

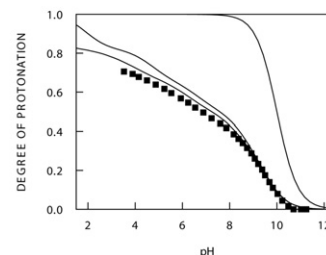
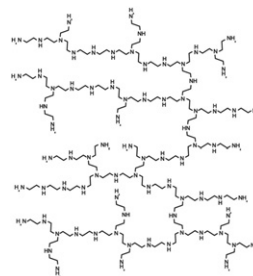
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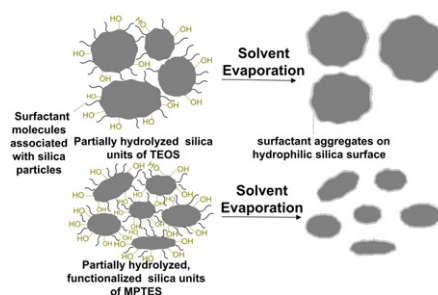
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POLYMER COMMUNICATIONS

Growing well-defined monodispersed silica in polyimide host membranes using a surfactant assisted sol-gel process

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Jorphin Joseph^a, Chi-Yung Tseng^a, Chun-Jern Pan^a, Hung-Ming Chen^a, Chi-Wen Lin^c, K. Chandrasekara Pillai^a, Bing-Joe Hwang^{a,b,*}^a Nanoelectrochemistry Laboratory, Department of Chemical Engineering, National Taiwan University of Science and Technology, Taipei 106, Taiwan, ROC^b National Synchrotron Radiation Research Center, Hsinchu 300, Taiwan, ROC^c Department of Chemical Engineering, National Yunlin University of Science and Technology, Yunlin 640, Taiwan, ROC

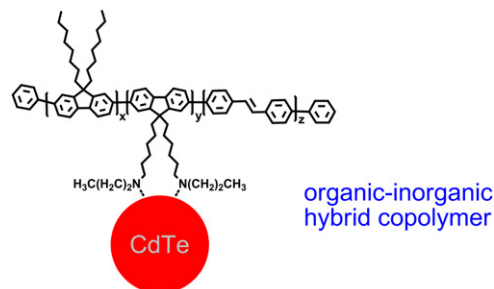
Synthesis and characterization of amino-functional, blue light-emitting copolymers and their composites with CdTe nanocrystals

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Ioannis Kanelidis^a, Victoria Elsner^a, Monique Bötzer^a, Maren Butz^a, Vladimir Lesnyak^b, Alexander Eychmüller^b, Elisabeth Holder^{a,*}

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^b Physical Chemistry/Electrochemistry, TU Dresden, Bergstrasse 66b, D-01062 Dresden, Germany



POLYMER PAPERS

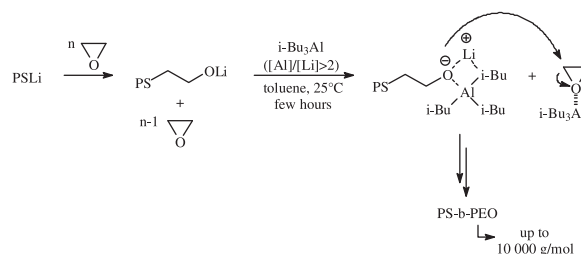
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Virginie Rejsek^a, Philippe Desbois^b, Alain Deffieux^a, Stéphane Carlotti^{a,*}

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^b BASF AG, Polymer Laboratory, D-67056 Ludwigshafen, Germany



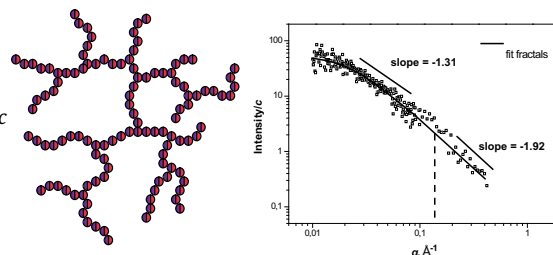
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pp 5680–5687

Daniel Gromadzki^{a,b,*}, Alexey Tereshchenko^a, Ričardas Makuška^a

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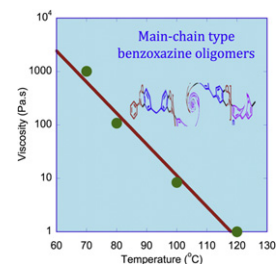


Main-chain benzoxazine oligomers: A new approach for resin transfer moldable neat benzoxazines for high performance applications

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Jia Liu, Tarek Agag, Hatsuo Ishida^{*}

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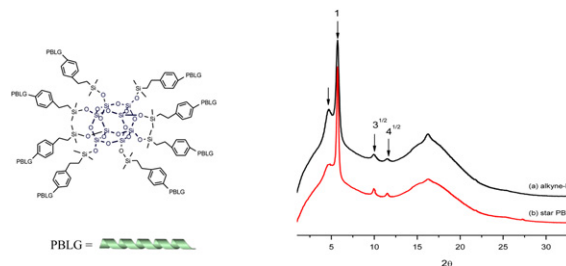


Control of peptide secondary structure on star shape polypeptides tethered to polyhedral oligomeric silsesquioxane nanoparticle through click chemistry

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Shiao-Wei Kuo^{*}, Hsin-Tung Tsai

Department of Materials and Optoelectronic Science, Center for Nanoscience and Nanotechnology, National Sun Yat-Sen University, Kaohsiung, Taiwan



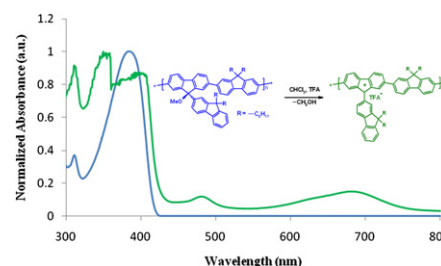
Synthesis and optical studies of conjugated polyfluorenyl cations

pp 5705–5711

Renchu Scaria^a, Klaus Muellen^b, Josemon Jacob^{a,*}

^a Centre for Polymer Science and Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, India

^b Max Planck Institute for Polymer Research, Ackermannweg 10, 55128 Mainz, Germany

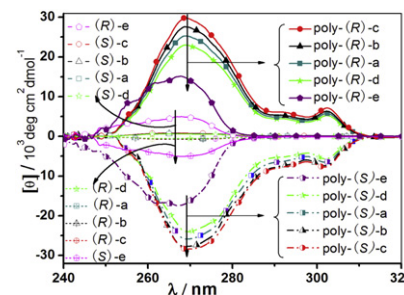


Single-handed helical polyethers synthesized via anionic polymerization of optically active 3-(9-alkylfluoren-9-yl)propene oxides

pp 5712–5718

Yunkai Sun, Nianfa Yang^{*}, Ji Liu, Jing Cao, Hang Gong

Key Laboratory of Environmentally Friendly Chemistry and Applications of Ministry of Education, College of Chemistry, Xiangtan University, Hunan 411105, PR China



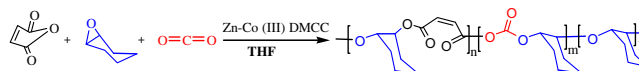
One-pot terpolymerization of CO₂, cyclohexene oxide and maleic anhydride using a highly active heterogeneous double metal cyanide complex catalyst

pp 5719–5725

Xue-Ke Sun^a, Xing-Hong Zhang^{a,*}, Shang Chen^b, Bin-Yang Du^a, Qi Wang^a, Zhi-Qiang Fan^a, Guo-Rong Qi^a

^a MOE Key Laboratory of Macromolecular Synthesis and Functionalization, Department of Polymer Science and Engineering, Zhejiang University, Hangzhou 310027, China

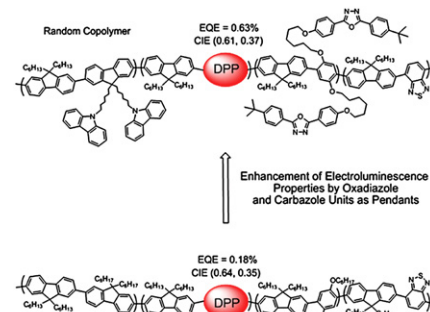
^b College of Chemistry and Chemical Engineering, Jishou University, Jishou, 416000, China



Catalytic activity: up to 12.7 kg polymer/g Zn;
Polyether content: only 2.9–4.3%;
No cyclic carbonate produced.

Enhancement of electroluminescence properties of red diketopyrrolopyrrole-doped copolymers by oxadiazole and carbazole units as pendants

pp 5726–5733

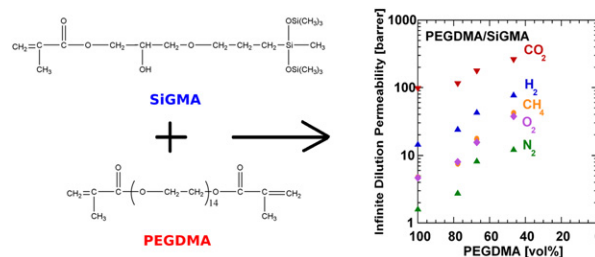
Yi Jin^a, Yanbin Xu^a, Zhi Qiao^a, Junbiao Peng^b, Baozheng Wang^b, Derong Cao^{a,*}^a School of Chemistry and Chemical Engineering, South China University of Technology, Guangzhou 510640, China^b Institute of Polymer Optoelectronic Materials and Devices, South China University of Technology, Guangzhou 510640, China

Gas permeability of cross-linked poly(ethylene-oxide) based on poly(ethylene glycol) dimethacrylate and a miscible siloxane co-monomer

pp 5734–5743

Victor A. Kusuma, Gabriella Gunawan, Zachary P. Smith, Benny D. Freeman^{*}

Center for Energy and Environmental Resources, Department of Chemical Engineering, University of Texas at Austin, Austin, TX 78758, USA

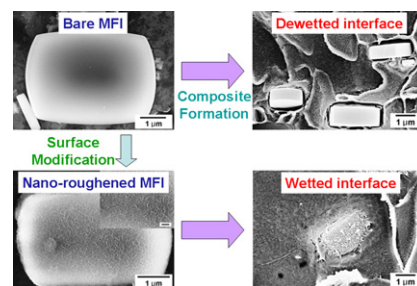


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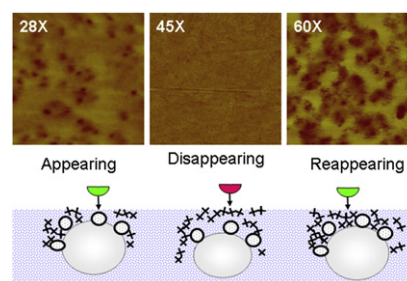
Jung-Hyun Lee, Pedro Zapata, Sunho Choi, J. Carson Meredith^{*}

School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, 311 Ferst Drive NW, Atlanta, GA 30332, USA



Processing dependence of surface morphology in condensation cured PDMS nanocomposites

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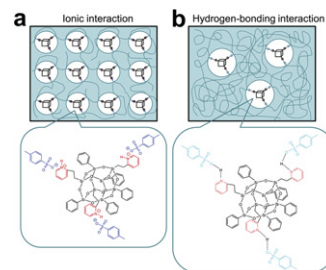
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Intermolecular interaction of supramolecular organic–inorganic hybrid composites of sulfonated polystyrene and oligomeric silsesquioxane possessing pyridyl groups

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Mitsuhiro Shibata^{*}, Ryosuke Horie, Wataru Yoneta

Department of Life and Environmental Sciences, Faculty of Engineering, Chiba Institute of Technology, 2-17-1, Tsudanuma, Narashino, Chiba 275-0016, Japan

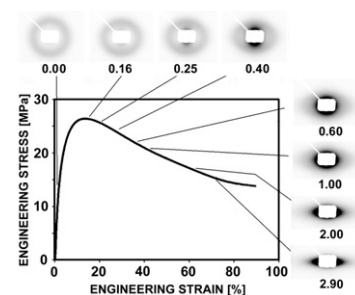


Cavitation during tensile drawing of annealed high density polyethylene

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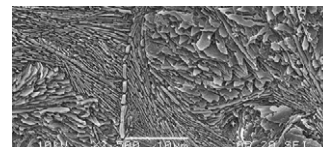
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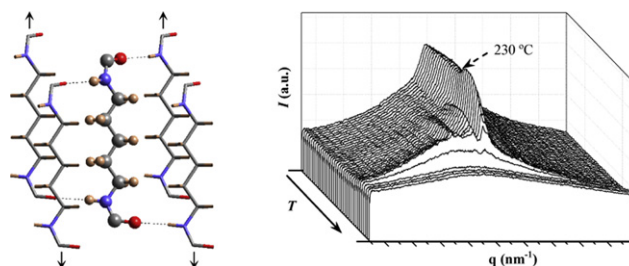


Brill transition and melt crystallization of nylon 56: An odd–even polyamide with two hydrogen-bonding directions

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Composition-dependent phase segregation and cocrystallization behaviors of blends of metallocene-catalyzed octene-LLDPE(D) and LDPE(H)

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Tae Joo Shin^a, Byeongdu Lee^b, Baik Shuk Seong^c, Young Soo Han^c, Chang-Hee Lee^c,
Hyun Hoon Song^d, Richard S. Stein^e, Moonhor Ree^{a,*}

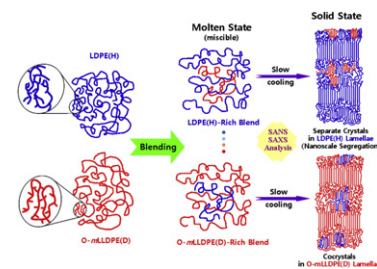
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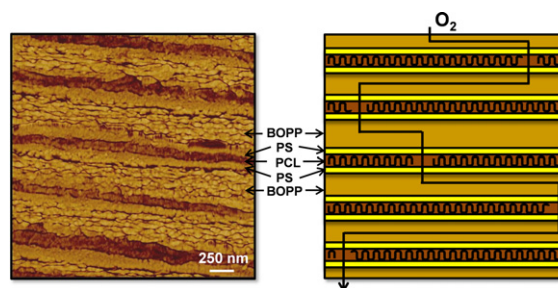


Nanolayer enhancement of biaxially oriented polypropylene film for increased gas barrier

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Yijian Lin, Anne Hiltner^{*}, Eric Baer

Department of Macromolecular Science and Engineering, Case Western Reserve University, Cleveland, OH 44106-7202, USA

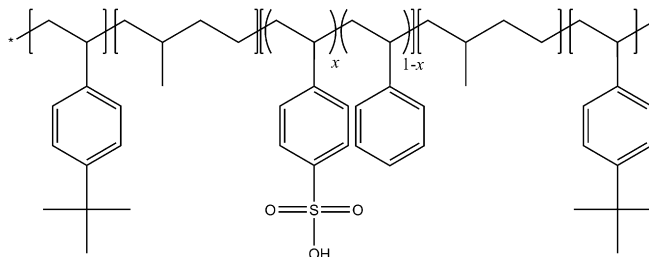


Characterization of a sulfonated pentablock copolymer for desalination applications

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1 University Station, Mail Code: C0400, Austin, TX 78712, USA

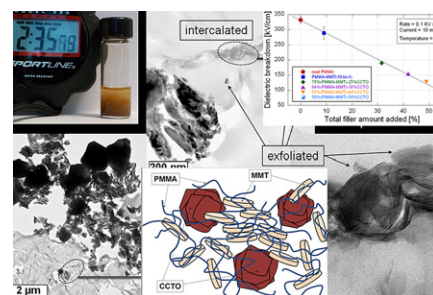


Multifunctional PMMA-Ceramic composites as structural dielectrics

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Eduard A. Stefanescu, Xiaoli Tan, Zhiqun Lin, Nicola Bowler, Michael R. Kessler^{*}

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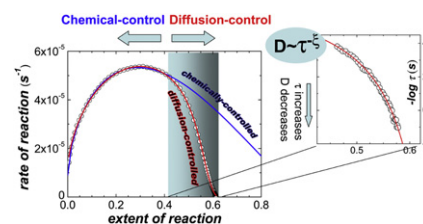
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Silvia Corezzi^{a,*}, Daniele Fioretto^a, Giovanni Santucci^b, Josè M. Kenny^b

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^b Materials Engineering Center, Università di Perugia, Loc. Pentima Bassa, I-05100 Terni, Italy

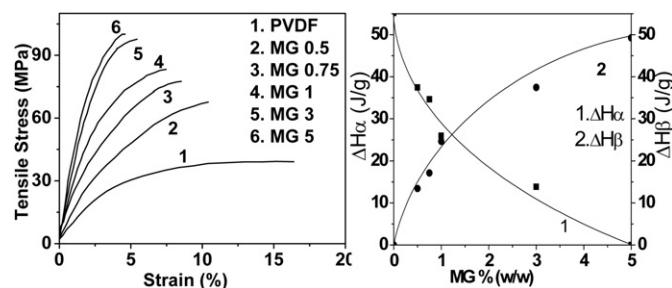


Physical and mechanical properties of poly(methyl methacrylate) -functionalized graphene/poly(vinylidene fluoride) nanocomposites: Piezoelectric β polymorph formation

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Rama K. Layek, Sanjoy Samanta, Dhruva. P. Chatterjee, Arun K. Nandi^{*}

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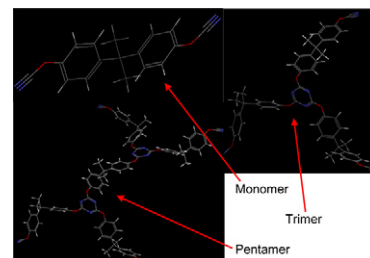


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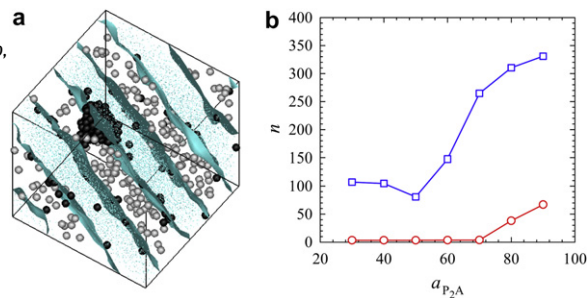
Ian Hamerton^{*}, Brendan J. Howlin, C. Robert Pratt

Chemical Sciences Division, Faculty of Health and Molecular Sciences, University of Surrey, Guildford, Surrey GU2 7XH, UK



Structure and particle aggregation in block copolymer-binary nanoparticle composites**pp 5869–5882**

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