

# Polymer Chemistry

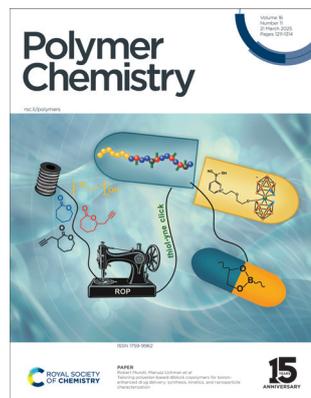
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## IN THIS ISSUE

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### Cover

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

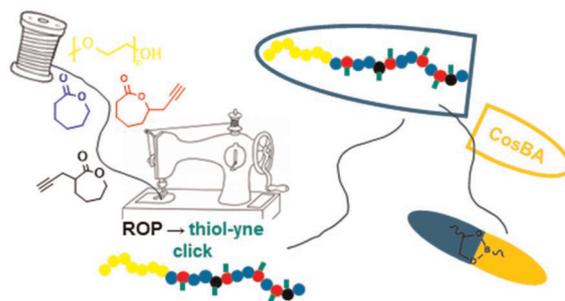
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## PAPERS

1217

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

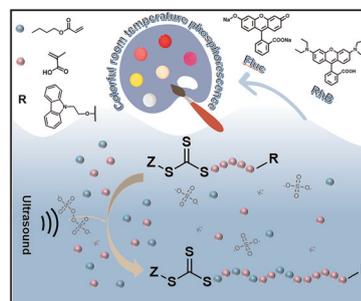
Robert Mundil,\* Pavlína Marková, Martin Orságh, Ewa Pavlova, Zuzana Walterová, Petr Toman, Olga Kočková and Mariusz Uchman\*



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### 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\*



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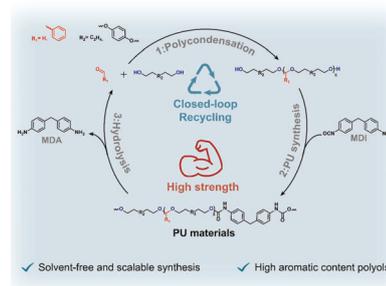
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### High performance polyurethanes derived from aromatic acetal-containing polyols enabling closed-loop recycling

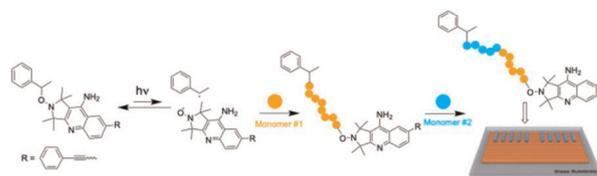
Patrick Schara, Tankut Türel, Anna Cristadoro, Rint P. Sijbesma and Željko Tomović\*



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### Synthesis of novel D- $\pi$ -A-based photosensitive alkoxyamine: application of two-photon polymerization *via* nitroxide-mediated photopolymerization

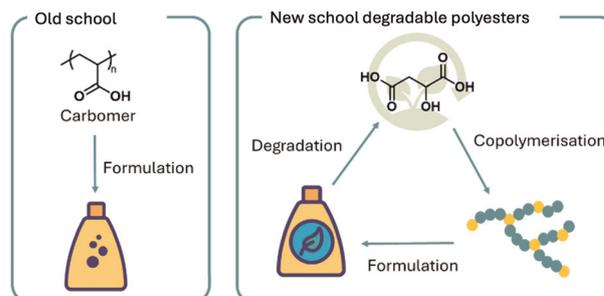
Nam Hoai Nguyen, Xingyu Wu, Yohann Guillaneuf, Arnaud Spangenberg, Didier Gigmes\* and Jean-Louis Clément\*



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### Poly(malic acid) copolymers as degradable rheology modifiers in aqueous formulations

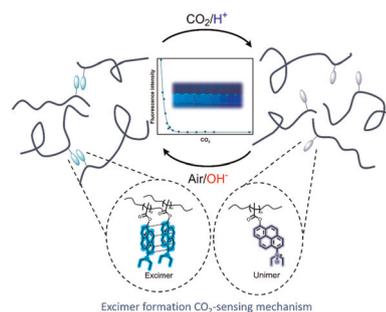
Christina A. R. Picken, Orla Buensoz, Christopher Fidge, Paul Price and Michael P. Shaver\*



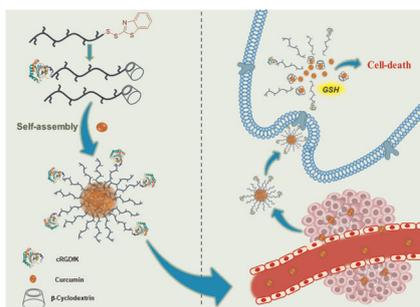
1265

### pH-responsive polymer-supported pyrene-based fluorescent dyes for CO<sub>2</sub> detection in aqueous environments

David A. Londoño de la Cruz, David Chappell, Bilal Rashid, Blaine R. Tookey, Calum T. J. Ferguson and Rachel K. O'Reilly\*



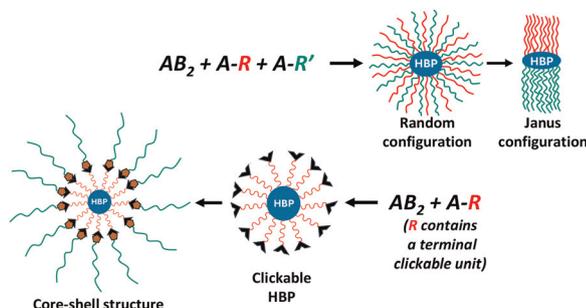
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### Redox-responsive micellar nanoparticles using benzothiazole-disulfide terminated polymers: employing host–guest complexation for targeted delivery of curcumin

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

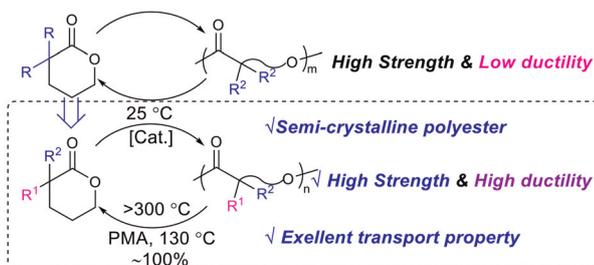
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### Revisiting $AB_2 + A-R$ copolymerization: direct access to Janus and peripherally clickable hyperbranched polyesters

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

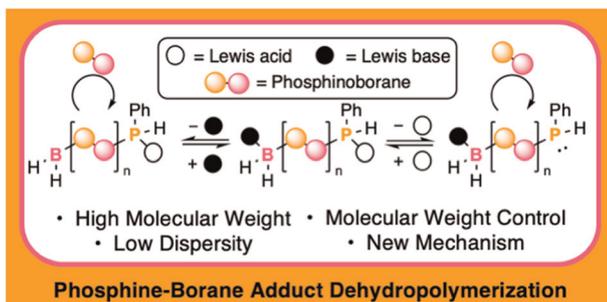
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### Circular polyester design by *gem*-heterodisubstitution: valerolactone-based polymers with high ductility and excellent strength

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

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### $BH_3 \cdot SME_2$ 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

