

Polymer Chemistry

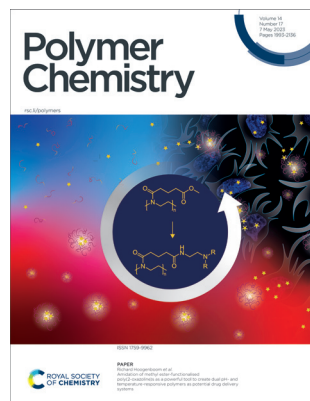
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Cover

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

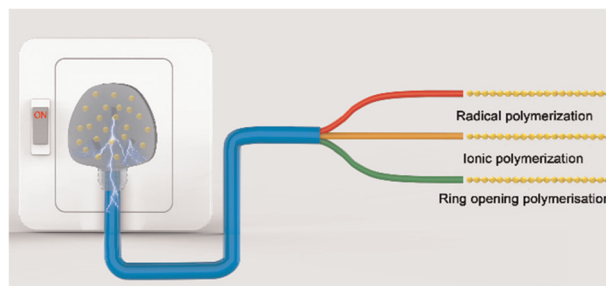
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REVIEW

2000

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

Boyu Zhao and Paul Wilson*

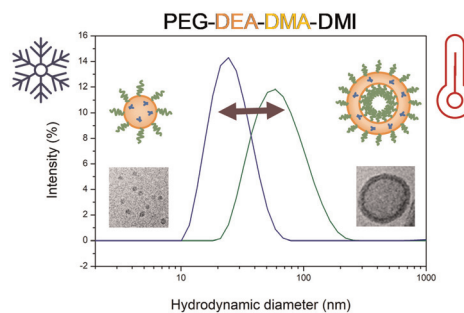


COMMUNICATIONS

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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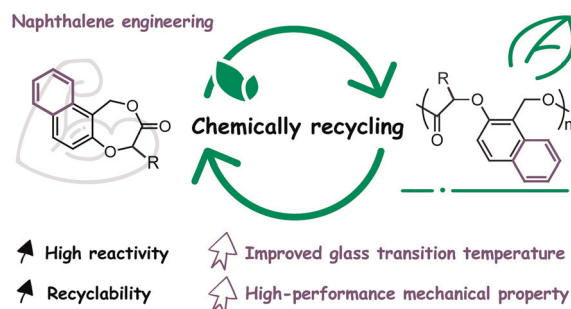


COMMUNICATIONS

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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*

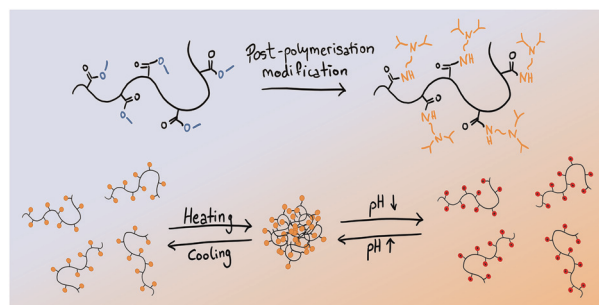


PAPERS

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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

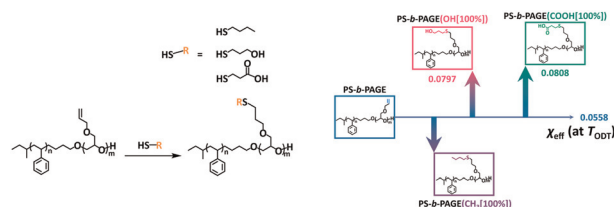
Meike N. Leiske, Ronak Singha, Somdeb Jana, Bruno G. De Geest and Richard Hoogenboom*



2045

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

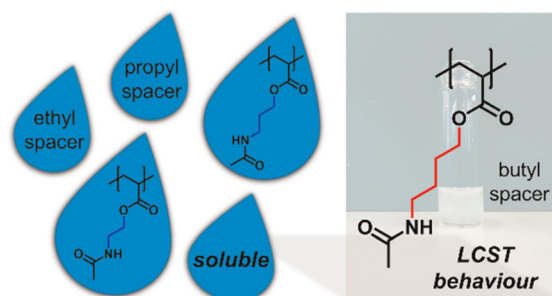
Zhengdan Lin, Yuta Nabae and Teruaki Hayakawa*



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

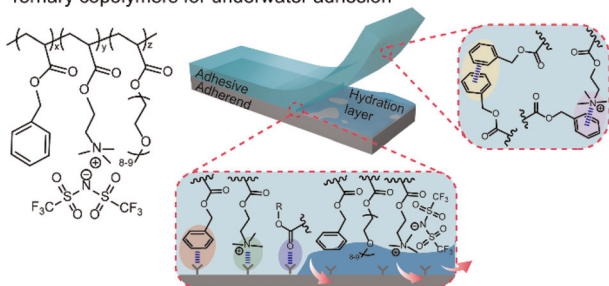
Alexander Rajakanthan, Paul Wilson* and Kristian Kempe*



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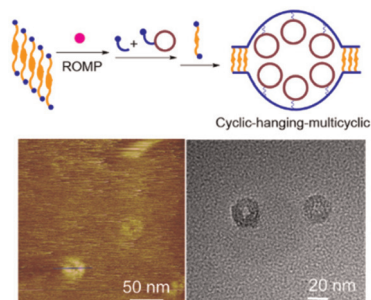
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Ternary copolymers for underwater adhesion

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

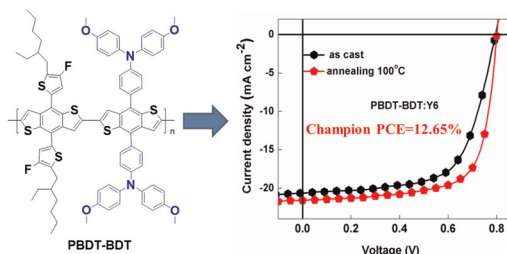
Wenlian Qiu, Yi Huang, He Zhu, Qi Zhang* and Shiping Zhu*

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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*

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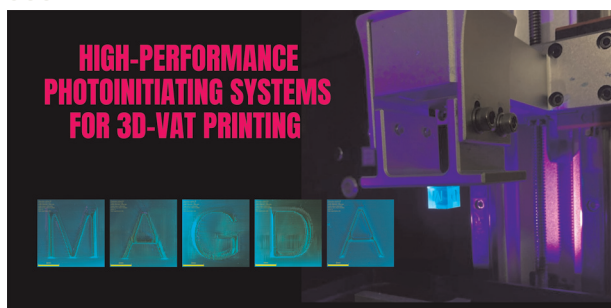
Two-dimensional wide-band-gap polymer :

✓ 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*

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**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*

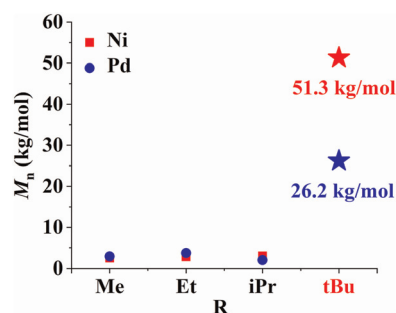


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Unexpected *o*-aryl *t*Bu group effect on suppression of chain transfer in pyridine–imine Ni(II) and Pd(II) catalyzed ethylene (co)polymerization

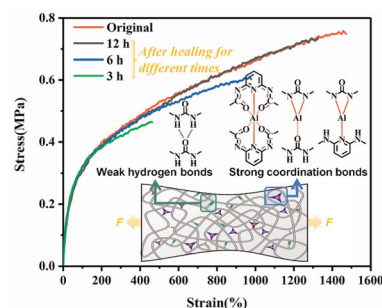
Zhengpeng Yan, Wenping Zou and Shengyu Dai*



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

Jianfeng Fan, Xinqin Zhou and Yukun Chen*



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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*

