

Polymer Chemistry

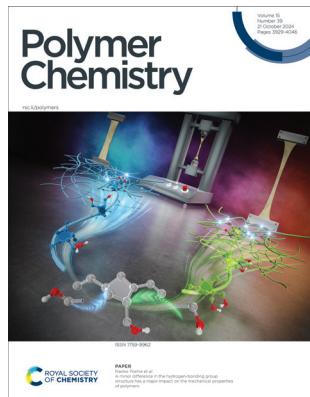
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IN THIS ISSUE

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Cover

See Naoko Yoshie et al.,
pp. 3967–3976.

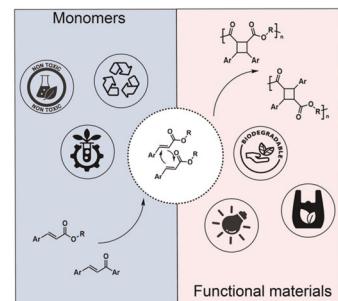
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from *Polym. Chem.*, 2024,
15, 3967.

REVIEW

3935

Truxinates and truxillates: building blocks for architecturally complex polymers and advanced materials

Sara El-Arid, Jason M. Lenihan, Aaron B. Beeler* and Mark W. Grinstaff*

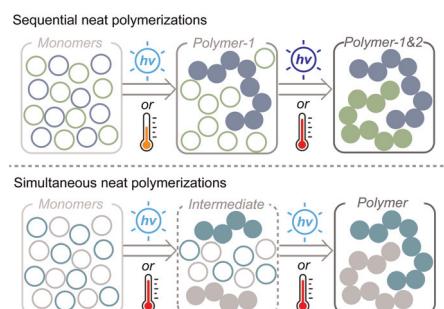


MINIREVIEW

3954

Controlled orthogonal reactions in neat polymerizations

Caleb J. Reese, Grant M. Musgrave and Chen Wang*



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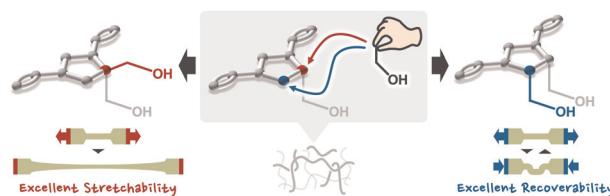


PAPERS

3967

A minor difference in the hydrogen-bonding group structure has a major impact on the mechanical properties of polymers

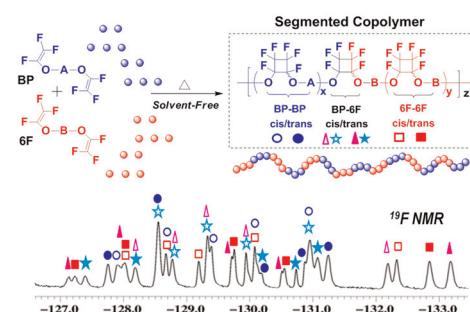
Shogo Ishizaka, Shintaro Nakagawa and Naoko Yoshie*



3977

One-pot single-step copolymerization of aromatic trifluorovinyl ethers toward perfluorocyclobutyl (PFCB) segmented copolymers

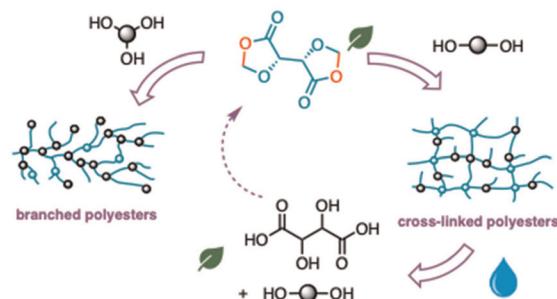
Jiyoung Park, Tugba G. Kucukkal, Jung-Min Oh, Steven J. Stuart, Stephen E. Creager, Gustavo Muñoz and Dennis W. Smith Jr.*



3983

Degradable branched and cross-linked polyesters from a bis(1,3-dioxolan-4-one) core

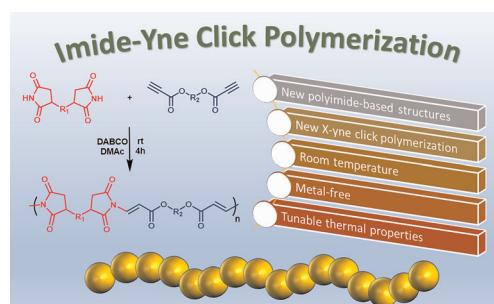
Orla Buensoz, Christina A. R. Picken, Paul Price, Christopher Fidge and Michael P. Shaver*



3991

Imide-yne click polymerization: a new and versatile tool for the toolbox of X-yne click polymerization

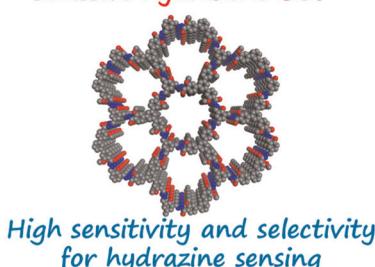
Oguzhan Aslanturk, Gokhan Sagdic, Emrah Cakmakci, Hakan Durmaz* and Ufuk Saim Gunay*



PAPERS

4005

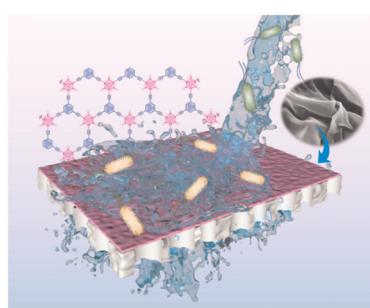
Emissive hydrazone COF



Emissive covalent organic frameworks with abundant interaction sites for hydrazine sensing

Yuwei Zhang, Ce Xing, Zhibin Tian, Wanyi Zhao, Yongfeng Zhi,* Lina Zhao* and He Li*

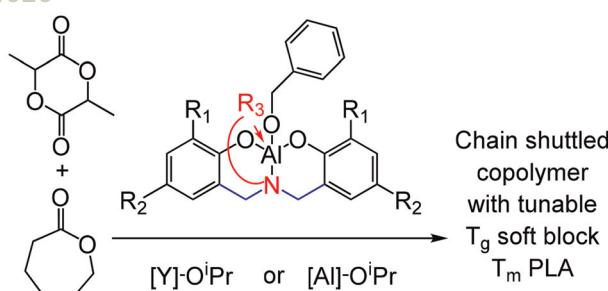
4011



Preparation and antibacterial performance of a conjugated microporous polymer nanosheet-based membrane

Hanxue Sun,* Hongyu Zhang, Rui Jiao, Fei Wang, Jiyan Li, Zhaoqi Zhu and An Li*

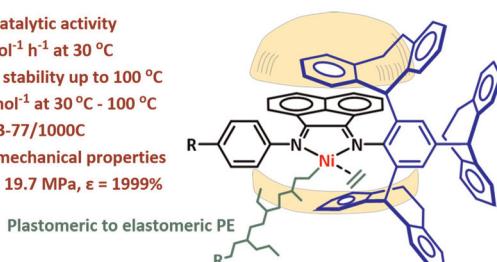
4020

Tuning the thermal properties of L-lactide/ ϵ -caprolactone chain shuttled copolymers via catalyst selection

Xavier Mosca, Lucas Perchery, Marc Bria, Julien De Winter, Gregory Stoclet, Till Bousquet, Lydie Pelinski, Fanny Bonnet* and Philippe Zinck*

4029

Exceptional catalytic activity
 $3.2 \times 10^7 \text{ g mol}^{-1} \text{ h}^{-1}$ at 30°C
 High thermal stability up to 100°C
 $M_w = 10^5 \text{ g mol}^{-1}$ at 30°C - 100°C
 Branches = 33-77/1000C
 Remarkable mechanical properties
 $\text{SR} = 66\%$, $\sigma = 19.7 \text{ MPa}$, $\epsilon = 1999\%$

Benzosuberyl installed "sandwich" type unsymmetrical α -diimine nickel precatalysts for synthesizing plastomeric to elastomeric polyethylene

Aibo Zhou, Rongyan Yuan, Qaiser Mahmood,* Shifang Yuan,* Yizhou Wang, Zexu Hu, Song Zou, Tongling Liang and Wen-Hua Sun*

