

Polymer Vol. 51, No. 6, 11 March 2010

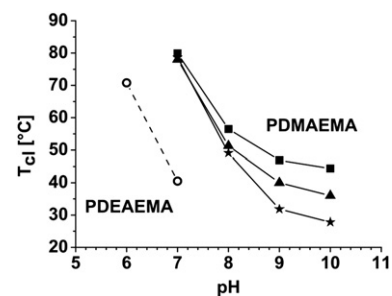
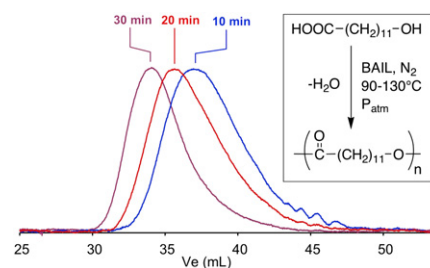
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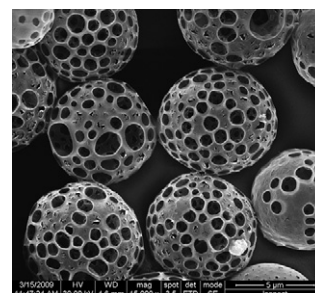
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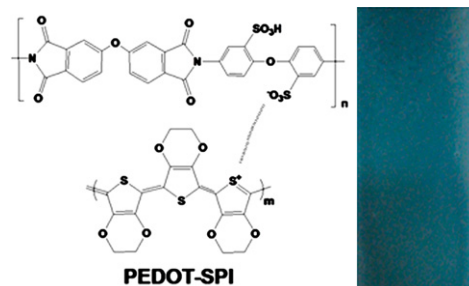
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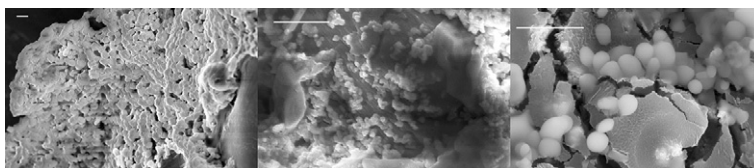
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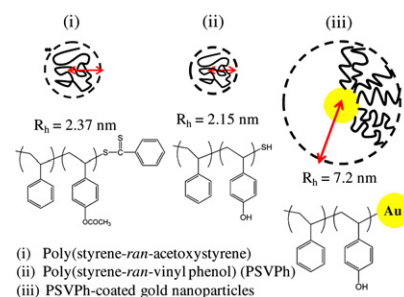
Chang-Uk Lee^a, Debashish Roy^d, Brent S. Sumerlin^d, Mark D. Dadmun^{b, c, *}

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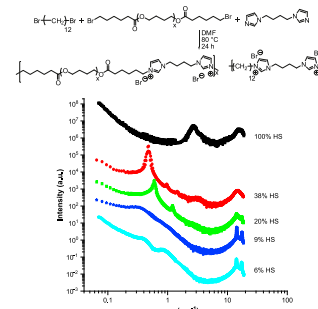
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Sharlene R. Williams^a, David Salas-de la Cruz^b, Karen I. Winey^c, Timothy E. Long^{a,*}

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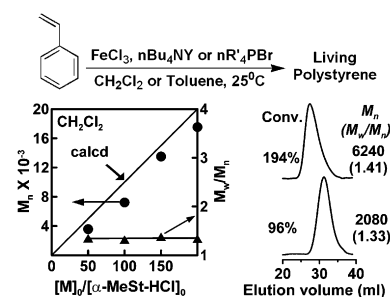
^c Department of Materials Science and Engineering, University of Pennsylvania, Philadelphia, PA 19104, USA



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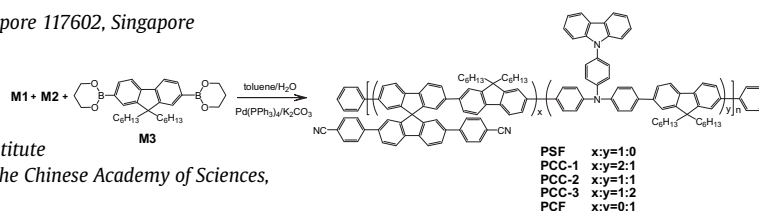
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^b Department of Chemistry, Lab for Advanced Materials, East China University of Science and Technology, 130 Meilong Road, Shanghai 200237, People's Republic of China

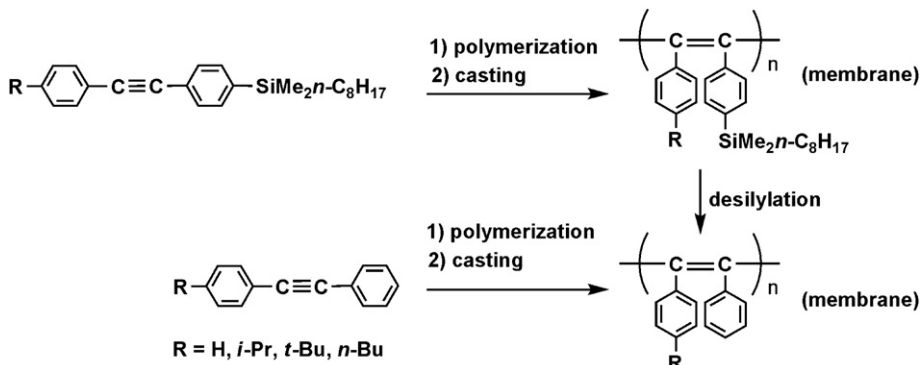
^c State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Graduate School of the Chinese Academy of Sciences, Changchun 130022, People's Republic of China



Novel poly(diphenylacetylene)s with both alkyl and silyl groups as gas permeable membranes: Synthesis, desilylation, and gas permeability pp 1279–1284

Aiko Takeda, Toshikazu Sakaguchi*, Tamotsu Hashimoto

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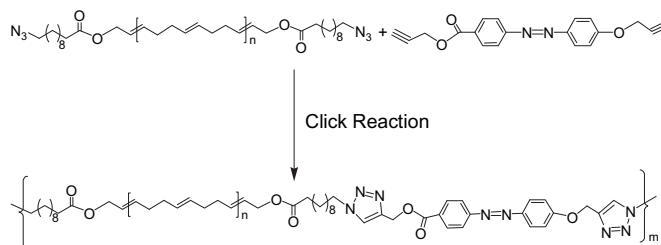


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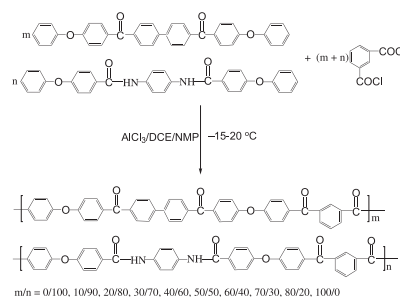
Liang Ding, Liya Zhang, Dan Yang, Wei Huang, Meiran Xie*, Yiqun Zhang

Department of Chemistry, East China Normal University, Shanghai 200062, China



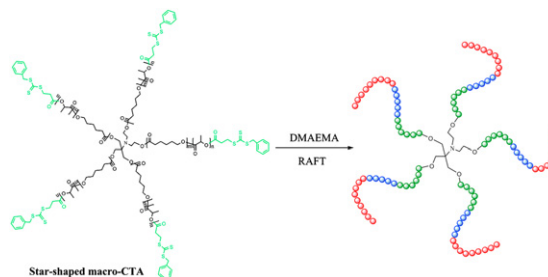
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Mingzhong Cai^{a,*}, Meihua Zhu^a, Pingping Wang^b, Caisheng Song^a^a Department of Chemistry, Jiangxi Normal University, Nanchang 330022, PR China^b Department of Chemistry, Jiujiang University, Jiujiang 332000, PR China

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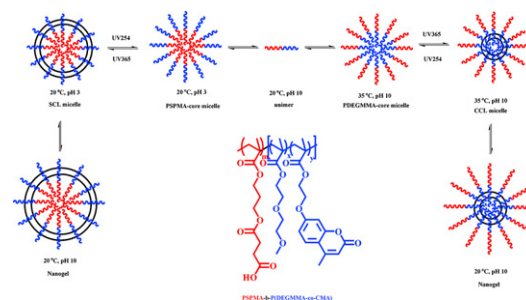
Jianbo Li^a, Jie Ren^{a,b,*}, Yang Cao^a, Weizhong Yuan^a^a Institute of Nano- and Bio-polymeric Materials, School of Material Science and Engineering, Tongji University, Shanghai 200092, PR China^b Key laboratory Advanced Civil Engineering Materials, Ministry of Education, School of Material Science and Engineering, Tongji University, Shanghai 200092, PR China

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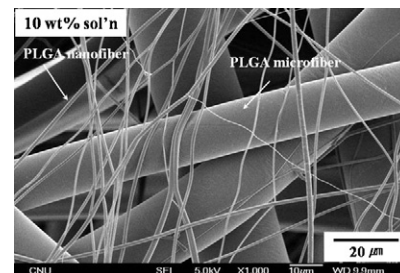
Qiao Jin, Xiangsheng Liu, Gongyan Liu, Jian Ji*

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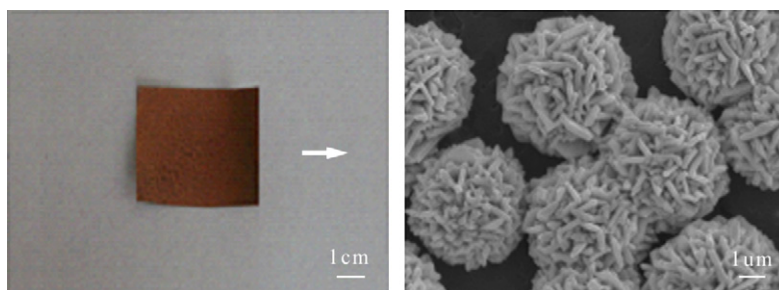


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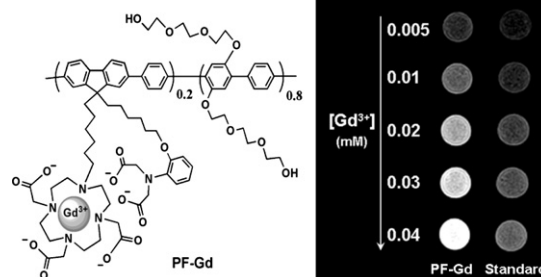
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Sung Jin Kim^a, Da Hyun Jang^b, Won Ho Park^{a,**}, Byung-Moo Min^{b,*}^a Department of Advanced Organic Materials and Textile System Engineering, and BK21 FTIT, Chungnam National University, Daejeon 305-764, South Korea^b Department of Oral Biochemistry and Program of Craniomaxillofacial Reconstruction Science, Dental Research Institute, BK21 CLS, and IBEC, Seoul National University School of Dentistry, 28 Yeonkun-Dong, Chongno-Ku, Seoul 110-749, South Korea**Gold microspheres with hierarchical structure/conducting polymer composite film: Preparation, characterization and application as catalyst**

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Youyi Xia^{a,b}, Zhiquan Shi^a, Yun Lu^{a,*}^a Department of Polymer Science and Engineering, State Key Laboratory of Coordination Chemistry, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210093, PR China^b Department of Polymer Science and Engineering, School of Chemistry and Chemical Engineering, Anhui University of Technology, Maanshan 243002, PR China**Gadolinium(III) chelated conjugated polymer as a potential MRI contrast agent**

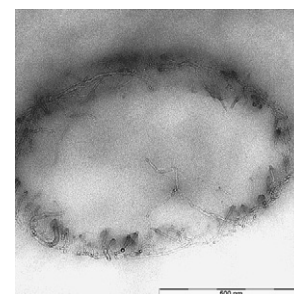
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Qingling Xu^a, Litao Zhu^b, Minghui Yu^a, Fude Feng^a, Lingling An^a, Chengfen Xing^a, Shu Wang^{a,*}^a Beijing National Laboratory for Molecular Science, Key Laboratory of Organic Solids, Institute of Chemistry, Chinese Academy of Sciences, No. 2 Zhongguancun North First Street, Beijing 100190, PR China^b State Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing 100875, PR China**Localization of carbon nanotubes at the interface in blends of polyamide and ethylene–acrylate copolymer**

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Design and stabilization of block copolymer micelles via phenol–pyridine hydrogen-bonding interactions

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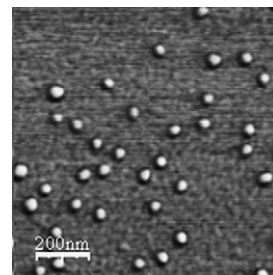
Alaitz Ruiz de Luzuriaga^a, Iñaki García^{a,c}, David Mecerreyes^a, Agustin Etxeberria^b, José A. Pomposo^{d,*}

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In-situ fabrication of polyacrylate–silver nanocomposite through photoinduced tandem reactions involving eosin dye

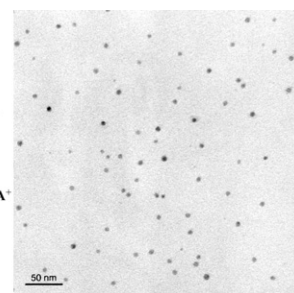
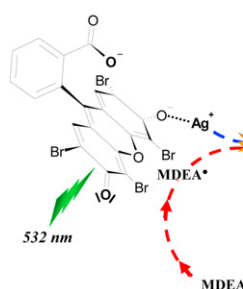
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Positron annihilation study on thin-film composite pervaporation membranes: Correlation between polyamide fine structure and different interfacial polymerization conditions

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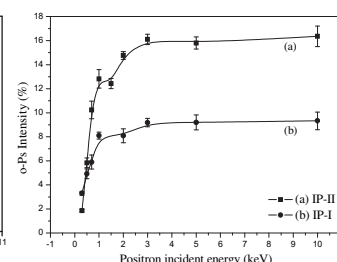
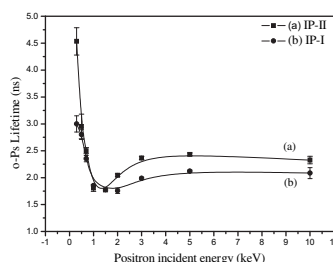
Shu-Hsien Huang^{b,**}, Wei-Song Hung^a, Der-Jang Liaw^c, Hui-An Tsai^d, George J. Jiang^b, Kueir-Rarn Lee^{a,*}, Juin-Yih Lai^a

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Optical and thermal properties of methyl methacrylate and pentafluorophenyl methacrylate copolymer: Design of copolymers for low-loss optical fibers for gigabit in-home communications

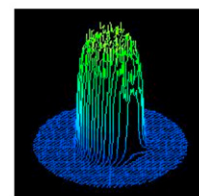
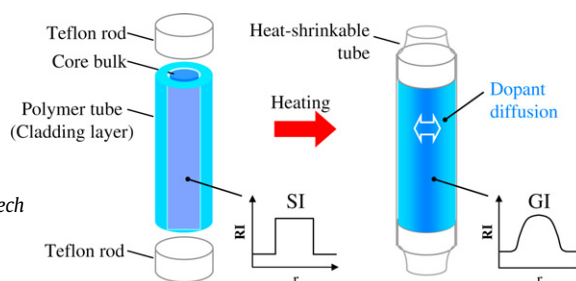
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Kotaro Koike^{a,b,*}, Takahiro Kado^{a,b}, Zen Satoh^{a,b}, Yoshiyuki Okamoto^{b,c}, Yasuhiro Koike^{a,b}

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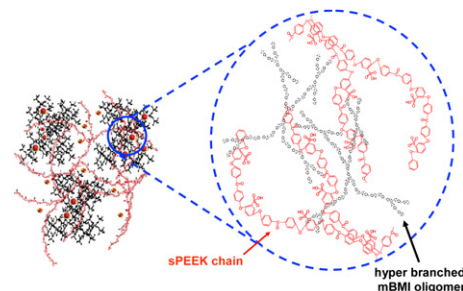
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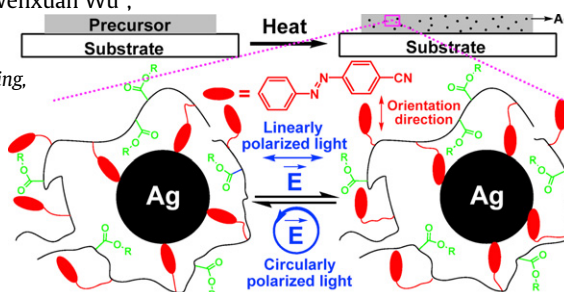
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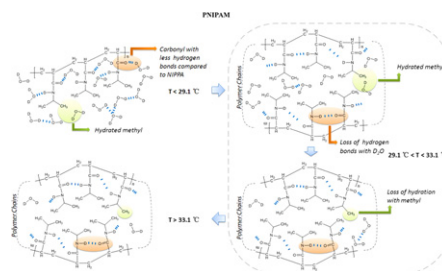


A infrared spectroscopic study on the mechanism of temperature-induced phase transition of concentrated aqueous solutions of poly(N-isopropylacrylamide) and N-isopropylpropionamide

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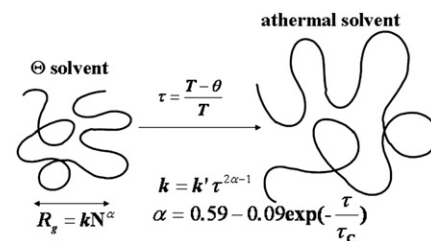
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Fei Hong^a, Yijie Lu^a, Junfang Li^a, Wenjing Shi^a, Guangzhao Zhang^{a,*}, Chi Wu^{a,b,**}

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Characterisation of end groups in poly(2-hydroxyethyl methacrylate) by means of electrospray ionisation-mass spectrometry/mass spectrometry (ESI-MS/MS)

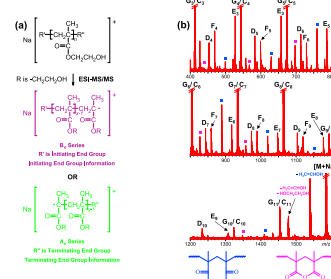
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Studies on the interactions of CO₂ with biodegradable poly(DL-lactic acid) and poly(lactic acid-co-glycolic acid) copolymers using high pressure ATR-IR and high pressure rheology

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Hongyun Tai^{a,*}, Clare E. Upton^b, Lisa J. White^c, Ronny Pini^d, Giuseppe Storti^e, Marco Mazzotti^d, Kevin M. Shakesheff^e, Steven M. Howdle^{b,**}

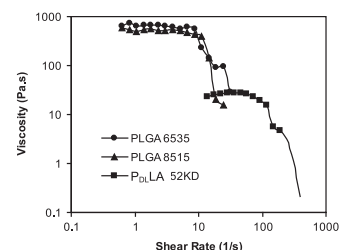
^a School of Chemistry, Bangor University, Bangor, LL57 2UW, UK

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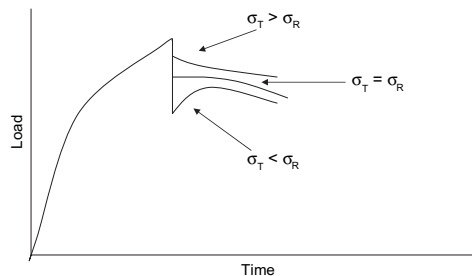
A novel approach to predict the recovery time of shape memory polymers

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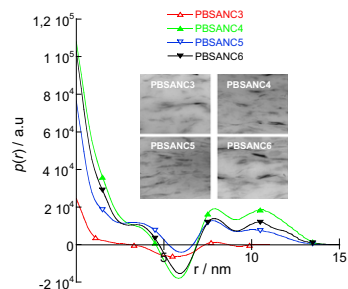


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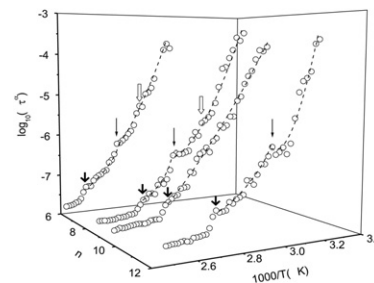
Jayita Bandyopadhyay, Suprakas Sinha Ray^{*}

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Peculiarities of δ - and α -relaxations in thermotropic side chain liquid crystalline polymers with and without nematic reentrant phase

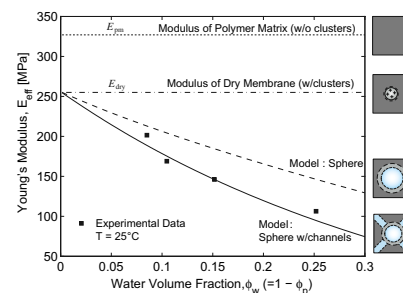
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F. Salehli^{a,*}, S. Yildiz^a, H. Ozbek^{a,b}, E. Uykur^a, Y. Hepuzer Gursel^c, Y. Yuksel Durmaz^c^a Department of Physics, Istanbul Technical University, Maslak 34469, Istanbul, Turkey^b Feza Gursey Institute, Cengelkoy 34684, Istanbul, Turkey^c Department of Chemistry, Istanbul Technical University, Maslak 34469, Istanbul, Turkey**Structure-property relationship in ionomer membranes**

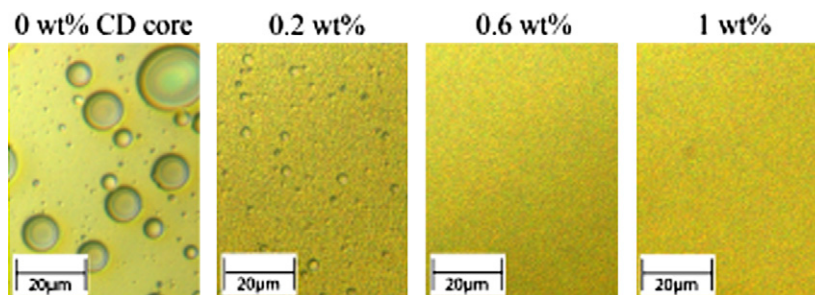
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Ahmet Kusoglu, Anette M. Karlsson^{*}, Michael H. Santare

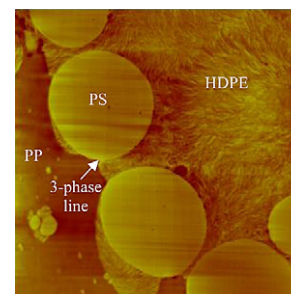
Department of Mechanical Engineering, University of Delaware, Newark, DE 19716, USA

**Morphology of polystyrene/poly(dimethyl siloxane) blends compatibilized with star polymers containing a γ -cyclodextrin core and polystyrene arms**

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Brad J. Busche^b, Alan E. Tonelli^a, C. Maurice Balik^{b,*}^a Fiber and Polymer Science Program, North Carolina State University, Campus Box 8301, Raleigh, NC 27695, USA^b Department of Materials Science and Engineering, North Carolina State University, Campus Box 7907, Raleigh, NC 27695, USA**Modified interfacial tensions measured in situ in ternary polymer blends demonstrating partial wetting**

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Nick Virgilio^a, Patrick Desjardins^b, Gilles L'Espérance^c, Basil D. Favis^{a,*}^a Centre de Recherche En Plasturgie Et Composites (CREPEC), Department of Chemical Engineering, Canada^b Regroupement Québécois sur les Matériaux de Pointe (RQMP), Department of Engineering Physics, Canada^c Center for Characterization and Microscopy of Materials (CM)², École Polytechnique de Montréal, Montréal, Québec H3C 3A7, Canada

Impact of nanosilicates on poly(vinylidene fluoride) crystal polymorphism: Part 1. Melt-crystallization at high supercooling

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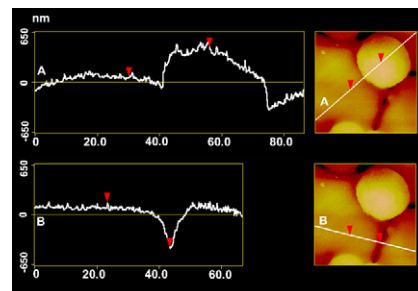
B. Seyhan Ince-Gunduz^a, Robert Alpern^b, Debeshu Amare^c, Jennifer Crawford^a,
Breanna Dolan^d, Stacey Jones^c, Ryan Kobylarz^c, Matthew Reveley^a, Peggy Cebe^{a,*}

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Morphology development and exclusion of noncrystalline polymer during crystallization in PVDF/PMMA blends

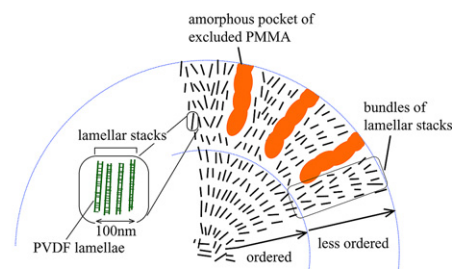
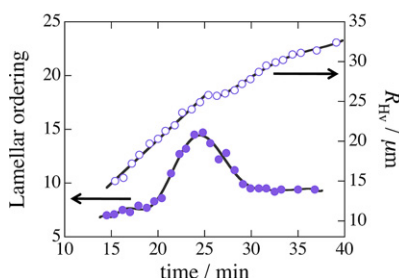
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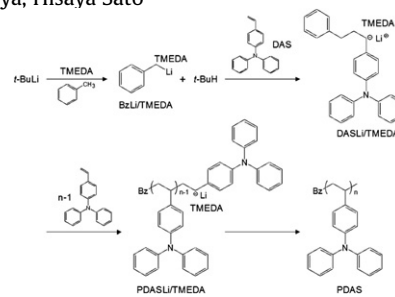


Poly(4-diphenylaminostyrene) with a well-defined polymer chain structure: Controllable optical and electrical properties

pp 1501–1506

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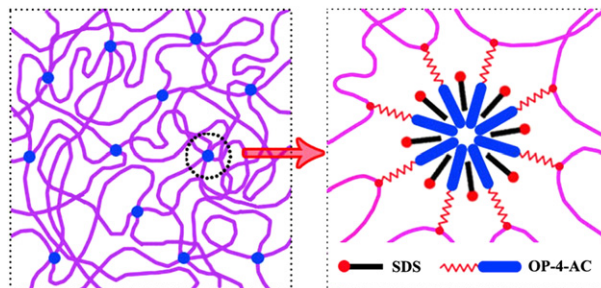
Network structure and compositional effects on tensile mechanical properties of hydrophobic association hydrogels with high mechanical strength

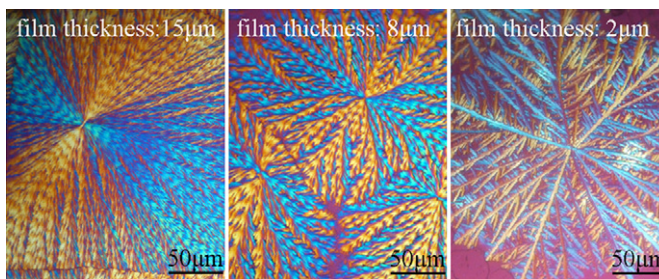
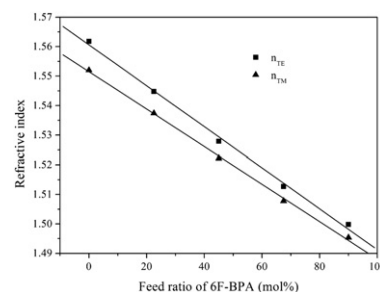
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Crystallization, and morphology of poly(trimethylene terephthalate)/poly(ethylene oxide terephthalate) segmented block copolymers**pp 1516–1523**Chenguang Yao^{a, b}, Guisheng Yang^{a, c, *}^a CAS Key Laboratory of Engineering Plastics, Joint Laboratory of Polymer Science and Technology, Institute of Chemistry, the Chinese Academy of Sciences, Beijing 100080, PR China^b Graduate University of the Chinese Academy of Sciences, Beijing 100039, PR China^c Shanghai Genius Advanced Material Co., Ltd., Shanghai 201109, PR China**Synthesis and characterization of partly fluorinated poly(phthalazinone ether)s crosslinked by allyl group for passive optical waveguides****pp 1524–1529**Guanghui Li^{a, b}, Jinyan Wang^{a, b, c}, Guipeng Yu^{a, b}, Xigao Jian^{a, b, c, *}, Linghua Wang^d, Mingshan Zhao^d^a State Key Laboratory of Fine Chemicals, Dalian University of Technology, Dalian 116012, China^b Department of Polymer Science & Materials, Dalian University of Technology, Dalian 116012, China^c Liaoning High Performance Resin Engineering Research Center, Dalian 116012, China^d School of Physics and Optoelectronic Technology, Dalian University of Technology, Dalian 116023, China

Modeling the response of monofilament nylon cords with the nonlinear viscoelastic, simplified potential energy clock model**pp 1530–1539**

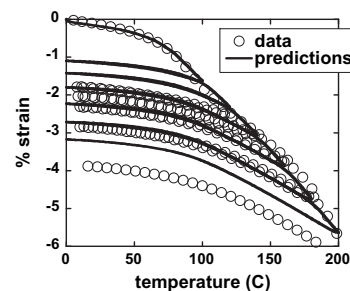
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