

Polymer Vol 128, 16 October 2017

Graphical abstracts

SPECIAL ISSUE: SUPRAMOLECULAR POLYMERS. GUEST EDITORS: TOSHIKAZU TAKATA, TAKEHARU HAINO, SHIKI YAGAI, ATSUSHI NORO, TONY JAMES AND TSUTOMU YOKOZAWA

Supramolecular polymers

Toshikazu Takata

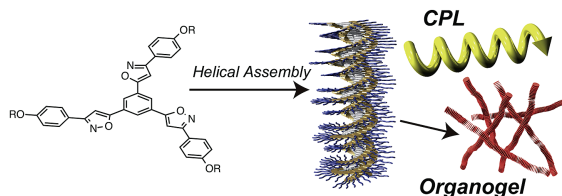
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SPECIAL ISSUE FEATURE ARTICLES

Supramolecular polymeric assemblies of π -conjugated molecules possessing phenylisoxazoles

Toshiaki Ikeda and Takeharu Haino*

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White-light emissive materials based on dynamic polymerization in supramolecular chemistry

Yuji Kubo* and Ryuhei Nishiyabu

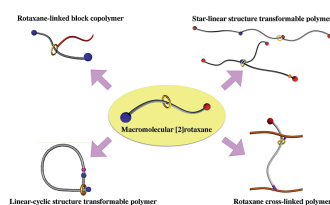
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Mechanically linked supramolecular polymer architectures derived from macromolecular [2]rotaxanes: Synthesis and topology transformation

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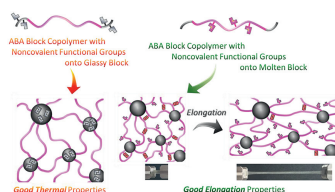
Daisuke Aoki and Toshikazu Takata*



Design and properties of supramolecular elastomers

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Takato Kajita, Atsushi Noro* and Yushu Matsushita

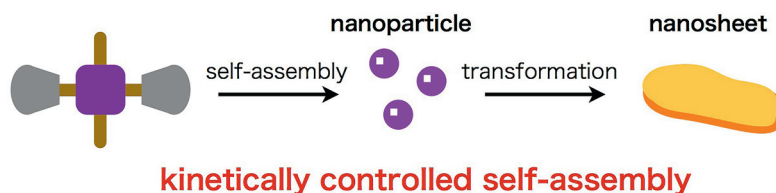


SPECIAL ISSUE PAPERS

Impact of a subtle structural difference on the kinetic behavior of metastable supramolecular assemblies

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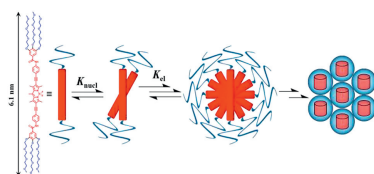
Tomoya Fukui, Masayuki Takeuchi* and Kazunori Sugiyasu**



Cooperative nanoparticle H-type self-assembly of a bolaamphiphilic BODIPY derivative in aqueous medium

pp. 317–324

Alexander Rödle, Martin Lambov, Christian Mück-Lichtenfeld, Vladimir Stepanenko and Gustavo Fernández*



A new amide-containing bolaamphiphilic BODIPY dye has been synthesized and fully characterized. The self-assembly studies in water reveal a highly cooperative self-aggregation mechanism and the formation of micelles, driven by π - π interactions, amide-based hydrogen bonds and the hydrophobic effect. A further agglomeration of individual micelles to spherical nanoparticles is induced by CH-O interactions between the ambient hydrophilic oligoethyleneglycol chains.

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