

# Polymer Chemistry

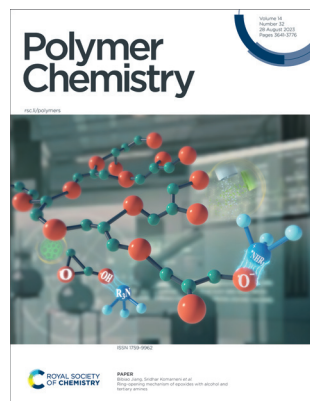
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### Cover

See Bibiao Jiang,  
Sridhar Komarneni *et al.*,  
pp. 3679–3685.

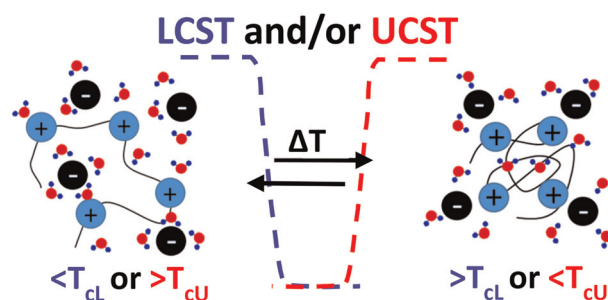
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**14**, 3679.

## REVIEW

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### Thermoresponsive polycations

Vikram Baddam and Heikki Tenhu\*



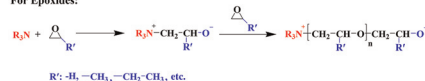
## PAPERS

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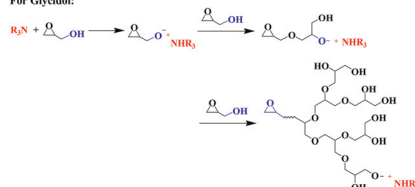
### Ring-opening mechanism of epoxides with alcohol and tertiary amines

Yongzhuang Du, Xiaoqiang Xue, Qimin Jiang,  
Wenyan Huang, Hongjun Yang, Li Jiang, Bibiao Jiang\*  
and Sridhar Komarneni\*

For Epoxides:



For Glycidol:



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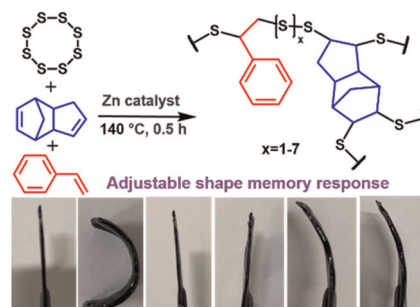


## PAPERS

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### Sulfur-rich polymers with heating/UV light-responsive shape memory and temperature-modulated self-healing

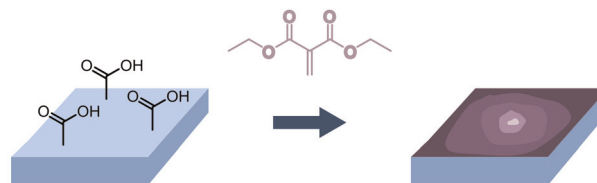
Zhao Yang, Peiyao Yan, Xiaohu Li, Congcong Miao, Shanshan (Diana) Cai, Weigang Ji, Mengyuan Song, Liam J. Dodd, Xiaofeng Wu,\* Tom Hasell\* and Pengfei Song\*



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### Anionic polymerization and transport of diethyl methylenemalonate on polyolefin copolymer surfaces

Kelsi M. S. Rehmann, John Klier and Jessica D. Schiffman\*

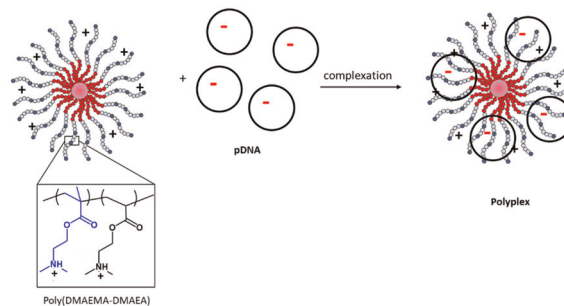


- Initiator concentration impacts monomer transport rate
- Grafting from substrates with minimal surface treatment

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### Cationic star copolymers obtained by the arm first approach for gene transfection

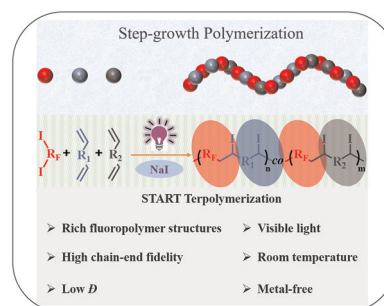
Fannie Burgevin, Alexia Hapeshi, Ji-Inn Song, Marta Omedes-Pujol, Annette Christie, Christopher Lindsay and Sébastien Perrier\*



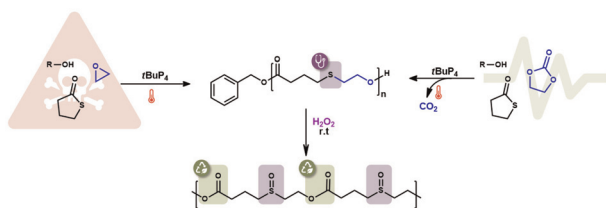
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### Visible-light mediated synthesis of main-chain-type semifluorinated alternating terpolymers by NaI catalyzed START polymerization

Chaojie Li, Jiannan Cheng, Yi Zhang, Qing Yu, Zhiru Yuan, Weiwei He,\* Xiaoguang Bao, Lifan Zhang\* and Zhenping Cheng\*



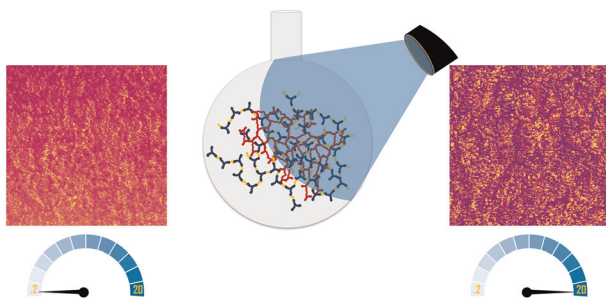
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### $\gamma$ -Thiobutyrolactone – ethylene carbonate decarboxylative copolymerization, an original pathway to prepare aliphatic oxidizable poly( $\gamma$ -thioether ester)

Emma Mongkhoun, Philippe Guégan and Nicolas Illy\*

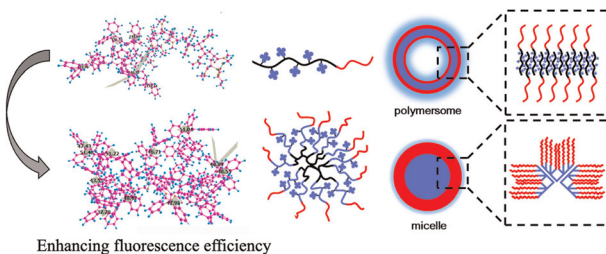
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### CuAAC–methacrylate interpenetrating polymer network (IPN) properties modulated by visible-light photoinitiation

Mukund Kabra and Christopher J. Kloxin\*

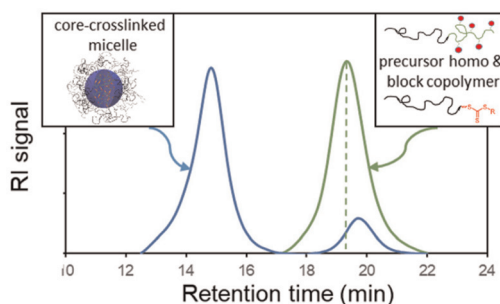
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### Investigating AIE behaviors of amphiphilic AIEgen-based polymers through self-assembly architectures and hydrophobic core arrangements

Liang Wang, Ghada E. Khedr, Lei Luo, Shiling Zhang, Zhiying Li, Shanmeng Lin, Jinyan Luo, Qi Xing\* and Jin Geng\*

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### Synthesis of redox-responsive core–shell nanoparticles: insights into core-crosslinking efficiency

Yannik Olszowy, Janick Wesselmann, Shenja Fabienne Over, Florian Pätzold and Ralf Weberskirch\*

