

# Polymer Chemistry

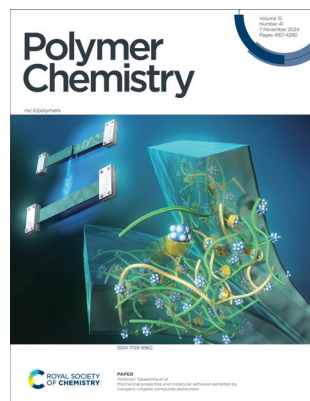
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### Cover

See Yoshinori Takashima *et al.*, pp. 4196–4203.

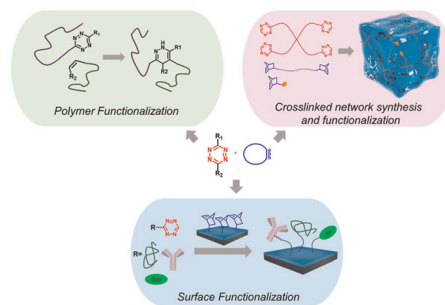
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## REVIEW

4173

### Tetrazine-based inverse-electron-demand Diels–Alder reaction: a powerful tool for fabrication and functionalization of polymeric materials

Mehmet Arslan,\* Aysun Degirmenci, Rana Sanyal and Amitav Sanyal\*

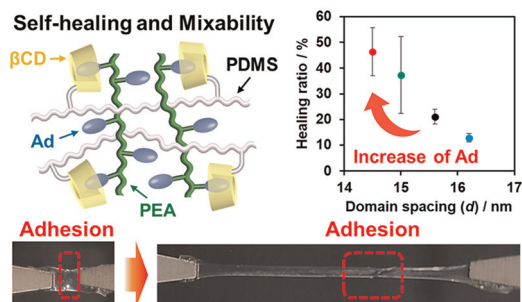


## PAPERS

4196

### Mechanical properties and molecular adhesion exhibited by inorganic–organic composite elastomers

Naoki Yamashita, Ryohei Ikura, Kenji Yamaoka, Nobu Kato, Masanao Kamei, Kentaro Ogura, Minoru Igarashi, Hideo Nakagawa and Yoshinori Takashima\*



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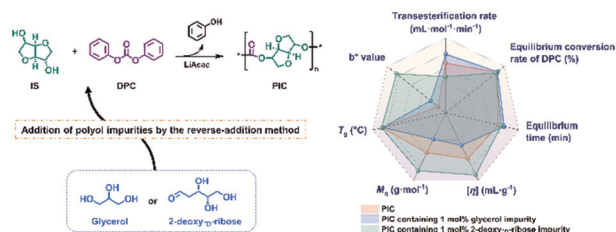


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4204

### Influence of polyol impurities on the transesterification kinetics, molecular structures and properties of isosorbide polycarbonate

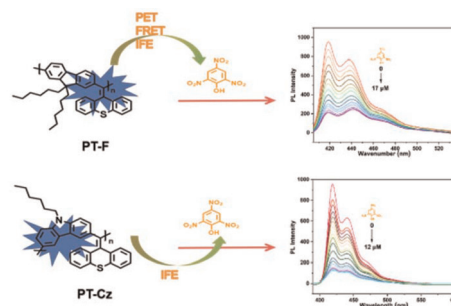
Mingfa Guo, Yanning Wang, Zhenguang Li, Jielin Xu, Qian Chen, Jing Wu\* and Huaping Wang



4221

### The synthesis of tetraarylethylene-based conjugated polymers for the application of fluorescence sensing towards nitroaromatics

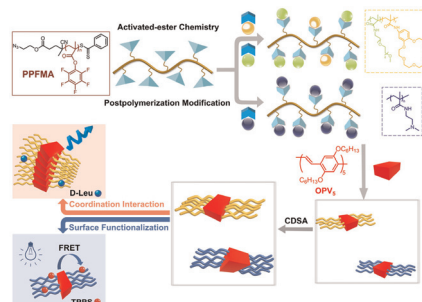
Rentuya Wu, Xiaosong Sun, Wenyue Dong,\* Yanwei Li, Qian Duan\* and Teng Fei



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### A facile and versatile platform for preparing uniform $\pi$ -conjugated nanofibers with controlled length and varying shells

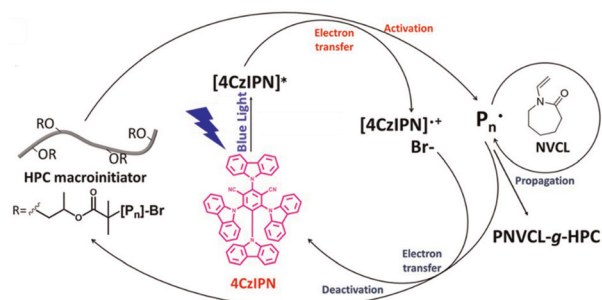
Bo Xiang, Hongluo Wu, Rang Chen, Xiaoyu Huang,\* Guolin Lu and Chun Feng\*



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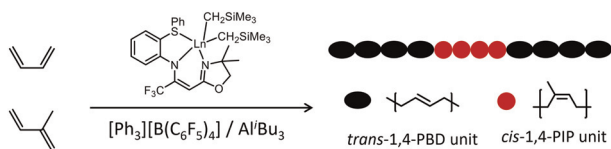
### Versatile poly(*N*-vinylcaprolactam)-grafted-hydroxypropyl cellulose polymers with tailored thermo- and pH-responsive properties via sustainable organocatalyzed atom transfer radical polymerization

Muhammad Asif Iqbal, Asif Mahmood, Waheed Al-Masry, Chan Ho Park, Sadaf Ul Hassan\* and Toheed Akhter\*



## PAPERS

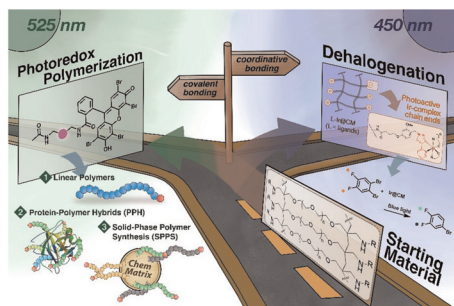
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### Polymerization of isoprene and butadiene with unparalleled stereoselectivity catalysed by rare-earth metal cationic species bearing a novel tridentate ligand

Xiuling Wang, Yang Wang, Zhonglei Qin, Liying Shen\* and Xiaochao Shi\*

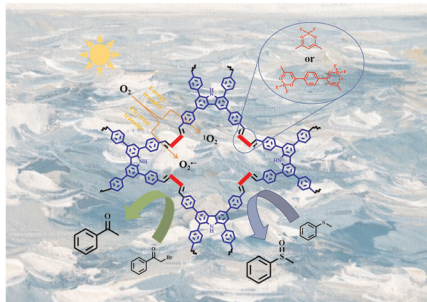
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### Heterogenous catalysis for oxygen tolerant photoredox atom transfer radical polymerization and small-molecule dehalogenation

Kriti Kapil, Mingkang Sun, Ting-Chih Lin, Hironobu Murata, Grzegorz Szczepaniak, Khidong Kim, Stephen DiLuzio, Jaepil Jeong, Mitchell Baumer, Stefan Bernhard, Tomasz Kowalewski and Krzysztof Matyjaszewski\*

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### Vinylene-linked fully conjugated porous organic polymers based on difluoroboron $\beta$ -diketonate complexes for green and efficient photocatalysis

Wenshuo Xu, Zehao Zhao, Yiqiong Liu, Dongxin Yang and Weitao Gong\*

