

Polymer Chemistry

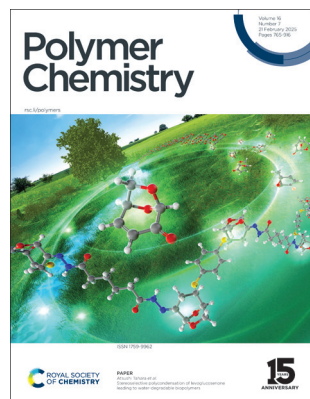
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Cover

See Atsushi Tahara *et al.*,
pp. 800–808.

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from *Polym. Chem.*, 2025,
16, 800.

OBITUARY

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**In memoriam Acad. Prof. Dr Bogdan Simionescu
(1948–2024)**

Valentin Victor Jerca



REVIEW

774

**Evolution and recent progress of non-spherical
chiral micro- and nanoparticles: preparation,
design, and advanced applications**

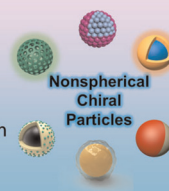
Pengpeng Li, Jiahao Zhang, Xinlong Liu, Xin Zhang,
Jinsong Ma, Guohua Sun,* Lianlong Hou* and
Saleem Raza*

NCPs: Preparation, Design, and Advanced Applications

Mechanical regulation

Self-assembly strategy

Polymerization approach



Drug release

CPL materials

Chiral separation

Asymmetric catalysis

RSC Advances

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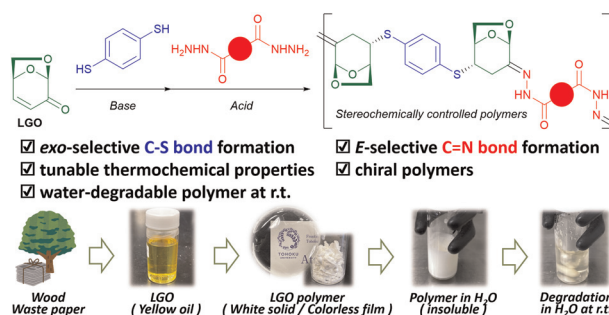
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PAPERS

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Stereoselective polycondensation of levoglucosenone leading to water-degradable biopolymers

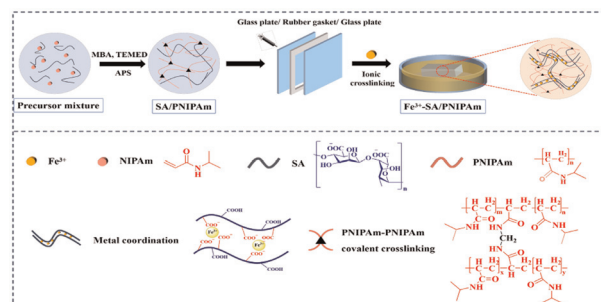
Atsushi Tahara,* Shogo Yashiro, Toshio Hokajo, Shinji Kudo, Yuta Yoshizaki, Tomohiro Konno and Takayuki Doi



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An ultrafast thermal-responsive, shape memory and solvent-driven Fe³⁺-alginate/poly(*N*-isopropyl acrylamide)-based hydrogel actuator

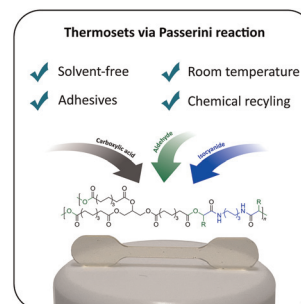
Hongcai Wang, Xiuqiong Chen, Yanan Bu, Ting Wu, Huiqiong Yan* and Qiang Lin



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Sunflower oil-based thermosets via the Passerini three-component reaction

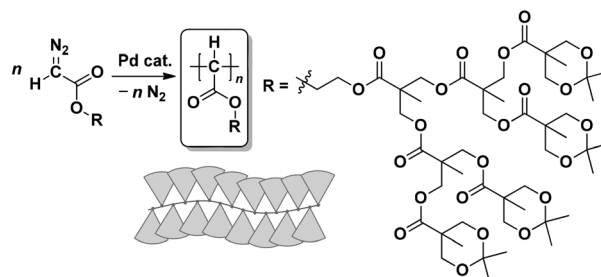
Luis Santos Correa, Silas Leidenheimer and Michael A. R. Meier*



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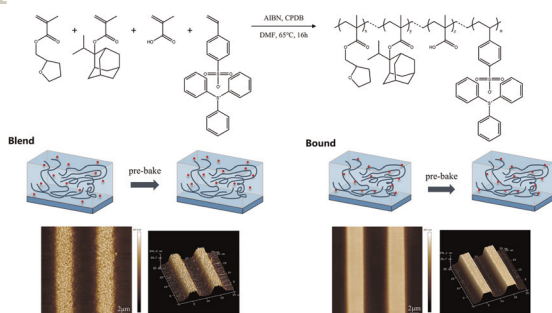
Synthesis of dendronized polymers through Pd-initiated C1 polymerization of diazoacetates with different generation ester-type dendron groups

Hiroaki Shimomoto,* Takumi Kubo, Kazunari Nishigawa, Hazuki Okuda, Makoto Ishimoto, Tomomichi Itoh and Eiji Ihara*



PAPERS

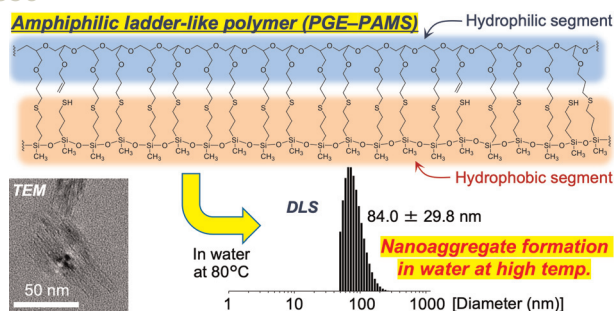
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Enhanced lithographic performance of polymer-bound PAG photoresists synthesized via RAFT polymerization

Nan Qin, Na Li and Xiang Gao*

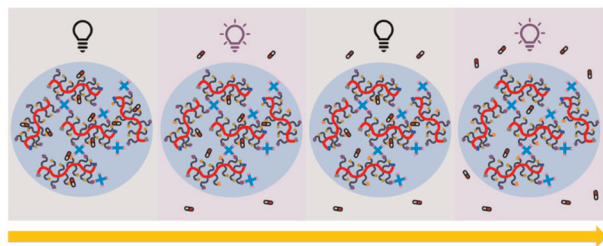
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Preparation and nanoaggregate formation ability in water of amphiphilic ladder-like polymers with parallelly linked hydrophilic polyether and hydrophobic polysiloxane chains

Shiori Matsuo, Sho Nonaka, Aki Mihata, Kazuhiro Shikinaka and Yoshiro Kaneko*

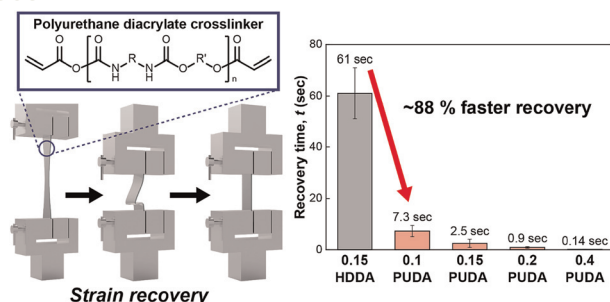
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Polyglyoxylamide hydrogels for the traceless stimulus-mediated release of covalently-immobilized drugs

Jue Gong, Burak Tavsanli and Elizabeth R. Gillies*

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Polyurethane diacrylate incorporated pressure-sensitive adhesives with enhanced strain recovery

Geonwoo Lee, Jinhoon Lee, Geonho Lee, Chihyun Seo, Myung-Jin Baek and Dong Woog Lee*

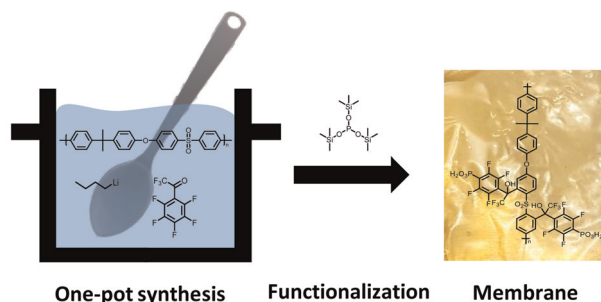


PAPERS

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Preparation of a new class of phosphonated hydrocarbon polymers based on polysulfone

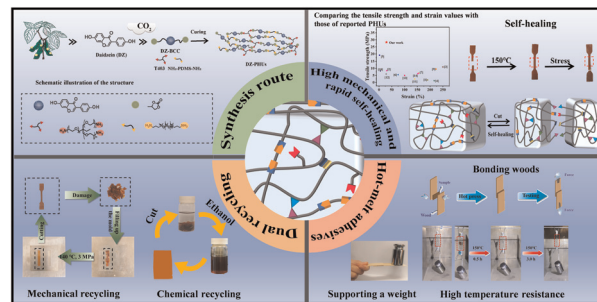
Philipp Martschin,* Timo Prölß, Andreas Hutzler, Simon Thiele and Jochen Kerres*



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High strength and rapid self-healing daidzein-based polyhydroxyurethanes for high temperature-resistant adhesives

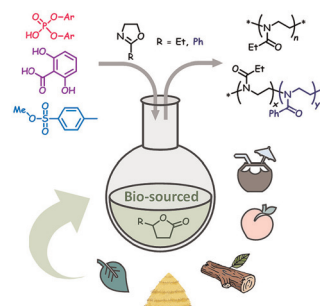
Jie Liu, Pengcheng Miao, Xuefei Leng,* Yidi Li, Wei Wang and Yang Li*



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Cationic ring-opening polymerization of 2-oxazolines in γ -butyrolactones using various initiators

Tingwei Chen, Chenke Zhao, Tao Lai and Junpeng Zhao*



CORRECTION

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Correction: Towards the synthesis of polythiazolines: a post-polymerization approach

Aikaterini Mathianaki, Aysha Kinjo Demeler, Adrian Dömling, Federico Ferrari, Frieda Clara M. Scheelje, Hilke Bahmann and Guillaume Delaittre*

