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.

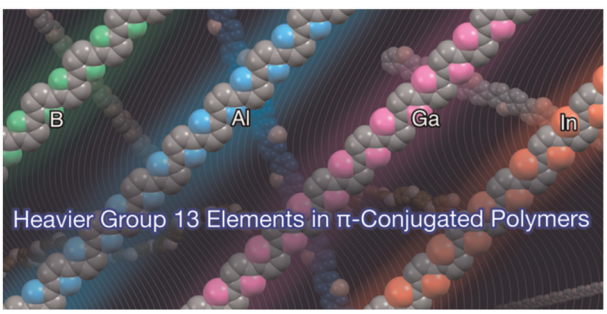
IN THIS ISSUE

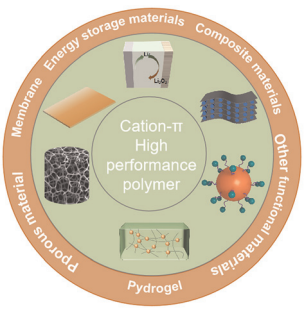
ISSN 1759-9962 CODEN PCOHC2 16(18) 2039–2174 (2025)

Cover
See Patrick Théato *et al.*, pp. 2075–2082.

Image reproduced by permission of Daniel Döpping and Patrick Théato from *Polym. Chem.*, 2025, **16**, 2075.

REVIEWS



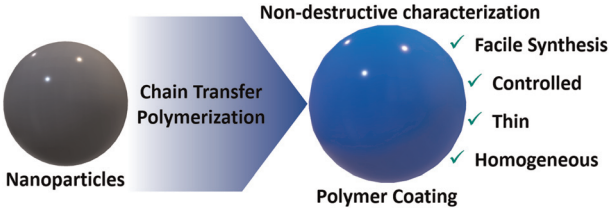


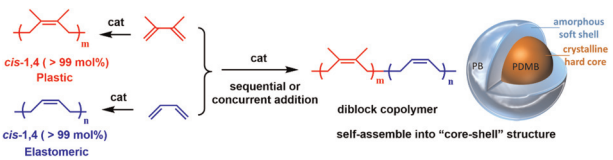
EES Batteries

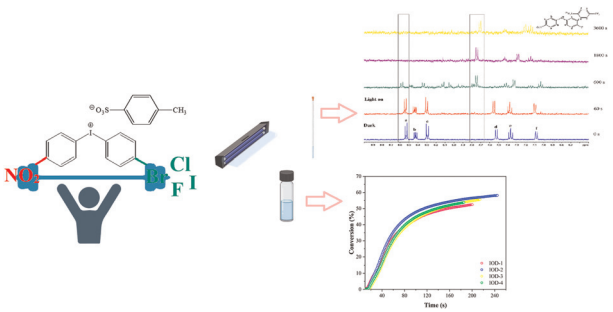
Exceptional research on batteries and energy storage

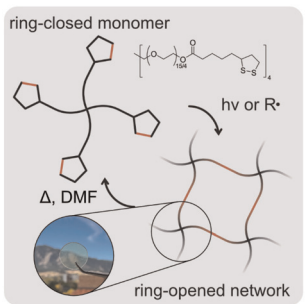
Part of the EES family

PAPERS



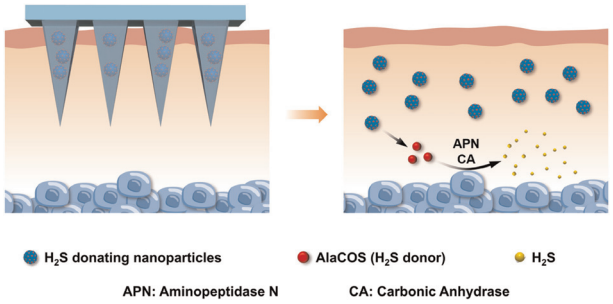






PAPERS

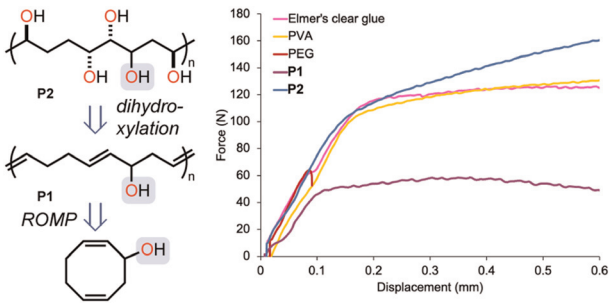
2117



Microneedle-mediated transdermal H_2S gas therapy for psoriasis

Yanlin Wang, Fan Rong, Xiaoyi Sun, Duohang Bi, Yin Wang,* Yijing Liu* and Jintao Zhu*

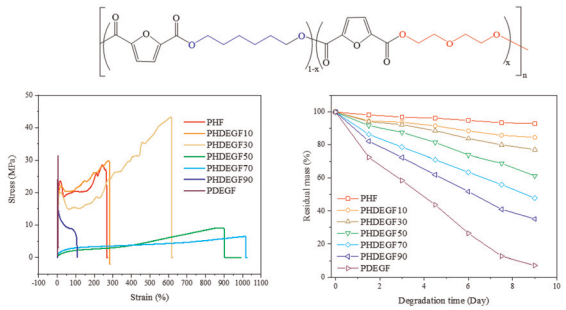
2128



Directed dihydroxylation of a poly(cyclooctadienol) toward densely-hydroxylated polyol adhesives

Lauren S. Cooke and Aleksandr V. Zhukhovitskiy*

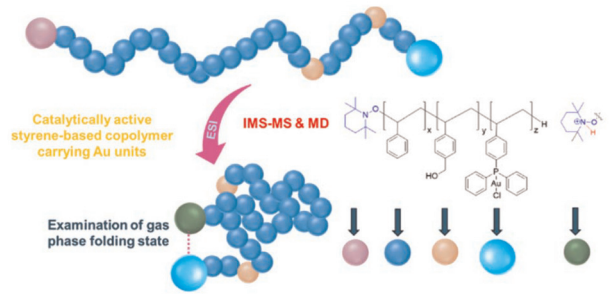
2133



Novel biobased poly(hexamethylene-*co*-diethylene glycol furandicarboxylate) copolyesters with improved mechanical properties and hydrolytic degradation rates

Shiwei Feng, Haidong Yang and Zhaobin Qiu*

2143



Ion mobility mass spectrometry coupled with molecular dynamics simulations: in-depth structural analysis of polystyrene-based Au-containing copolymers

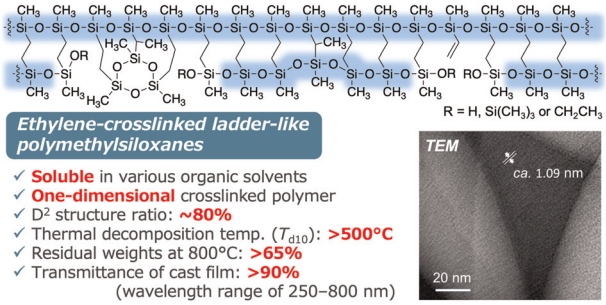
Sarajit Naskar, Aidan Izuagbe, Vincent Lemaur, Quentin Duez, Andrea Minoia, Julien De Winter, Stephen J. Blanksby, Jérôme Cornil, Christopher Barner-Kowollik* and Pascal Gerbaux*

PAPERS

2154

Preparation of highly thermally stable and soluble ethylene-crosslinked ladder-like polymethylsiloxanes *via* template polymerisation

Sho Nonaka, Kazuhiro Shikinaka, Tomoyasu Hirai and Yoshiro Kaneko*



2162

Synthesis and self-assembly of a diblock copolymer consisting of a cyclic olefin copolymer and polycaprolactone

Yung-Chuan Chuang, Jing-Wen Su, Yu-Chuan Sung, Jing-Cherng Tsai,* Jian-Wei Huang, Sheng-Wei Shao and Rong-Ming Ho*