Polymer Chemistry

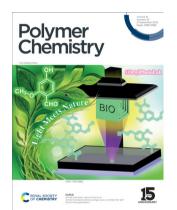
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

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 Çakmakçi, Joanna Ortyl et al., pp. 3895-3915.

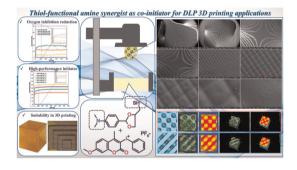
Image reproduced by permission of Joanna Ortyl and Magdalena Jankowska from Polym. Chem., 2025, **16**. 3895.

PAPERS

3895

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

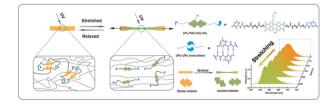
Magdalena Jankowska, Ozge Ozukanar, Emrah Çakmakçi* and Joanna Ortyl*



3916

Enhanced mechano-responsive luminescence in polyurethanes by supramolecular mechanophores based on synergy between quadruple H-bonding and $\pi - \pi$ 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

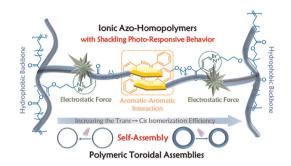
Registered charity number: 207890

PAPERS

3924

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

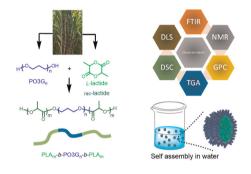
Qingqing Yang, Junjun Lv, Jinye Wang, Wei Song and Liang Ding*



3935

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

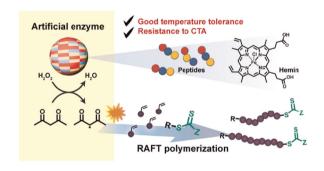
Ernesto Tinajero Díaz, Eduard Carles Zamora and Antxon Martínez de Ilarduya*



3946

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

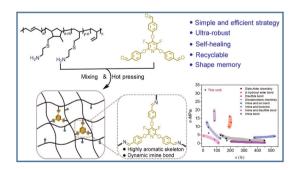
Yao-Yu Jhang and Sheng-Sheng Yu*



3957

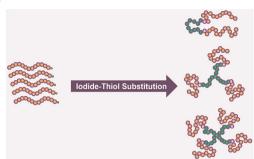
Rigidity-tuned fluoroaromatic imine vitrimers yield ultra-high-strength, self-healing, and recyclable shape memory polybutadiene rubbers

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



PAPERS

3968



Rapid and versatile polymer-polymer coupling *via* iodide-thiol substitution click chemistry

Jirui Zhang and Atsushi Goto*

Previous work SEBS SUlfonation SUlfonation SUlfonation SUlfonation 1. Hydrogenation 2. thiol-ene reaction 3. oxidation SBS Lower swelling, better mechanical property

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

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