

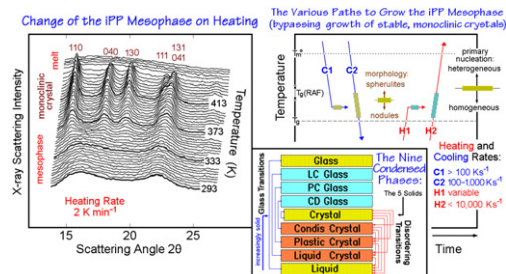
Polymer Vol. 51, No. 21, 1 October 2010

Contents

FEATURE ARTICLE

Mesophases in polyethylene, polypropylene, and poly(1-butene)

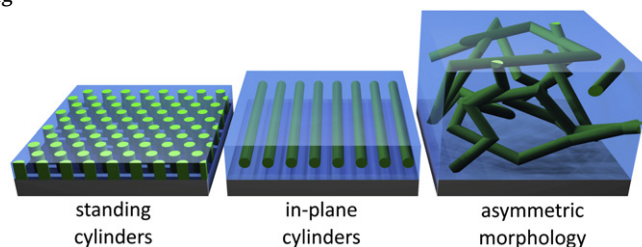
pp 4639–4662

René Androsch^a, Maria Laura Di Lorenzo^b, Christoph Schick^c, Bernhard Wunderlich^{d,e,*}^a Martin-Luther-University Halle-Wittenberg, Center of Engineering Sciences, D-06099 Halle/S., Germany^b Istituto di Chimica e Tecnologia dei Polimeri (CNR), c/o Comprensorio Olivetti, Via Campi Flegrei 34, 80078 Pozzuoli (NA), Italy^c University of Rostock, Institute of Physics, Wismarsche Straße 43–45, D-18051 Rostock, Germany^d Department of Chemistry, University of Tennessee, Knoxville, USA^e Chemical Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN, USA

POLYMER COMMUNICATIONS

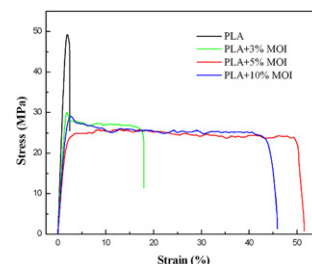
Asymmetric morphology from an organic/organometallic block copolymer

pp 4663–4666

Muruganathan Ramanathan^a, Joseph Strzalka^b, Jin Wang^b, Seth B. Darling^{a,*}^a Center for Nanoscale Materials, Argonne National Laboratory, Argonne, IL 60439, United States^b X-ray Science Division, Argonne National Laboratory, Argonne, IL 60439, United States

Ductile PLA modified with methacryloyloxyalkyl isocyanate improves mechanical properties

pp 4667–4672

Bor-Kuan Chen^{a,*}, Chia-Hsu Shen^a, Shu-Chuan Chen^a, Antonia F. Chen^b^a Department of Polymer Materials, Kun Shan University, Tainan, 71003, Taiwan^b Department of Orthopaedic Surgery, University of Pittsburgh Medical Center, Pittsburgh, PA 15206, USA

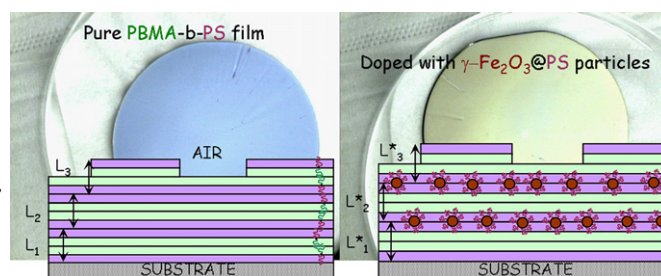
POLYMER PAPERS

Incorporation of magnetic nanoparticles into lamellar polystyrene-*b*-poly(*n*-butyl methacrylate) diblock copolymer films: Influence of the chain end-groups on nanostructuration

pp 4673–4685

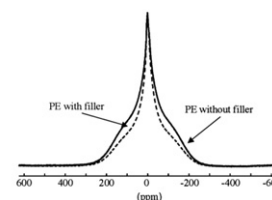
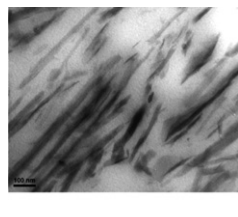
Siham Douadi-Masrouki^{a,b,c}, Bruno Frka-Petescic^{a,b,c}, Maud Save^{d,e}, Bernadette Charleux^{d,e}, Valérie Cabuil^{a,b,c}, Olivier Sandre^{a,b,c,*}^a UPMC Univ Paris 6, UMR 7195 Physicochimie des Electrolytes,

Colloïdes et Sciences Analytiques, 4 place Jussieu, case 51 75005 Paris France

^b Centre National de la Recherche Scientifique, UMR 7195 PECSA, 75005 Paris France^c ESPCI ParisTech, UMR 7195 PECSA, 75005 Paris France^d UPMC Univ Paris 6, UMR 7610 Laboratoire de Chimie des Polymères, 4 place Jussieu, case 185 75005 Paris France^e Centre National de la Recherche Scientifique, UMR 7610 LCP, 75005 Paris France

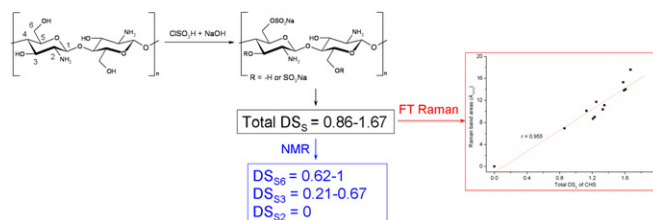
Polyethylene/palygorskite nanocomposites: Preparation by *in situ* polymerization and their characterization

pp 4686–4697

Wei Li^a, Alina Adams^{b,*}, Jingdai Wang^{a,**}, Bernhard Blümich^b, Yongrong Yang^a^a State Key Laboratory of Chemical Engineering, Department of Chemical Engineering, Zhejiang University, Hangzhou 310027, PR China^b Institut für Technische Chemie und Makromolekulare Chemie, RWTH Aachen University, Templergraben 55, D-52056 Aachen, Germany

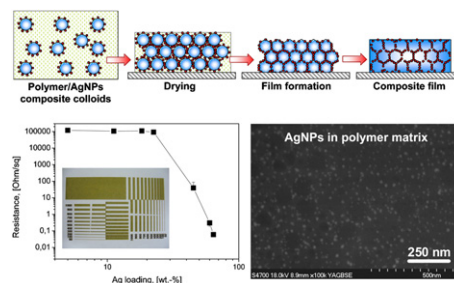
NMR and FT Raman characterisation of regioselectively sulfated chitosan regarding the distribution of sulfate groups and the degree of substitution

pp 4698–4705

Kai Zhang^a, Johanna Helm^a, Dieter Peschel^b, Margit Gruner^c, Thomas Groth^b, Steffen Fischer^{a,*}^a Institute of Plant and Wood Chemistry, Dresden University of Technology, Pienner Str. 19, 01737 Tharandt, Germany^b Biomedical Materials Group, Institute of Pharmacy, Martin Luther University Halle-Wittenberg, Heinrich-Damerow-Strasse 4, 06120 Halle (Saale), Germany^c Institute of Organic Chemistry, Dresden University of Technology, Bergstr. 66c, 01062 Dresden, Germany

Microwave-assisted synthesis of hybrid colloids for design of conducting films

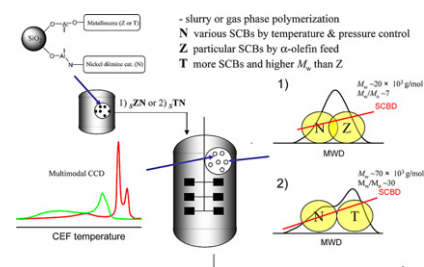
pp 4706–4712

Alexander Türke^a, Wolf-Joachim Fischer^a, Hans-Juergen Adler^b, Andrij Pich^{c,*}^a Fraunhofer IPMS, Maria-Reiche-Str. 2, 01109 Dresden, Germany^b Technische Universität Dresden, Macromolecular Chemistry, Mommsenstr. 4, 01067 Dresden, Germany^c DWI RWTH Aachen University, Functional and Interactive Polymers, Pauwelsstr. 8, 52056 Aachen, Germany**Supported hybrid early and late transition metal catalysts for the synthesis of polyethylene with tailored molecular weight and chemical composition distributions**

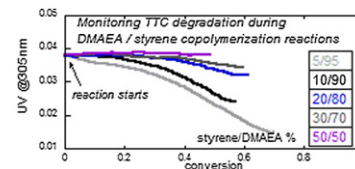
pp 4713–4725

Yiyong Choi, João B.P. Soares^{*}

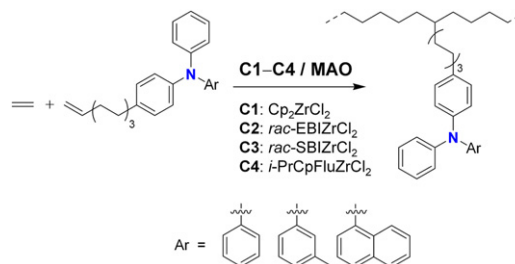
Department of Chemical Engineering, University of Waterloo, Ontario, Canada N2L 3G1

**Online monitoring of the copolymerization of 2-(dimethylamino)ethyl acrylate with styrene by RAFT. Deviations from reaction control**

pp 4726–4734

Zheng Li^a, Algirdas K. Serelis^b, Wayne F. Reed^a, Alina M. Alb^{a,*}^a Dept. of Physics and Tulane Center for Polymer Reaction Monitoring and Characterization (PolyRMC), Tulane University, New Orleans, LA 70118, USA^b DuluxGroup, 1956 Princes Highway, Clayton, Victoria 3168, Australia**Metallocene-catalyzed synthesis of polyethylenes with side-chain triarylamines: Effects of catalyst structure and triaryllamine functionality**

pp 4735–4743

Myung Hwan Park^a, Jun Ha Park^a, Youngkyu Do^{a,**}, Min Hyung Lee^{b,*}^a Department of Chemistry, KAIST, Daejeon 305-701, Republic of Korea^b Department of Chemistry and Energy Harvest-Storage Research Center, University of Ulsan, Ulsan 680-749, Republic of Korea

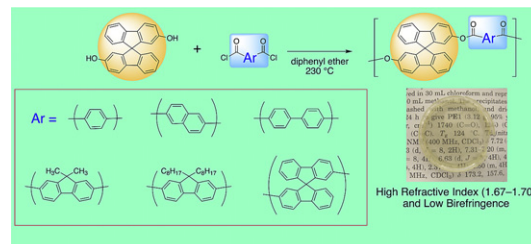
Synthesis and property of 9,9'-spirobifluorene-containing aromatic polyesters as optical polymers with high refractive index and low birefringence

pp 4744–4749

Ryota Seto^a, Takahiro Kojima^b, Katsumoto Hosokawa^b, Yasuhito Koyama^a,
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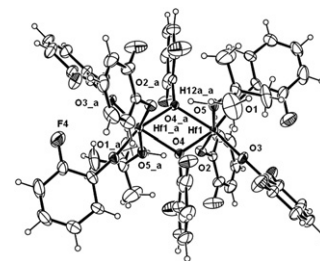


Aryloxy and benzyloxy compounds of hafnium: Synthesis, structural characterization and studies on solvent-free ring-opening polymerization of ϵ -caprolactone and δ -valerolactone

pp 4750–4759

Ravikumar R. Gowda, Debashis Chakraborty*, Venkatachalam Ramkumar

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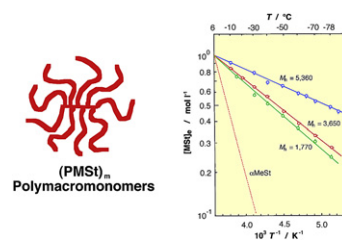


Kinetic and thermodynamic characteristics of anionic living-equilibrium polymerization for (*p*-isopropenylphenethyl)-poly(α -methylstyrene) macromonomer

pp 4760–4768

Kazunori Se*, Masaaki Suzuki

Department of Materials Science and Engineering, Graduate School of Engineering, University of Fukui,
Bunkyo 3-9-1, Fukui 910-8507, Japan

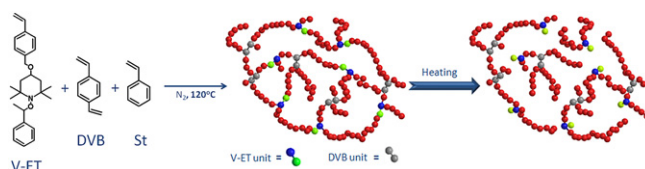


Synthesis of thermosensitive gel by living free radical polymerization mediated by an alkoxyamine inimer

pp 4769–4775

Junyu Chen, Junpo He*, Yuefei Tao, Chengming Li, Yuliang Yang

Department of Macromolecular Science, The Key Laboratory of Molecular
Engineering of Polymers, Ministry of Education, Fudan University,
Shanghai 200433, China

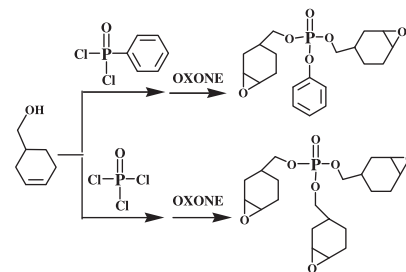


Phosphorus-containing liquid cycloaliphatic epoxy resins for reworkable environment-friendly electronic packaging materials

pp 4776–4783

Wanshuang Liu, Zhonggang Wang*, Li Xiong, Linni Zhao

Department of Polymer Science and Engineering, Key Laboratory of Polymer Science and Engineering of Liaoning Province, State Key Laboratory of Fine Chemicals, School of Chemical Engineering, Dalian University of Technology, Zhongshan Road 158, Dalian, 116012, P. R. China

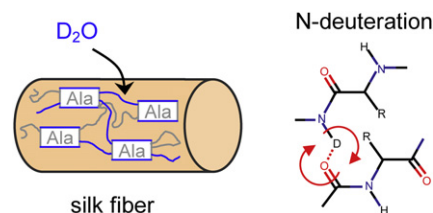


Partial deuteration probing structural changes in supercontracted spider silk

pp 4784–4789

Roxana Ene, Periklis Papadopoulos*, Friedrich Kremer

University of Leipzig, Institute for Experimental Physics I, Linnéstr. 5, 04109 Leipzig, Germany

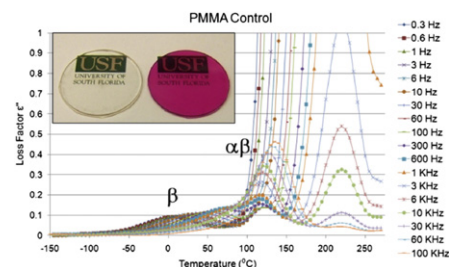


Dielectric analysis of poly(methyl methacrylate) zinc(II) mono-pinacolborane diphenylporphyrin composites

pp 4790–4805

Brent Hilker, Kimberly B. Fields, Abraham Stern, Brian Space, X. Peter Zhang, Julie P. Harmon*

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Star-like poly(*n*-butyl acrylate)-*b*-poly(α -methylene- γ -butyrolactone) block copolymers for high temperature thermoplastic elastomers applications

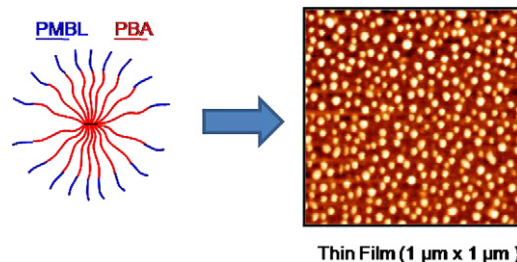
pp 4806–4813

Azhar Juhari^a, Jaroslav Mosnáček^{b,c}, Jeong Ae Yoon^b, Alper Nese^b, Kaloian Koynov^a, Tomasz Kowalewski^b, Krzysztof Matyjaszewski^{b,*}

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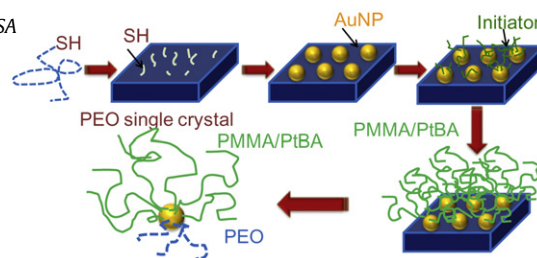
^b Department of Chemistry, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA, 15213, USA

^c Polymer Institute, Slovak Academy of Sciences, Dúbravská cesta 9, 842 36 Bratislava, Slovakia



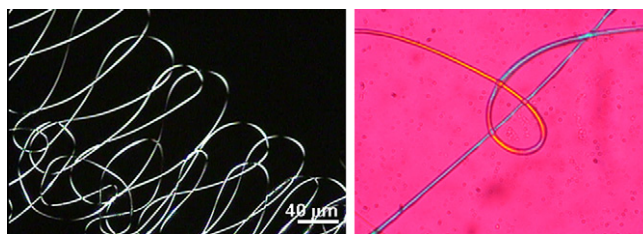
Janus gold nanoparticle with bicompartiment polymer brushes templated by polymer single crystals

pp 4814–4822

Bingbing Wang^a, Bin Dong^a, Bing Li^a, Bin Zhao^b, Christopher Y. Li^{a,*}^a Department of Materials Science and Engineering, Drexel University, Philadelphia, PA 19104, USA^b Department of Chemistry, University of Tennessee, Knoxville, TN 37996, USA

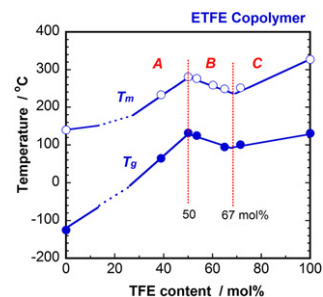
Self-assembled, optically responsive nematic liquid crystal/polymer core-shell fibers: Formation and characterization

pp 4823–4830

Ebru A. Buyuktanir^{a,*}, Margaret W. Frey^b, John L. West^a^a Liquid Crystal Institute, Kent State University, Kent, OH 44242, USA^b Fiber Science & Apparel Design, Cornell University, Ithaca, NY 14853, USA

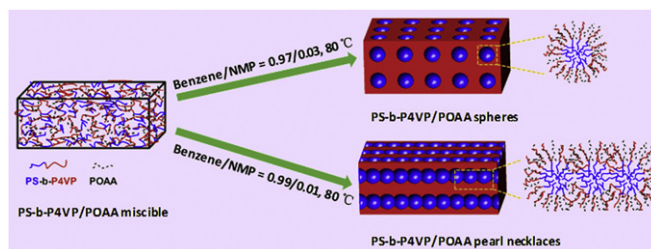
Influence of alternating sequential fraction on the melting and glass transition temperatures of ethylene–tetrafluoroethylene copolymer

pp 4831–4835

Kiyotaka Arai^{a,*}, Atsushi Funaki^a, Suttinun Phongtamrug^b, Kohji Tashiro^{b,*}^a AGC Chemicals, Asahi Glass Co. Ltd, Kanagawa Yokohama 221-8755, Japan^b Department of Future Industry-oriented Basic Science and Materials, Toyota Technological Institute, Nagoya 468-8511, Japan

Solvent annealing assisted self-assembly of hydrogen-bonded interpolymer complexes of AB block copolymer/C homopolymer in thin film

pp 4836–4842

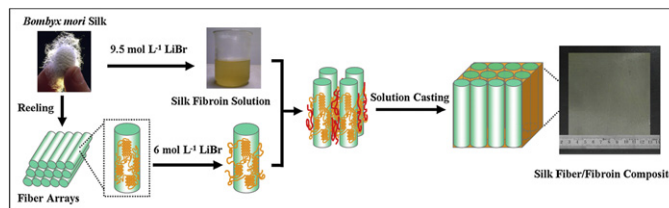
Chao Wang^{a,b}, Tingmei Wang^{a,*}, Qihua Wang^{a,*}^a State Key Laboratory of Solid Lubrication, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou 730000, PR China^b Graduate School, Chinese Academy of Sciences, Beijing 100039, PR China

The preparation of high performance silk fiber/fibroin composite

pp 4843–4849

Qingqing Yuan, Jinrong Yao, Xin Chen, Lei Huang, Zhengzhong Shao*

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Department of Macromolecular Science, Laboratory of Advanced Materials,
Fudan University, Shanghai, 200433, PR China



Alkaline solid polymer electrolyte membranes based on structurally modified PVA/PVP with improved alkali stability

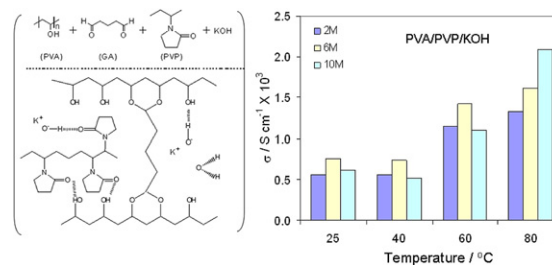
pp 4850–4859

Jinli Qiao^{a,*}, Jing Fu^{b,c}, Rui Lin^c, Jianxin Ma^c, Jianshe Liu^a

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Shanghai 200237, China

^c Clean Energy Automotive Engineering Center, Tongji University,
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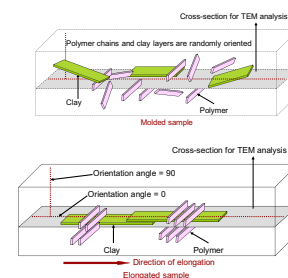


Mechanism of enhanced tenacity in a polymer nanocomposite studied by small-angle X-ray scattering and electron microscopy

pp 4860–4866

Jayita Bandyopadhyay, Suprakas Sinha Ray*

DST/CSIR Nanotechnology Innovation Centre, National Centre for Nano-Structured Materials, Council for
Scientific and Industrial Research, Pretoria 0001, Republic of South Africa



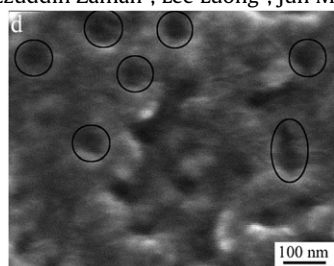
Structure–property relations of 55 nm particle-toughened epoxy

pp 4867–4879

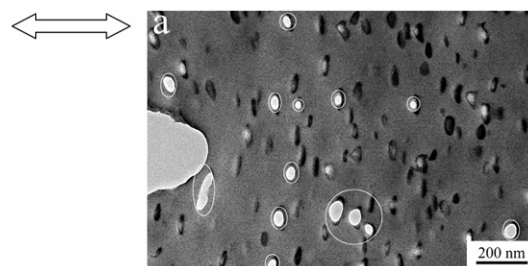
Quyen-Huyen Le^a, Hsu-Chiang Kuan^b, Jia-Bin Dai^a, Izzuddin Zaman^a, Lee Luong^a, Jun Ma^{a,*}

^a School of Advanced Manufacturing and Mechanical
Engineering, University of South Australia,
Mawson Lakes, South Australia 5095, Australia

^b Department of Energy Application Engineering,
Far East University, Tainan County 744, Taiwan



SEM: Fracture surface shows matrix plastic void growth



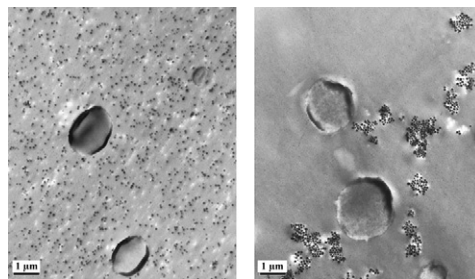
TEM: Crack tip shows voids starting from expansion of nanoparticles

The toughening mechanism in hybrid epoxy-silica-rubber nanocomposites (HESRNs)

pp 4880–4890

Y.L. Liang, R.A. Pearson*

Center for Polymer Science and Engineering, Lehigh University, 5 East Packer Ave, Bethlehem, PA 18015-3195, USA



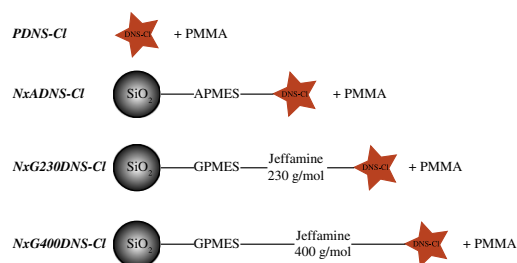
Molecular probe technique for determining local thermal transitions: The glass transition at Silica/PMMA nanocomposite interfaces

pp 4891–4898

Katelyn Parker^a, Ryan T. Schneider^a, Richard W. Siegel^a, Rahmi Ozisik^{a,*}, Juan Carlos Cabanelas^b, Berna Serrano^b, Claire Antonelli^b, Juan Baselga^b

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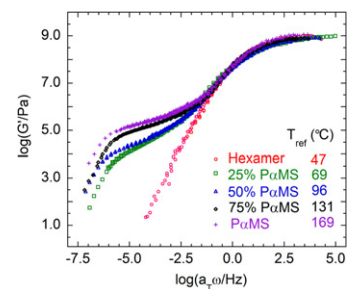


The viscoelastic behavior of polymer/oligomer blends

pp 4899–4906

W. Zheng, G.B. McKenna, S.L. Simon*

Department of Chemical Engineering, Texas Tech University, Lubbock, TX 79409-3121, USA



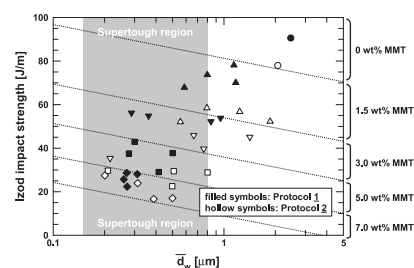
Effect of organoclay structure and mixing protocol on the toughening of amorphous polyamide/elastomer blends

pp 4907–4915

Youngjae Yoo^a, Rajkiran R. Tiwari^a, Young-Tai Yoo^b, Donald R. Paul^{a,*}

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^b Department of Materials Chemistry and Engineering, Konkuk University, Seoul 143-701, Republic of Korea



Shear-induced orientation in polymer/clay dispersions via *in situ* X-ray scattering

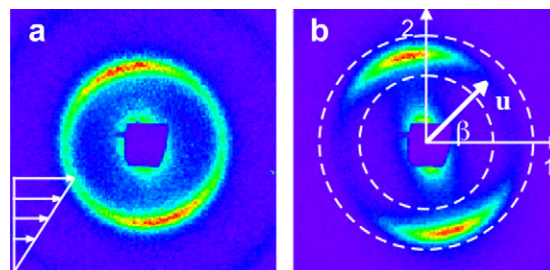
pp 4916–4927

Laura M.C. Dykes^a, John M. Torkelson^{a,b}, Wesley R. Burghardt^{a,b,*},
Ramananan Krishnamoorti^c

^a Department of Chemical and Biological Engineering, Northwestern University, Evanston, IL 60208, USA

^b Department of Materials Science and Engineering, Northwestern University, Evanston, IL 60208, USA

^c Department of Chemical Engineering, University of Houston, Houston, TX 77204, USA

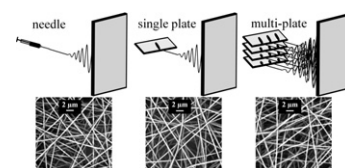
**Unconfined fluid electrospun into high quality nanofibers from a plate edge**

pp 4928–4936

Nagarajan Muthuraman Thoppey^a, Jason R. Bochinski^b, Laura I. Clarke^{b,**}, Russell E. Gorga^{a,*}

^a Fiber and Polymer Science Program, North Carolina State University, Raleigh, NC 27695, USA

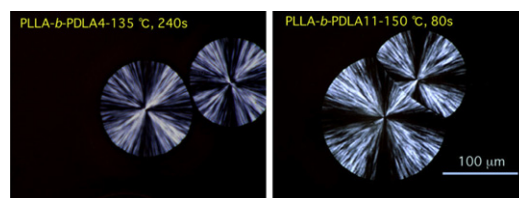
^b Department of Physics, North Carolina State University, Raleigh, NC 27695, USA

**Stereocomplex crystallization and spherulite growth behavior of poly(L-lactide)-b-poly(D-lactide) stereodiblock copolymers**

pp 4937–4947

Hidetoshi Tsuji^{*}, Takeshi Wada, Yuzuru Sakamoto, Yu Sugiura

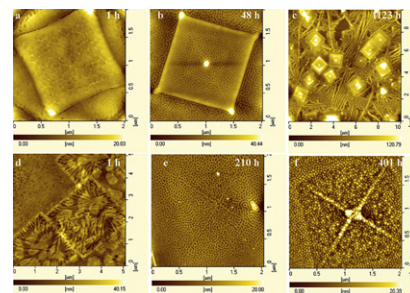
Department of Environmental and Life Sciences, Graduate School of Engineering, Toyohashi University of Technology, Tempaku-cho, Toyohashi, Aichi 441-8580, Japan

**Transition between crystallization and microphase separation in PS-*b*-PEO thin film influenced by solvent vapor selectivity**

pp 4948–4957

Ping Yang, Xinhong Yu^{*}, Yanchun Han

State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences; Graduate University of The Chinese Academy of Sciences, 5625 Renmin Street, Changchun 130022, PR China



A facile route for preparing stable co-continuous morphology of LLDPE/PA6 blends with low PA6 content

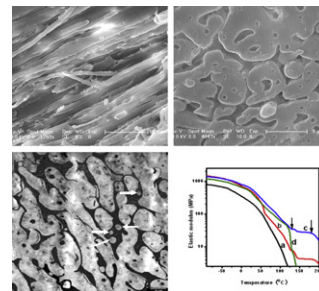
pp 4958–4968

Hengchong Shi^a, Dean Shi^{b,c,*}, Xiaoyang Wang^b, Ligang Yin^a, Jinghua Yin^{a,**},
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^c Centre for Advanced Materials Technology (CAMT), School of Aerospace, Mechanical and Mechatronic Engineering J07, The University of Sydney, Sydney, NSW 2006, Australia



Morphology, microstructure and compatibility of impact polypropylene copolymer

pp 4969–4977

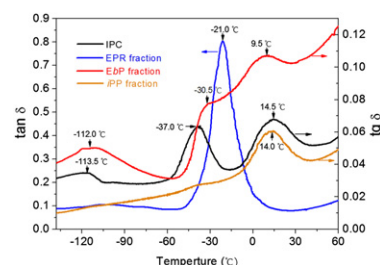
Chunhui Zhang^{a,b}, Yonggang Shangguan^{a,b,*}, Ruifen Chen^{a,b}, Yuanzhi Wu^{a,b},
Feng Chen^{a,b}, Qiang Zheng^{a,b,*}, Guohua Hu^{c,d}

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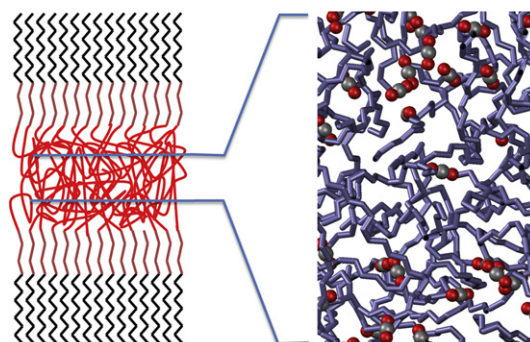
Molecular simulations of the solubility of gases in polyethylene below its melting temperature

pp 4978–4984

Peyman Memari^{a,b}, Véronique Lachet^b, Bernard Rousseau^{a,*}

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A combined molecular dynamics and experimental study of doped polypyrrole

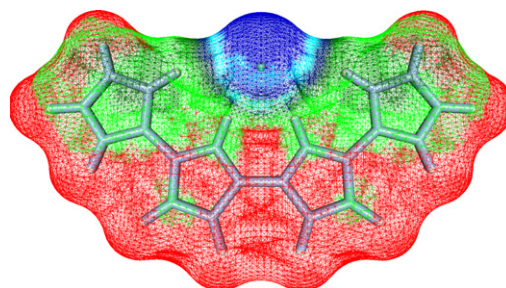
pp 4985–4993

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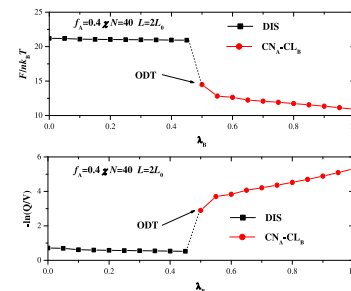
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Surface-induced phase transitions in dense nanoparticle arrays of lamella-forming diblock copolymers

pp 4994–5001

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Author Index

- Adams, A. 4686
 Adler, H.-J. 4706
 Alb, A. M. 4726
 Androsch, R. 4639
 Antonelli, C. 4891
 Arai, K. 4831
- Bandyopadhyay, J. 4860
 Baselga, J. 4891
 Blümich, B. 4686
 Bochinski, J. R. 4928
 Burghardt, W. R. 4916
 Buyuktanir, E. A. 4823
- Cabanelas, J. C. 4891
 Cabuil, V. 4673
 Chakraborty, D. 4750
 Charleux, B. 4673
 Chen, A. F. 4667
 Chen, B.-K. 4667
 Chen, F. 4969
 Chen, J. 4769
 Chen, P. 4994
 Chen, R. 4969
 Chen, S.-C. 4667
 Chen, X. 4843
 Choi, Y. 4713
 Clarke, L. I. 4928
- Dai, J.-B. 4867
 Darling, S. B. 4663
 Di Lorenzo, M. L. 4639
 Do, Y. 4735
 Dong, B. 4814
 Douadi-Masrouki, S. 4673
 Dykes, L. M. C. 4916
- Ene, R. 4784
- Fields, K. B. 4790
 Fischer, S. 4698
 Fischer, W.-J. 4706
 Fonner, J. M. 4985
 Frey, M. W. 4823
 Frka-Petesic, B. 4673
 Fu, J. 4850
 Funaki, A. 4831
- Gorga, R. E. 4928
 Gowda, R. R. 4750
 Groth, T. 4698
 Gruner, M. 4698
- Han, Y. 4948
 Harmon, J. P. 4790
 He, J. 4769
 Helm, J. 4698
 Hilker, B. 4790
 Hosokawa, K. 4744
 Hu, G. 4969
 Huang, L. 4843
- Ji, Y. 4994
 Juhari, A. 4806
- Kojima, T. 4744
 Konishi, G.-i. 4744
 Kowalewski, T. 4806
 Koyama, Y. 4744
 Koynov, K. 4806
 Kremer, F. 4784
 Krishnamoorti, R. 4916
 Kuan, H.-C. 4867
- Lachet, V. 4978
 Le, Q.-H. 4867
 Lee, M. H. 4735
 Li, B. 4814
 Li, C. 4769
 Li, C. Y. 4814
 Li, S. 4994
 Li, W. 4686
 Li, Z. 4726
 Liang, H. 4994
 Liang, Y. L. 4880
 Lin, R. 4850
 Liu, J. 4850
 Liu, W. 4776
 Luong, L. 4867
- Ma, J. 4850
 Ma, Jun 4867
 Mai, Y.-W. 4958
 Matyjaszewski, K. 4806
 McKenna, G. B. 4899
 Memari, P. 4978
 Mosnáček, J. 4806
- Nese, A. 4806
- Ozisik, R. 4891
- Papadopoulos, P. 4784
 Park, J. H. 4735
 Park, M. H. 4735
 Parker, K. 4891
 Paul, D. R. 4907
 Pearson, R. A. 4880
 Peschel, D. 4698
 Phongtamrug, S. 4831
 Pich, A. 4706
- Qiao, J. 4850
- Ramanathan, M. 4663
 Ramkumar, V. 4750
 Reed, W. F. 4726
 Ren, P. 4985
 Rousseau, B. 4978
- Sakamoto, Y. 4937
 Sandre, O. 4673
 Save, M. 4673
 Schick, C. 4639
 Schmidt, C. E. 4985
 Schneider, R. T. 4891
 Se, K. 4760
 Serelis, A. K. 4726
 Serrano, B. 4891
- Seto, R. 4744
 Shangguan, Y. 4969
 Shao, Z. 4843
 Shen, C.-H. 4667
 Shi, D. 4958
 Shi, H. 4958
 Siegel, R. W. 4891
 Simon, S. L. 4899
 Sinha Ray, S. 4860
 Soares, J. B. P. 4713
 Space, B. 4790
 Stern, A. 4790
 Strzalka, J. 4663
 Sugiura, Y. 4937
 Suzuki, M. 4760
- Takata, T. 4744
 Tao, Y. 4769
 Tashiro, K. 4831
 Thoppey, N. M. 4928
 Tiwari, R. R. 4907
 Torkelson, J. M. 4916
 Tsuji, H. 4937
 Türke, A. 4706
- Wada, T. 4937
 Wang, B. 4814
 Wang, C. 4836
 Wang, J. 4663
 Wang, Jingdai 4686
 Wang, Q. 4836
 Wang, T. 4836
 Wang, X. 4958
 Wang, Z. 4776
 West, J. L. 4823
 Wu, Y. 4969
 Wunderlich, B. 4639
- Xiong, L. 4776
- Yang, P. 4948
 Yang, Y. 4686
 Yang, Yuliang 4769
 Yao, J. 4843
 Yin, J. 4958
 Yin, L. 4958
 Yoo, Y. 4907
 Yoo, Y.-T. 4907
 Yoon, J. A. 4806
 Yu, X. 4948
 Yuan, Q. 4843
- Zaman, I. 4867
 Zhang, C. 4969
 Zhang, K. 4698
 Zhang, L. 4994
 Zhang, X. P. 4790
 Zhao, B. 4814
 Zhao, L. 4776
 Zheng, Q. 4969
 Zheng, W. 4899