

# RSC Applied Polymers

The application of polymers,  
both natural and synthetic

Interdisciplinary and open access

[rsc.li/RSCApplPolym](https://rsc.li/RSCApplPolym)

Fundamental questions  
Elemental answers



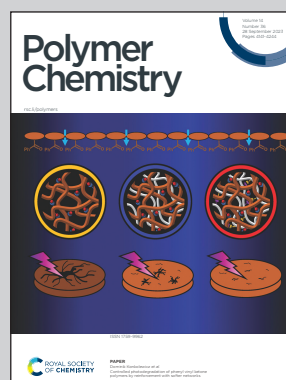


Highlighting research from Khamphree Phomphrai's catalysis laboratory, School of Molecular Science and Engineering, Vidyasirimedhi Institute of Science and Technology (VISTEC), Rayong, Thailand.

Synthesis of  $AB_x$  and  $AB_xC$  poly(ester-ether) polymers: polymer sequences and effects of  $B_x$  and  $B_xC$  units on thermal properties

$AB_x$  and  $AB_xC$  poly(ester-ether) was synthesized conveniently from cyclic anhydrides, epoxides, and THF (or 1,4-dioxane) using commercial  $Sn(Oct)_2$ . The  $B_x$  and  $B_xC$  sequences significantly affected the glass-transition temperature and increased polymer degradability.

#### As featured in:



See Khamphree Phomphrai *et al.*, *Polym. Chem.*, 2023, **14**, 4169.