

# Polymer Chemistry

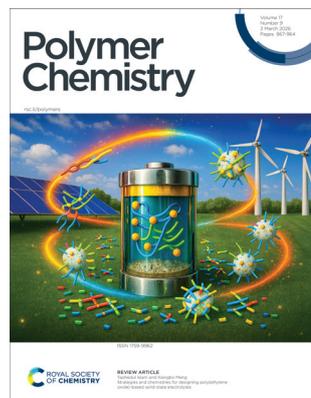
The home for the most innovative and exciting polymer chemistry, with an emphasis on polymer synthesis and applications thereof

[rsc.li/polymers](https://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 17(9) 867-964 (2026)



### Cover

See Taohedul Islam and Xiangbo Meng, pp. 873–896.

Image reproduced by permission of Taohedul Islam and Xiangbo Meng from *Polym. Chem.*, 2026, **17**, 873.

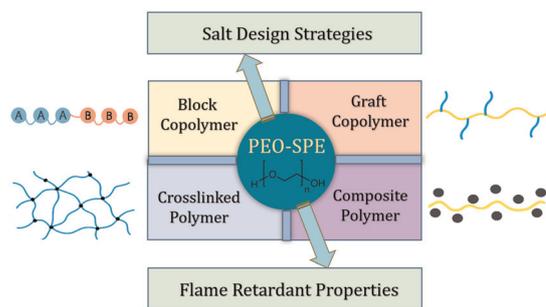
The author acknowledges the use of Google Gemini in creating the Earth image in the artwork.

## REVIEW

873

### Strategies and chemistries for designing poly(ethylene oxide)-based solid-state electrolytes

Taohedul Islam and Xiangbo Meng\*

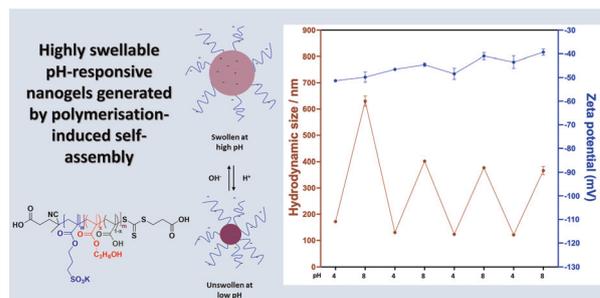


## COMMUNICATION

897

### Highly swellable pH-responsive nanogels generated by polymerisation-induced self-assembly

Xueyuan Li, Xiaojing Lu, Jian Tang, Francesca Patel-Burrows and Lee A. Fielding\*



# Royal Society of Chemistry approved training courses

Explore your options.  
Develop your skills.  
Discover learning  
that suits you.

**Courses in the classroom,  
the lab, or online**

Find something for every  
stage of your professional  
development. Search our  
database by:

- subject area
- location
- event type
- skill level

Members **get at least 10% off**

Visit [rsc.li/cpd-training](https://rsc.li/cpd-training)

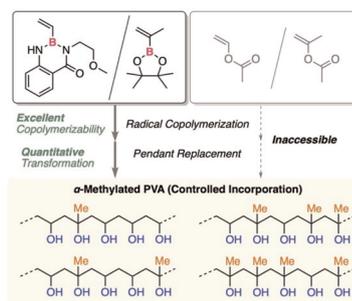


**SAVE  
10%**

903

### Property modulation of poly(vinyl alcohol)s via controlled incorporation of $\alpha$ -methyl groups using alkenylboron monomers

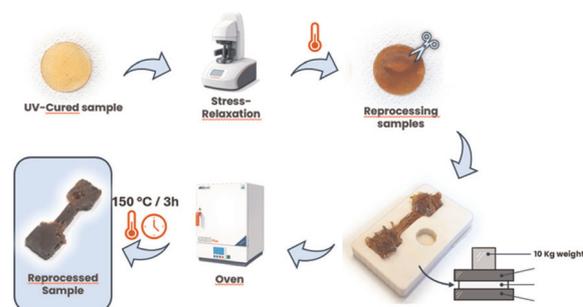
Hiroshi Suzuki, Tsuyoshi Nishikawa\* and Makoto Ouchi\*



911

### 3D printing with biobased epoxidized formulations based on vegetable oils with dynamic polymer network properties

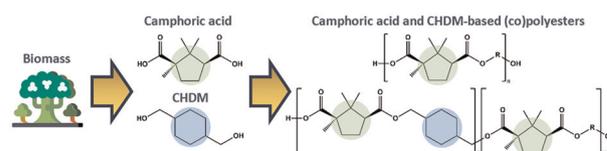
Matilde Porcarello,\* Ettore Greco, Alberto Cellai, Rafael Turra Alarcon, Elizabeth Rossegger and Marco Sangermano



923

### Synthesis and characterization of biobased (co) polyesters derived from cyclic monomers: camphoric acid and 1,4-cyclohexanedimethanol

Syaiful Ahsan, Fitrilia Silvianti, Cornelis Post, Vincent S. D. Voet, Rudy Folkersma, Jeffy Joji, Louis M. Pitet, Subin Damodaran, Katja Loos and Dina Maniar\*



937

### A low-dielectric, high-heat-resistant vinylbenzyl-terminated bisphenol A formaldehyde resin

Safia Haider, Xiaopeng Sun, Xiao Wu, Kai Wang, Yezhen Chen, Xinchao Dong and Zaijun Lu\*

