonated styrene–butadiene–styrene (SBS) triblock copolymer proton exchange membranes

Michael K. Pagels, Ding Tian, Stefan Turan and Chulsung Bae*

