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# Cover

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#### **REVIEW**

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Rational design of polymer-based mRNA delivery systems for cancer treatment

Qianyu Wan, Yuji Sun, Xuanrong Sun\* and Zhuxian Zhou\*

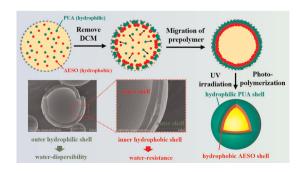


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One-step preparation of hydrophilic-hydrophobic asymmetric bilayer microcapsules via photopolymerization

Kaiyun Wu, Yongbin He, Jiangqing Liu, Guanqing Sun, Ren Liu and Jing Luo\*







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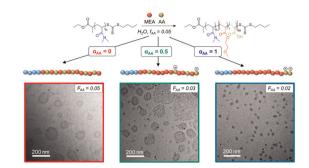
Fundamental questions
Elemental answers

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Effect of pH on the incorporation of acrylic acid units in the core of polymer nanoparticles prepared by PISA and on their morphology

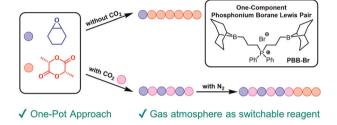
Clément Debrie. Noémie Coudert. Jean-Michel Guigner, Fanny Coumes, Clément Guibert, Simon Harrisson, François Stoffelbach, Olivier Colombani\* and Jutta Rieger\*



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A one-pot approach towards polycarbonate-bpolyester block copolymers via chemoselective polymerization catalyzed by a one-component phosphonium borane Lewis pair

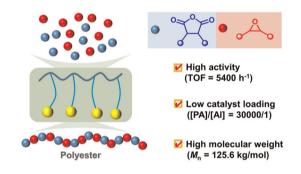
Yutao Li, Xinhui Kou, Xiaowu Wang,\* Lin Xia\* and Zhibo Li\*



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Highly active aggregate catalysts for the synthesis of high-molecular-weight polyesters via copolymerization of epoxides and cyclic anhydrides

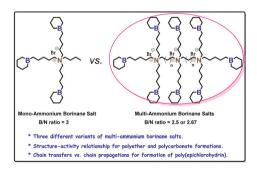
Liehang Yang, Shunjie Liu,\* Peixin Fan, Fengxiang Gao, Xuan Pang, Xuesi Chen and Xianhong Wang\*



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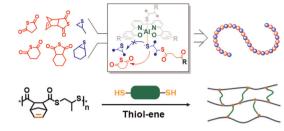
Exploring borinane-based multi-ammonium salts for epoxide (co)polymerization: insights into the structure-activity relationship

Vamshi K. Chidara, Yves Gnanou\* and Xiaoshuang Feng\*



# **PAPERS**

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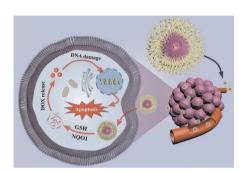
√Structural and functional diversity √Post-functionalization

√ High transparency (≥90 %) √ High refractive index (1.67)

Cyclic thioanhydride/episulfide copolymerizations catalyzed by bipyridine-bisphenolate aluminum/onium pair: approach to structurally and functionally diverse poly(thioester)s

Kaixiang Han, Mingqian Wang, Zhiqiang Ding, Zijing Zhou, Bin Wang\* and Yuesheng Li

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A dual-responsive polyurethane nanocarrier for drug release triggered by intracellular GSH and NQO1 enzyme

Shuai Yang, Jinhai Xie, Dongdong Wang, Shuangyu Tian, Yaodong Di and Lesan Yan\*