

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(11) 1211–1314 (2025)



Cover

See Robert Mundil, Mariusz Uchman *et al.*, pp. 1217–1230.

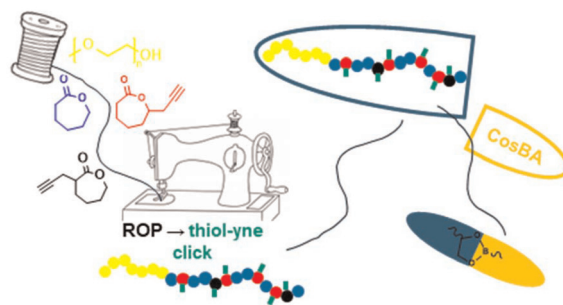
Image reproduced by permission of Robert Mundil and Mariusz Uchman from *Polym. Chem.*, 2025, **16**, 1217.

PAPERS

1217

Tailoring polyester-based diblock copolymers for boron-enhanced drug delivery: synthesis, kinetics, and nanoparticle characterization

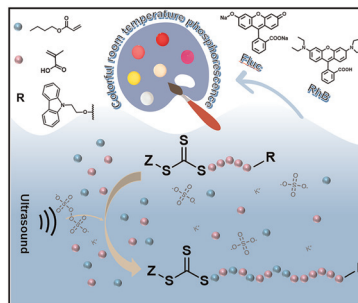
Robert Mundil,* Pavlína Marková, Martin Orságh, Ewa Pavlova, Zuzana Walterová, Petr Toman, Olga Kočková and Mariusz Uchman*



1231

Sonochemistry-assisted reversible addition–fragmentation chain transfer polymerization for synthesizing multicolor room-temperature phosphorescent polymers

Wenjing Liu, Ruoqing Zhao, Jinhong Han, Chen Wang, Xiaoyang Shao and Zhenhua Wang*



Industrial Chemistry & Materials

GOLD
OPEN
ACCESS

Focus on industrial chemistry
Advance material innovations
Highlight interdisciplinary feature

Innovative.
Interdisciplinary.
Problem solving

APCs currently waived

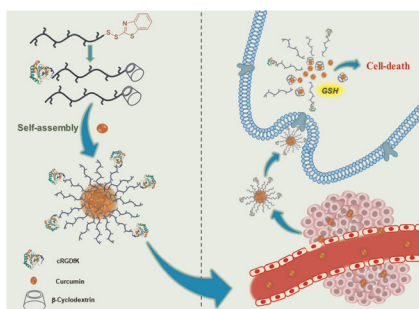
Learn more about ICM
Submit your high-quality article

 [@IndChemMater](#)

 [@IndChemMater](#)

rsc.li/icm

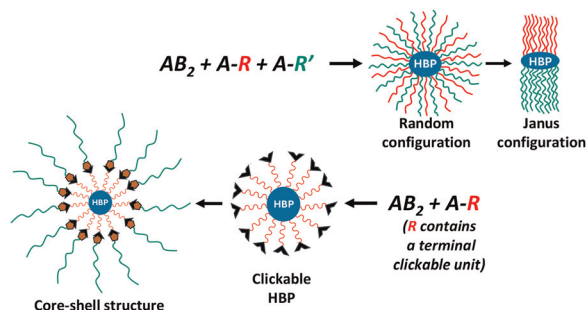
1272



Redox-responsive micellar nanoparticles using benzothiazole-disulfide terminated polymers: employing host–guest complexation for targeted delivery of curcumin

Salli Kocak, Beyza Demirkol, Ruveyda Kilic Boz, Rana Sanyal,* Mehmet Arslan* and Amitav Sanyal*

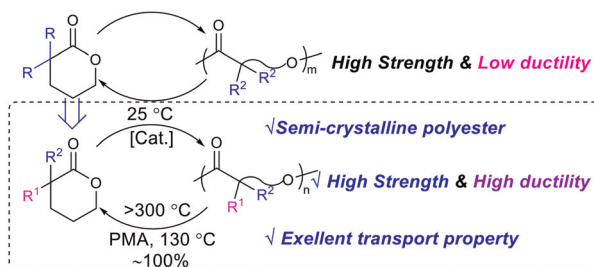
1285



Revisiting AB₂ + A-R copolymerization: direct access to Janus and peripherally clickable hyperbranched polyesters

Runa Singla, E. Bhoje Gowd and S. Ramakrishnan*

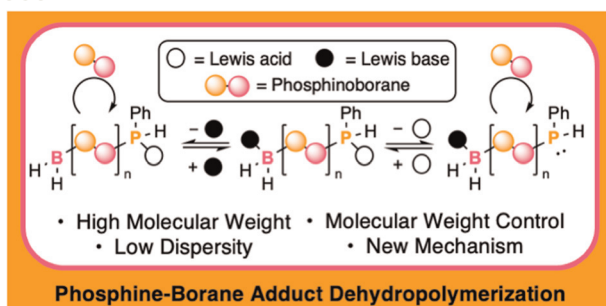
1297



Circular polyester design by *gem*-heterodisubstitution: valerolactone-based polymers with high ductility and excellent strength

Yue-Ming Pan, Xin-Lei Li, Wen-Da Shang and Tie-Qi Xu*

1305



BH₃·SMe₂ addition enables molar mass control via chain stabilization in phosphine–borane dehydropolymerization

Matthew A. Wiebe, Jade E. T. Watson, Charles Killeen, J. Scott McIndoe, Anne Staubitz* and Ian Manners

