

# Polymer Chemistry

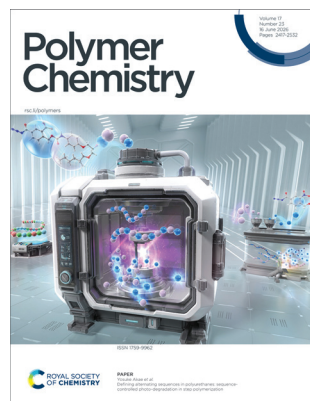
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### Cover

See Yosuke Akae *et al.*,  
pp. 2423–2436.

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**17**, 2423.

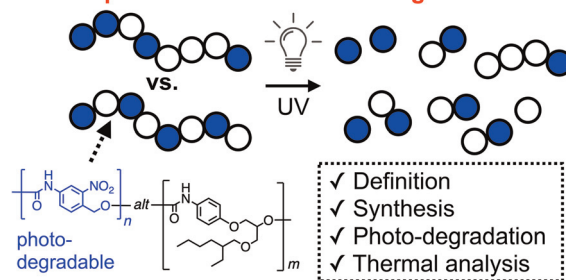
## PAPERS

2423

### Defining alternating sequences in polyurethanes: sequence-controlled photo-degradation in step polymerization

Xaver Kneidl, Johannes Reeb-Begic, Tongtong Cui,  
Patrick Theato and Yosuke Akae\*

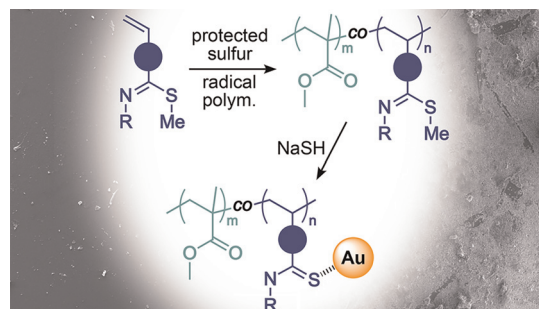
#### Sequence-controlled Photo-Degradation



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### Thioamides on radical-chain growth monomers: post-polymerization transformation for tailored functional polymers

Selin Kinali-Demirci, Serkan Demirci\* and  
Brett VanVeller\*



# RSC Applied Interfaces

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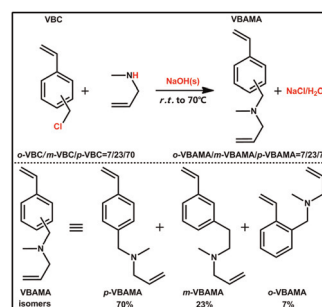
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Fundamental questions  
Elemental answers

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### Bifunctional group distribution and gradient structure resulting from the anionic copolymerization of styrene and vinylbenzyl *N,N*-allylmethylamine

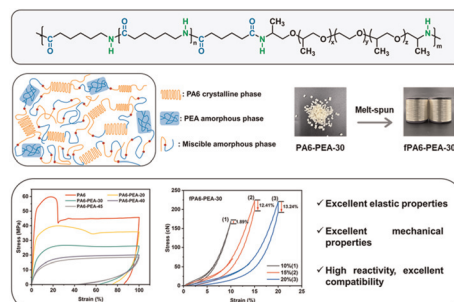
Kun Liu, Xupeng Han, Jiahao Zhou, Yao Long, Min Zhang, Yayan Wang, Jiaping Tan, Meilin Liu, Lijun Li\* and Yali Li\*



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### Study on the microstructure of poly(amide 6-ether) copolymers and their application in elastic fibers

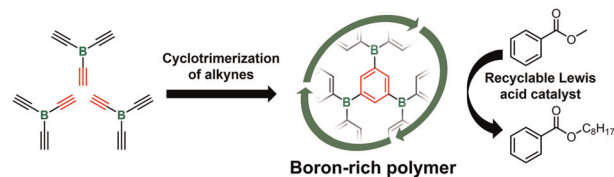
Yixiao Yu, Weicheng Yang, Yuhao Wu, Shengming Zhang,\* Chengzhen Meng, Peng Ji,\* Chaosheng Wang and Huaping Wang\*



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### Synthesis of a BC<sub>6</sub> polymer *via* cyclotrimerization of alkynylborane and its application as a heterogeneous Lewis acid catalyst

Naoki Takahashi, Kentaro Ohkura and Yuta Nishina\*



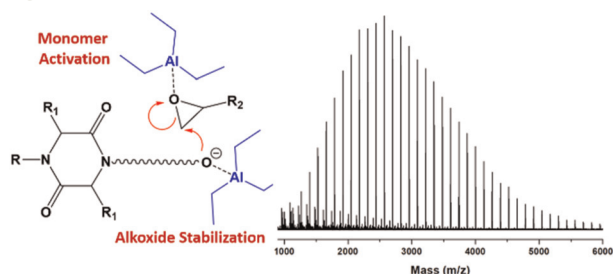
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### Dynamic exchange in vinylogous urethane vitrimers: computational and experimental approaches to screen structure–property relationships of dynamic bonds

Jacopo Teotonico, Fernando Ruipérez\* and Nicholas Ballard\*



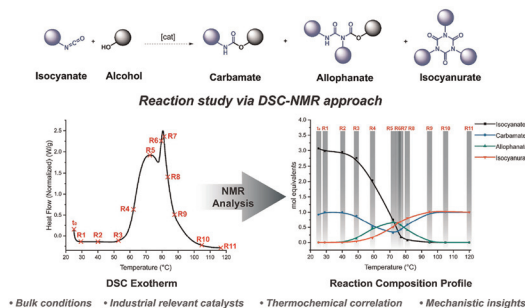
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### Influence of the nature of the Lewis acid on the AROP of epoxides initiated by 2,5-diketopiperazine

Valentin Puchelle, Sylvie Noinville, Philippe Guégan\* and Nicolas Illy\*

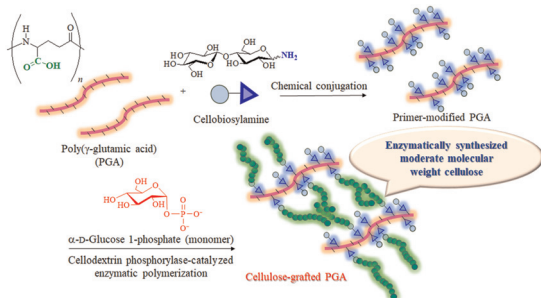
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### A complementary DSC–NMR methodology for elucidating isocyanurate formation pathways in polyurethanes

Ashok Ramakrishnan, Tobias Wagener, Oliver Welz, Berend Eling and Željko Tomović\*

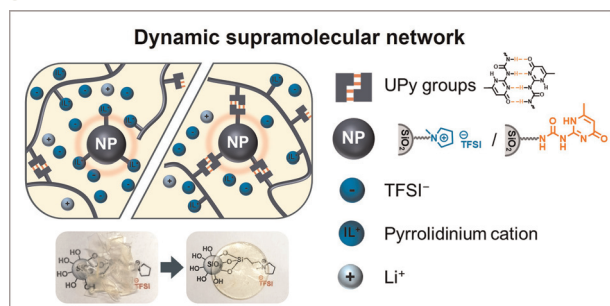
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### Cellodextrin phosphorylase-catalyzed enzymatic polymerization from primers modified on poly(γ-glutamic acid) for the synthesis of moderate-molecular-weight celluloses

Kousuke Ohba, Mimi Tokunaga, Tao Takagaki, Masayasu Totani and Jun-ichi Kadokawa\*

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### Pyrrolidinium-based gel composites for reprocessable, flame-retardant electrolytes

Haobo Hong, Tshepiso L. Tema, Redoy Gazi Shuvo, Harald Rupp, Stephanie Krüger, Anja Marinow,\* Zviadi Katcharava\* and Wolfgang H. Binder\*

