

Polymer Chemistry

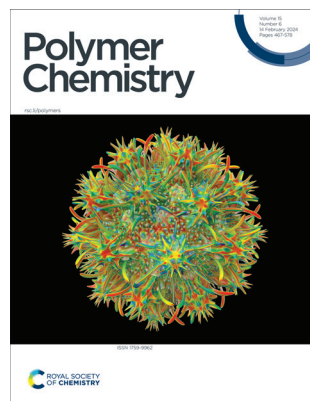
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IN THIS ISSUE

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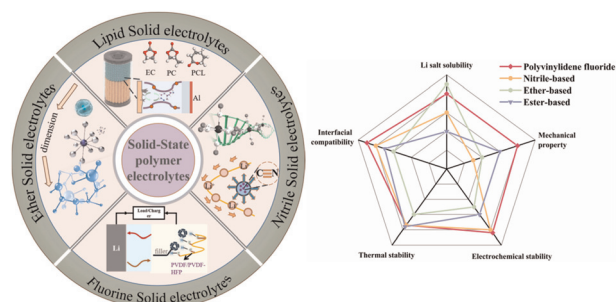
Cover
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REVIEW

473

Solid-state polymer electrolytes in lithium batteries: latest progress and perspective

Jingbo Mu, Shimin Liao, Linlin Shi, Bihai Su, Feng Xu, Zengcai Guo,* Hailing Li and Fangfang Wei*

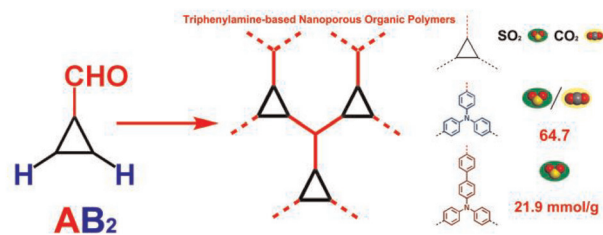


PAPERS

500

Synthesis of triphenylamine-based nanoporous organic polymers for highly efficient capture of SO₂ and CO₂

Jun Yan,* Yan Tan, Sihan Tong, JiangLi Zhu and Zefeng Wang*



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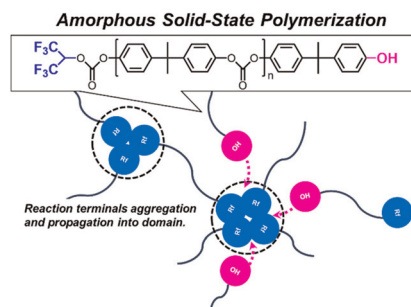
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Fundamental questions
Elemental answers

508

Fluorine-driven amorphous solid-state polycondensation: phosgene-free synthesis of high-molecular weight polycarbonate from fluorinated carbonate

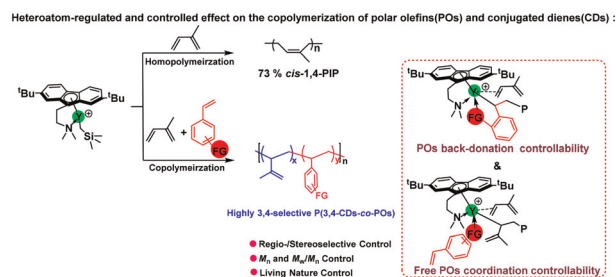
Taihei Taniguchi, Naoko Shirota, Takashi Okazoe,* Shin-ichi Matsuoka, Katsuhiro Yamamoto and Masato Suzuki*



516

Polar comonomers regulate and control the copolymerization of conjugated dienes and methoxystyrenes catalyzed by a CGC-type rare-earth metal catalyst

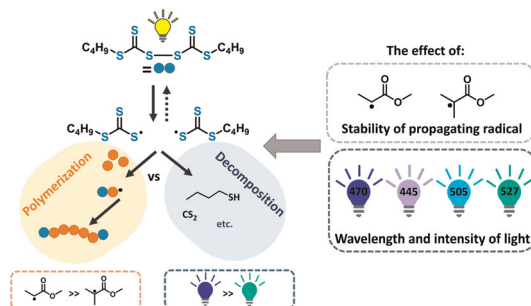
Zhijie Fu, Chuang Song, Yuanxia Qi, Jingting Pei, Xuanren Zhu, Yanan Zhao,* Yi Luo and Xiaofang Li*



522

Photoiniferter-RAFT polymerization mediated by bis(trithiocarbonate) disulfides

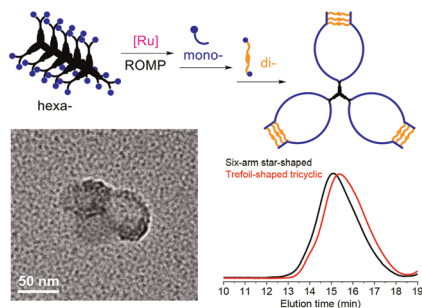
Magdalena A. Beres, Julia Y. Rho, Andrew Kerr, Timothy Smith and Sébastien Perrier*



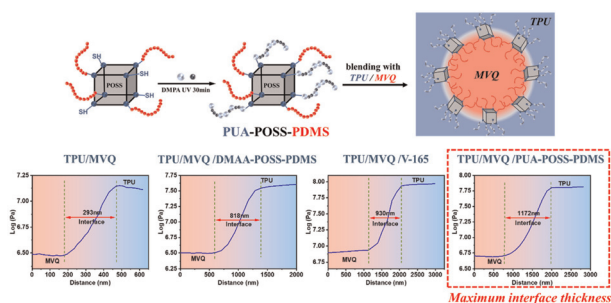
534

Efficient synthesis of trefoil-shaped tricyclic polymers by a ROMP-based blocking-cyclization technique

Hao Wang, Cuihong Ma, Zhiying Han, Xiaojuan Liao, Ruyi Sun* and Meiran Xie*



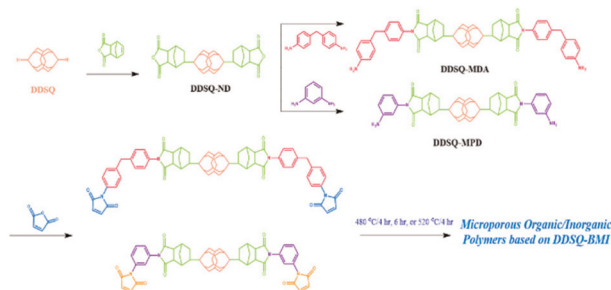
544



A stable amphiphilic hybrid nanoparticle compatibilizer constructed from polyhedral oligomeric silsesquioxane (POSS) for immiscible thermoplastic polyurethane/methyl vinyl silicone elastomer (TPU/MVQ) blends

Fuyue Tian, Jing Hu, Yanyan Song, Nanying Ning, Bing Yu* and Ming Tian*

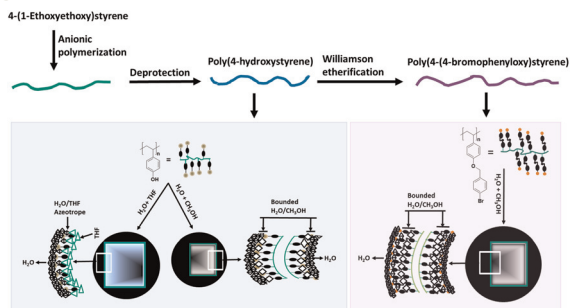
553



Enhanced thermal and porous properties of double-decker-shaped polyhedral silsesquioxane-bismaleimide (DDSQ-BMI) nanocomposites for high-performance CO₂ storage and supercapacitors

Zih-Yu Chen, Wei-Cheng Chen and Shiao-Wei Kuo*

565



Synthesis and self-assembly of the amphiphilic homopolymers poly(4-hydroxystyrene) and poly(4-(4-bromophenoxy)styrene)

Christopher M. Hurley, Mohammad Changez,* Megan E. Johnstone, Hilal Alrahbi, Mohammad Faiyaz Anwar, Dallas Donohoe, Nam-Goo Kang* and Jimmy Mays

