

# Polymer Chemistry

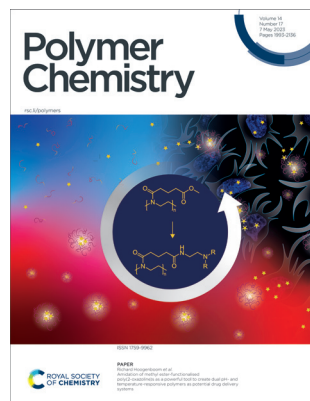
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### Cover

See Richard Hoogenboom  
*et al.*, pp. 2034–2044.

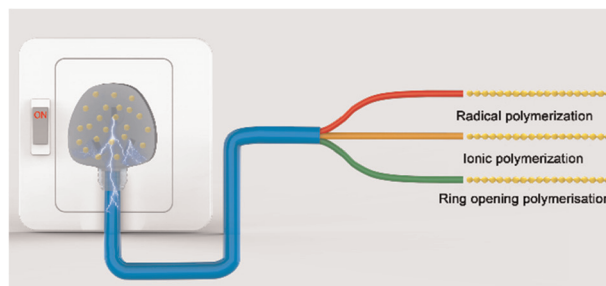
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Richard Hoogenboom  
from *Polym. Chem.*,  
2023, **14**, 2034.

## REVIEW

2000

### Recent progress and applications enabled via electrochemically triggered and controlled chain-growth polymerizations

Boyu Zhao and Paul Wilson\*

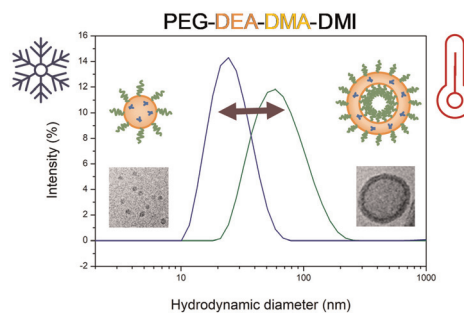


## COMMUNICATIONS

2022

### Responsive tertiary amine methacrylate block copolymers: uncovering temperature-induced shape-shifting behaviour

Zahn Stanvliet, Yiyi Deng, Dietmar Appelhans,  
Silvia Moreno, Susanne Boye, Jens Gaitzsch\* and  
Albena Lederer\*



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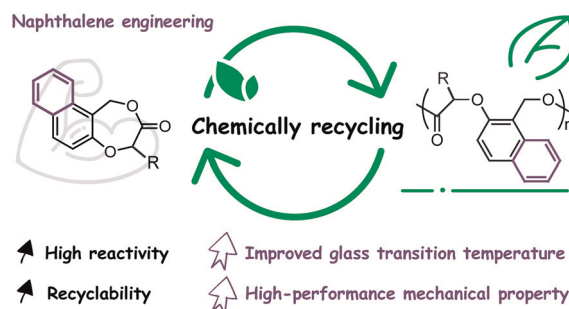


## COMMUNICATIONS

2027

### Naphthalene engineering of chemically recyclable polyesters with enhanced thermal and mechanical properties

Xue-Mei Wang, Hao-Yi Huang, Yi-Min Tu, Zhongzheng Cai\* and Jian-Bo Zhu\*

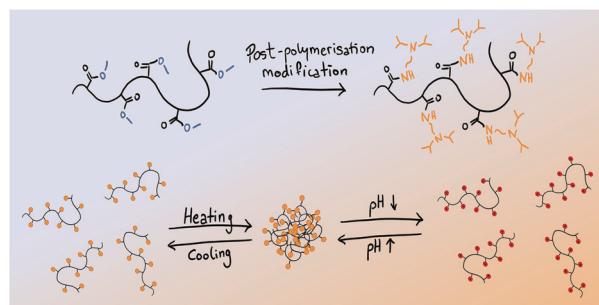


## PAPERS

2034

### Amidation of methyl ester-functionalised poly(2-oxazoline)s as a powerful tool to create dual pH- and temperature-responsive polymers as potential drug delivery systems

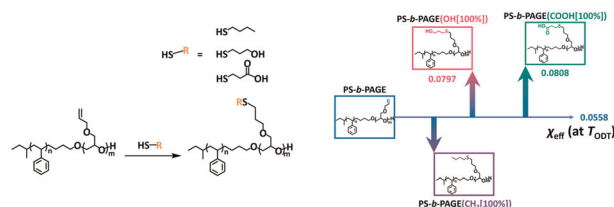
Meike N. Leiske, Ronak Singha, Somdeb Jana, Bruno G. De Geest and Richard Hoogenboom\*



2045

### Control of microphase-separated structures by tuning the functional groups and the degree of modification for a single block copolymer

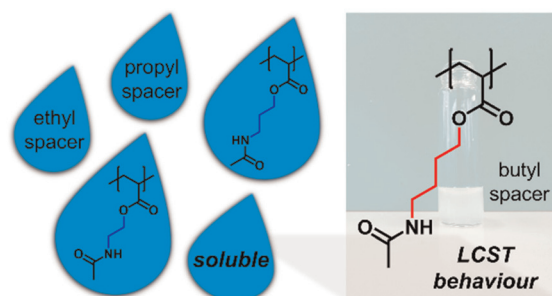
Zhengdan Lin, Yuta Nabae and Teruaki Hayakawa\*



2054

### The effect of side chain spacer length on the thermoresponsive behaviour of poly(methylamide acrylate)s

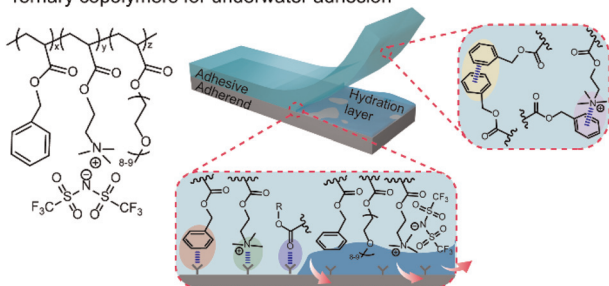
Alexander Rajakanthan, Paul Wilson\* and Kristian Kempe\*



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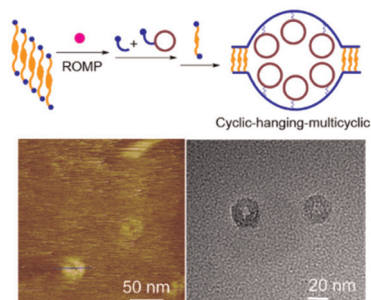
2063

Ternary copolymers for underwater adhesion

**Catechol-free ternary random copolymers for strong and repeatable underwater adhesion**

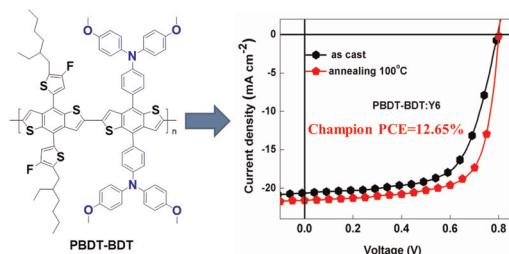
Wenlian Qiu, Yi Huang, He Zhu, Qi Zhang\* and Shiping Zhu\*

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**Cyclic-hanging-multicyclic polymer synthesized by ladderphane-mediated blocking-cyclization technique for the direct visualization of cyclic macromolecular topology**

Cuihong Ma, Ying Quan, Xiaojuan Liao, Ruyi Sun\* and Meiran Xie\*

2080



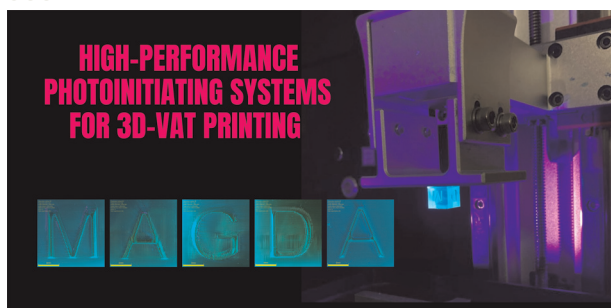
Two-dimensional wide-band-gap polymer :

✓ D-D polymeric backbone ✓ Conjugated side-chains ✓ Deep HOMO Level

**Triphenylamine side chain enabled polybenzodithiophene wide-bandgap donors for efficient organic solar cells**

Yun Zhang, Liying Fu, Xingyu Zhao, Ye Lu, Hao Feng, Xianglin Meng, Chunbo Liu, Enwei Zhu,\* Chunhong Ma\* and Guangbo Che\*

2088

**Novel multi-material photo-curable resins containing high-performance photoinitiating systems and nano additives dedicated to 3D-VAT printing**

Magdalena Jankowska, Anna Chachaj-Brekiesz, Klaudia Trembecka-Wójciga, Anna Jarzębska, Monika Topa-Skwarczyńska, Maciej Pilch and Joanna Ortyl\*

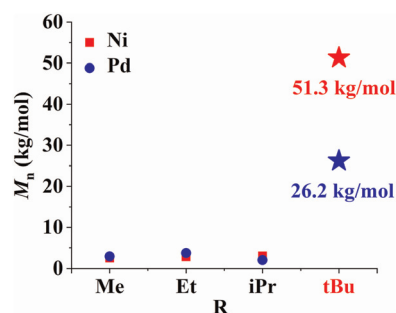


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### Unexpected *o*-aryl *t*Bu group effect on suppression of chain transfer in pyridine–imine Ni(II) and Pd(II) catalyzed ethylene (co)polymerization

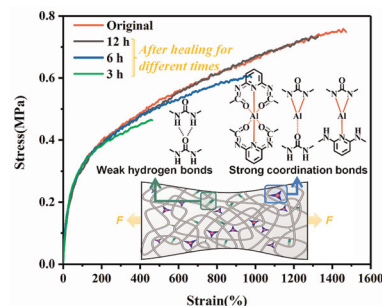
Zhengpeng Yan, Wenping Zou and Shengyu Dai\*



2117

### Multiple hierarchical dynamic interactions enabled a robust, stretchable and room temperature self-healing elastomer

Jianfeng Fan, Xinqin Zhou and Yukun Chen\*



2126

### Narrowing down chain length effects on the antibacterial action of guanylated oligomers

Dries Wyers, Thanavit Jirapanjawat, John F. Quinn, Michael R. Whittaker, Chris Greening and Tanja Junkers\*

