Open Access Article. Published on 19 November 2024. Downloaded on 10/31/2025 5:53:45 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

Polymer Chemistry

The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

rsc.li/polymers

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 1759-9962 CODEN PCOHC2 15(45) 4593–4684 (2024)

Cover
See Mengyao Zhang and Shengyu Dai, pp. 4627–4636.

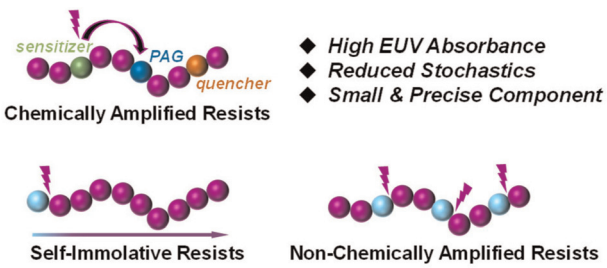
Image reproduced by permission of Shengyu Dai from *Polym. Chem.*, 2024, **15**, 4627.

REVIEW

4599

Emerging trends in the chemistry of polymeric resists for extreme ultraviolet lithography

Jie Cen, Zhengyu Deng* and Shiyong Liu*

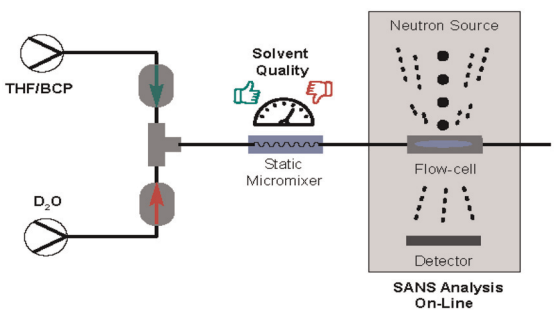


COMMUNICATIONS

4615

Solvent quality shape control in continuous flow block copolymer self-assembly

Axel-Laurenz Buckinx, Lakshani J. Weerarathna, Anna Sokolova and Tanja Junkers*



View Article Online

ROYAL SOCIETY OF CHEMISTRY

GOLD OPEN ACCESS

RSC Applied Polymers

The application of polymers, both natural and synthetic

Interdisciplinary and open access

rsc.li/RSCApplPolym

Fundamental questions
Elemental answers

Registered charity number: 207890

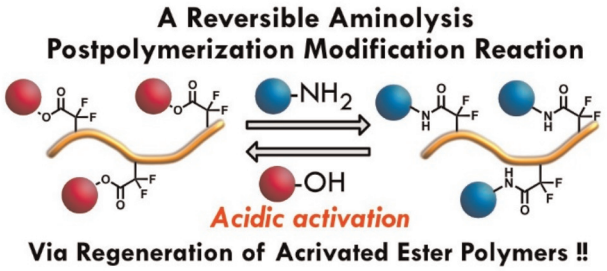
Open Access Article. Published on 19 November 2024. Downloaded on 10/31/2025 5:53:45 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

COMMUNICATIONS

4622

Reversible aminolysis: a new concept for postpolymerization modification

Koki Kasai, Hideki Amii and Ryohei Kakuchi*

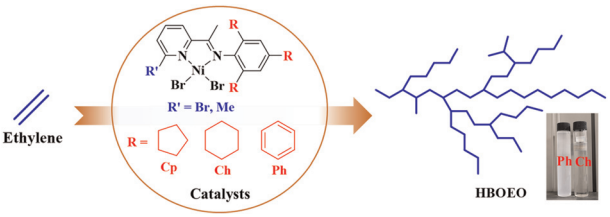


PAPERS

4627

Nickel-catalyzed direct synthesis of hyperbranched liquid oligoethylene

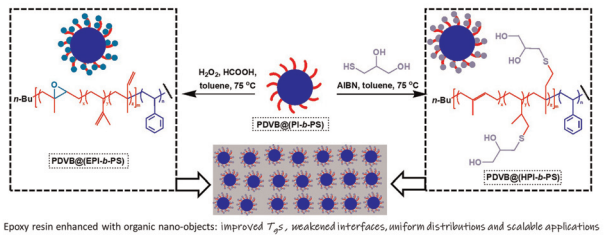
Mengyao Zhang and Shengyu Dai*



4637

Functionalization of nano-objects in living anionic polymerization-induced self-assembly and their use for improving thermal properties of epoxy resins

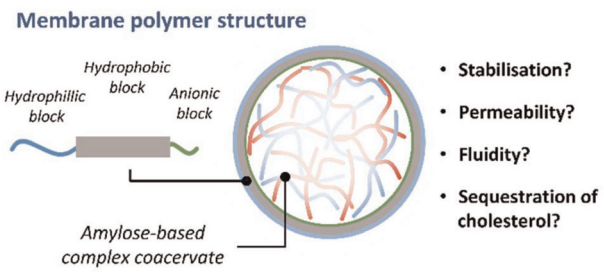
Guicun Guo, Jiali Wu, Jingwei Zhang, Peng Zhou, Ding Shen, Penghan Li and Guowei Wang*



4650

Control over membrane fluidity and biophysical properties of synthetic terpolymer stabilized complex coacervates

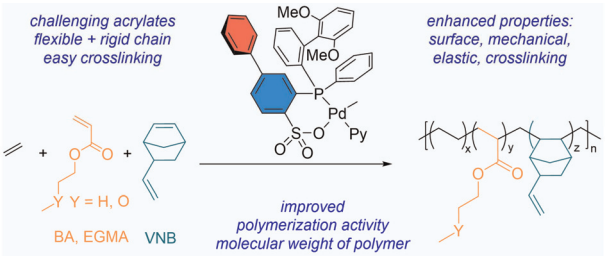
Sebastian Novosedlik, Alexander B. Cook, Tim J. F. M. Voermans, Henk M. Janssen and Jan C. M. van Hest*



Open Access Article. Published on 19 November 2024. Downloaded on 10/31/2025 5:53:45 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

PAPERS

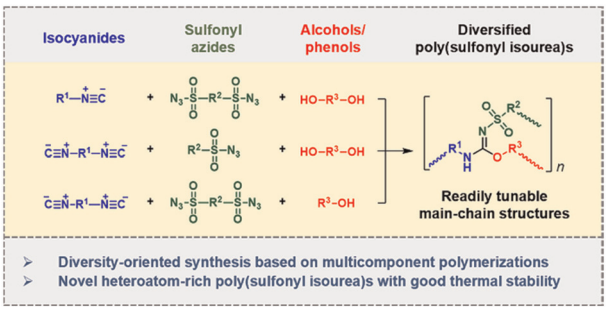
4662



Enhanced mechanical properties of acrylate and 5-vinyl-2-norbornene-based ethylene terpolymers: rational design and synthesis using remotely modulated phosphine–sulfonate palladium complexes

Yong-Qing Li, Gui-Ping Cao* and Yu-Cai Cao*

4673



Diversified synthesis of poly(sulfonyl isourea)s by multicomponent polymerizations of isocyanides, sulfonyl azides, and alcohols/phenols

Dongyang Fan, Fenggang Chen, Dong Wang, Ting Han* and Ben Zhong Tang*

This journal is © The Royal Society of Chemistry 2024