

Polymer Vol. 52, No. 21, 29 September 2011

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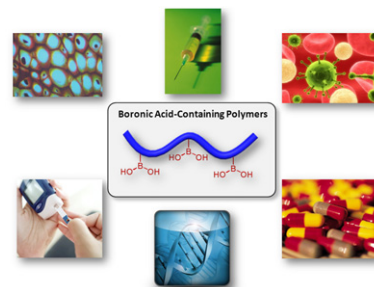
FEATURE ARTICLE

Biomedical applications of boronic acid polymers

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POLYMER COMMUNICATION

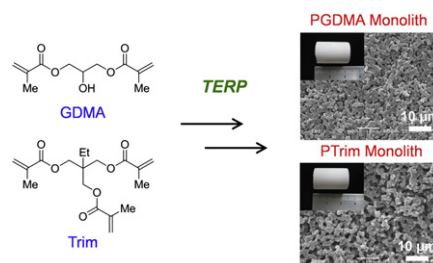
Fabrication of highly crosslinked methacrylate-based polymer monoliths with well-defined macropores via living radical polymerization

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George Hasegawa^a, Kazuyoshi Kanamori^{a,*}, Kazuki Nakanishi^a, Shigeru Yamago^b

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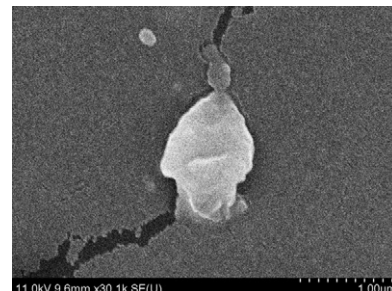
POLYMER PAPERS

Compatibilizers of a purposely designed graft copolymer for hydrolysate/PLLA blends

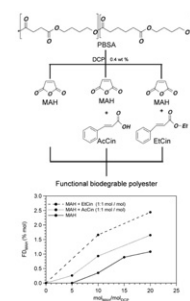
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Soheil Saadatmand, Ulrica Edlund, Ann-Christine Albertsson*

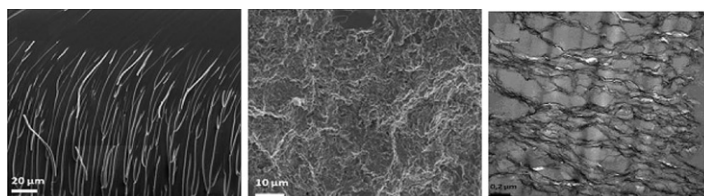
Fiber and Polymer Technology, Royal Institute of Technology, SE-100 44 Stockholm, Sweden

**Radical functionalization of poly(butylene succinate-co-adipate): Effect of cinnamic co-agents on maleic anhydride grafting**

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Francesca Signori^{a,b,*}, Marco Badalassi^c, Simona Bronco^a, Francesco Ciardelli^d^a Consiglio Nazionale delle Ricerche - Istituto per i Processi Chimico-Fisici, CNR-IPCF, Area della Ricerca di Pisa, via Moruzzi 1, I-56124 Pisa, Italy^b INSTM c/o Dipartimento di Chimica e Chimica Industriale, Università di Pisa, via Risorgimento 35, I-56126 Pisa, Italy^c Dipartimento di Chimica e Chimica Industriale, Università di Pisa, via Risorgimento 35, I-56126 Pisa, Italy^d Spin-Pet srl, via Risorgimento 35, I-56126 Pisa, Italy**Epoxy-Graphene UV-cured nanocomposites**

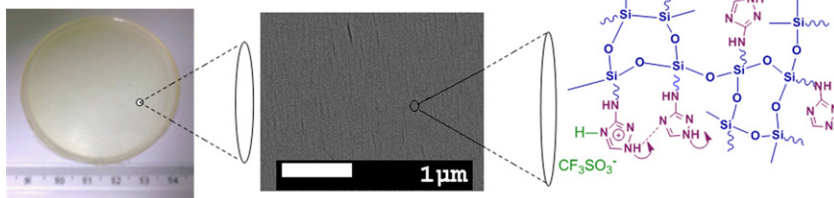
pp 4664–4669

M. Martin-Gallego^a, R. Verdejo^a, M.A. Lopez-Manchado^a, M. Sangermano^{b,*}^a Instituto de Ciencia y Tecnología de Polímeros, CSIC, Juan de la Cierva 3, 28006 Madrid, Spain^b Politecnico di Torino, Dipartimento di Scienza dei Materiali e Ingegneria Chimica, C.so Duca degli Abruzzi 24, 10129 Torino, Italy**Novel triazole functional sol-gel derived inorganic-organic hybrid networks as anhydrous proton conducting membranes**

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Sevim Ünügür Çelik*, Ayhan Bozkurt

Department of Chemistry, Fatih University, 34500 Büyükdere, Istanbul, Turkey

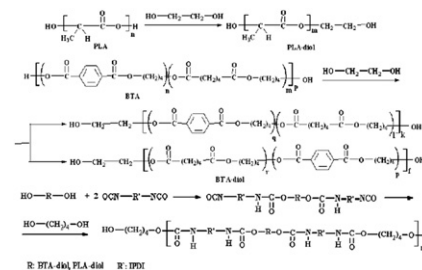


Synthesis and physicochemical properties of new (bio)degradable poly(ester-urethane)s containing polylactide and poly[(1,4-butylene terephthalate)-co-(1,4-butylene adipate)] segments

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Wanda Sikorska, Piotr Dacko, Bożena Kaczmarczyk, Henryk Janeczko,
Marian Domański, Krzysztof Mańczyk, Marek Kowalczyk*

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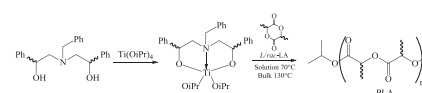


Titanium complexes based on aminodiols ligands for the ring opening polymerization of L- and D,L-lactide

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Effect of polymer topology on the curing process and mechanical characteristics of epoxy thermosets modified with linear or multiarm star poly(ε-caprolactone)

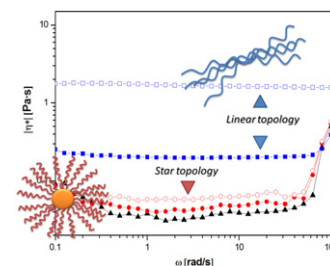
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^c Department of Mechanical Engineering, Universitat Rovira i Virgili, C/ Països Catalans, 26,
43007 Tarragona, Spain

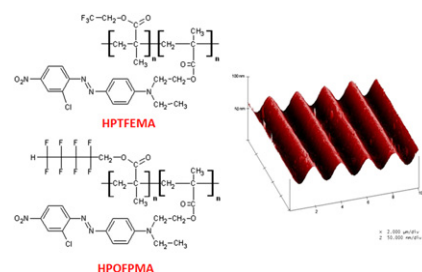


Hydrophobic methacrylic copolymers containing azobenzene moieties

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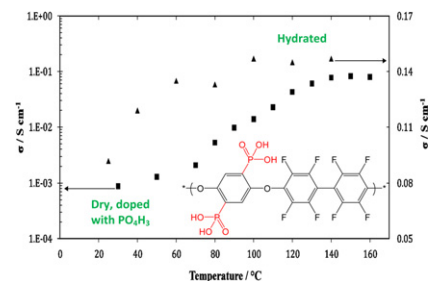
Rafaela C. Sanfelice, Felipe J. Pavinatto, Marcos R. Cardoso, Cleber R. Mendonça,
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Phosphonated poly(arylene ether)s as potential high temperature proton conducting materials

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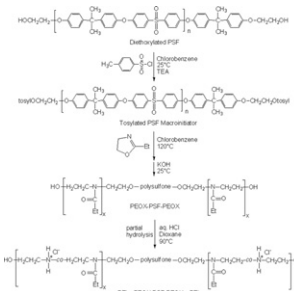
Ebrahim Abouzari-Lotf^a, Hossein Ghassemi^{b,*}, Abbas Shockravi^c, Thomas Zawodzinski^d, David Schiraldi^b^a Membrane Research Group, Iranian Academic Center For Education, Culture & Research (ACECR), Tarbiat Moallem University Branch, Mofatteh Ave. Postal Code 15614, Tehran, Iran^b Department of Macromolecular Science and Engineering, Case Western Reserve University, 2100 Adelbert Road, Cleveland, OH 44106, USA^c Faculty of Chemistry, Tarbiat Moallem University, Mofatteh Ave. No.49, Postal Code 15614, Tehran, Iran^d Department of Chemical and Biomolecular Engineering, University of Tennessee, Knoxville, TN 37996, USA

Synthesis and characterization of polyoxazoline–polysulfone triblock copolymers

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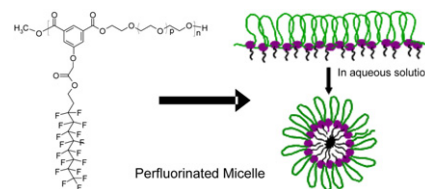
O. Celebi, C.H. Lee, Y. Lin, J.E. McGrath, J.S. Riffle^{*}

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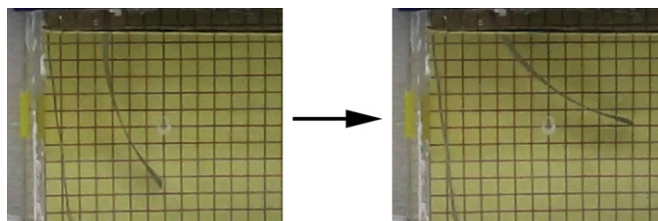
Design and synthesis of perfluorinated amphiphilic copolymers: Smart nanomicelles for theranostic applications

pp 4727–4735

Mukesh K. Pandey^{a,b,*}, Rahul Tyagi^{a,b}, Ke Yang^b, Robert J. Fisher^c, Clark K. Colton^c, Jayant Kumar^b, Virinder S. Parmar^{a,d}, Eric Aiazian^e, Arthur C. Watterson^{a,b,**}^a Institute of Nano-Science and Engineering Technology, University of Massachusetts, Lowell, MA 01854, USA^b Center for Advanced Materials and Department of Physics, University of Massachusetts, Lowell, MA 01854, USA^c Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, MA 02139, USA^d Bioorganic Laboratory, Department of Chemistry, University of Delhi, Delhi 110 007, India^e Genus Biotech Corporation, London, UK

Poly(acrylic acid)/poly(vinyl alcohol) compositions coaxially electrospun with poly(ε-caprolactone) and multi-walled carbon nanotubes to create nanoactuating scaffolds

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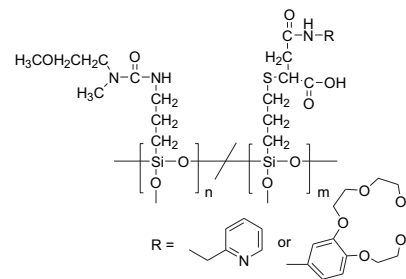
K.D. McKeon-Fischer^a, D.H. Flagg^b, J.W. Freeman^{a,*}^a Virginia Tech-Wake Forest School of Biomedical Engineering and Sciences, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, USA^b Department of Materials Science and Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, USA

Synthesis of thermo- and pH-responsive polysilsesquioxane with carboxylic acid group

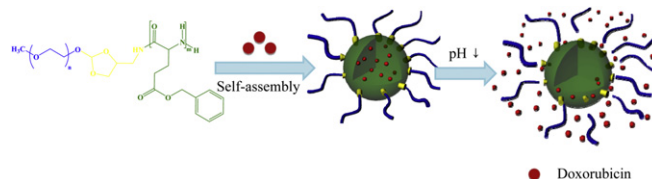
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Fukutaro Minami, Shin-ichi Yamamoto, Yohei Miyasaka, Osamu Moriya*

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**Synthesis and physicochemical characterization of amphiphilic block copolymers bearing acid-sensitive orthoester linkage as the drug carrier**

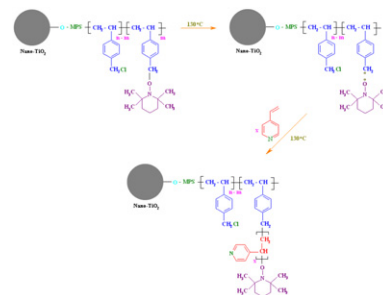
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Thavasyappan Thambi^a, V.G. Deepagan^a, Chang Kyoo Yoo^{b,**}, Jae Hyung Park^{a,*}^a Department of Polymer Science and Engineering, College of Engineering, Sungkyunkwan University, Suwon 440-746, Republic of Korea^b Department of Environmental Science and Engineering, College of Engineering, Kyung Hee University, Gyeonggi-do 446-701, Republic of Korea**Synthesis and characterization of novel type poly (4-chloromethyl styrene-grft-4-vinylpyridine)/TiO₂ nanocomposite via nitroxide-mediated radical polymerization**

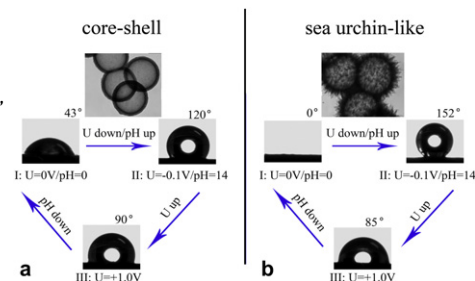
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**Formation of dual-responsive polystyrene/polyaniline microspheres with sea urchin-like and core-shell morphologies**

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Li Tan^a, Lijing Cao^a, Mu Yang^a, Ge Wang^{a,*}, Dongbai Sun^{b,*}^a School of Materials Science & Engineering, University of Science & Technology Beijing, Beijing 100083, PR China^b National Center for Materials Service Safety, University of Science & Technology Beijing, Beijing 100083, PR China

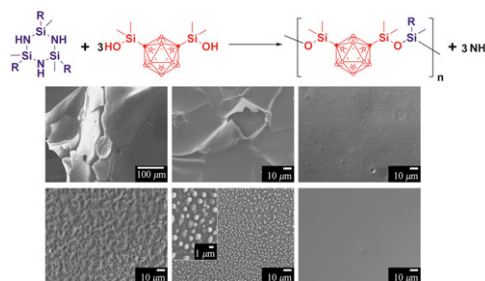
Synthesis, characterization, and thermal properties of poly(siloxane-carborane)s

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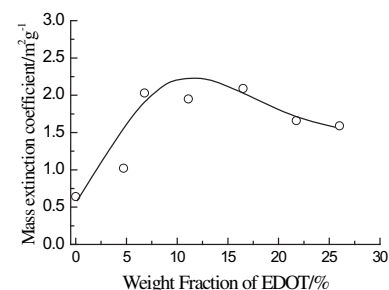


Facile synthesis and light scattering characteristics of polystyrene/poly(3,4-ethylenedioxythiophene) nanocomposite particles

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Dongping Yin, Yunxing Li, Zhen Huang, Hao Gu, Zhaoqun Wang^{*}

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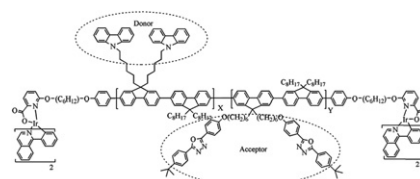


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Hua Tan, Juntong Yu, Kaixuan Nie, Jianhua Chen, Xianping Deng, Zhiyong Zhang, Gangtie Lei, Meixiang Zhu, Yu Liu, Weiguo Zhu^{*}

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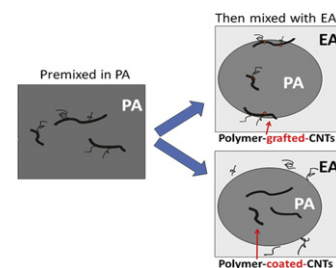
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Fangfang Tao^a, Bernard Nysten^a, Anne-Christine Baudouin^a, Jean-Michel Thomassin^b, Daniela Vuluga^b, Christophe Detrembleur^b, Christian Bailly^{a,*}

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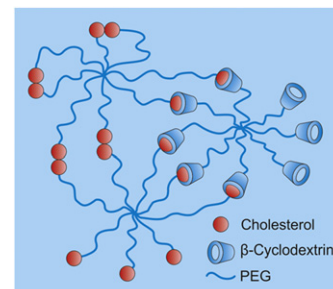
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Shaaban K. Osman^a, Ferdinand P. Brandl^a, Gamal M. Zayed^b, Jörg K. Teßmar^a, Achim M. Göpferich^{a,*}

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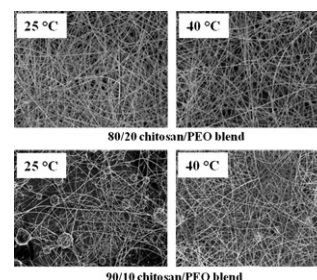


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Mehdi Pakravan, Marie-Claude Heuzey^{*}, Abdellah Ajji^{**}

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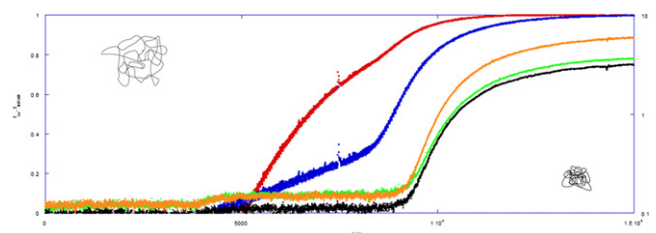


Simultaneous multiple sample light scattering detection of LCST during copolymer synthesis

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Colin A. McFaul, Alina M. Alb, Michael F. Drenski, Wayne F. Reed^{*}

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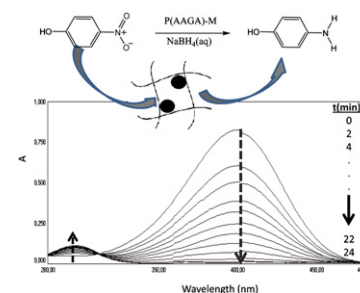
A versatile hydrogel template for metal nano particle preparation and their use in catalysis

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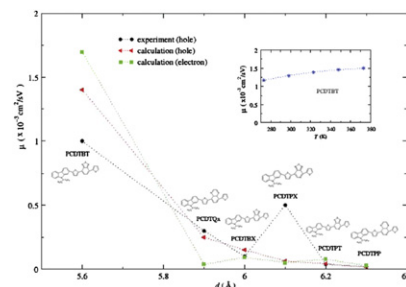


Charge carrier mobility in conjugated organic polymers – Case studies using multi-step computational approach

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Yaping Li, Jolanta B. Lagowski*

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**Effect of lactic acid on polymer crystallization chain conformation and fiber morphology in an electrospun nylon-6 mat**

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Hem Raj Pant^{a,b}, Woo-il Baek^{c,d}, Ki-Taek Nam^{c,d}, In-Soo Jeong^e,
Nasser A.M. Barakat^c, Hak Yong Kim^{c,d,*}

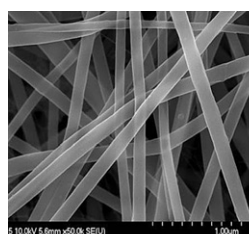
^a Department of Bio-nano System Engineering, Chonbuk National University, Jeonju 561 756, Republic of Korea

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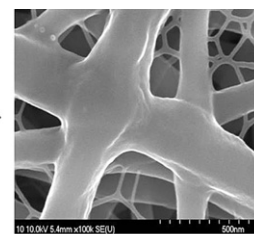
^d Center for Healthcare Technology, Chonbuk National University, Jeonju 561 756, Republic of Korea

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Pristine nylon-6 mat

Modified by
lactic acid



Hybrid nylon-6 mat

Crystalline structure of polyethylene containing vinylene units in the main chain

pp 4857–4866

Naofumi Naga^{a,*}, Rika Arai^a, Genzo Kikuchi^b, Akinori Toyota^b, Keiichi Noguchi^c,
Masato Sone^d, Fukiko Shirae^e, Tomoka Gotoh^e, Hiromichi Kurosu^{e,**}

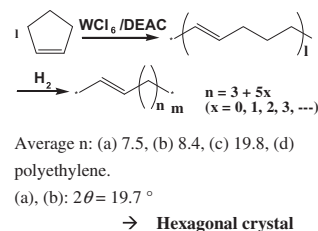
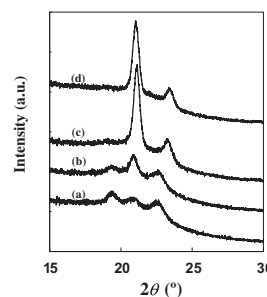
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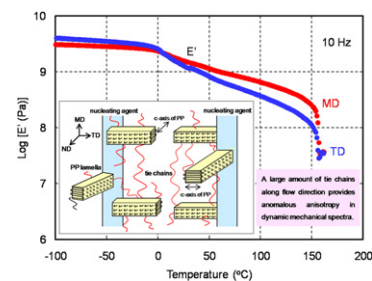
**Anomalous mechanical anisotropy of β form polypropylene sheet with N,N' -dicyclohexyl-2,6-naphthalenedicarboxamide**

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Panitha Phulkerd^a, Shogo Nobukawa^a, Yohei Uchiyama^b, Masayuki Yamaguchi^{a,*}

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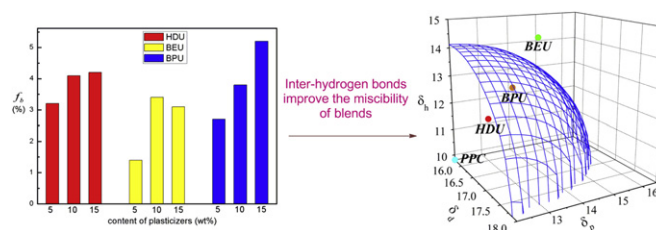
Plasticizing while toughening and reinforcing poly(propylene carbonate) using low molecular weight urethane: Role of hydrogen-bonding interaction

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Lijie Chen^{a,b}, Yusheng Qin^a, Xianhong Wang^{a,*}, Xiaojiang Zhao^a, Fosong Wang^a

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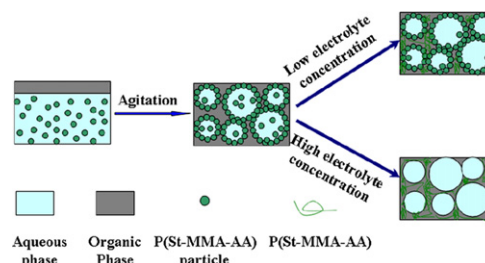
Stability of surfactant-free high internal phase emulsions and its tailoring morphology of porous polymers based on the emulsions

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Shengmiao Zhang^{a,b,*}, Yun Zhu^a, Ye Hua^a, Corinne Jegat^b, Jianding Chen^{a,**}, Mohamed Taha^b

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Charing polymer wrapped carbon nanotubes for simultaneously improving the flame retardancy and mechanical properties of epoxy resin

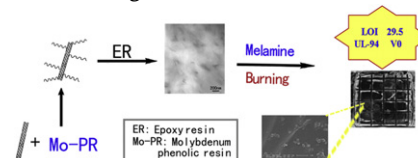
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Haiou Yu^{a,b}, Jie Liu^{a,*}, Xin Wen^a, Zhiwei Jiang^a, Yujie Wang^{a,b}, Lu Wang^{a,b}, Jun Zheng^{a,b}, Shaoyun Fu^c, Tao Tang^{a,*}

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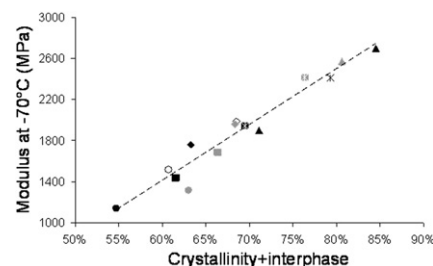


A re-examination of the elastic modulus dependence on crystallinity in semi-crystalline polymers

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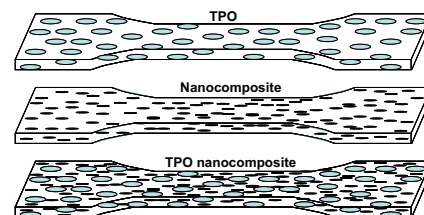


Modeling the mechanical and thermal expansion behavior of TPO-based nanocomposites

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Thermo-mechanical properties of semi-degradable Poly(β -amino ester)-co-methyl methacrylate networks under simulated physiological conditions

pp 4920–4927

David L. Safranski^{a,b,*}, Jacob C. Crabtree^c, Yameen R. Huq^d, Ken Gall^{b,e}

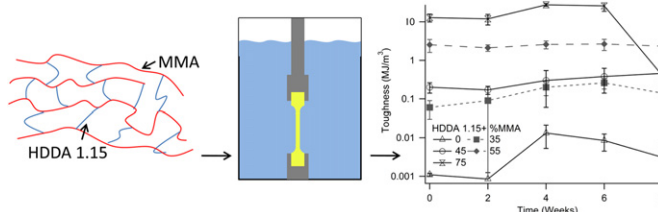
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Core-shell structured nanoassemblies based on β -cyclodextrin containing block copolymer and poly(β -benzyl L-aspartate) via host-guest complexation

pp 4928–4937

Jianxiang Zhang^{a,b}, Peter X. Ma^{a,c,d,e,*}

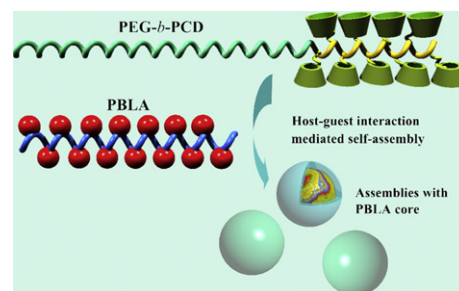
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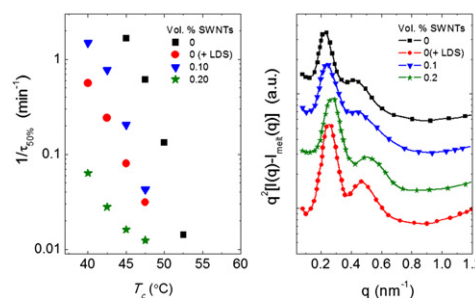


Poly(ethylene oxide) crystallization in single walled carbon nanotube based nanocomposites: Kinetics and structural consequences

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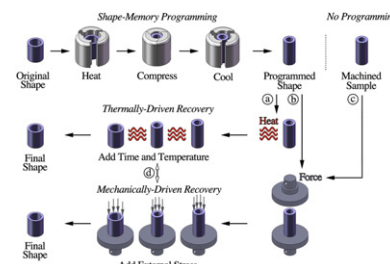
Tirtha Chatterjee, Arnaldo T. Lorenzo, Ramanan Krishnamoorti*

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Impact of shape-memory programming on mechanically-driven recovery in polymers

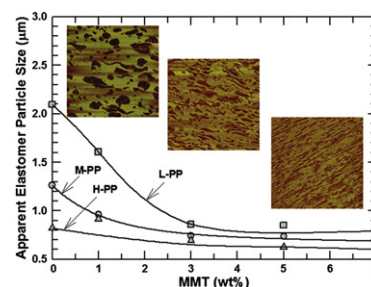
pp 4947–4954

Christopher M. Yakacki^{a,*}, Thao D. Nguyen^b, Roxanne Likos^c, Robert Lamell^c, Daniel Guigou^d, Ken Gall^{c,d,e,f}^a Department of Mechanical Engineering, The University of Colorado at Denver, Denver, CO 80217, USA^b Department of Mechanical Engineering, Johns Hopkins University, Baltimore, MD 21218, USA^c Wallace H. Coulter School of Biomedical Engineering, The Georgia Institute of Technology, Atlanta, GA 30332, USA^d George W. Woodruff School of Mechanical Engineering, The Georgia Institute of Technology, Atlanta, GA 30332, USA^e School Materials Science and Engineering, The Georgia Institute of Technology, Atlanta, GA 30332, USA^f Research and Development, MedShape Solutions Inc., Atlanta, GA 30318, USA**Polypropylene-elastomer (TPO) nanocomposites: 1. Morphology**

pp 4955–4969

Rajkiran R. Tiwari, D.R. Paul^{*}

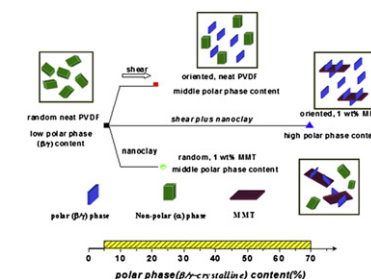
Department of Chemical Engineering and Texas Materials Institute, The University of Texas at Austin, Austin, TX 78712, USA

**Cooperative effect of shear and nanoclay on the formation of polar phase in poly(vinylidene fluoride) and the resultant properties**

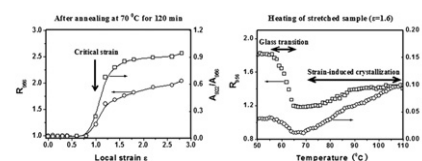
pp 4970–4978

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**Mesophase formation and its thermal transition in the stretched glassy polylactide revealed by infrared spectroscopy**

pp 4979–4984

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