

Polymer Chemistry

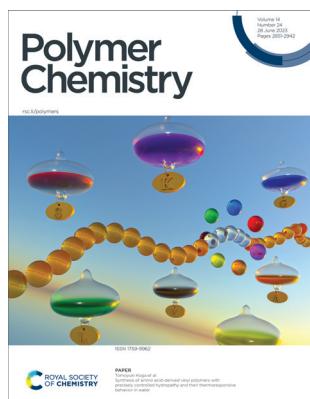
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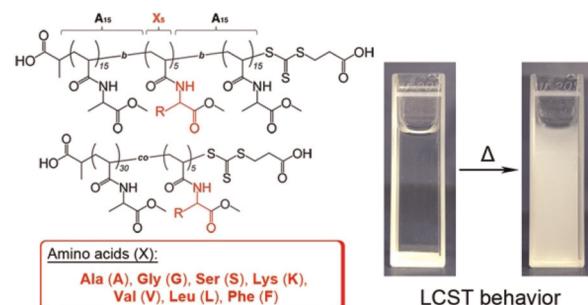
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Synthesis of amino acid-derived vinyl polymers with precisely controlled hydrophobicity and their thermoresponsive behavior in water

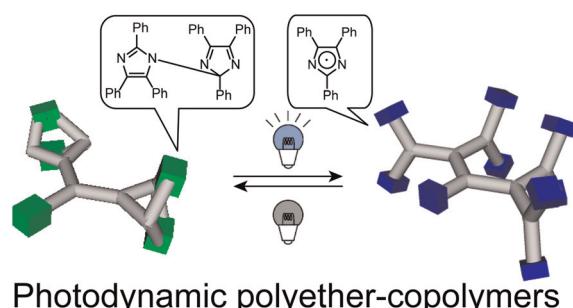
Atsushi Sawamoto, Shin-nosuke Nishimura,
Nobuyuki Higashi and Tomoyuki Koga*



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Synthesis of photodynamic intramolecularly crosslinked polyether-copolymers in-chain functionalized with hexaarylbiimidazoles

Minami Oka and Satoshi Honda*



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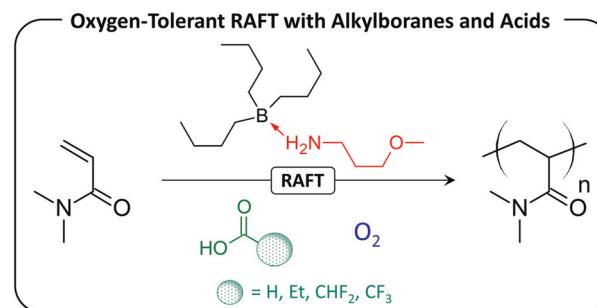


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Alkylborane initiated RAFT polymerization: impact of carboxylic acid deblockers

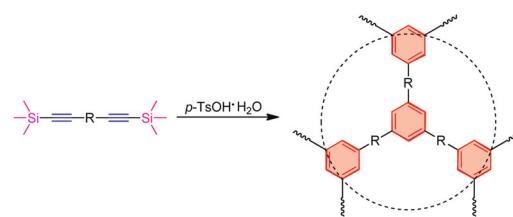
Olivia R. Wilson and Andrew J. D. Magenau*



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Metal-free polycyclotrimerization of trimethylsilyl-protected diynes: a facile strategy toward regioregular hyperbranched polyarylenes

Lu Wang, Yongliang Zhan, Linhui Zhang and Hongkun Li*

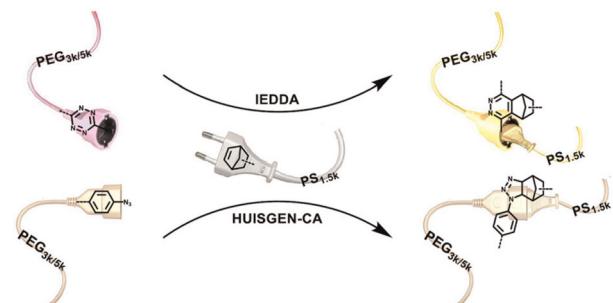


- ✓ Metal-free
- ✓ Regiospecificity
- ✓ Good solubility
- ✓ Easy availability
- ✓ High molecular weights
- ✓ Electrochemical activities
- ✓ Single component system
- ✓ High degrees of branching
- ✓ Aggregation-induced emission

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Tetrazine-norbornene versus azide-norbornene ligation: evaluating the toolbox for polymer–polymer coupling

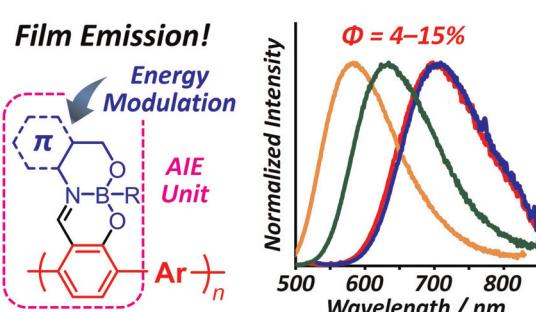
Steffen A. Busche, Stefan Peplau, Luc Zuhse, Désirée Steimer, Dennis D. August and Hans G. Börner*



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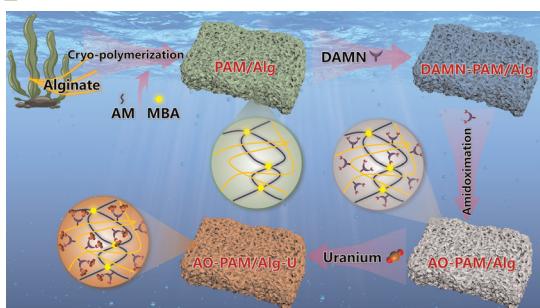
Selective modulation of energy levels of frontier orbitals in solid-state luminescent boron-fused azomethine polymers with orthogonal orientations to the main chains

Masayuki Gon, Misato Kanjo, Shunsuke Ohtani, Kazuo Tanaka* and Yoshiaki Chujo



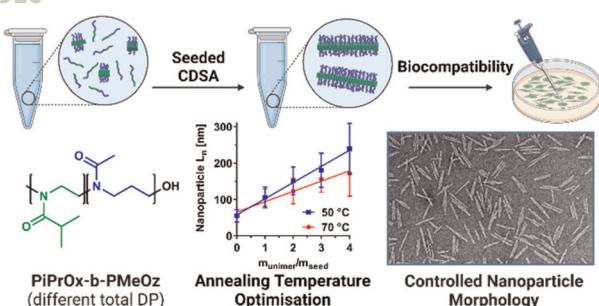
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Alginate-based supermacroporous hydrogels fabricated by cryo-polymerization for uranium extraction from seawater

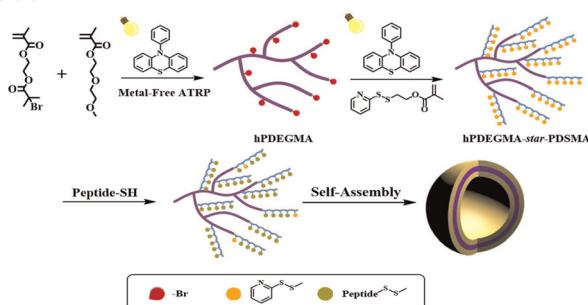
Xu Zhang, Dagang Li, Chang Cui, Shusen Chen, Meng Ji, Weiwu Tang, Le Yang, Fengqi Zhang, Jinying Li, Dongxiang Zhang* and Xiyan Xu*

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Length-tunable biocompatible block copolymer nanorods with a poly(2-methyl-2-oxazine)-corona via heat-induced crystallisation-driven self-assembly

Nicole M. Warne, Aaron Elbourne, Mai P. Tran, John R. Finnegan, Orlagh M. Feeney* and Kristian Kempe*

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Synthesis and self-assembly of hyperbranched multiarm copolymer peptide conjugates based on light-induced metal-free ATRP

Yue Zhang,* Rong Zhao, Yan Qin, Jianguo Yi, Jimin Zhang* and Xiaoxi Chen

