

Polymer Chemistry

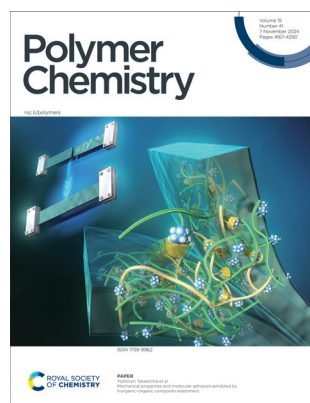
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IN THIS ISSUE

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Cover

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

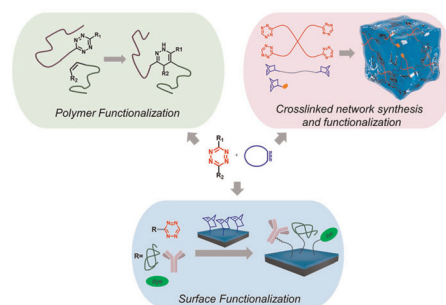
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Polym. Chem., 2024, **15**,
4196.

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*

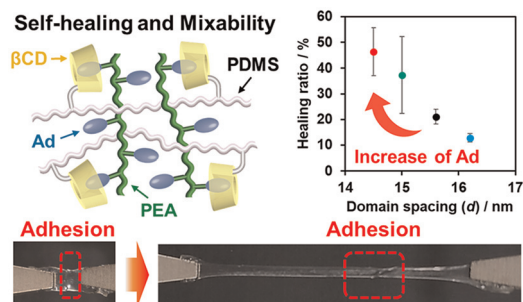


PAPERS

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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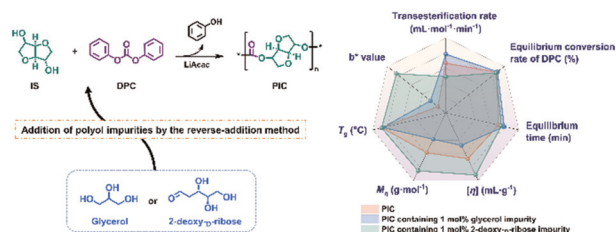


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4204

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

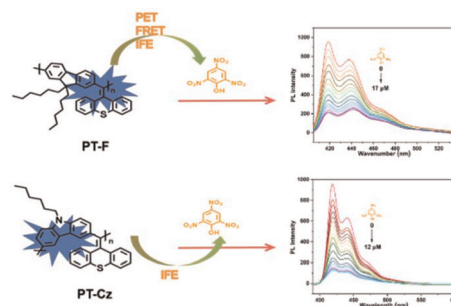
Mingfa Guo, Yanning Wang, Zhenguang Li, Jielin Xu, Qian Chen, Jing Wu* and Huaping Wang



4221

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

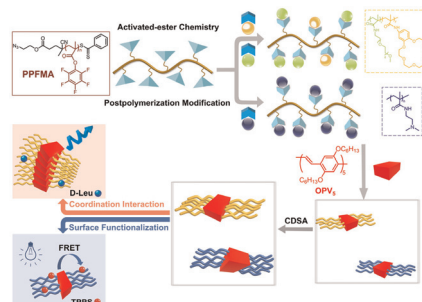
Rentuya Wu, Xiaosong Sun, Wenyue Dong,* Yanwei Li, Qian Duan* and Teng Fei



4231

A facile and versatile platform for preparing uniform π -conjugated nanofibers with controlled length and varying shells

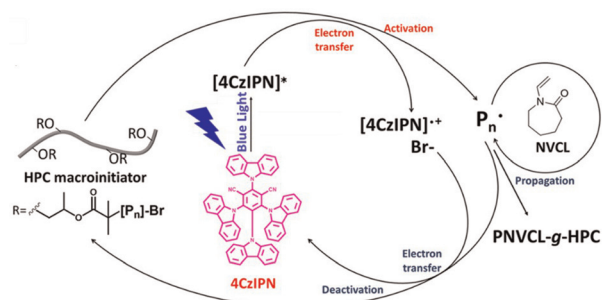
Bo Xiang, Hongluo Wu, Rang Chen, Xiaoyu Huang,* Guolin Lu and Chun Feng*



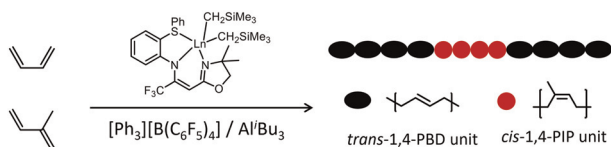
4244

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*



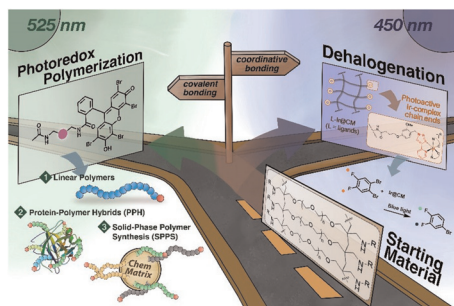
4255



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*

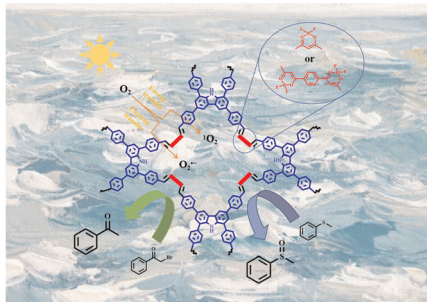
4264



Heterogeneous 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*

4281



Vinylene-linked fully conjugated porous organic polymers based on difluoroboron β -diketonate complexes for green and efficient photocatalysis

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

