

Polymer Vol. 50, No. 19, 10 September 2009

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FEATURE ARTICLE

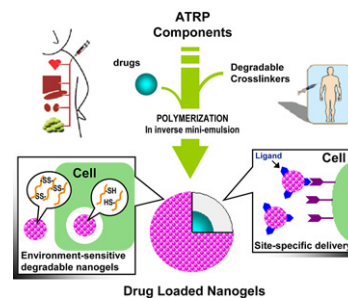
Atom transfer radical polymerization in inverse miniemulsion: A versatile route toward preparation and functionalization of microgels/nanogels for targeted drug delivery applications

pp 4407–4423

Jung Kwon Oh^{a,*}, Sidi A. Bencherif^b, Krzysztof Matyjaszewski^{b,*}

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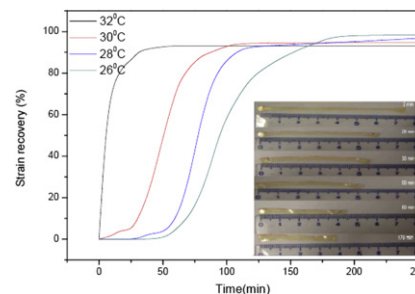
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Novel moisture-sensitive shape memory polyurethanes containing pyridine moieties

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Shaojun Chen, Jinlian Hu*, Chun-wah Yuen, Laikuen Chan

Institute of Textiles and Clothing, Hong Kong Polytechnic University, Hung Hom, Hong Kong, China



Mesophase structure discovered through in-situ X-ray measurement in drawing process of poly(ethylene 2,6-naphthalene dicarboxylate) fiber

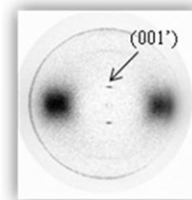
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KyoungHou Kim^a, Ryo Aida^b, YoungAh Kang^b, Yutaka Ohkoshi^{b,*}, Yasuo Gotoh^b, Masanobu Nagura^b, Hiroshi Urakawa^c

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WAXD image of PEN fiber taken at 1 ms after neck-drawing point.

POLYMER PAPERS

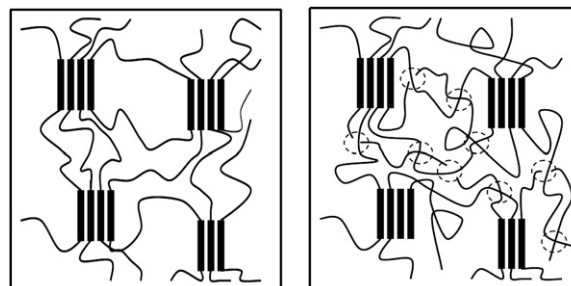
Contribution of soft segment entanglement on the tensile properties of silicone–urea copolymers with low hard segment contents

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Iskender Yilgor^{a,*}, Tugba Eynur^a, Emel Yilgor^a, Garth L. Wilkes^b

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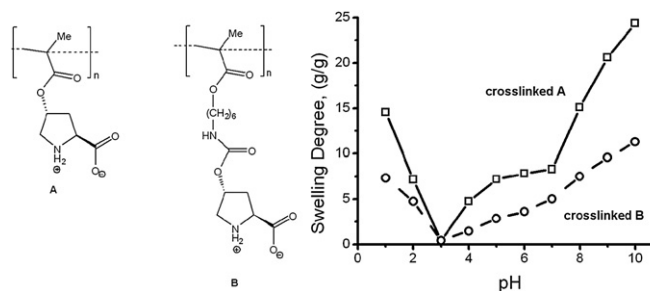
New hydroxyproline based methacrylic polybetaines: Synthesis, pH sensitivity and catalytic activity

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Elisa G. Doyagüez^a, Francisco Parra^b, Guillermo Corrales^a, Alfonso Fernández-Mayoralas^{a,*}, Alberto Gallardo^{b,**}

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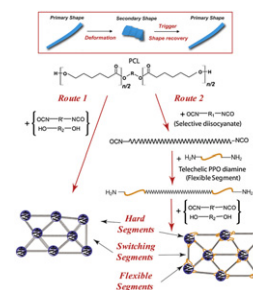
Novel synthetic strategy toward shape memory polyurethanes with a well-defined switching temperature

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S. D'hollander^a, G. Van Assche^b, B. Van Mele^b, F. Du Prez^{a,*}

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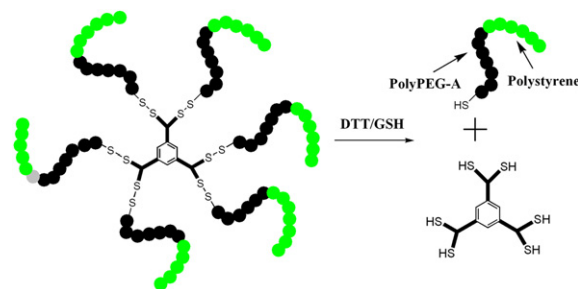


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Jingquan Liu*, Lei Tao, Jiangtao Xu, Zhongfan Jia, Cyrille Boyer, Thomas P. Davis*

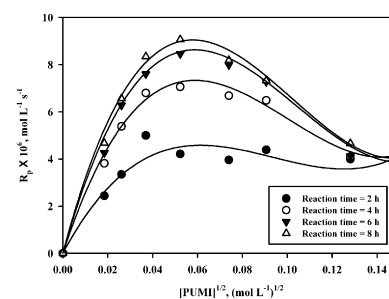
Centre for Advanced Macromolecular Design (CAMD), School of Chemical Sciences and Engineering, The University of New South Wales, Sydney, NSW 2052, Australia

**The kinetics of dithiocarbamate-mediated polyurethane-*block*-poly(methyl methacrylate) polymers**

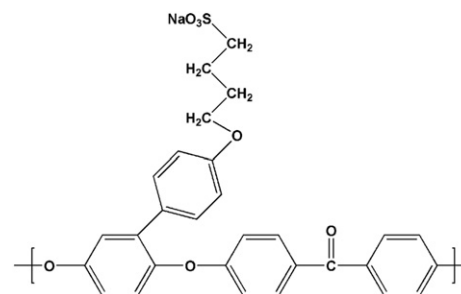
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Alpesh Patel, Kibret Mequanint*

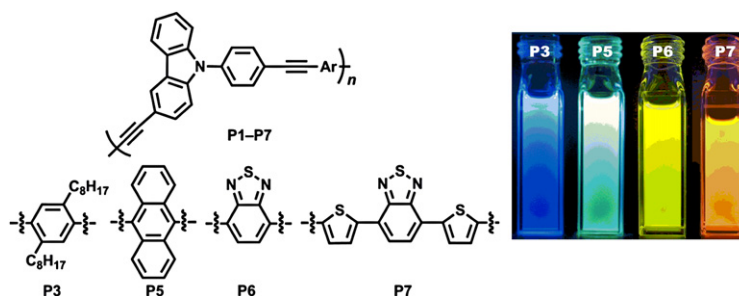
Department of Chemical and Biochemical Engineering, The University of Western Ontario, London, ON, Canada N6A 5B9

**Novel side-chain-type sulfonated poly(arylene ether ketone) with pendant sulfoalkyl groups for direct methanol fuel cells**

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Yang Zhang^a, Ying Wan^b, Chengji Zhao^a, Ke Shao^a, Gang Zhang^a, Hongtao Li^a, Haidan Lin^a, Hui Na^{a,*}^a Alan G MacDiarmid Institute, College of Chemistry, Jilin University, Changchun 130012, PR China^b State Key Laboratory of Supramolecular Structure and Materials, Jilin University, Changchun 130012, PR China**Synthesis of highly conjugated poly(3,9-carbazolyleneethynylenearylene)s emitting variously colored fluorescence**

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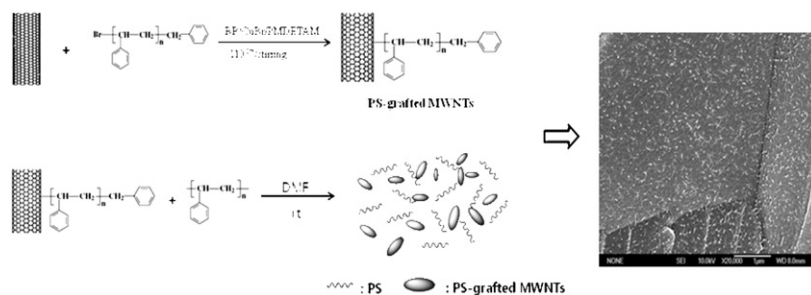
Kosaku Tamura^a, Masashi Shiotsuki^a, Norihisa Kobayashi^b, Toshio Masuda^c, Fumio Sanda^{a,*}^a Department of Polymer Chemistry, Graduate School of Engineering, Kyoto University, Katsura Campus, Nishikyo-ku, Kyoto 615-8510, Japan^b Department of Information and Image Sciences, Chiba University, Inage-ku, Chiba 263-8522, Japan^c Department of Environmental and Biological Chemistry, Faculty of Engineering, Fukui University of Technology, 3-6-1 Gakuen, Fukui 910-8505, Japan

Fabrication of hybrid nanocomposites with polystyrene and multiwalled carbon nanotubes with well-defined polystyrene via multiple atom transfer radical polymerization

pp 4488–4495

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Republic of Korea



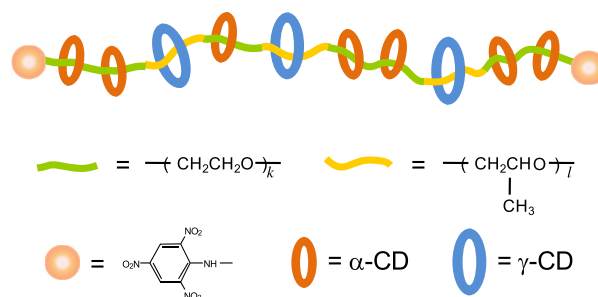
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Chuan Yang^a, Xiping Ni^b, Jun Li^{a, b, *}

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^b Institute of Materials Research and Engineering, A* STAR (Agency for Science, Technology and Research), 3 Research Link, Singapore 117602, Singapore



Novel hydrophilic–hydrophobic multiblock copolyimides as proton exchange membranes: Enhancing the proton conductivity

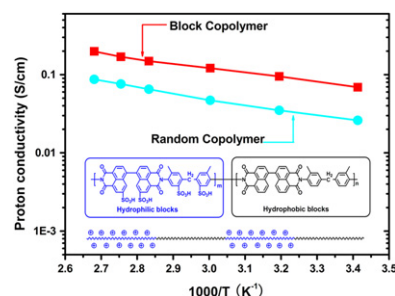
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Nanwen Li^{a, b}, Jia Liu^a, Zhiming Cui^{b, c}, Suobo Zhang^{a, *}, Wei Xing^c

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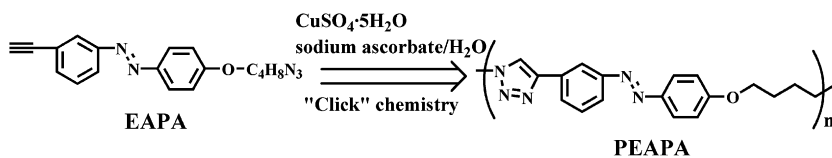


Preparation and characterization of novel main-chain azobenzene polymers via step-growth polymerization based on click chemistry

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Synthesis and characterization of soluble copoly(arylene ether sulfone phenyl-s-triazine)s containing phthalazinone moieties in the main chain

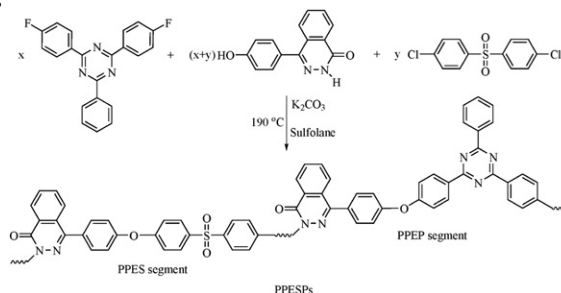
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Guipeng Yu^{a,c}, Cheng Liu^{a,b,c}, Hongxin Zhou^{a,c}, Jinyan Wang^{a,b,c}, Encheng Lin^{a,c}, Xigao Jian^{a,c,*}

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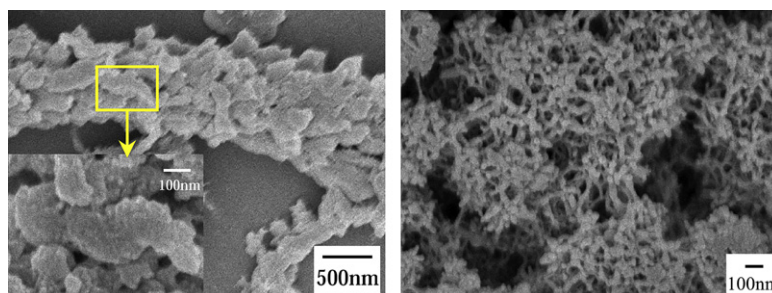
The role of DNA in PANI–DNA hybrid: Template and dopant

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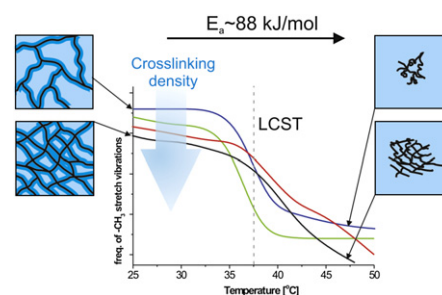


Water–Polymer interactions in PVME hydrogels – Raman spectroscopy studies

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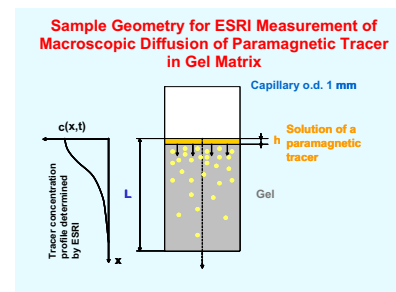


Effect of structure of HEMA–DEGMA hydrogel matrix on diffusion coefficients of PEG tracers. Variation of hydrogel crosslink density by change of polymer concentration

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Jan Pilar^{*}, Jaroslav Kříž, Bohumil Meissner, Petr Kadlec, Martin Přádný

Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, v.v.i, 162 06 Prague, Czech Republic

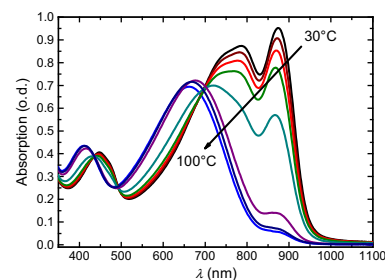
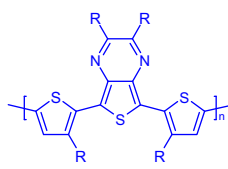


Extrusion and characterization of functionalized cellulose whiskers reinforced polyethylene nanocomposites

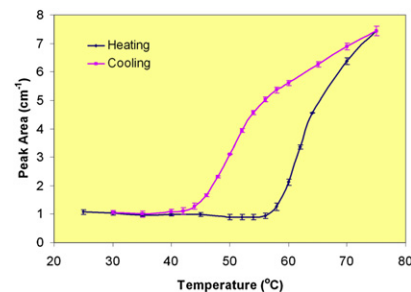
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Aparecido Junior de Menezes^a, Gilberto Siqueira^a, Antonio A.S. Curvelo^b, Alain Dufresne^{a,*}^a Grenoble Institute of Technology, The International School of Paper, Print Media and Biomaterials (PAGORA), BP65, 38402 Saint Martin d'Hères cedex, France^b Instituto de Química de São Carlos (IQSC), Universidade de São Paulo (USP), C.P. 780, 13560-970 São Carlos, Brazil**The influence of side chains on solubility and photovoltaic performance of dithiophene–thienopyrazine small band gap copolymers**

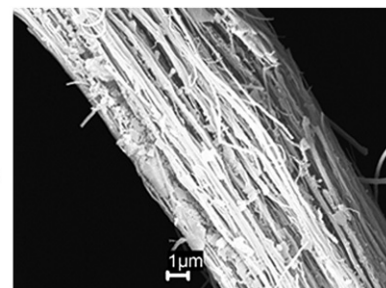
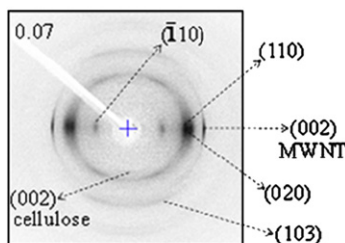
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Arjan P. Zoombelt^{a,b}, Mark A.M. Leenen^a, Marta Fonrodona^{a,b}, Yohann Nicolas^{a,b}, Martijn M. Wienk^a, René A.J. Janssen^{a,*}^a Molecular Materials and Nanosystems, Eindhoven University of Technology, P.O. Box 513, 5600 MB Eindhoven, The Netherlands^b Dutch Polymer Institute (DPI), P.O. Box 902, 5600 AX Eindhoven, The Netherlands**Molecular and mechanical properties of hydroxypropyl methylcellulose solutions during the sol:gel transition**

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Gurjit S. Bajwa^a, Chris Sammon^{c,*}, Peter Timmins^b, Colin D. Melia^a^a Formulation Insights, School of Pharmacy, University of Nottingham, NG7 2RD, UK^b Biopharmaceutics R&D, Research and Development, Bristol-Myers Squibb, Reeds Lane, Moreton, Merseyside L46 1QW, UK^c Materials and Engineering Research Institute, Sheffield Hallam University, Sheffield S1 1WB, UK**Solution spinning of cellulose carbon nanotube composites using room temperature ionic liquids**

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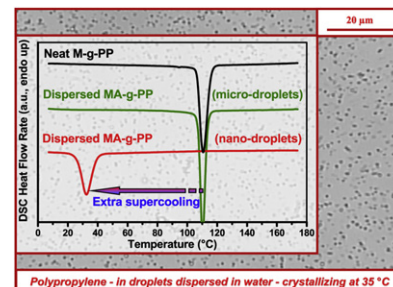
Sameer S. Rahatekar^a, Asif Rasheed^b, Rahul Jain^b, Mauro Zammarano^a, Krzysztof K. Koziol^c, Alan H. Windle^c, Jeffrey W. Gilman^a, Satish Kumar^{b,*}^a Building and Fire Research Division, National Institute of Standards and Technology, Gaithersburg, MD 20899, USA^b School of Polymer, Textile and Fiber Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA^c University of Cambridge, Materials Science and Metallurgy, Cambridge CB2 3QZ, UK

Quantitative evaluation of fractionated and homogeneous nucleation of polydisperse distributions of water-dispersed maleic anhydride-grafted-polypropylene micro- and nano-sized droplets pp 4584–4595

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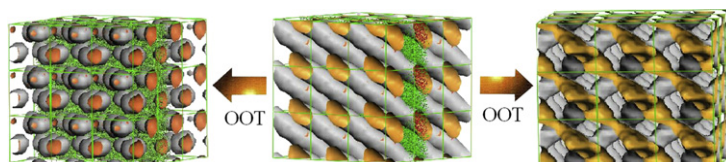
Mesoscopic study of cylindrical phases of poly(styrene)-poly(isoprene) copolymer: Order-order phase transitions by temperature control pp 4596–4601

César Soto-Figueroa^{a,*}, María-del-Rosario Rodríguez-Hidalgo^{a,*}, José-Manuel Martínez-Magadán^b, Luís-Vicente^c

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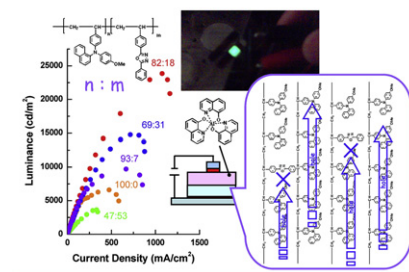
^c Departamento de Física y Química Teórica, Facultad de Química, Universidad Nacional Autónoma de México, 04510, D.F. Mexico



Hole-limiting conductive vinyl copolymers for AlQ₃-based OLED applications pp 4602–4611

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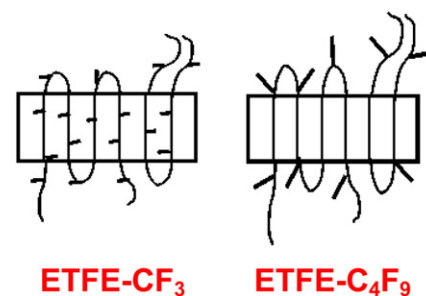


Influence of side branch on the elastic modulus of ethylene-tetrafluoroethylene terpolymers pp 4612–4617

Kiyotaka Arai^{a,**}, Atsushi Funaki^a, Suttinun Phongtamrug^b, Kohji Tashiro^{b,*}

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Acceleration effect of sericin on shear-induced β -transition of silk fibroin

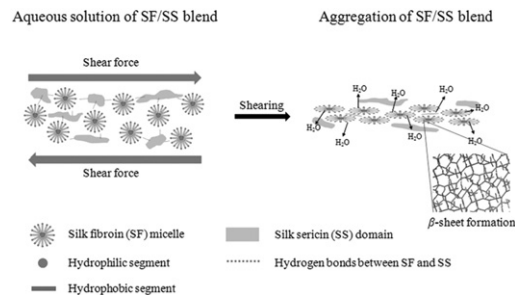
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Chang Seok Ki^{a,c}, In Chul Um^b, Young Hwan Park^{a,c,*}

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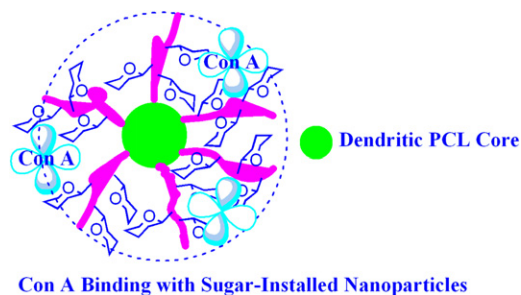
Fabrication, biomolecular binding, *in vitro* drug release behavior of sugar-installed nanoparticles from star poly(ϵ -caprolactone)/glycopolymer biohybrid with a dendrimer core

pp 4626–4634

Xiao-Hui Dai^{a,b}, Hua-Dong Zhang^a, Chang-Ming Dong^{a,*}

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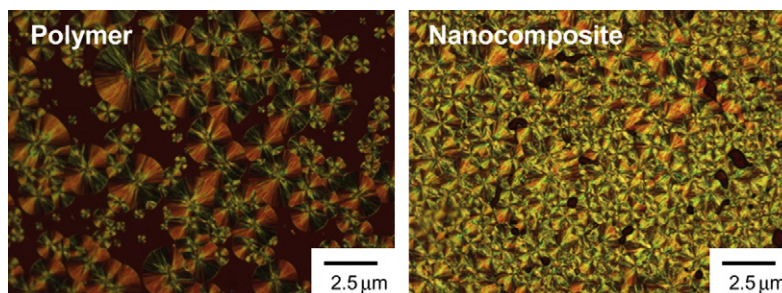


Thermal properties of poly(ethylene succinate) nanocomposite

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Suprakas Sinha Ray^{*}, Mamookho E. Makhatha

National Centre for Nano-Structured Materials, Council for Scientific and Industrial Research (CSIR), Pretoria 0001, Republic of South Africa



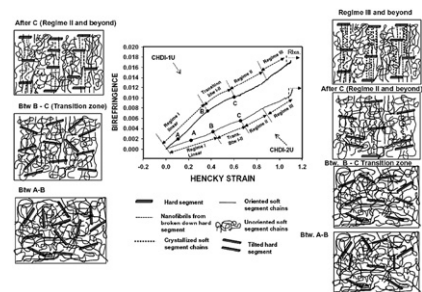
Real time mechano-optical study on deformation behavior of PTMO/CHDI-based polyetherurethanes under uniaxial extension

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E. Unsal^{a,b}, B. Yalcin^a, I. Yilgor^b, E. Yilgor^b, M. Cakmak^{a,*}

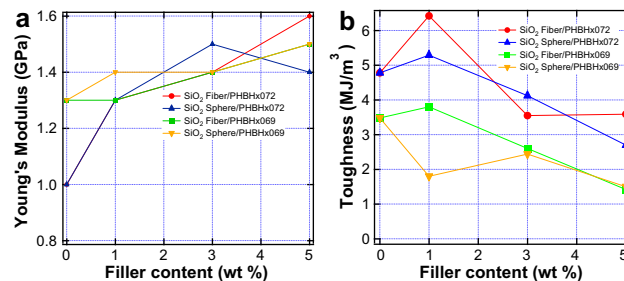
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Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) nanocomposites with optimal mechanical properties

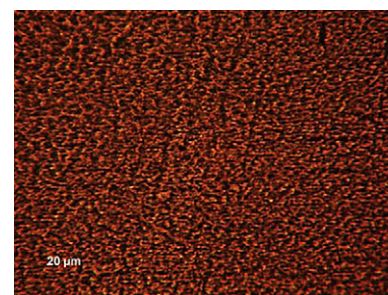
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Yuping Xie^a, Doug Kohls^b, Isao Noda^c, Dale W. Schaefer^b, Yvonne A. Akpalu^{b,d,*}^a Department of Chemical and Biological Engineering, Rensselaer Polytechnic Institute, Troy, NY 12180, USA^b Department of Chemical and Materials Engineering, University of Cincinnati, Cincinnati, OH 45221, USA^c The Procter & Gamble Company, Beckett Ridge Technical Center, 8611 Beckett Road, West Chester, OH 45069, USA^d Department of Chemistry and Chemical Biology, Rensselaer Polytechnic Institute, Troy, NY 12180, USA**Novel polypropylene microporous membranes via spherulitic deformation – Processing perspectives**

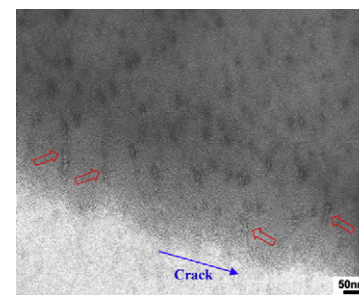
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K.-Y. Lin, M. Xanthos^{*}, K.K. Sirkar^{**}

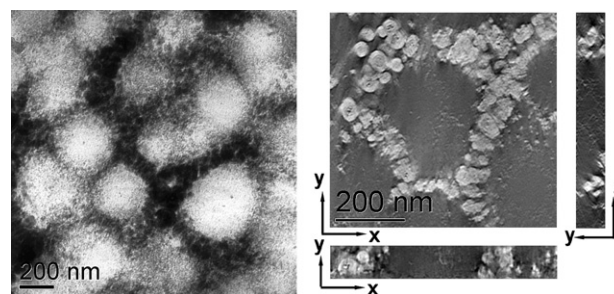
Otto York Department of Chemical, Biological and Pharmaceutical Engineering, Center for Membrane Technologies, New Jersey Institute of Technology, Newark, NJ 07102, United States

**Effect of crosslink density on fracture behavior of model epoxies containing block copolymer nanoparticles**

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Jia (Daniel) Liu^a, Hung-Jue Sue^{a,*}, Zachary J. Thompson^b, Frank S. Bates^b, Marv Dettloff^c, George Jacob^c, Nikhil Verghese^c, Ha Pham^c^a Polymer Technology Center, Department of Mechanical Engineering, Texas A&M University, College Station, TX 77843, USA^b Department of Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, MN 55455, USA^c The Dow Chemical Company, Epoxy R&D, Freeport, TX 77541, USA**Probing into the pristine basic morphology of high impact polypropylene particles**

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Yong Zhou^{a,b}, Hui Niu^a, Lei Kong^{a,b}, Ying Zhao^a, Jin-Yong Dong^{a,*}, Dujin Wang^{a,*}^a Beijing National Laboratory for Molecular Sciences, CAS Key Laboratory of Engineering Plastics, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China^b Graduate School of Chinese Academy of Sciences, Beijing 100049, China

Elastic misfit in two-phase polymer

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R.R. Mocellini^a, O.A. Lambri^{a,b,*}, C.L. Matteo^{c,d}, J.A. García^e, G.I. Zelada-Lambri^a, P.A. Sorichetti^c, F. Plazaola^f,
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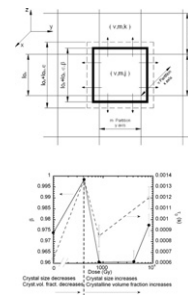
^d Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina

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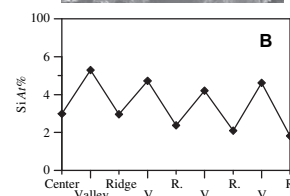
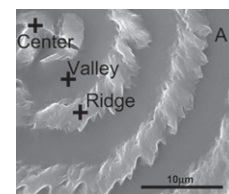


Single- and double-ring spherulites in poly(nonamethylene terephthalate)

pp 4706–4717

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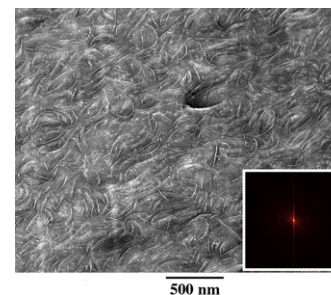


Crystallization controlled by layered silicates in nylon 6–clay nano-composite

pp 4718–4726

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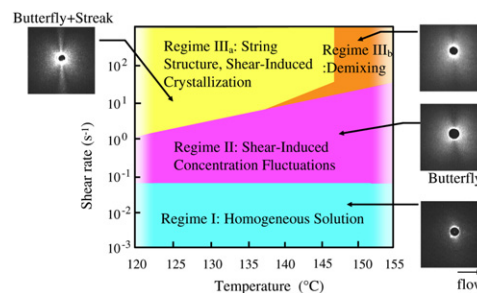
Shear-induced phase separation and crystallization in semidilute solution of ultrahigh molecular weight polyethylene: Phase diagram in the parameter space of temperature and shear rate pp 4727–4736

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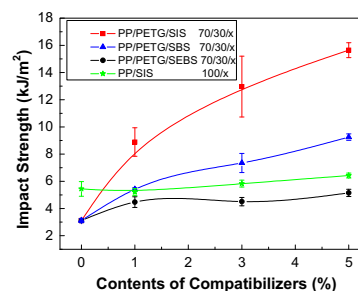
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The effect of interfacial adhesion on the impact strength of immiscible PP/PETG blends compatibilized with triblock copolymers pp 4737–4744

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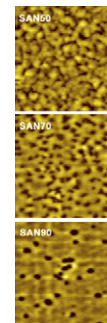


Composition effect on dewetting of ultrathin films of miscible polymer blend pp 4745–4752

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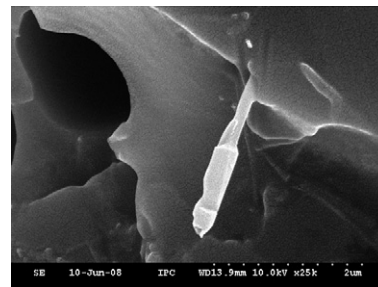
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**Reinforcement of epoxy resins with multi-walled carbon nanotubes
for enhancing cryogenic mechanical properties**

pp 4753–4759

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