

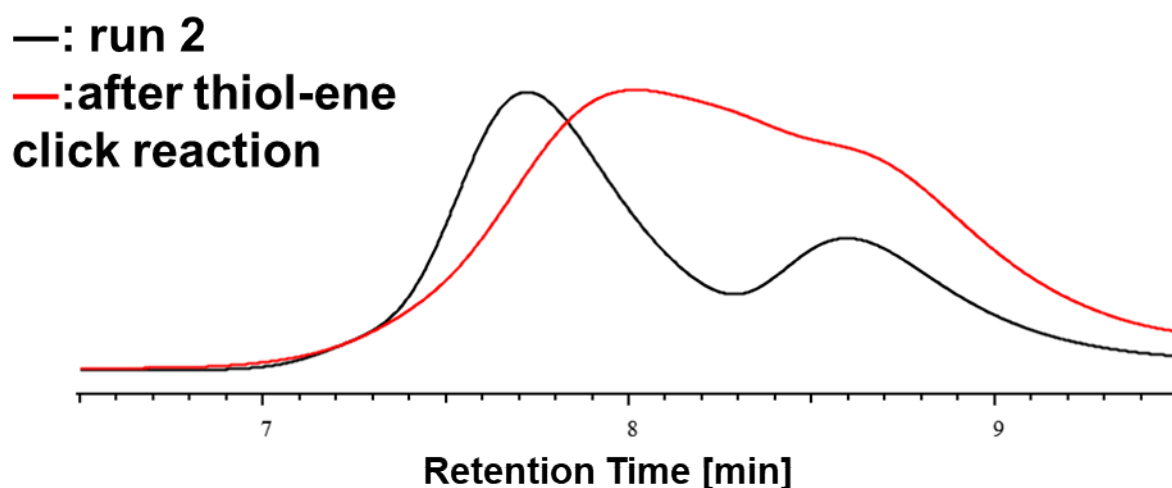
# Catenane Formation of a Cyclic Poly(alkyl sorbate) via Chain-Growth Polymerization Induced by an *N*-Heterocyclic Carbene and Ring-Closing Without Extreme Dilution

Hirotake Yato, Kota Oto, Akinori Takasu\*, Masahiro Higuchi

*Division of Soft Materials,*

*Department of Engineering, Nagoya Institute of Technology,*

*Gokiso-cho, Showa-ku, Nagoya 466-8555, Japan*



**Figure S1.** SEC traces of poly(ES) after thiol-ene click reaction (Thiol- ene click reaction with 1-dodecanethiol in Experimental Section).

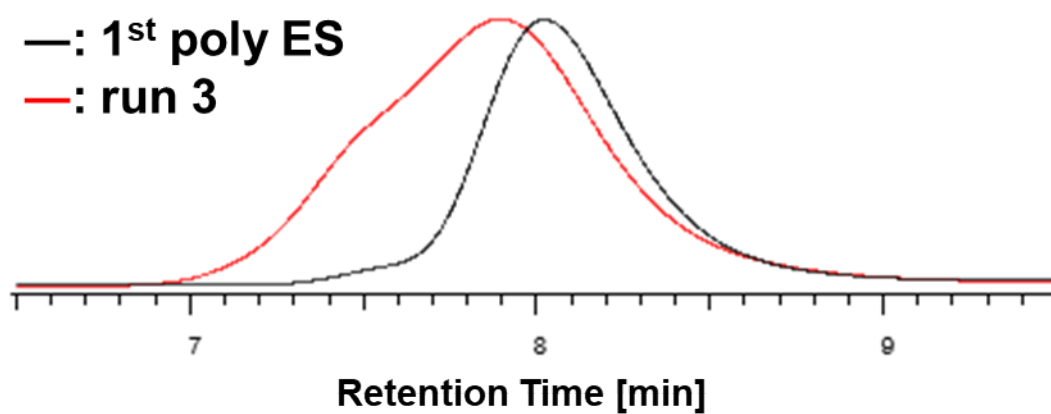


Figure S2. SEC traces of poly(ES) (Run 3 in Table 1).

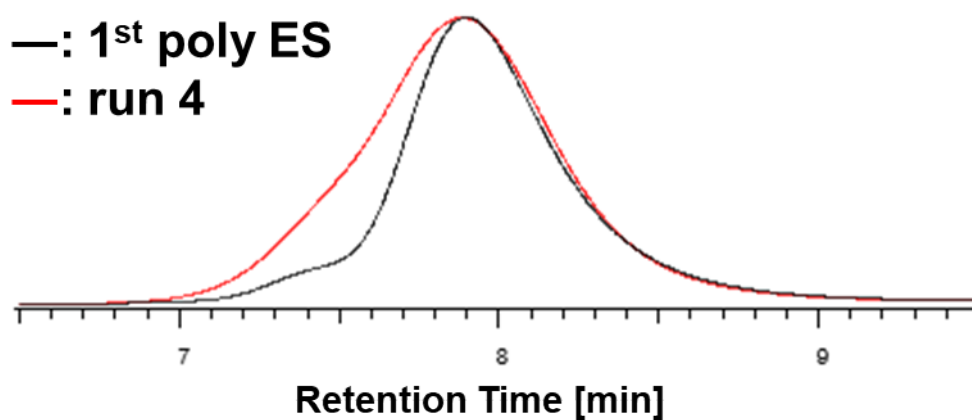


Figure S3. SEC traces of poly(ES) (Run 4 in Table 1).

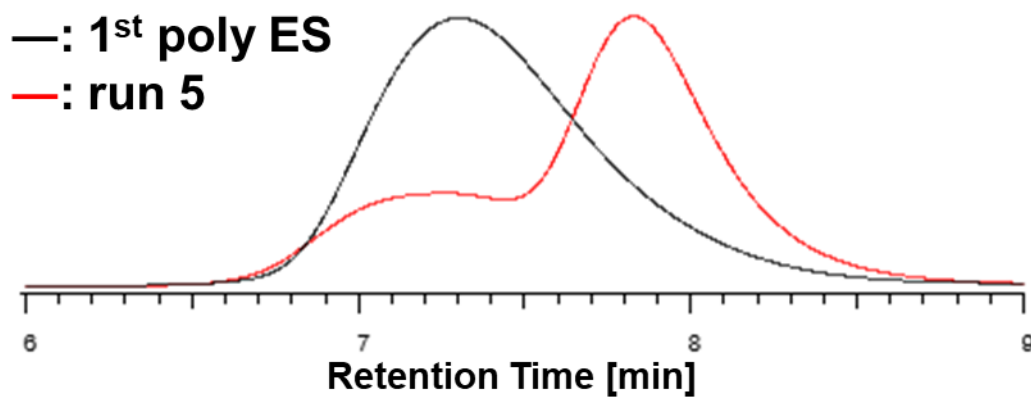
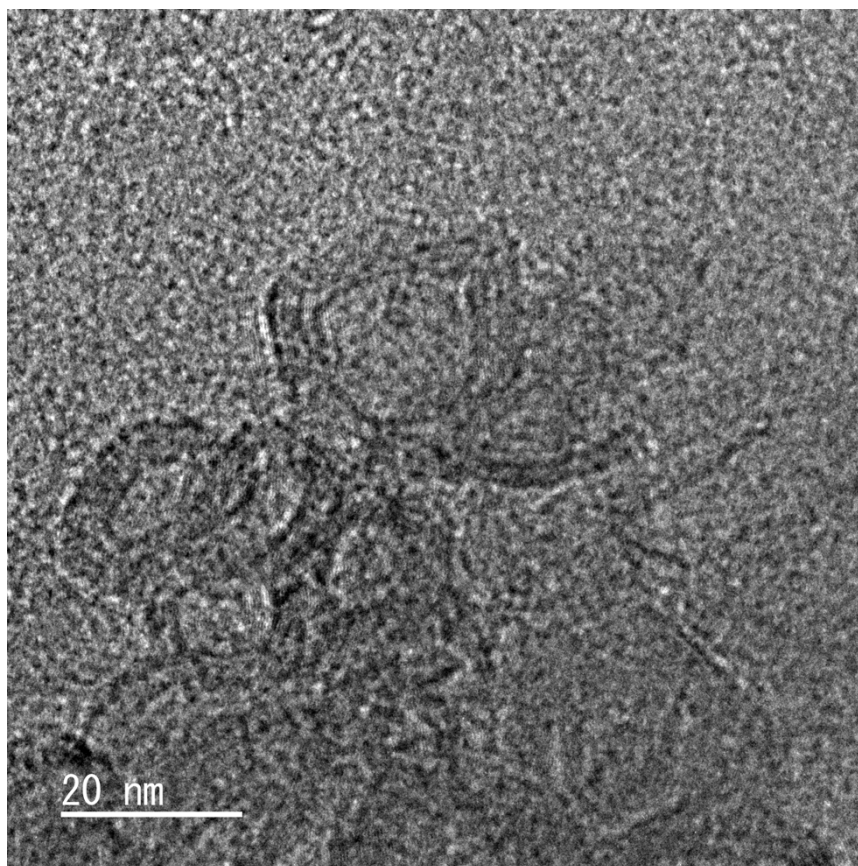
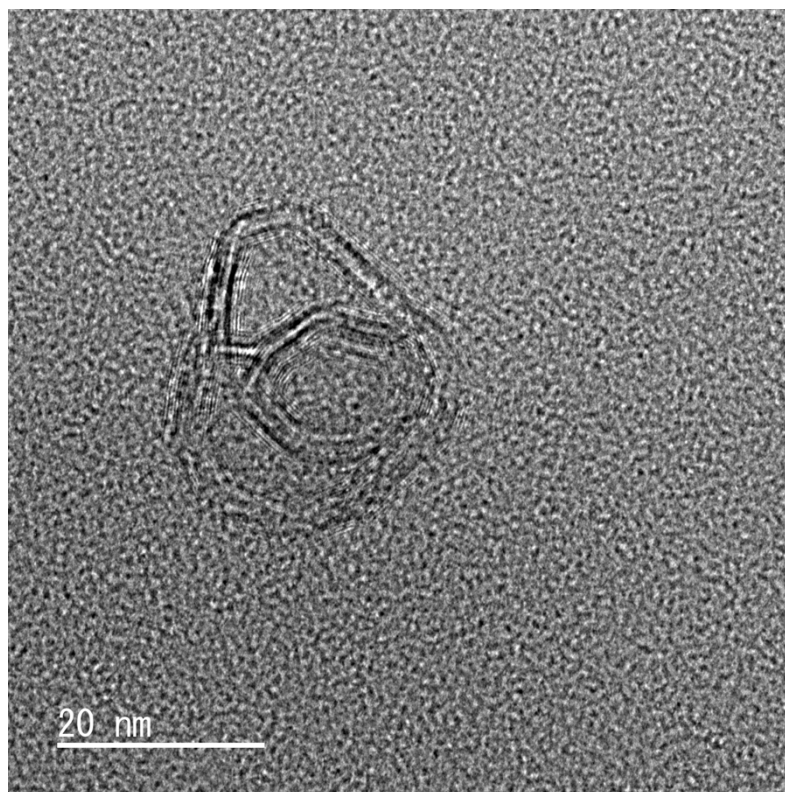


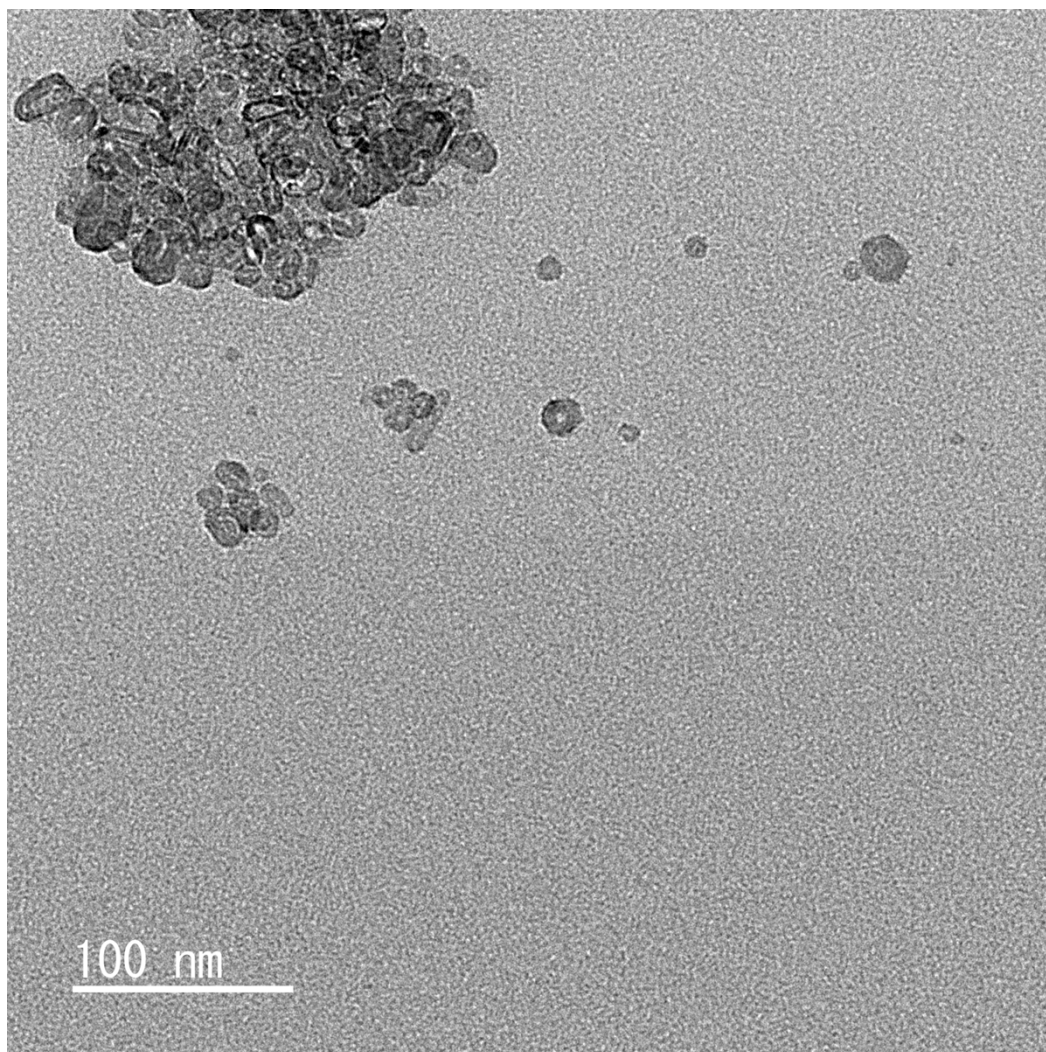
Figure S4. SEC traces of poly(ES) (Run 5 in Table 1).



**Figure S5.** TEM observation of catenanes (Run 3 in Table 1).



**Figure S6.** TEM observation of catenanes (Run 5 in Table 1).



**Figure S7.** The TEM image taken in the overall view (Run 1 in Table 1).