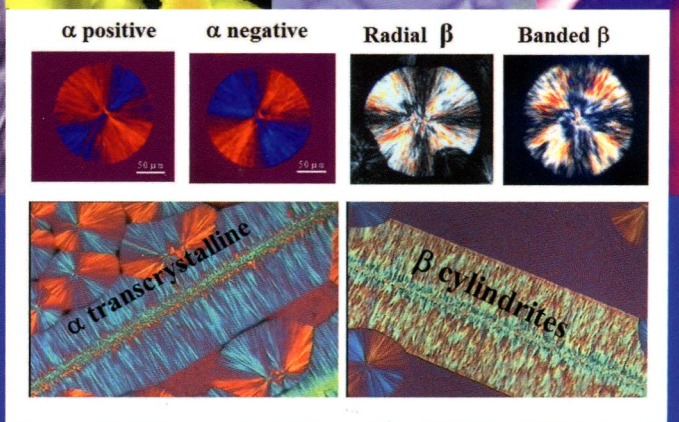
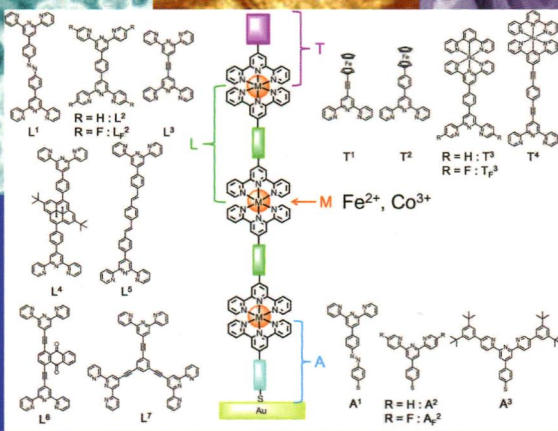
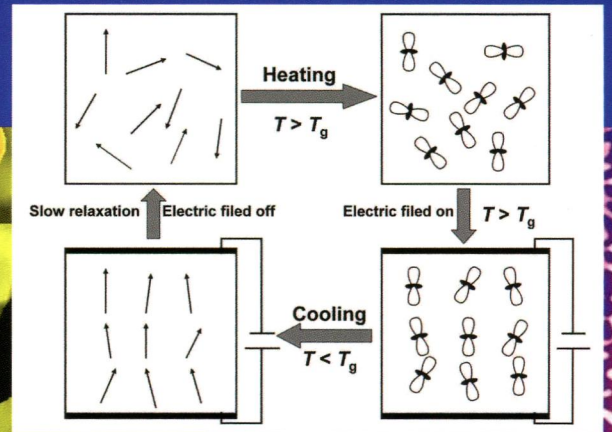
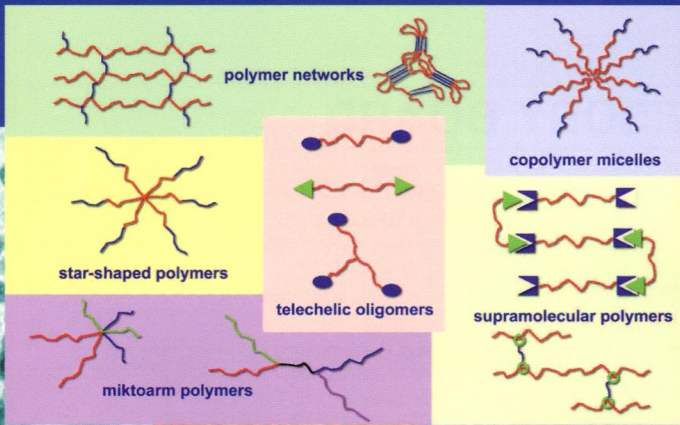
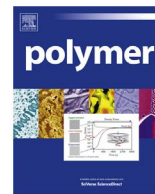


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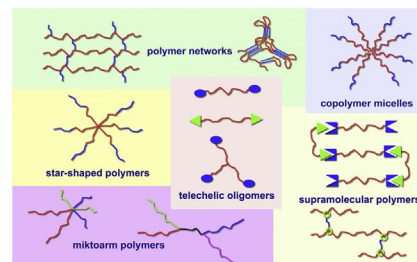
FEATURE ARTICLES

The contemporary role of ϵ -caprolactone chemistry to create advanced polymer architectures

pp 4333–4350

Adam L. Sisson, Duygu Ekinci, Andreas Lendlein*

Institute of Biomaterial Science and Berlin Brandenburg Centre for Regenerative Therapies, Helmholtz-Zentrum Geesthacht, Kantstrasse 55, 14513 Teltow, Germany

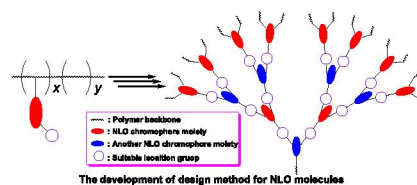


New design strategies for second-order nonlinear optical polymers and dendrimers

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Wenbo Wu, Jingui Qin, Zhen Li*

Department of Chemistry, Hubei Key Lab on Organic and Polymeric Opto-Electronic Materials, Wuhan University, Wuhan 430072, China

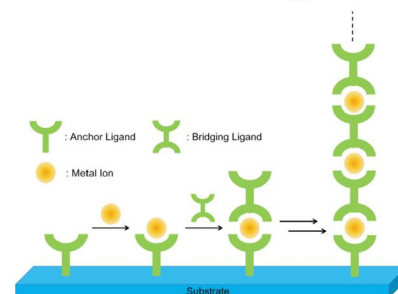


Metal complex oligomer and polymer wires on electrodes: Tactical constructions and versatile functionalities

pp 4383–4403

Hiroaki Maeda, Ryota Sakamoto, Hiroshi Nishihara*

Department of Chemistry, Graduate School of Science, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan

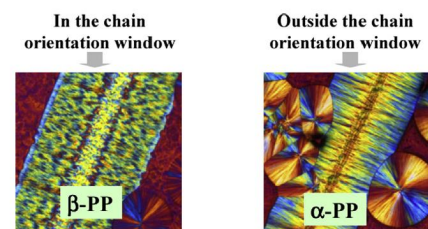


Orientation-induced crystallization of isotactic polypropylene

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Qj Liu, Xiaoli Sun*, Huihui Li, Shouke Yan*

State Key Laboratory of Chemical Resource Engineering, Beijing University of Chemical Technology, Beijing 100029, China



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Tuning biodegradable hydrogel properties via synthesis procedure

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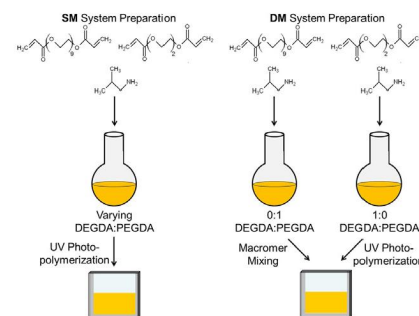
Ashley M. Hawkins^a, Melanie E. Tolbert^b, Brittany Newton^a, Todd A. Milbrandt^c, David A. Puleo^d, J. Zach Hilt^{a,*}

^a Department of Chemical and Materials Engineering, University of Kentucky, Lexington, KY, USA

^b Department of Chemical Engineering, Tuskegee University, Tuskegee, AL, USA

^c Department of Orthopaedic Surgery, University of Kentucky, Lexington, KY, USA

^d Center for Biomedical Engineering, University of Kentucky, Lexington, KY, USA



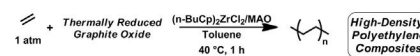
Thermally reduced graphite oxide reinforced polyethylene composites: A mild synthetic approach

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Alexander D. Todd^a, Christopher W. Bielawski^{a,b,*}

^a Department of Chemistry and Biochemistry, The University of Texas at Austin, 1 University Station, A1590, Austin, TX 78712, USA

^b The World Class University (WCU) Program of Chemical Convergence for Energy & Environment (C2E2), Seoul National University, Seoul 151-742, Republic of Korea



Flexible self-supporting supramolecular polymeric membranes consisting of 1,3,5-trisubstituted benzene derivatives synthesized by highly selective photocyclic aromatization of helical poly(phenylacetylene)s in the membrane state

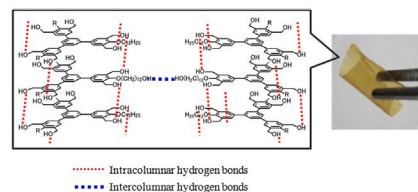
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Mari Miyata^a, Takeshi Namikoshi^b, Lijia Liu^c, Yu Zang^a, Toshiki Aoki^{a,*}, Yunosuke Abe^a, Yoshiyuki Oniyama^a, Toyokazu Tsutsuba^a, Masahiro Teraguchi^a, Takashi Kaneko^a

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^bMaterial Science and Engineering, Kitami Institute of Technology, 165 Koen-cho, Kitami, Hokkaido 090-8507, Japan

^cKey Laboratory of Superlight Materials and Surface Technology, Ministry of Education and Polymer Materials Research Center, Harbin Engineering University, Harbin 150001, China



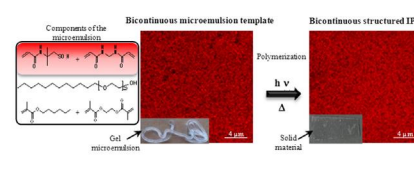
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Microemulsion as the template for synthesis of interpenetrating polymer networks with predefined structure

pp 4436–4445

Sophie Bourcier, Cédric Vancaeyzeele, Frédéric Vidal, Odile Fichet^{*}

Laboratoire de Physicochimie des Polymères et des Interfaces (LPPI), Université de Cergy-Pontoise, Institut des matériaux, 5, mail Gay-Lussac, Neuville-sur-Oise, 95031 Cergy-Pontoise Cedex, France



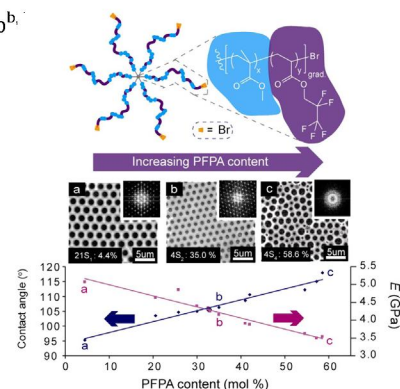
The behaviour of honeycomb film formation from star polymers with various fluorine content

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Zhou Zhang^{a,b}, Timothy C. Hughes^b, Paul A. Gurr^a, Anton Blencowe^a, Hemayet Uddin^a, Xiaojuan Hao^b, Greg G. Qiao^{a,*}

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^bMaterials Science and Engineering, Commonwealth Scientific and Industrial Research Organization (CSIRO), Clayton, VIC 3168, Australia



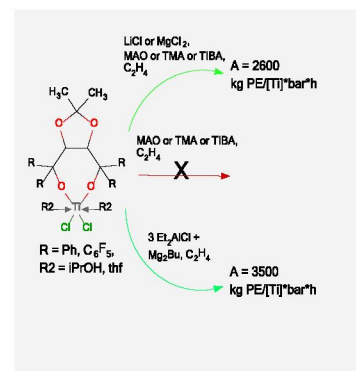
Titanium (IV) and zirconium (IV) chloride complexes on the base of chiral tetraaryl-1,3-dioxolane-4,5-dimethanol ligands in the polymerization of ethylene: The promoting role of lithium and magnesium chloride

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Vladislav A. Tuskaev^{a,*}, Svetlana C. Gagieva^a, Victor I. Maleev^b, Alexandra O. Borissova^b, Mikhail V. Solov'ev^a, Zoya A. Starikova^b, Boris M. Bulychev^a

^aDepartment of Chemistry, M. V. Lomonosov Moscow State University, 1 Leninskie Gory, 119992 Moscow, Russian Federation

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A functional immobilization matrix based on a conducting polymer and functionalized gold nanoparticles: Synthesis and its application as an amperometric glucose biosensor

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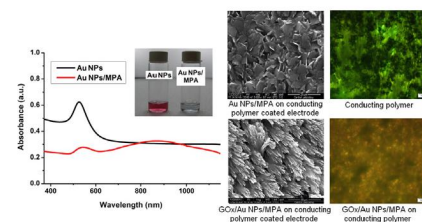
Melis Kesik^a, Fulya Ekiz Kanik^b, Gönül Hızalan^a, Duygu Kozanoglu^c,
Emren Nalbant Esenturk^{a,c}, Suna Timur^d, Levent Toppare^{a,b,e,f,*}

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^b Department of Biotechnology, Middle East Technical University, 06800 Ankara, Turkey

^c Department of Polymer Science and Technology, Middle East Technical University, 06800 Ankara, Turkey

^f The Center for Solar Energy Research and Applications (GUNAM), Middle East Technical University, 06800 Ankara, Turkey



UV-cured transparent magnetic polymer nanocomposites

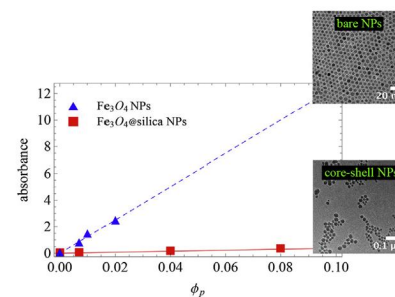
pp 4472–4479

Tommaso Nardi^a, Marco Sangermano^b, Yves Leterrier^{a,*}, Paolo Allia^b, Paola Tiberto^c,
Jan-Anders E. Månson^a

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^b Politecnico di Torino, DISAT, Corso Duca degli Abruzzi 24, Torino 10129, Italy

^c INRIM, Electromagnetism Division, Strada delle Cacce 91, Torino 10135, Italy



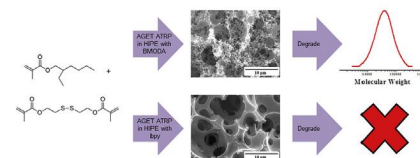
Synthesis of degradable polyHIPEs by AGET ATRP

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Melissa Lamson^a, Yelena Epshtein-Assor^b, Michael S. Silverstein^b, Krzysztof Matyjaszewski^{a,*}

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^b Department of Materials Science and Engineering, Technion – Israel Institute of Technology, Haifa 32000, Israel



Differences in molecular structure in cross-linked polycationic nanoparticles synthesized using ARGET ATRP or UV-initiated polymerization

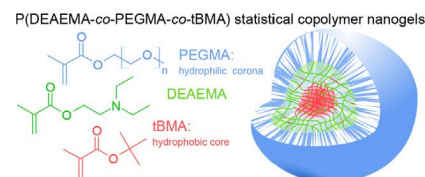
pp 4486–4492

D.C. Forbes^a, N.A. Peppas^{a,b,c,*}

^a Department of Chemical Engineering, The University of Texas at Austin, Austin, TX, USA

^b Department of Biomedical Engineering, The University of Texas at Austin, Austin, TX, USA

^c College of Pharmacy, The University of Texas at Austin, Austin, TX, USA

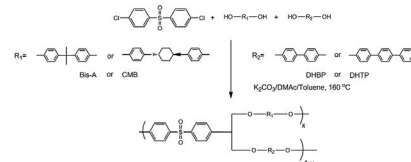


New poly(arylene ether sulfone)s based on 4,4'-[*trans*-1,4-cyclohexanediylbis(methylene)] bisphenol

pp 4493–4500

Bin Zhang, S. Richard Turner*

Department of Chemistry, Macromolecules and Interfaces Institute (MII), Virginia Tech, Blacksburg, VA 24061-0344, USA


Catalyst-free click cascade functionalization of unsaturated-bond-containing polymers using masked-ketene-tethering nitrile *N*-oxide

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Sumitra Cheawchan^a, Yasuhito Koyama^{b,*}, Satoshi Uchida^a, Toshikazu Takata^{a,**}

^aDepartment of Organic and Polymeric Materials, Tokyo Institute of Technology, 2-12-1-(H-126), Ookayama, Meguro, Tokyo 152-8552, Japan

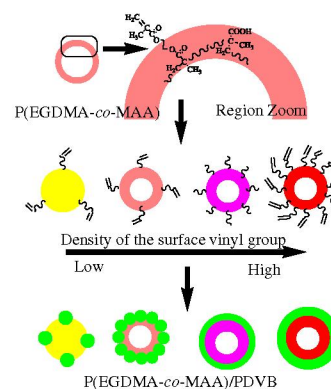
^bCatalysis Research Center, Hokkaido University, N21 W10, Kita-ku, Sapporo 001-0021, Japan


A controlled morphology of polymeric nanocapsules via the density of surface vinyl group for the precipitation polymerization

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Hailiang Feng, Enwei Yan, Jing Zhang, Xinlin Yang*, Chenxi Li

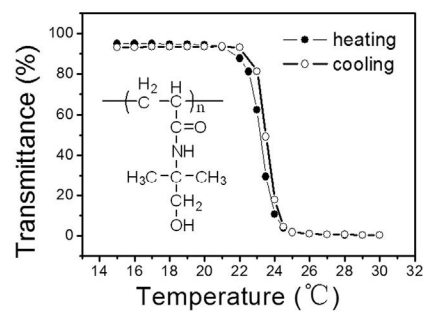
Key Laboratory of Functional Polymer Materials, Ministry of Education, Institute of Polymer Chemistry, Nankai University, Tianjin 300071, PR China


Novel temperature-responsive functional polymers based on poly(*N*-(2-hydroxy-*tert*-butyl) acrylamide)

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Qianling Cui, Yajie Wang, Feipeng Wu*, Erjian Wang

Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing 100190, PR China



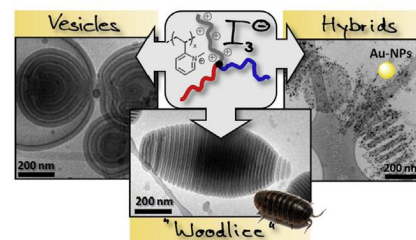
Hierarchical self-assembly of mikroarm star polymers containing a polycationic segment: A general concept

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Andreas Hanisch^a, André H. Gröschel^a, Melanie Förtsch^a, Tina I. Löbling^a, Felix H. Schacher^{b,*}, Axel H.E. Müller^{a,*}

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^b Institut für Organische Chemie und Makromolekulare Chemie (IOMC) and Jena Center for Soft Matter (JCSM), Friedrich-Schiller-Universität Jena, Humboldtstraße 10, D-07743 Jena, Germany



Encapsulation of Nile Red in polypyrrole microvessels

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Daria Kepińska^a, Adam Budniak^a, Krystyna Kijewska^a, G.J. Blanchard^b, Maciej Mazur^{a,*}

^a University of Warsaw, Department of Chemistry, Pasteura 1, 02-093 Warsaw, Poland

^b Michigan State University, Department of Chemistry, East Lansing, MI 48824-1322, USA



The effect of comonomer content on structure and property relationship of propylene-1-octene copolymer during uniaxial stretching

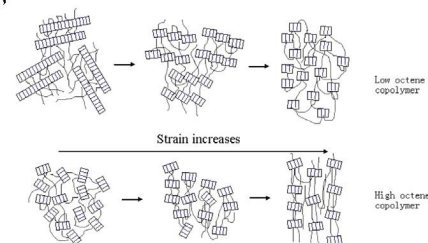
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Xiaowei Li^a, Yimin Mao^a, Christian Burger^a, Justin Che^a, Benjamin S. Hsiao^{a,*}, Rahul R. Kulkarni^b, Andy H. Tsou^c

^a Department of Chemistry, Stony Brook University, Stony Brook, NY 11794-3400, USA

^b ExxonMobil Chemical Company, 5200 Bayway Drive, Baytown, TX 77520, USA

^c ExxonMobil Research and Engineering Company, Annandale, NJ 08801, USA



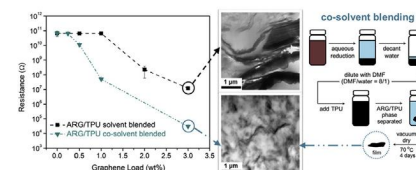
Aqueous reduced graphene/thermoplastic polyurethane nanocomposites

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Ken-Hsuan Liao^a, Yong Tae Park^a, Ahmed Abdala^b, Christopher Macosko^{a,*}

^a Department of Chemical Engineering and Material Science, University of Minnesota, 421 Washington Ave. SE, Minneapolis, MN 55455, USA

^b Department of Chemical Engineering, The Petroleum Institute, Abu Dhabi, United Arab Emirates



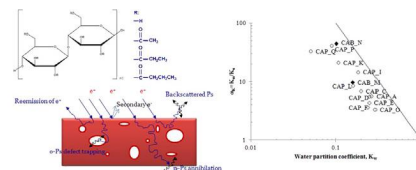
Characteristics of water and salt transport, free volume and their relationship with the functional groups of novel cellulose esters

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Rui Chin Ong^a, Tai-Shung Chung^{a,*}, Bradley J. Helmer^b, Jos. S. de Wit^b

^a Department of Chemical and Biomolecular Engineering, National University of Singapore, 4 Engineering Drive 4, Singapore 117576, Singapore

^b Eastman Chemical Company, P.O. Box 1972, Kingsport, TN 37662, USA



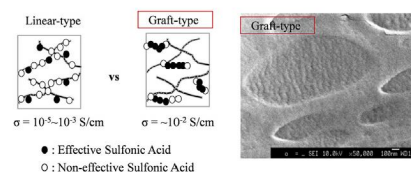
Graft-type polymer electrolyte membranes for fuel cells prepared through radiation-induced graft polymerization into alicyclic polybenzimidazoles

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June Park^{a,b}, Toshio Takayama^a, Masaharu Asano^b, Yasunari Maekawa^b, Kazuaki Kudo^{a,*}

^a Institute of Industrial Science, The University of Tokyo, 4-6-1 Komaba, Meguro-ku, Tokyo 153-8505, Japan

^b High Performance Polymer Group, Environment and Industrial Materials Research Division, Quantum Beam Science Directorate, Japan Atomic Energy Agency, 1233 Watanuki, Takasaki, Gunma 370-1292, Japan



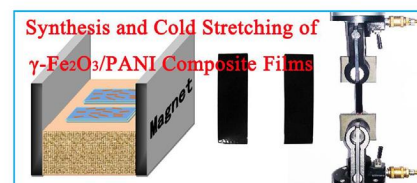
Synthesis and simultaneous enhancements in electrical and magnetic properties of oriented γ -Fe₂O₃-nanoneedle/PANI nanocomposite films by cold stretching

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Chao Wu^{a,b}, Hong-Mei Xiao^{a,*}, Shao-Yun Fu^{a,*}

^a Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing 100190, China

^b University of Chinese Academy of Sciences, Beijing 100039, China



Unusual process-induced curl and shrinkage of electrospun PVDF membranes

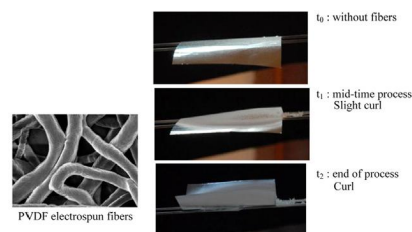
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B. Sundaray^a, F. Bossard^{a,*}, P. Latil^b, L. Orgéas^b, J.Y. Sanchez^c, J.C. Lepretre^c

^a Laboratoire Rhéologie et Procédés, UMR 5520, Université Joseph Fourier – CNRS – Grenoble INP, BP 53, 38041 Grenoble Cedex 9, France

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^c LEPMI, Laboratoire d'Electrochimie et de Physicochimie des Matériaux et des Interfaces, UMR 5279, CNRS – Grenoble INP – Université de Savoie – Université Joseph Fourier, BP 75, 38402 Grenoble Cedex 9, France

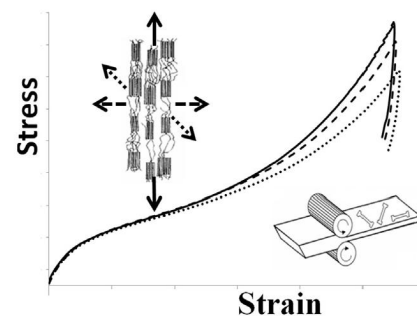


Constitutive modeling of a SEBS cast-calender: Large strain, compressibility and anisotropic damage induced by the process

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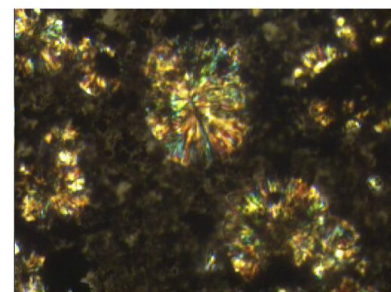
A.S. Caro-Bretelle*, P. Ienny, R. Leger

C2MA, Ecole des Mines d'Alès, 6 Avenue de Clavières, 30319 Alès, France



Biodegradable poly(ethylene succinate) nanocomposites. Effect of filler type on thermal behaviour and crystallization kinetics

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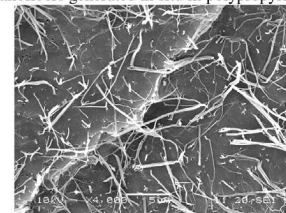
George Z. Papageorgiou^{a,b,*}, Zoe Terzopoulou^a, Dimitris S. Achilias^a, Dimitrios N. Bikiaris^a, Maria Kapnisti^b, Dimitrios Gournis^c^a Laboratory of Organic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki GR-541 24, Greece^b Technological Educational Institute of Thessaloniki, Sindos GR -574 00, Thessaloniki, Greece^c Department of Materials Science and Engineering, University of Ioannina, Ioannina GR-45110, Greece

All-polymer nanocomposites with nanofibrillar inclusions generated *in situ* during compounding

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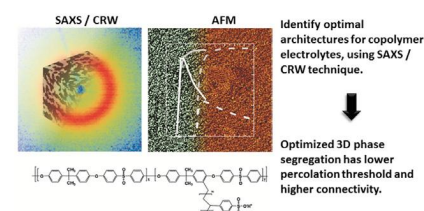
K. Jurczuk, A. Galeski*, E. Piorkowska

Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Sienkiewicza 112, 90363 Lodz, Poland

PTFE nanofibers generated *in situ* in polypropylene matrix

Optimal phase segregation in graft copolymers

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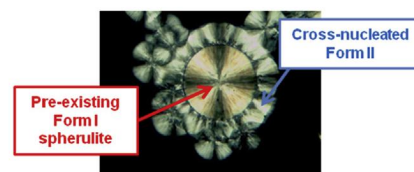
Sandor Balog^{a,*}, Jozef Adamcik^b, Raffaele Mezzenga^b, Chang Gi Cho^c^a Adolphe Merkle Institute, University of Fribourg, 1723 Marly 1, Switzerland^b Food and Soft Materials Science, Institute of Food, Nutrition and Health, ETH Zurich, Schmelzbergstrasse 9, CH-8092 Zürich, Switzerland^c Department of Organic & Nano Engineering, Hanyang University, Seoul 133-791, Republic of Korea

On cross- and self-nucleation in seeded crystallization of isotactic poly(1-butene)

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Dario Cavallo^{a,*}, Lorenza Gardella^b, Giuseppe Portale^c, Alejandro J. Müller^d, Giovanni C. Alfonso^b^a Department of Mechanical Engineering, Eindhoven University of Technology, P.O. Box 513, 5600 MB Eindhoven, The Netherlands^b University of Genova, Department of Chemistry and Industrial Chemistry, Via Dodecaneso 31, 16146 Genova, Italy^c Netherlands Organization for Scientific Research (NWO), DUBBLE CRG, European Synchrotron Radiation Facility, BP 220, F-38043 Grenoble Cedex, France^d Grupo de Polimeros USB, Departamento de Ciencia de los Materiales, Universidad Simón Bolívar, Apartado 89000, Caracas 1080-A, Venezuela

Isotactic Poly(1-butene) optical micrograph

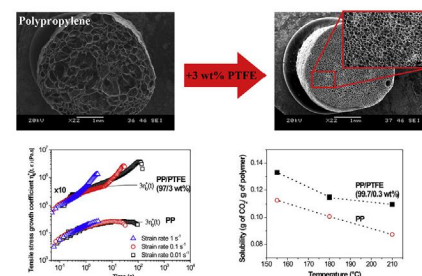


In situ fibrillation of CO₂-philic polymers: Sustainable route to polymer foams in a continuous process

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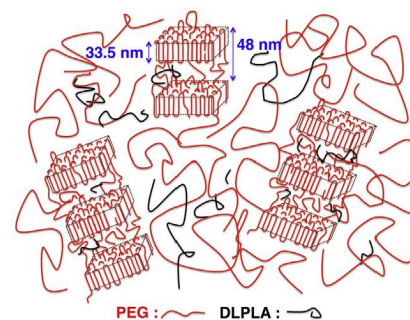
Ali Rizvi, Alireza Tabatabaei, M. Reza Barzegari, S. Hassan Mahmood, Chul B. Park^{*}

Microcellular Plastics Manufacturing Laboratory, Department of Mechanical and Industrial Engineering, University of Toronto, 5 King's College Road, Toronto, Ontario M5S 3G8, Canada



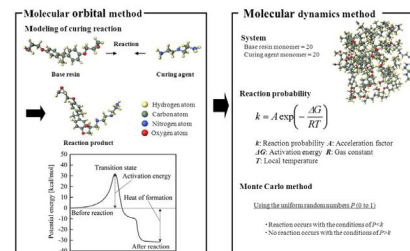
Higher-order crystalline structures of poly(oxyethylene) in poly(D,L-lactide)/poly(oxyethylene) blends

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Nguyen-Dung Tien^a, Ta-Phuong Hoa^b, Masatsugu Mochizuki^c, Kenji Saijo^d, Hirokazu Hasegawa^d, Sono Sasaki^{a,c}, Shinichi Sakurai^{a,c,*}^a Department of Biobased Materials Science, Kyoto Institute of Technology, Matsugasaki, Sakyo-ku, Kyoto 606-8585, Japan^b Polymer Centre, Hanoi University of Science and Technology, Viet Nam^c Center for Fiber and Textile Science, Kyoto Institute of Technology, Japan^d Department of Polymer Chemistry, Kyoto University, Japan

Curing reaction of epoxy resin composed of mixed base resin and curing agent: Experiments and molecular simulation

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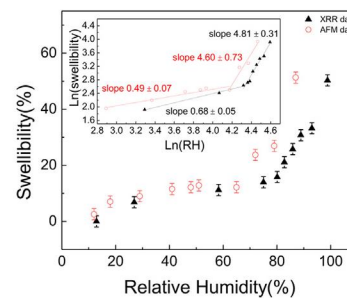
Tomonaga Okabe^{a,*}, Tomohiro Takehara^a, Keisuke Inose^b, Noriyuki Hirano^b, Masaaki Nishikawa^c, Takuya Uehara^d^a Department of Aerospace Engineering, Tohoku University, 6-6-01, Aoba-yama, Aoba-ku, Sendai, Miyagi 980-8579, Japan^b Composite Materials Research Laboratories (CMRL), Toray Industries, Inc., 1515 Tsutsui Masaki-cho, Iyogun, Ehime 791-3120, Japan^c Department of Mechanical Engineering and Science, Kyoto University, C3 Kyoto Daigaku-Katsura, Nishikyo-ku, Kyoto 615-8540, Japan^d Department of Mechanical Systems Engineering, Yamagata University, 4-3-16, Jonan, Yonezawa, Yamagata 992-8510, Japan

Power law in swelling of ultra-thin polymer films

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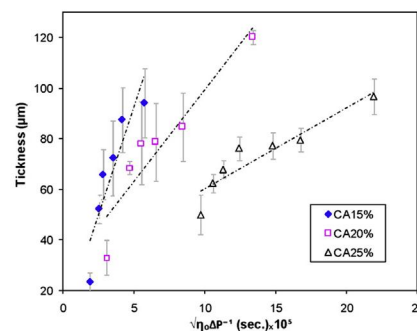


The prediction of polymeric membrane characteristics prepared via nonsolvent induced phase separation by the apparent coagulation time

pp 4675–4685

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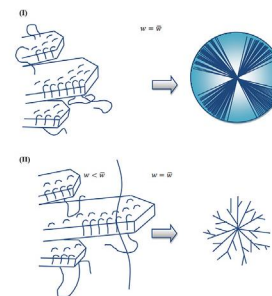


Poly(vinylidene fluoride)-acrylic rubber partially miscible blends: Crystallization within conjugated phases induce dual lamellar crystalline structure

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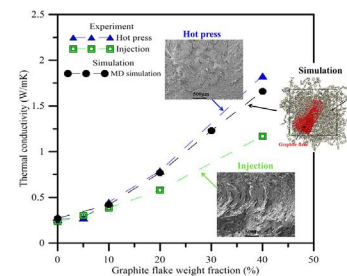


Investigation of thermal conductivity of graphite flake/poly (p-phenylene sulfide) composite by experimental measurement and non-equilibrium molecular dynamics simulation

pp 4702–4709

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The crystallization and crystal transition of PVDF in PAN nano-tube

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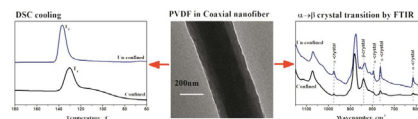
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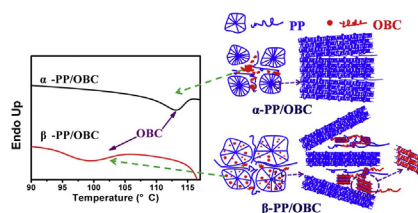
Different crystallization behavior of olefin block copolymer in α - and β -polypropylene matrix

pp 4719–4727

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