

Polymer Chemistry

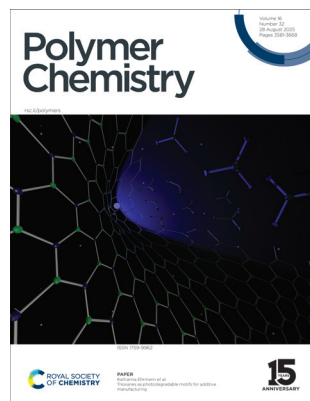
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

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(32) 3581–3668 (2025)



Cover

See Katharina Ehrmann *et al.*, pp. 3597–3607.

Image reproduced by permission of Florian Mayer and Katharina Ehrmann from *Polym. Chem.*, 2025, **16**, 3597.

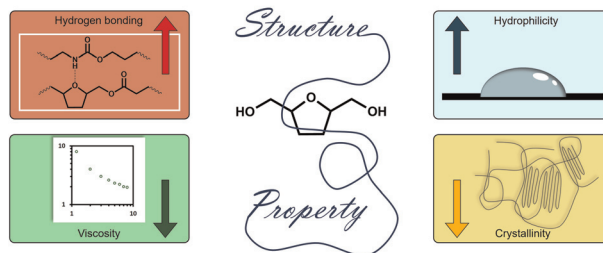
Artwork by Florian Mayer.

MINIREVIEW

3587

Panoramic view of biobased BHMTHF-based polymers

Cornelis Post, Dina Maniar, Rudy Folkersma, Vincent S. D. Voet* and Katja Loos*

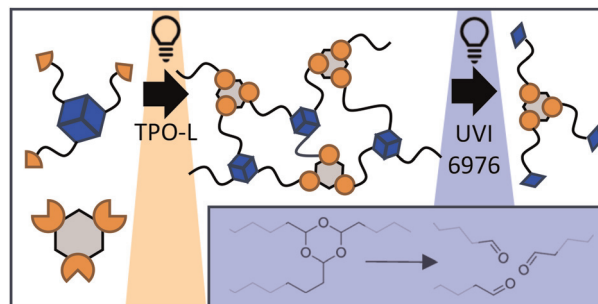


PAPERS

3597

Trioxanes as photodegradable motifs for additive manufacturing

Florian Mayer, Dominik Laa, Thomas Koch, Jürgen Stampfl, Robert Liska and Katharina Ehrmann*



GOLD
OPEN
ACCESS

RSC Applied Polymers

**The application of polymers,
both natural and synthetic**

Interdisciplinary and open access

rsc.li/RSCApplPolym

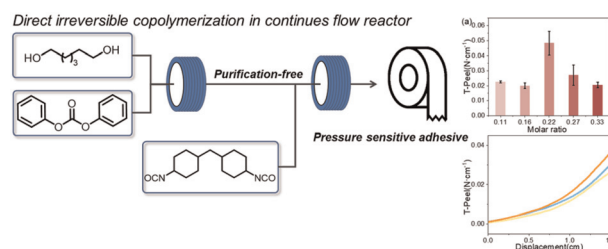
**Fundamental questions
Elemental answers**

PAPERS

3608

A continuous flow based irreversible polycondensation enables synthesis of polycarbonate diols beyond batch limitations

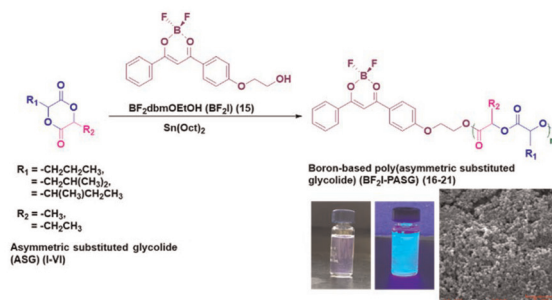
Jiawen Dai, Shuyuan Luo, Zhenjiang Li, Jie Sun, Haritz Sardon, Ning Zhu,* Jin Huang* and Kai Guo



3619

Boron-based poly(asymmetric substituted glycolide) nanospheres

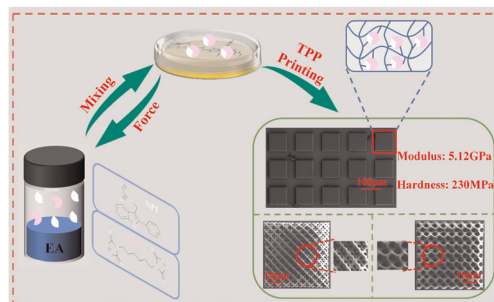
Ayşenur Vardar, Mehmet Onur Arıcan, Sezgi Erdoğan, Taner Erdoğan, Ufuk Yıldız, Asgar Kayan and Olcay Mert*



3632

Force-induced fluorescence response of functional two-photon micro-nanofabrication photosensitive materials based on dynamic C–N bonds

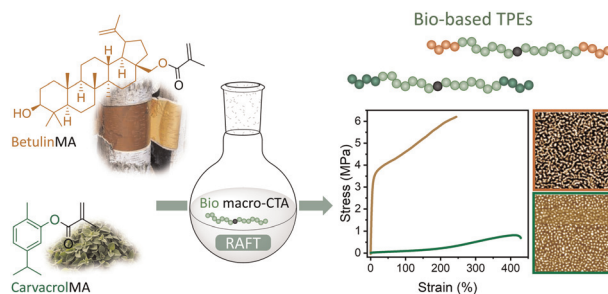
Yang Gao, Jia-ming Hu, Lu-kun Wu, Shuai Zhang,* Jing Li* and Kai Du*



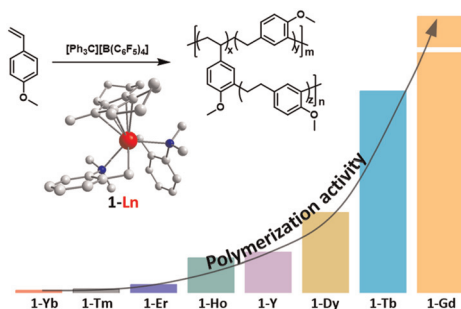
3640

Biobased triblock thermoplastic elastomer with betulin- or carvacryl-methacrylate end-blocks by RAFT polymerization

Aniello Vittore, Pauline Shamraienko,* Ilka Hermes, Qiong Li, Brigitte Voit and Lorella Izzo*



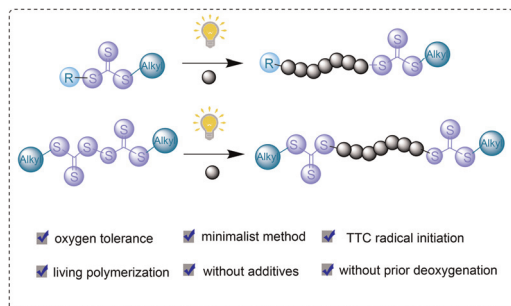
3650



Octahydrofluorenyl rare-earth metal-catalyzed simultaneous chain-growth and step-growth polymerization of *para*-methoxystyrene

Fen You, Yanan Zhao* and Xiaochao Shi*

3661



Alkyl-substituted trithiocarbonates enable performing open-to-air RAFT polymerization regardless of the presence or absence of an R-group

Fei Wang, Fubang Huang, Shuang Han and Weidong Zhang*

