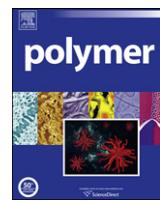




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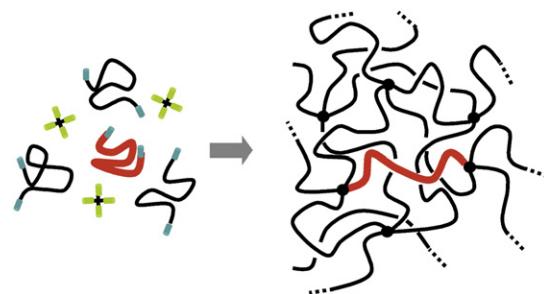
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Kenji Urayama^{a,*}, Takanobu Kawamura^b, Shinzo Kohjiya^c

^a Department of Materials Chemistry, Kyoto University, Kyoto 615-8510, Japan

^b Department of Chemical Engineering, Kanazawa University, Ishikawa 920-1192, Japan

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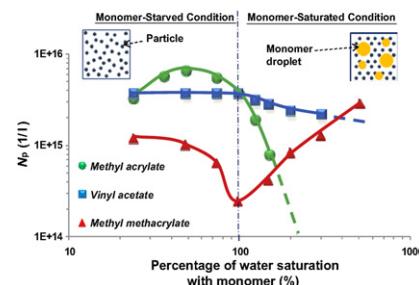
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Division of Engineering, ECLAT, King's College London, London WC2R 2LS, UK



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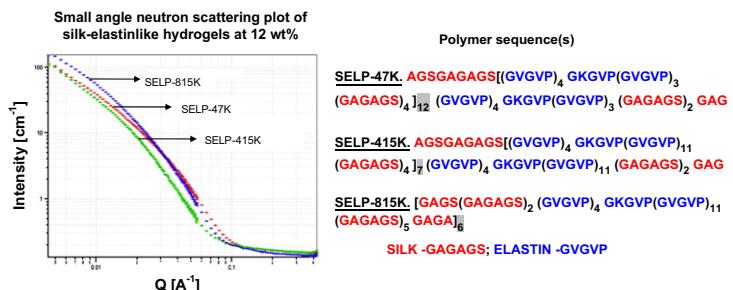
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^a Center for Nanomedicine and Cellular Delivery and Department of Pharmaceutical Sciences, University of Maryland, Baltimore, MD, USA

^b Department of Materials Science and Engineering, University of Maryland, College Park, MD, USA

^c Protein Polymer Technologies, Inc., San Diego, CA, USA

^d Department of Pharmaceutics and Pharmaceutical Chemistry, and Bioengineering, Center for Nanomedicine, Nano Institute of Utah, University of Utah, Salt Lake City, UT, USA

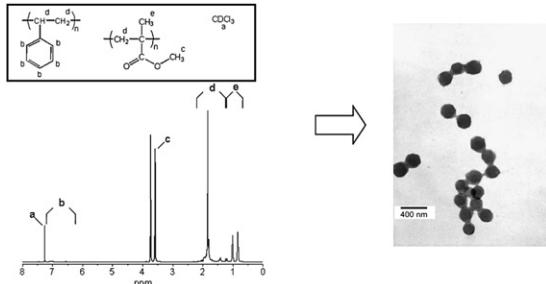
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^a Chemical Engineering Department, University of Santa Catarina, CP 476, CEP 88040-970, Florianópolis, Santa Catarina, Brazil

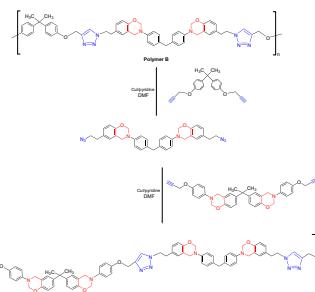
^b Institute for Polymer Materials, POLYMAT, Departamento de Química Aplicada, Facultad de Ciencias Químicas, University of the Basque Country, Joxe Mari Kortazarra, Tolosa Etorbidea 72, 20018 Donostia, San Sebastián, Spain

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Andrey Chernykh, Tarek Agag, Hatsuo Ishida*

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

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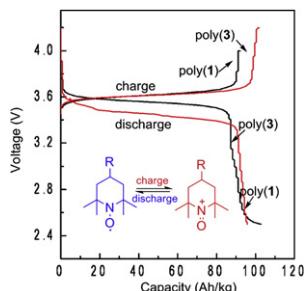
Jinqing Qu^a, Toru Katsumata^b, Masaharu Satoh^c, Jun Wada^d, Toshio Masuda^{b, *}

^a School of Chemistry and Chemical Engineering, South China University of Technology, Guangzhou, Guangdong 510640, China

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^d Corporate Planning Department, Nippon Kasei Chemical Co., Ltd., 1-8-8 Shinkawa, Chuoku, Tokyo 104-0033, Japan



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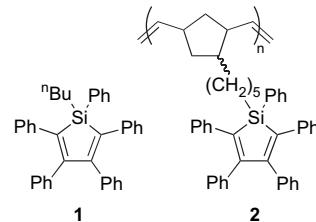
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^a School of Chemistry and Biochemistry and Center for Organic Photonics and Electronics, Georgia Institute of Technology, Atlanta, GA 30332, USA

^b Beijing National Laboratory for Molecular Sciences and CAS Key Laboratory of Organic Solids, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

^c School of Electrical and Computer Engineering and Center for Organic Photonics and Electronics, Georgia Institute of Technology, Atlanta, GA 30332, USA

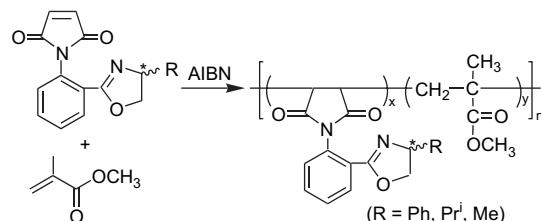
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^a Department of Polymer Science and Engineering, Zhejiang University, Key Laboratory of Macromolecule Synthesis and Functionalization, Ministry of Education, Zheda Road 38, Hangzhou 310027, China

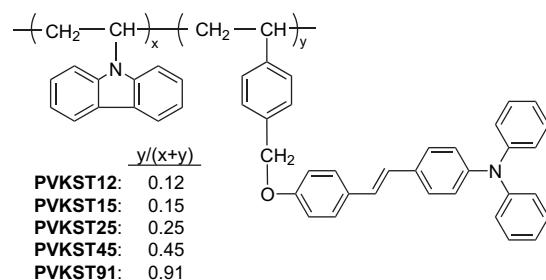
^b College of Materials Science and Engineering, Henan University of Technology, Zhengzhou 450007, China

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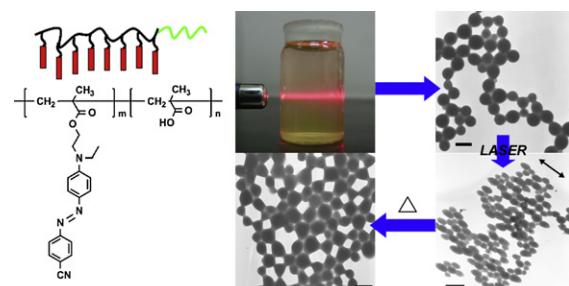
Department of Chemical Engineering, National Cheng Kung University, No. 1, Da-Syue Road, Tainan 701, Taiwan

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Dongrui Wang, Junpeng Liu, Gang Ye, Xiaogong Wang^{*}

Department of Chemical Engineering, Laboratory for Advanced Materials, Tsinghua University, Beijing 100084, PR China

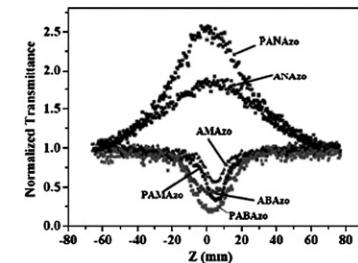
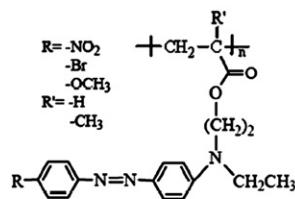


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Key Laboratory of Organic Synthesis of Jiangsu Province,
College of Chemistry, Chemical Engineering and Materials Science,
Renai Road No. 199, Suzhou University, Suzhou, 215123 Jiangsu, PR China



New polyacetylene-based chemosensory materials for the “turn-on” sensing of α -amino acids

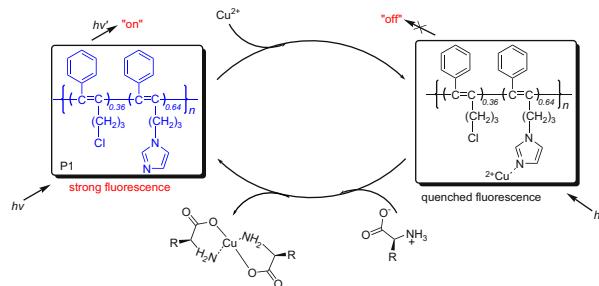
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Qi Zeng^a, Liyao Zhang^b, Zhen Li^{a,*}, Jingui Qin^a, Ben Zhong Tang^c

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

^b College of Life Science, Wuhan University, Wuhan 430072, China

^c Department of Chemistry, The Hong Kong University of Science & Technology, Clear Water Bay, Kowloon, Hong Kong



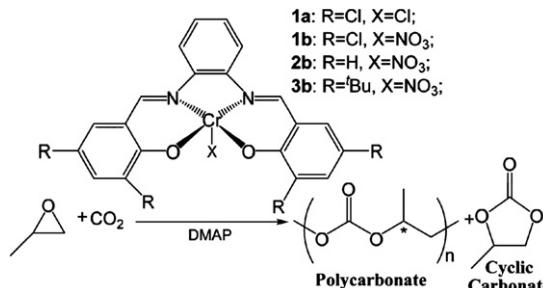
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Yongsheng Niu^{a,b}, Wanxi Zhang^a, Hongchun Li^{a,b}, Xuesi Chen^{b,*}, Jingru Sun^b, Xiuli Zhuang^b, Xiabin Jing^b

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Graft copolymers prepared by atom transfer radical polymerization (ATRP) from cellulose

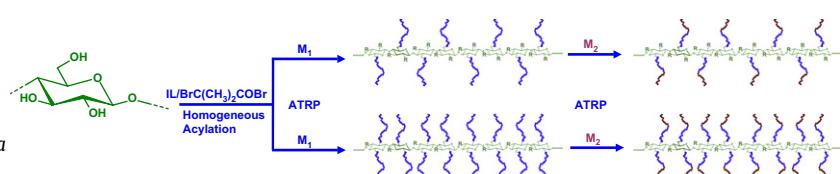
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Tao Meng^a, Xia Gao^b, Jun Zhang^{a,*}, Jinying Yuan^{c,**}, Yuzhu Zhang^a, Jiasong He^a

^a Beijing National Laboratory for Molecular Sciences (BNLMS), Key Laboratory of Engineering Plastics (KLEP), Joint Laboratory of Polymer Science and Materials, Institute of Chemistry, Chinese Academy of Sciences (CAS), Beijing 100190, China

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^c Key Laboratory of Organic Optoelectronics and Molecular Engineering of the Ministry of Education, Department of Chemistry, Tsinghua University, Beijing 100084, China

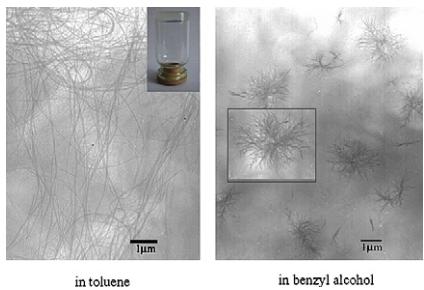


Synthesis and self-assembly of a novel Y-shaped copolymer with a helical polypeptide arm
 Jing Sun^{a,b}, Xuesi Chen^a, Jinshan Guo^{a,b}, Quan Shi^{a,b}, Zhigang Xie^{a,b}, Xiabin Jing^{a,*}

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^a State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, 5625 Renmin Street, Changchun 130022, PR China

^b Graduate School of Chinese Academy of Sciences, Beijing 100039, PR China

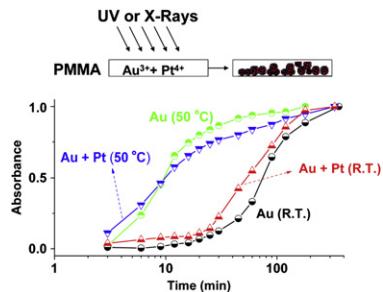


Preparation of Au and Au–Pt nanoparticles within PMMA matrix using UV and X-ray irradiation

Eda Ozkaraoglu, Ilknur Tunc, Sefik Suzer*

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Department of Chemistry and Institute of Materials and Nanotechnology, Bilkent University, 06800 Ankara, Turkey



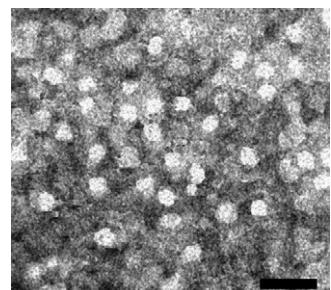
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^a Department of Chemistry, University of Rome La Sapienza, Piazzale Aldo Moro 5, 00185 Rome, Italy

^b Institute of Chemical Methodologies, CNR, Via Salaria km 29300, 00016 Monterotondo Stazione, Rome, Italy

^c Dipartimento di Tecnologie e Salute, Istituto Superiore di Sanita, Viale Regina Elena 299, 00161 Roma, Italy



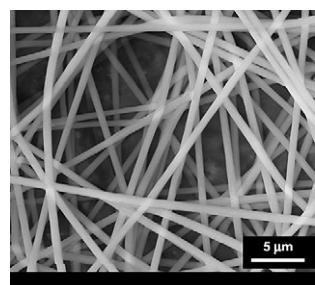
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^a Interdisciplinary Nanoscience Center (iNANO), Aarhus University, Ny Munkegade, Building 1521, DK-8000 Aarhus C, Denmark

^b Department of Physics and Astronomy, Aarhus University, DK-8000 Aarhus C, Denmark

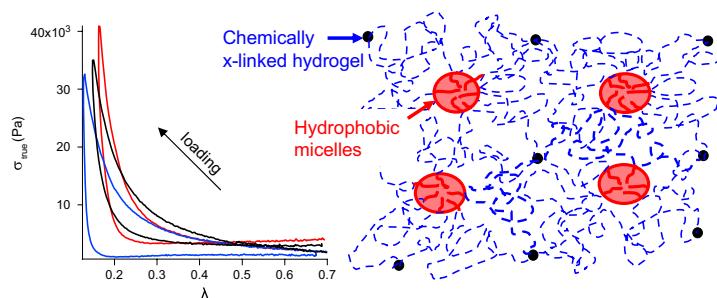
^c Department of Chemistry, Middle East Technical University, Ankara 06531, Turkey



Large strain behaviour of nanostructured polyelectrolyte hydrogels

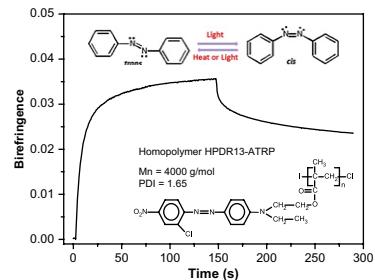
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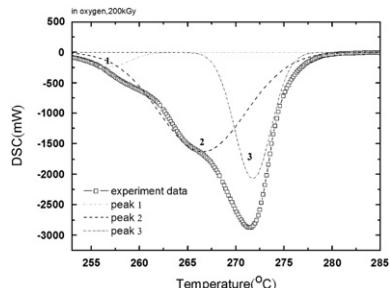
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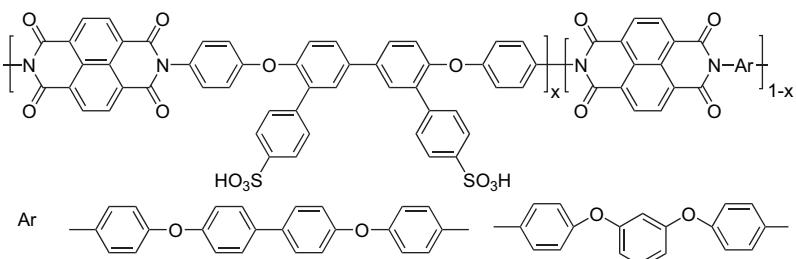
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Universidade de São Paulo, Instituto de Física de São Carlos, Av. Trabalhador São Carlense 400,
CP 369, 13566-590 São Carlos, São Paulo, Brazil**Melting and chemical behaviors of isothermally crystallized gamma-irradiated syndiotactic polystyrene**

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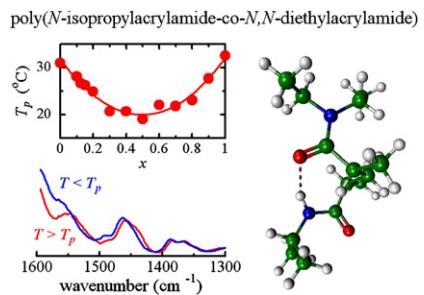
Kangcheng Chen, Xinbing Chen, Kazuaki Yaguchi,
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Yamaguchi University, Tokiwadai 2-16-1, Ube,
Yamaguchi 755-8611, Japan

A unique phase behavior of random copolymer of *N*-isopropylacrylamide and *N,N*-diethylacrylamide in water

Yasushi Maeda^a, Masato Yamabe

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Department of Applied Chemistry and Biotechnology, University of Fukui, 3-9-1 Bunkyo, Fukui 910-8507, Japan



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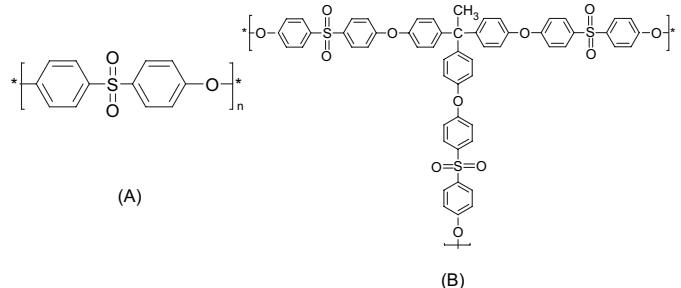
Qian Yang^a, Tai-Shung Chung^{a,*}, M. Weber^b, K. Wollny^c

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^a Department of Chemical and Biomolecular Engineering, National University of Singapore, Singapore 119260, Singapore

^b Polymer Research Engineering Plastics, BASF SE, GKT/B-B1, Ludwigshafen 67056, Germany

^c Anton Paar Germany GmbH, Stuttgart, HRB 214459, Germany



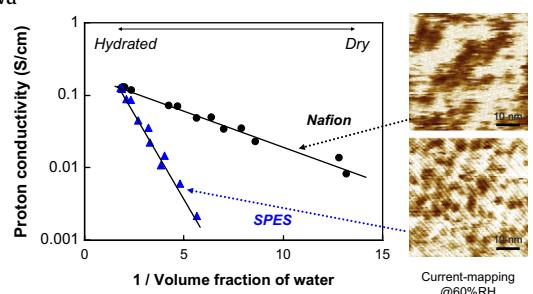
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Naohiko Takimoto^{a,*}, Libin Wu^a, Akihiro Ohira^{a,*}, Yuko Takeoka^{a,b}, Masahiro Rikukawa^b

^a Polymer Electrolyte Fuel Cell Cutting-edge Research Center (FC-Cubic), National Institute of AIST, 2-41-6 Aomi, Koto-ku, Tokyo 135-0064, Japan

^b Department of Materials and Life Science Engineering, Sophia University, 7-1 Kioi-cho, Chiyoda-ku, Tokyo 102-8554, Japan



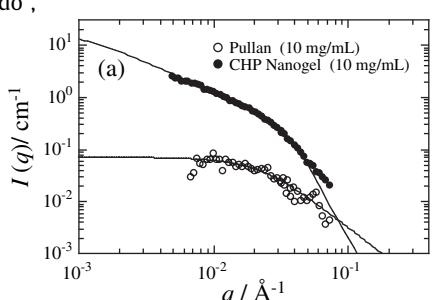
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^a Institute for Solid State Physics, The University of Tokyo, 5-1-5 Kashiwanoha, Kashiwa, Chiba 277-8581, Japan

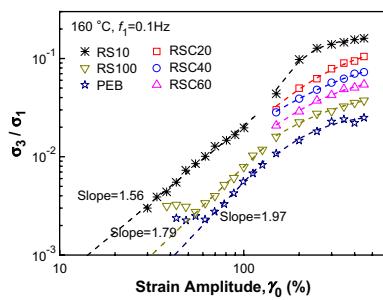
^b Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University, 2-3-10 Kanda-Surugadai, Chiyoda-ku, Tokyo 101-0062, Japan



Control on the topological structure of polyolefin elastomer by reactive processing
Jianye Liu, Wei Yu*, Wei Zhou, Chixing Zhou

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Advanced Rheology Institute, Department of Polymer Science and Engineering, Shanghai Jiao Tong University, Shanghai 200240, PR China



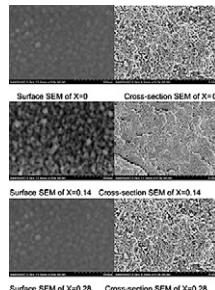
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Shuili Yu^{a,b,*}, Xingtao Zuo^a, Ruiling Bao^a, Xia Xu^a, Juan Wang^a, Jun Xu^a

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^a State Key Laboratory of Urban Water Resource and Environment, Harbin Institute of Technology, Harbin 150090, China

^b State Key Laboratory of Pollution Control and Resource Reuse, Tongji University, Shanghai 200092, China



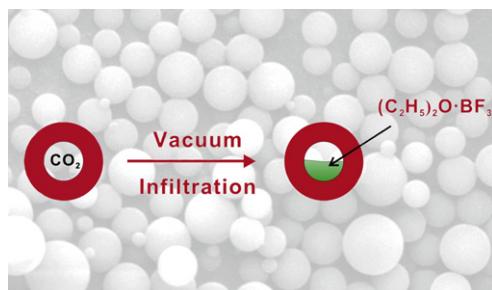
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^a Key Laboratory for Polymeric Composite and Functional Materials of Ministry of Education, OFCM Institute, School of Chemistry and Chemical Engineering, Zhongshan University, Guangzhou 510275, PR China

^b Materials Science Institute, Zhongshan University, Guangzhou 510275, PR China

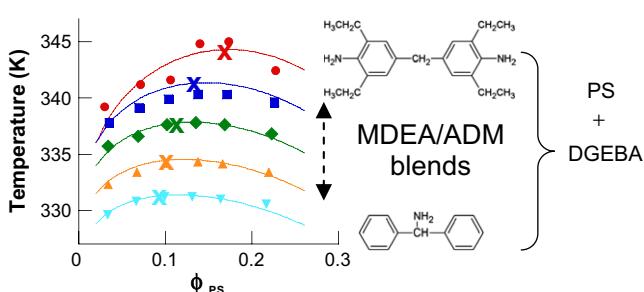


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Maite Rico, Joaquín López*, Carmen Ramírez, Javier Díez, Belén Montero

Departamento de Física, E.U.P. Ferrol, Universidad de A Coruña, Avda, 19 de Febrero s/n, 15405 Ferrol, Spain

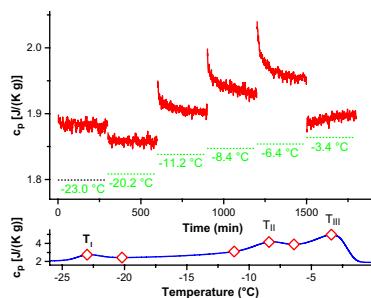


The melting process and the rigid amorphous fraction of cis-1,4-polybutadiene

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Maria Laura Di Lorenzo

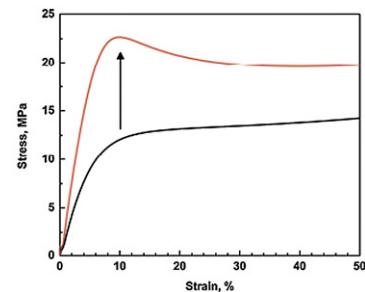
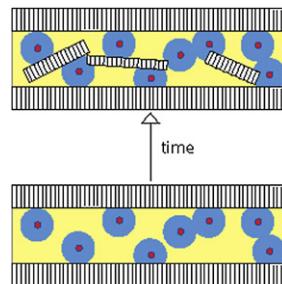
Istituto di Chimica e Tecnologia dei Polimeri (CNR) – c/o Compensorio Olivetti – Via Campi Flegrei, 34–80078 Pozzuoli (NA), Italy

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Robert C. Scogna, Richard A. Register*

Department of Chemical Engineering, Princeton University, Princeton, NJ 08544-5263, United States

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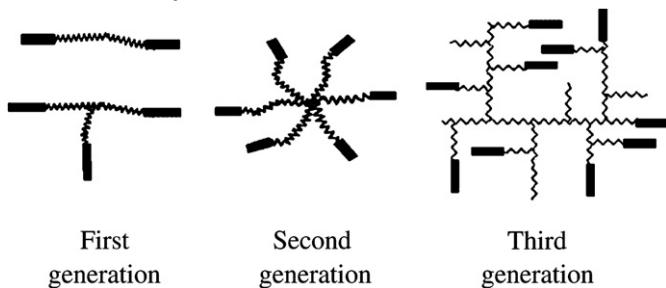
Judit E. Puskas^{a,*}, Lucas M. Dos Santos^a, Frank Fischer^b, Christian Götz^b, Miroslawa El Fray^c, Volker Altstädt^b, Matthew Tomkins^d

^a Department of Polymer Science, The University of Akron, Goodyear Polymer Center, Room 420, 170 University Ave., Akron, OH 44325-3909, USA

^b Department of Polymer Engineering, University of Bayreuth, Universitätstr. 30, 95447 Bayreuth, Germany

^c Division of Biomaterials and Microbiological Technologies, Polymer Institute, Szczecin University of Technology, Pulaskiego 10, Szczecin 70-322, Poland

^d Department of Chemical Engineering, The University of Western Ontario, London, ON, Canada



First generation

Second generation

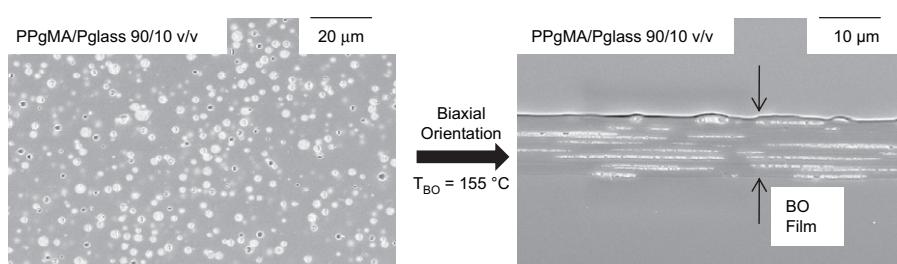
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Biaxially oriented poly(propylene-g-maleic anhydride)/phosphate glass composite films for high gas barrier applications

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Mohit Gupta, Yijian Lin, Taneisha Deans, Alexis Crosby, Eric Baer, Anne Hiltner, David A. Schiraldi*

Department of Macromolecular Science and Engineering, NSF Center for Layered Polymeric Systems, Case Western Reserve University, 2100 Adelbert Road, Cleveland, OH 44106, USA

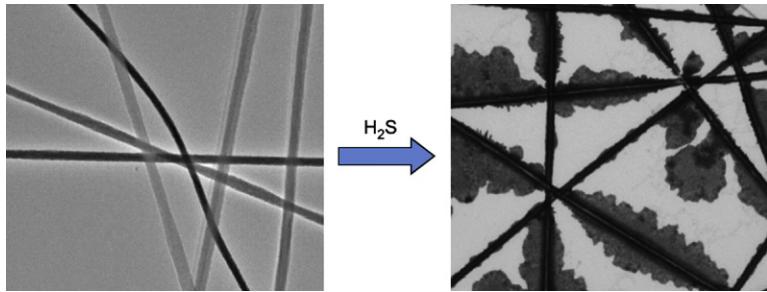


Electrospun polyacrylonitrile/zinc chloride composite nanofibers and their response to hydrogen sulfide

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Liwen Ji, Andrew J. Medford, Xiangwu Zhang*

Fiber and Polymer Science Program,
Department of Textile Engineering, Chemistry and Science,
North Carolina State University, 2401 Research Drive,
Box 8301, Raleigh, NC 27695-8301, USA

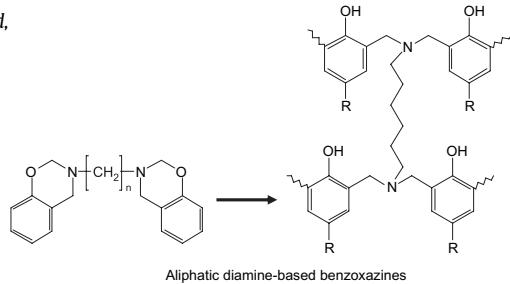


Effect of phenol substitution on the network structure and properties of linear aliphatic diamine-based benzoxazines

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Douglas J. Allen, Hatsuo Ishida*

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



Coupling effects of spinodal decomposition and crystallization on mechanical properties of polyolefin blends

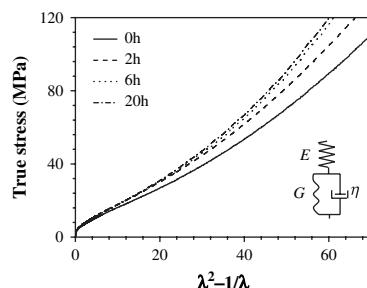
pp 627–635

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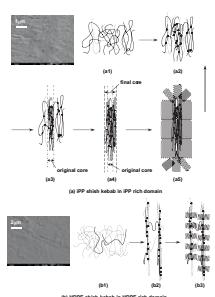
Shear-induced crystallization in a blend of isotactic polypropylene and high density polyethylene

pp 636–644

Yan Wang^a, Kun Meng^{b,*}, Song Hong^b, Xuming Xie^{a,**}, Chenggui Zhang^b, Charles C. Han^{a,b,*}

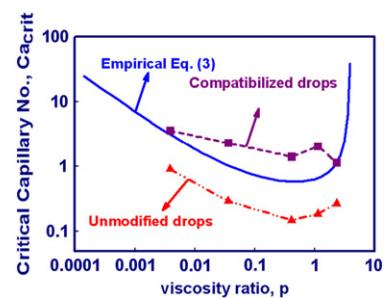
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Effect of compatibilization on the deformation and breakup of drops in step-wise increasing shear flow

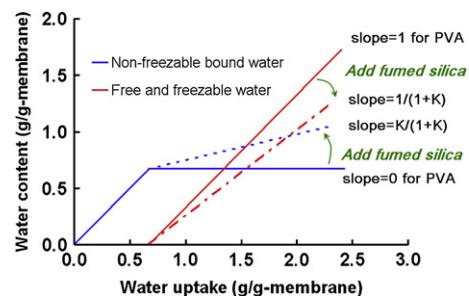
pp 645–653

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pp 654–661

Shingjiang Jessie Lue*, Song-Jiang Shieh

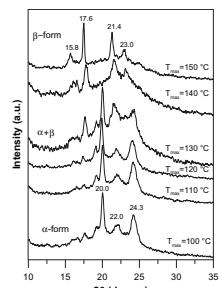
Department of Chemical and Materials Engineering and Green Technology Research Center, Chang Gung University, 259 Wen-Hwa First Road, Kwei-shan, Taoyuan 333, Taiwan

**Thermal, spectroscopy, and morphological studies on polymorphic crystals in poly(heptamethylene terephthalate)**

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Kai C. Yen, Eamor M. Woo*

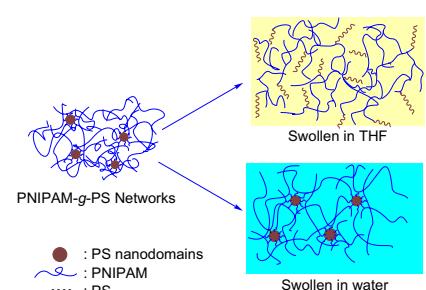
Department of Chemical Engineering, National Cheng Kung University, Tainan 701, Taiwan

**Effect of hydrophobic polystyrene microphases on temperature-responsive behavior of poly(*N*-isopropylacrylamide) hydrogels**

pp 670–678

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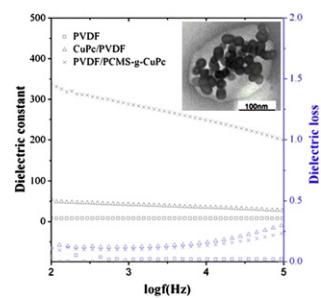


A large enhancement in dielectric properties of poly(vinylidene fluoride) based all-organic nanocomposite
 Jing-Wen Wang^{a,*}, Ye Wang^a, Fang Wang^a, Shu-Qin Li^a, Jun Xiao^a, Qun-Dong Shen^b

pp 679–684

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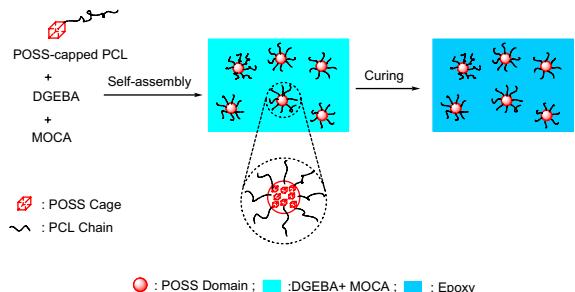
Self-assembly behavior of hepta(3,3,3-trifluoropropyl) polyhedral oligomeric silsesquioxane-capped poly(ϵ -caprolactone) in epoxy resin: Nanostructures and surface properties

pp 685–695

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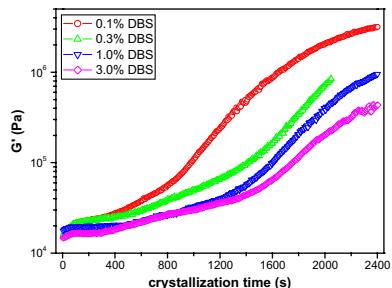
Rheologically determined negative influence of increasing nucleating agent content on the crystallization of isotactic polypropylene

pp 696–706

Ke Wang^a, Chenjuan Zhou^a, Changyu Tang^a, Qin Zhang^a, Rongni Du^a, Qiang Fu^{a,*}, Lin Li^b

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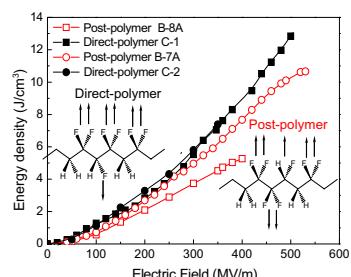
Energy storage study of ferroelectric poly(vinylidene fluoride-trifluoroethylene-chlorotrifluoroethylene) terpolymers

pp 707–715

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Water wettability/non-wettability of polymer materials by molecular orbital studies

pp 716–720

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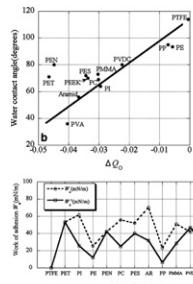
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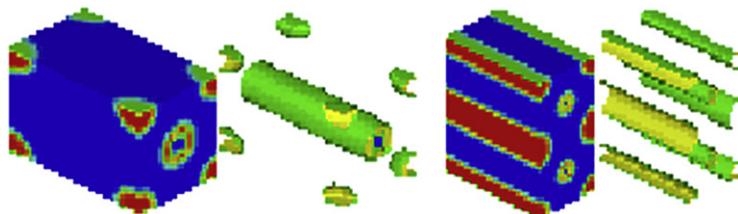
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**Cooperative surface-induced self-assembly of symmetric diblock copolymers confined films with embedded nanorods**

pp 721–727

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