

YOSHIE LAB.

[Materials developed by using polymer dynamics]

International Research Center for Sustainable Materials

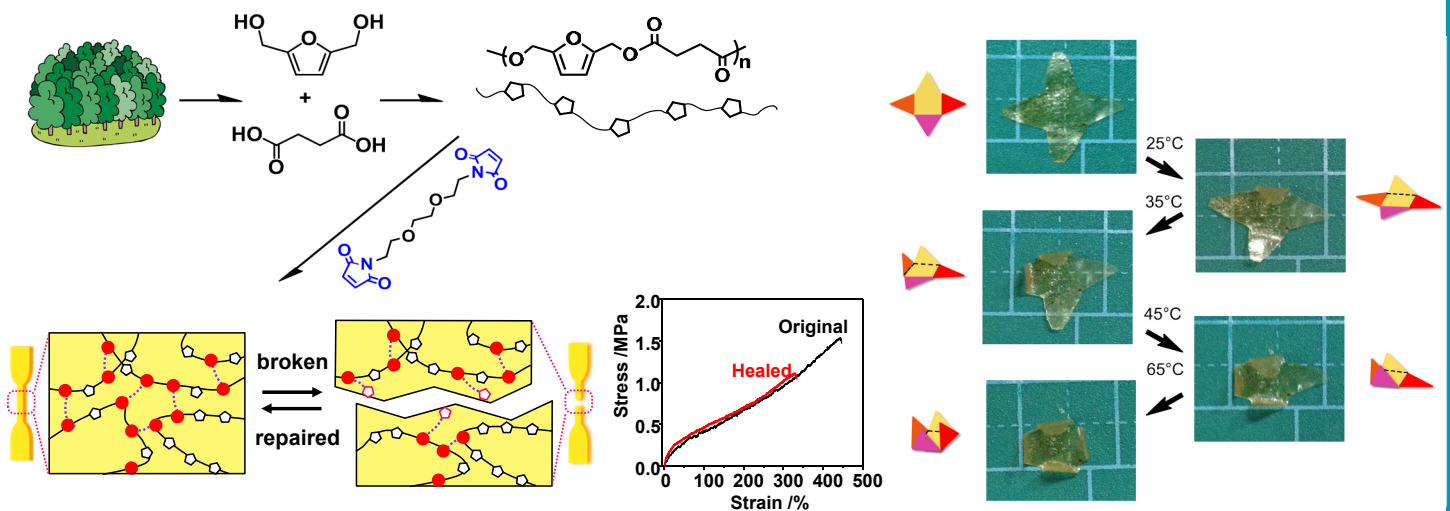
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Department of
Chemistry and
Biotechnology

Polymeric and Environmentally Conscious Materials

Polymers constructed by dynamic bonds

Polymers with novel environmental functions such as hard/soft conversion are developed by using dynamic bonds. Here shows a bio-based furan polymers with good self-healing ability and multi-shape memory.



Nano-ordered Patterns by Polymer Blends

We successfully obtained a long-range ordered nanoscopic lamellar morphology in polymer blends by using directional crystallization onto crystalline solvent. This method using polymer blends instead of block copolymers may serve as a low-cost facile way to produce nanoscale lamellar orientation in thin films.

