

# Polymer Chemistry

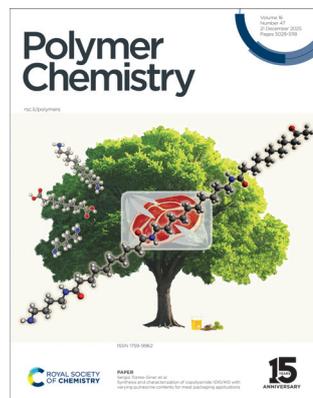
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## IN THIS ISSUE

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**Cover**  
See Sergio Torres-Giner  
et al., pp. 5040–5063.

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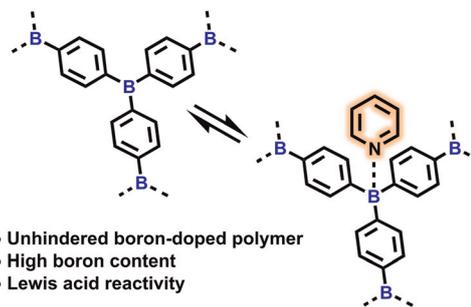
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RYC2019-027784-I from the  
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## COMMUNICATION

5035

### Synthesis of sterically unhindered Lewis acidic boron-doped $\pi$ -conjugated polymers

Naoki Takahashi and Yuta Nishina\*

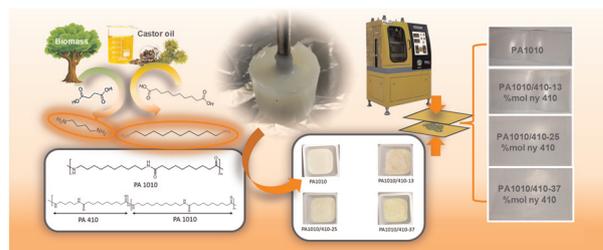


## PAPERS

5040

### Synthesis and characterization of copolyamide 1010/410 with varying putrescine contents for meat packaging applications

Marta Pacheco-Romeralo, Eva Hernández-García,  
Antxon Martínez de Ilarduya, Ronak Janani,  
Chris Sammon and Sergio Torres-Giner\*



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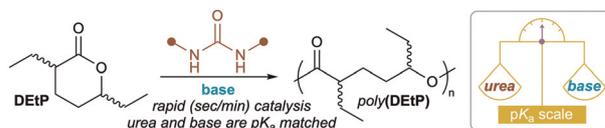


## PAPERS

5064

### Ureate anion-catalyzed ring-opening polymerization (ROP) of CO<sub>2</sub>-derived lactones: rapid catalysis through pK<sub>a</sub> matching

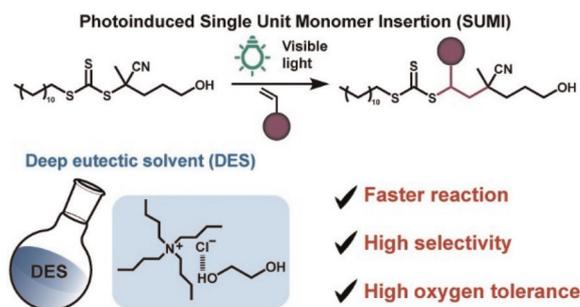
Madhur M. Bhatt, Arron C. Deacy and Ian A. Tonks\*



5070

### Photoinduced single unit monomer insertion (SUMI) promoted by deep eutectic solvents

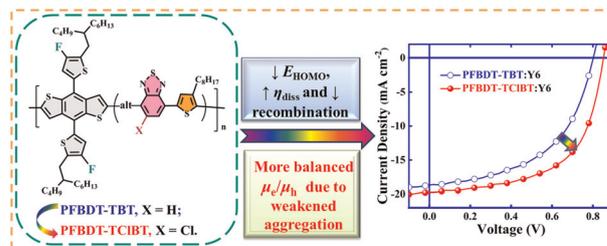
Bo-Rong Hung, Ting-En Kung and Sheng-Sheng Yu\*



5079

### Monochlorination-enabled elevated solar cell performance in region-asymmetric benzothiadiazole-based medium bandgap conjugated copolymers

Shilei Qu, Wuyan Liu, Lili An, Xinyu Liu, Zhongyi Wang, Zezhou Liang, Chunyan Yang and Junfeng Tong\*



5093

### The renewable feedstock levoglucosenone as a building block for the development of bio-derived, functional acrylic polymers

Hannah C. Sheers, Melissa K. Stanfield,\* Jason A. Smith and Stuart C. Thickett\*

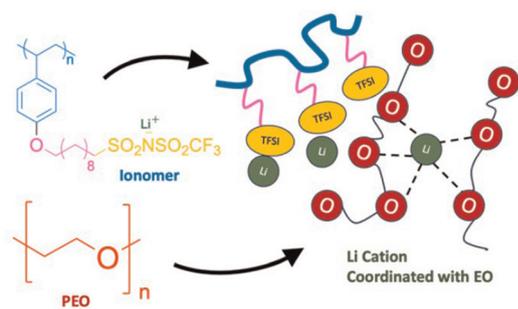
- ✓ Biomass-derived acrylate
- ✓ PET-RAFT under ambient conditions
- ✓ High T<sub>g</sub> polymer
- ✓ Reactive side-group for post-polymerization modification
- ✓ Cross-linked networks from linear precursors
- ✓ Amenable to emulsion polymerization at high solids

RAFT agent: BTPA-2  
 Eosin Y, TEOA, DMSO, λ = 525 nm

poly(LGOA)

Cross-linked thermoset based on biomass-derived acrylate





## Structure and dynamics in poly(ethylene oxide)-blended single-ion conducting polymer electrolytes based on side-chain ionomers

Govinda Prasad Devkota, Carter K. Dauenhauer, Jizhou Jiang and Jennifer L. Schaefer\*

