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Contents

PUBLISHER'S NOTE

POLYMER enters its 50th year of publication

Rumen Duhlev

pp 1–2

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EDITORIAL

POLYMER 1960–2009

Ian Ward

pp 3–4

School of Physics and Astronomy, University of Leeds, Leeds LS2 9JT, United Kingdom

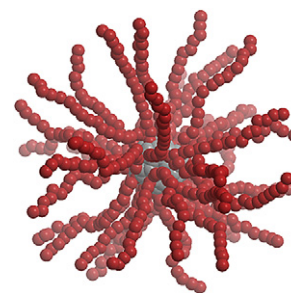
FEATURE ARTICLE

Core cross-linked star polymers via controlled radical polymerisation

Anton Blencowe, Jing Fung Tan, Tor Kit Goh, Greg G. Qiao*

pp 5–32

*Polymer Science Group, Department of Chemical and Biomolecular Engineering,
The University of Melbourne, Melbourne 3010, Australia*



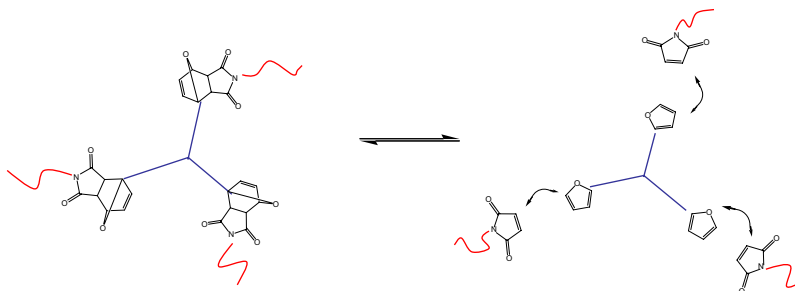
POLYMER COMMUNICATIONS

Reversible releasing of arms from star morphology polymers

Nattharika Aumsuwan, Marek W. Urban*

pp 33–36

School of Polymers and High Performance Materials,
Shelby F. Thames Polymer Science Research Center,
The University of Southern Mississippi, Hattiesburg,
MS 39406, United States

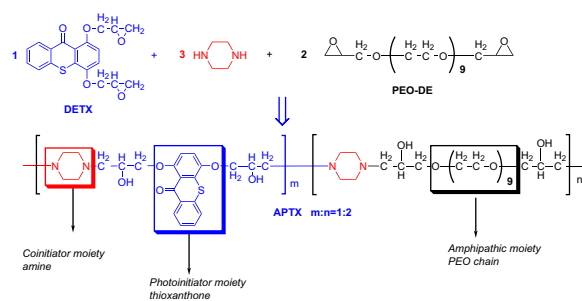


A novel amphipathic polymeric thioxanthone photoinitiator

Xuesong Jiang*, Jue Luo, Jie Yin*

pp 37–41

School of Chemistry and Chemical Technology, Shanghai Jiao Tong University,
Shanghai 200240, People's Republic of China



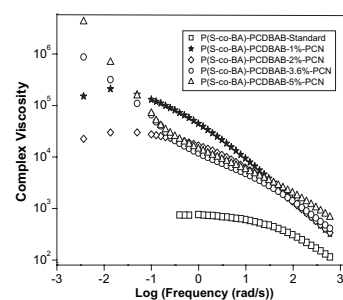
POLYMER PAPERS

Rheological properties of RAFT-mediated poly(styrene-co-butyl acrylate)-clay nanocomposites [P(S-co-BA)-PCNs]: Emphasis on the effect of structural parameters on thermo-mechanical and melt flow behaviors

Austin Samakande, Ronald D. Sanderson, Patrice C. Hartmann*

pp 42–49

UNESCO Associated Centre for Macromolecules, Department of Chemistry and Polymer Science, University
of Stellenbosch, Private Bag X1, 7602 Matieland, South Africa



The oxidation of aniline with silver nitrate to polyaniline-silver composites

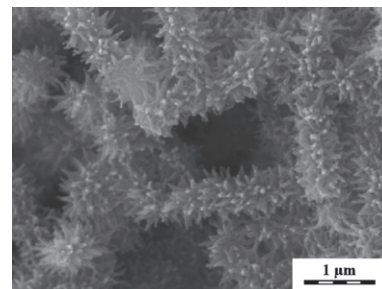
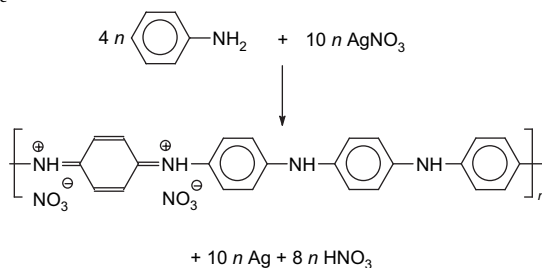
Natalia V. Blinova^a, Jaroslav Stejskal^{a,*}, Miroslava Trchová^a,
Irina Sapurina^b, Gordana Ćirić-Marjanović^c

pp 50–56

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^c Faculty of Physical Chemistry, University
of Belgrade, 11158 Belgrade, Serbia



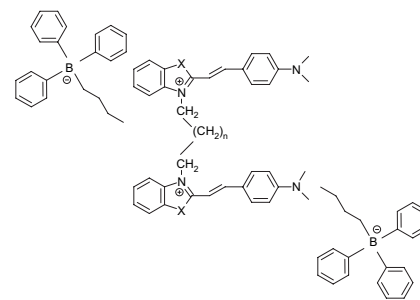
An argon laser induced polymerization photoinitiated by both mono- and bichromophoric hemicyanine dye–borate salt ion pairs. The synthesis, spectroscopic, electrochemical and kinetic studies

pp 57–67

Janina Kabatc^{a,*}, Agnieszka Celmer^b

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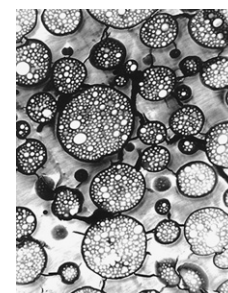


Evolution of the morphology of HIPS particles

pp 68–76

G. Patricia Leal, José M. Asua^{*}

Institute for Polymer Materials (POLYMAT) and Grupo de Ingeniería Química, Departamento de Química Aplicada, Facultad de Ciencias Químicas, University of the Basque Country, Apdo. 1072, ES-20080 Donostia-San Sebastián, Spain

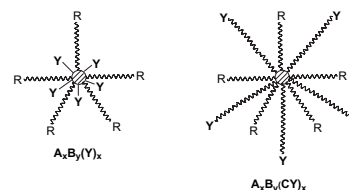


Functionalized star-shaped polymers having PEO and/or polyglycidyl arms and their properties

pp 77–84

Grzegorz Lapienis

Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Sienkiewicza 112, 90-363 Lodz, Poland



where: A = = MPEG, (R = CH₂O-)
 B = polymer unit created from diepoxide molecule
 C = = PEO
 Y = functional groups: —OH, —OP(OH)₂, —OCH₂CONa, —OCC(=O)CH₃

Structure–rheology relationships of long-chain branched polypropylene: Comparative analysis of acrylic and allylic coagent chemistry

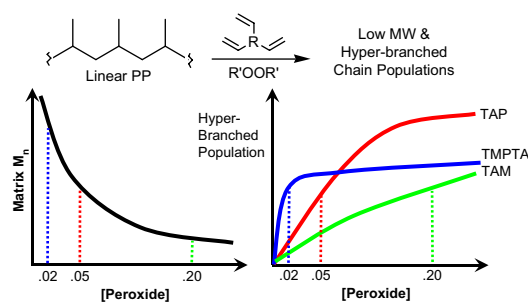
pp 85–94

J. Scott Parent^{a,*}, Aidan Bodsworth^a, Saurav S. Sengupta^{a,b}, Marianna Kontopoulou^a, Bharat I. Chaudhary^b, Drew Poche^c, Stéphane Cousteaux^c

^a Department of Chemical Engineering, Queen's University, Kingston, Ontario K7L 3N6, Canada

^b The Dow Chemical Company, 171 River Road, Piscataway, NJ 08854, USA

^c The Dow Chemical Company, Freeport, TX 77541, USA

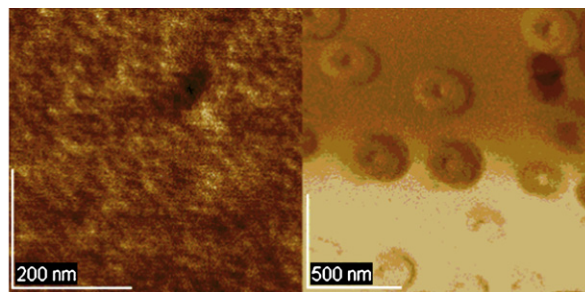
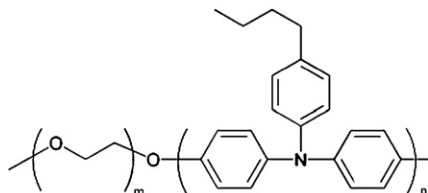


Preparation of diblock copolymer based on poly(4-*n*-butyltriphenylamine) via palladium coupling polymerization

pp 95–101

Kousuke Tsuchiya*, Takeshi Shimomura, Kenji Ogino

Graduate School of
Bio-Applications and Systems
Engineering, Tokyo University of
Agriculture and Technology,
2-24-16 Nakacho, Koganei-shi,
Tokyo 184-8588,
Japan

**Pure color and stable blue-light emission-alternating copolymer based on fluorene and dialkoxy-naphthalene**

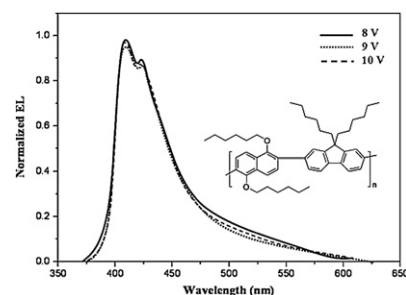
pp 102–106

Jong-Won Park^a, Sung Jin Park^a, Yun-Hi Kim^{b,**}, Dong-Cheol Shin^c, Hong You^c, Soon-Ki Kwon^{a,*}

^a School of Material Science and Engineering and Engineering Research Institute, Gyeongsang National University, Chinju 660-701, Republic of Korea

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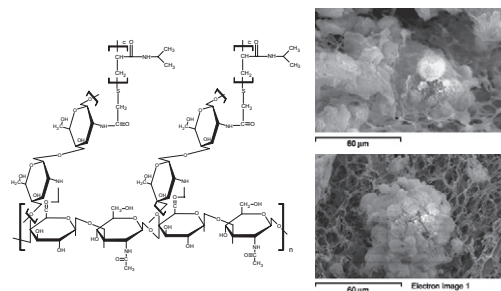
^c SK Corporation, Taejon 305-712, Republic of Korea

**Preparation and evaluation of thermo-reversible copolymer hydrogels containing chitosan and hyaluronic acid as injectable cell carriers**

pp 107–116

Jyh-Ping Chen*, Tai-Hong Cheng

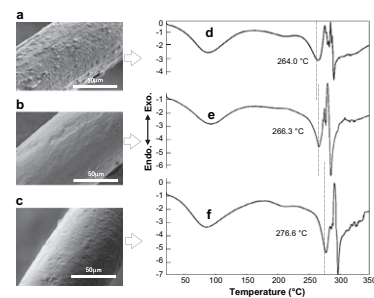
Department of Chemical and Materials Engineering, Chang Gung University, Kwei-San, Taoyuan 333, Taiwan, ROC

**Development of silk-like materials based on *Bombyx mori* and *Nephila clavipes* dragline silk fibroins**

pp 117–124

Mingying Yang, Junji Kawamura, Zhenghua Zhu, Kazuo Yamauchi, Tetsuo Asakura*

Department of Biotechnology, Tokyo University of Agriculture and Technology, Koganei, Tokyo 184-8588, Japan

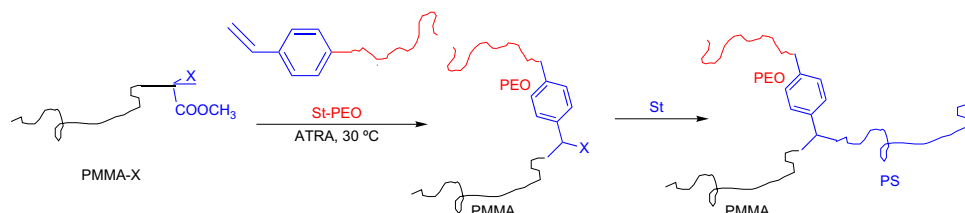


An all ATRP route to PMMA-PEO-PS and PMAA-PEO-PS miktoarm ABC star terpolymer

pp 125-132

Yong-Quan Dong, Bo-Tao Dong, Fu-Sheng Du, Jian-Qiang Meng, Zi-Chen Li*

Beijing National Laboratory for Molecular Sciences (BNLMS), Key Laboratory of Polymer Chemistry and Physics of Ministry of Education, Department of Polymer Science and Engineering, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China

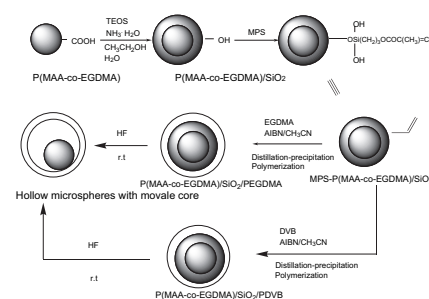


Preparation of polymer/silica/polymer tri-layer hybrid materials and the corresponding hollow polymer microspheres with movable cores

pp 133-140

Hongfen Ji, Siping Wang, Xinlin Yang*

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



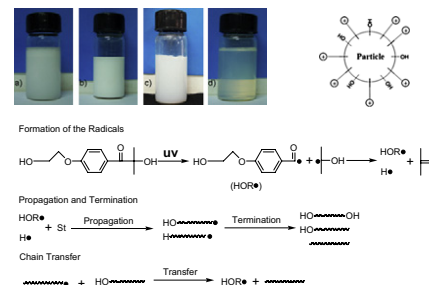
Preparation of transparent polystyrene nano-latexes by an UV-induced routine emulsion polymerization

pp 141-147

Xuefeng Hu^{a, b}, Jieyu Zhang^{a, b}, Wantai Yang^{a, b, *}

^a State Key Laboratory of Chemical Resource Engineering, Beijing 100029, PR China

^b Department of Polymer Science, Beijing University of Chemical Technology, Beijing 100029, PR China



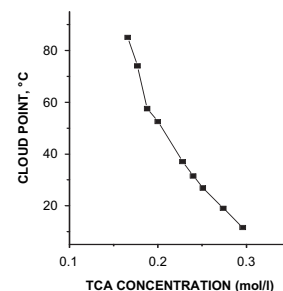
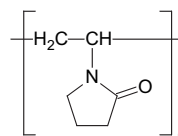
Thermo- and pH-sensitivity of aqueous poly(N-vinylpyrrolidone) solutions in the presence of organic acids

pp 148-153

Natalia Pakuro^{a, *}, Alexander Yakimansky^b, Fatima Chibirova^a, Alexander Arest-Yakubovich^a

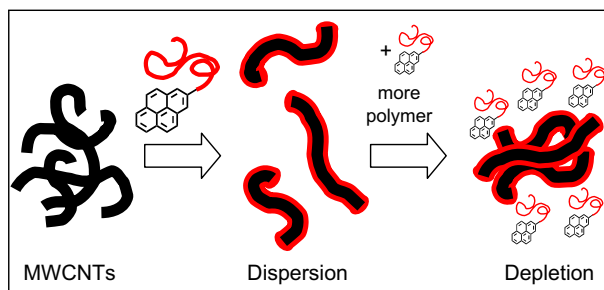
^a Karpov Institute of Physical Chemistry, 10 Vorontsovo Pole, 105064 Moscow, Russia

^b Institute of Macromolecular Compounds of the Russian Academy of Sciences, 31 Bolshoi prospect, 199004 St. Petersburg, Russia



α -Pyrene polymer functionalized multiwalled carbon nanotubes: Solubility, stability and depletion phenomena

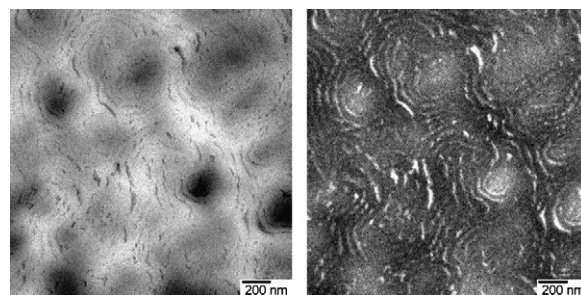
pp 154–160

S. Meuer^a, L. Braun^a, T. Schilling^b, R. Zentel^{a,*}^a Institut fuer Organische Chemie, Universitaet Mainz, Duesbergweg 10-14, 55128 Mainz, Germany^b Institut fuer Physik, Universitaet Mainz, Staudinger Weg 7, 55128 Mainz, Germany**The effect of the solvent on the morphology of cellulose acetate/montmorillonite nanocomposites**

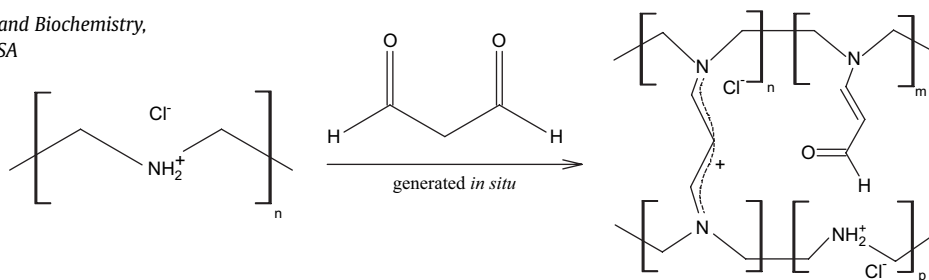
pp 161–170

Rafaelle Bonzanini Romero, Carlos Alberto Paula Leite, Maria do Carmo Gonçalves*

Institute of Chemistry, University of Campinas, P.O. Box 6154, 13083-970 Campinas, Sao Paulo, Brazil

**Spectroscopic investigation of proton-conducting, cross-linked linear poly(ethylenimine) hydrochloride membranes**

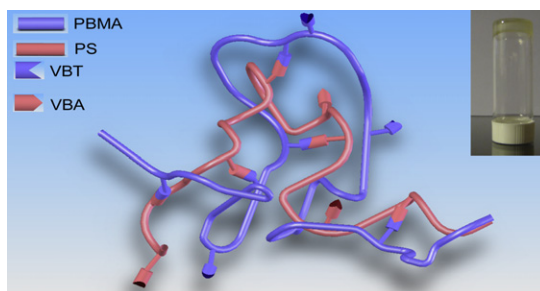
pp 171–176

Guinevere A. Giffin^a, Frank Yopez Castillo^a, Roger Frech^a, Daniel T. Glatzhofer^{a,*}, Christopher M. Burba^b^a University of Oklahoma, Department of Chemistry and Biochemistry, 620 Parrington Oval, Rm 208, Norman, OK 73019, USA^b Northeastern State University, Department of Natural Sciences, 600 N Grand Ave, Tahlequah, OK 74464, USA**DNA-like interactions enhance the miscibility of supramolecular polymer blends**

pp 177–188

Shiao-Wei Kuo*, Ren-Shin Cheng

Department of Materials and Optoelectronic Engineering, Center for Nanoscience and Nanotechnology, National Sun Yat-Sen University, Kaohsiung 804, Taiwan



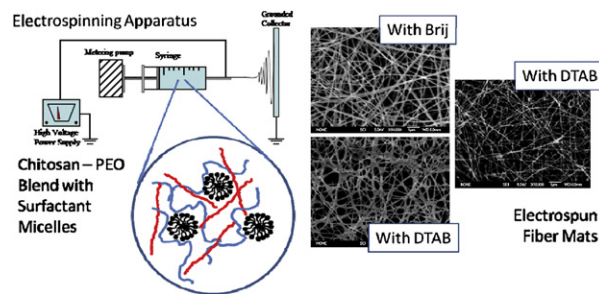
Electrospinning of chitosan-poly(ethylene oxide) blend nanofibers in the presence of micellar surfactant solutions

pp 189-200

C. Kriegel^a, K.M. Kit^b, D.J. McClements^a, J. Weiss^{a,*}

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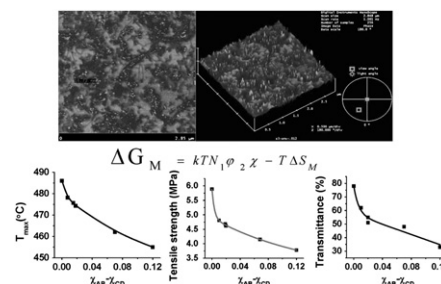
Novel role of polymer-solvent and clay-solvent interaction parameters on the thermal, mechanical and optical properties of polymer nanocomposites

pp 201-210

Anusuya Choudhury^a, Anil K. Bhowmick^{a,*}, Christopher Ong^b

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^b LANXESS Deutschland GmbH, 41538 Dormagen, Germany



Self-assembly of ethyl cellulose-graft-polystyrene copolymers in acetone

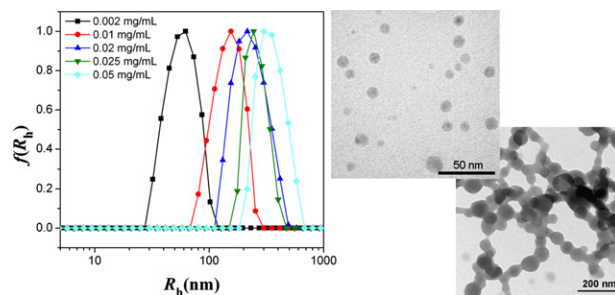
pp 211-217

Wenyong Liu^{a,b}, Ruigang Liu^{a,*}, Yanxiang Li^{a,b}, Hongliang Kang^{a,b}, Dawa Shen^{a,b}, Min Wu^a, Yong Huang^{a,c,*}

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

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

^c Laboratory of Cellulose and Lignocellulosics Chemistry, Guangzhou Institute of Chemistry, Chinese Academy of Sciences, Guangzhou 510650, China



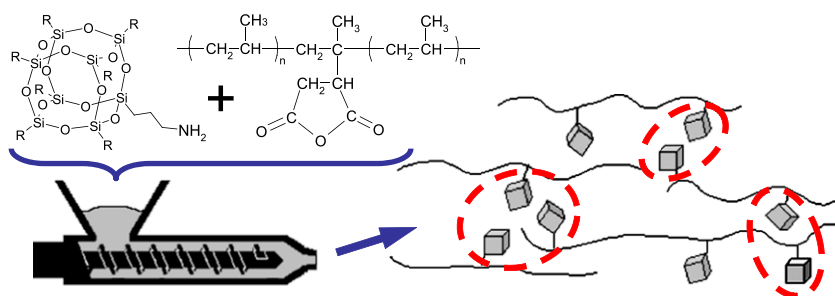
POSS grafting on PPgMA by one-step reactive blending

pp 218-226

Alberto Fina^{a,*}, Daniela Tabuani^a, Ton Peijs^b, Giovanni Camino^a

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^b Queen Mary, University of London, Department of Materials, Mile End Road, E1 4NS London, United Kingdom



Rate dependent finite deformation stress–strain behavior of an ethylene methacrylic acid copolymer and an ethylene methacrylic acid butyl acrylate copolymer

pp 227–235

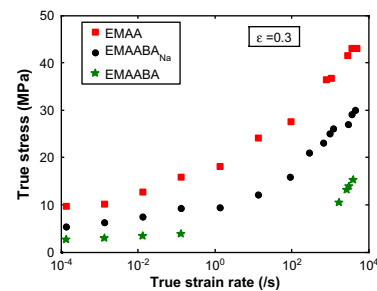
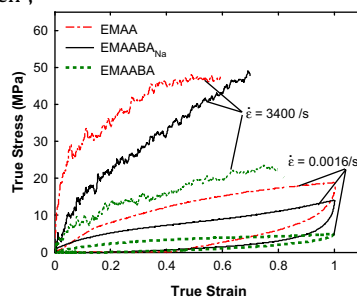
S. Deschane^{a,*}, B.P. Grevskes^a, K. Bertoldi^a, S.S. Sarva^a, W. Chen^c, S.L. Samuels^d, R.E. Cohen^b, M.C. Boyce^a

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^b Department of Chemical Engineering, Massachusetts Institute of Technology, United States

^c Schools of Aeronautics and Astronautics and Materials Engineering, Purdue University, West Lafayette, IN 47907, United States

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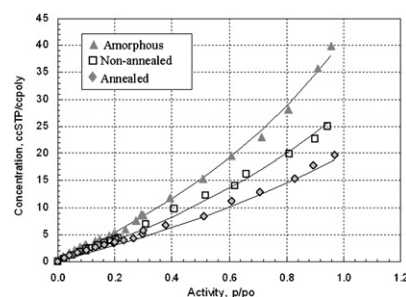


Sorption and transport of methanol in poly(ethylene terephthalate)

pp 236–244

Preeti Chandra, William J. Koros^{*}

School of Chemical and Biomolecular Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA



Dynamic stress relaxation of thermoplastic elastomeric biomaterials

pp 245–249

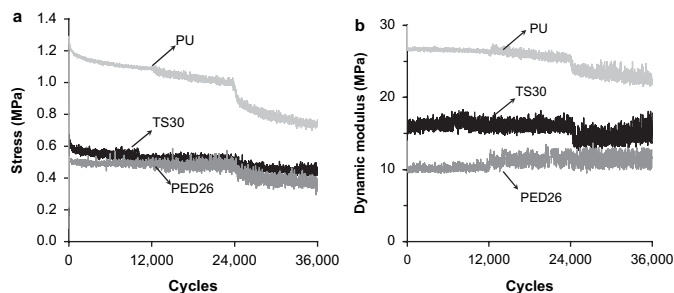
Judit E. Puskas^{a,*}, Mirosława El Fray^b, Matthew Tomkins^{a,c,d}, Lucas M. Dos Santos^a, Frank Fischer^d, Volker Altstädt^d

^a Department of Polymer Science, The University of Akron, Goodyear Polymer Center, Akron, OH 44325-3909, USA

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

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

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

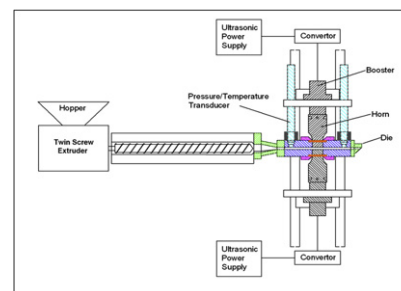


Ultrasound assisted twin screw extrusion of polymer–nanocomposites containing carbon nanotubes

pp 250–260

A.I. Isayev^{*}, Rishi Kumar, Todd M. Lewis

Institute of Polymer Engineering, The University of Akron, Akron, OH 44325-0301, USA

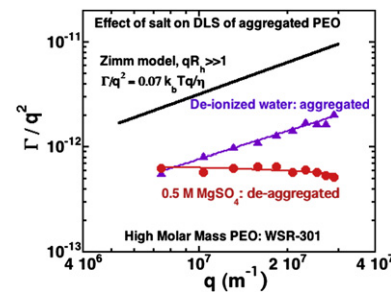


Aggregation in dilute solutions of high molar mass poly(ethylene) oxide and its effect on polymer turbulent drag reduction

pp 261–270

Abhishek M. Shetty*, Michael J. Solomon

Department of Chemical Engineering, University of Michigan, Ann Arbor, MI 48109, United States



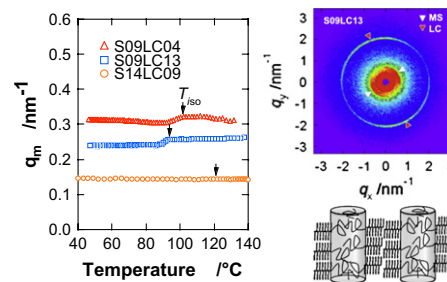
Phase behavior and structure formation for diblock copolymers composed of side-chain liquid crystalline and glassy amorphous components

pp 271–278

Hiroki Takeshita^a, Shin-ichi Taniguchi^a, Mitsuo Arimoto^a, Masamitsu Miya^a, Katsuhiko Takenaka^{a,b}, Tomoo Shiomi^{a,b,*}

^a Department of Materials Science and Technology, Nagaoka University of Technology, 1603-1 Kamitomioka, Nagaoka, Niigata 940-2188, Japan

^b Center for Green-Tech Development in Asia, Nagaoka University of Technology, 1603-1 Kamitomioka, Nagaoka, Niigata 940-2188, Japan



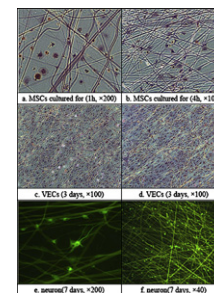
Studies of electrospun regenerated SF/TSF nanofibers

pp 279–285

Feng Zhang^a, Bao Q. Zuo^{a,*}, Huan X. Zhang^{b,*}, Lun Bai^a

^a Material Engineering Institute of Soochow University, Campus, Ganjiang Eastern Road No. 178, Suzhou, Jiangsu 215021, People's Republic of China

^b Institute of Medical Biotechnology, Soochow University, Jiangsu Province Key Laboratory of Stem Cell, Suzhou 215007, China



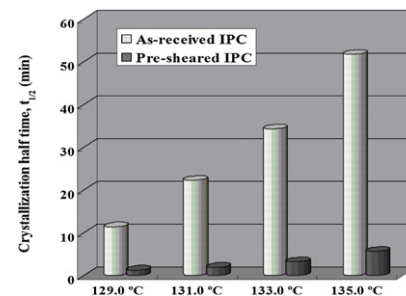
Influence of pre-shearing on the crystallization of an impact-resistant polypropylene copolymer

pp 286–295

Shijie Song^a, Peiyi Wu^a, Jiachun Feng^{a,*}, Mingxin Ye^{a,b}, Yuliang Yang^a

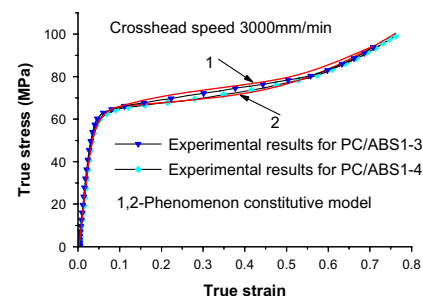
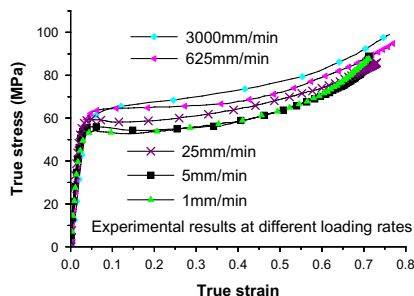
^a Key Laboratory of Molecular Engineering of Polymers of Ministry of Education, Department of Macromolecular Science, Laboratory of Advanced Materials (LAM), Fudan University, Shanghai 200433, China

^b Department of Materials Science, Fudan University, Shanghai 200433, China



Rate-dependent large deformation behavior of PC/ABS

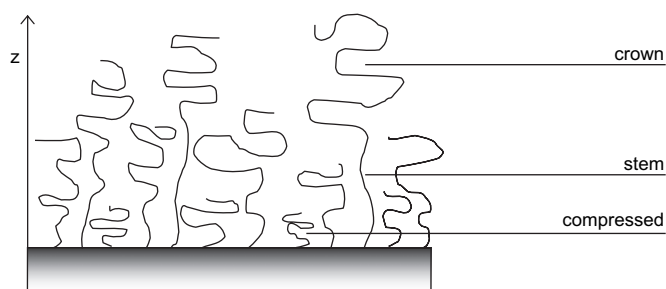
pp 296–304

Qin-Zhi Fang^{a,b,*}, T.J. Wang^a, H.G. Beom^b, H.P. Zhao^a^a MOE Key Laboratory for the Strength and Vibration, Department of Engineering Mechanics, Xi'an Jiaotong University, Xi'an 710049, China^b Department of Mechanical Engineering, Inha University, Incheon 420-751, Republic of Korea**Modeling the structure of a polydisperse polymer brush**

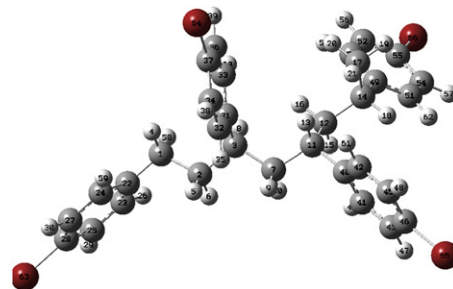
pp 305–316

Wiebe M. de Vos^{*}, Frans A.M. Leermakers

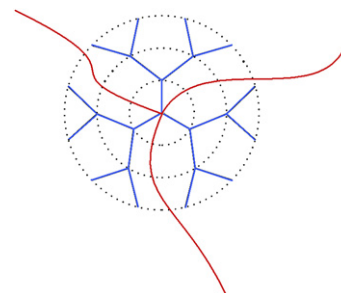
Laboratory of Physical Chemistry and Colloid Science, Wageningen University, Dreijenplein 6, 6703 HB Wageningen, The Netherlands

**A quantum mechanical study on polymer flexibility: Extended model from monomer to tetramer of 2- and 4-bromostyrenes**

pp 317–327

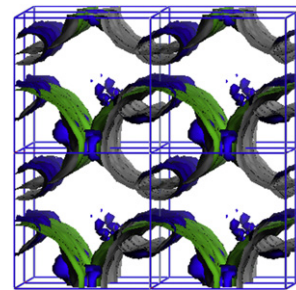
Amparo Navarro^{a,*}, M. Paz Fernández-Liencre^a, Tomás Peña-Ruiz^a, José Manuel Granadino-Roldán^a, Manuel Fernández-Gómez^a, Gustavo Domínguez-Espinosa^b, María J. Sanchis^b^a Department of Physical and Analytical Chemistry, University of Jaén, Campus Las Lagunillas, 23071 Jaén, Spain^b Department of Applied Thermodynamics, ETSII Polytechnic University of Valencia, Camino de Vera s/n 46071 Valencia, Spain**Off lattice Monte Carlo simulations of AB hybrid dendritic star copolymers**

pp 328–335

Leonidas N. Gergidis^a, Othonas Moulτος^b, Costas Georgiadis^b, Marios Kosmas^b, Costas Vlahos^{b,*}^a Department of Chemical Engineering, The Pennsylvania State University, University Park, PA 16802, USA^b Department of Chemistry, University of Ioannina, Ioannina 45110, Greece

**Dissipative particle dynamics study on the phase morphologies of the ultrahigh molecular weight polyethylene/
polypropylene/ poly(ethylene glycol) blends**

pp 336–346

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Author Index

- Altstädt, V. 245
 Arest-Yakubovich, A. 148
 Arimoto, M. 271
 Asakura, T. 117
 Asua, J. M. 68
 Aumsuwan, N. 33
- Bai, L. 279
 Beom, H. G. 296
 Bertoldi, K. 227
 Bhowmick, A. K. 201
 Blencowe, A. 5
 Blinova, N. V. 50
 Bodsworth, A. 85
 Boyce, M. C. 227
 Braun, L. 154
 Burba, C. M. 171
- Camino, G. 218
 Castillo, F. Y. 171
 Celmer, A. 57
 Chandra, P. 236
 Chaudhary, B. I. 85
 Chen, J.-P. 107
 Chen, W. 227
 Cheng, R.-S. 177
 Cheng, T.-H. 107
 Chibirova, F. 148
 Choudhury, A. 201
 Ćirić-Marjanović, G. 50
 Cohen, R. E. 227
 Cousteaux, S. 85
- de Vos, W. M. 305
 Deschanel, S. 227
 Domínguez-Espinosa, G. 317
 Dong, B.-T. 125
 Dong, Y.-Q. 125
 Dos Santos, L. M. 245
 Du, F.-S. 125
 Duhlev, R. 1
- El Fray, M. 245
- Fang, Q.-Z. 296
 Feng, J. 286
 Fernández-Gómez, M. 317
 Fernández-Lienres, M. P. 317
 Fina, A. 218
 Fischer, F. 245
 Frech, R. 171
- Gai, J.-G. 336
 Georgiadis, C. 328
 Gergidis, L. N. 328
 Giffin, G. A. 171
 Glatzhofer, D. T. 171
 Goh, T. K. 5
- Gonçalves, M. C. 161
 Granadino-Roldán, J. M. 317
 Greviskes, B. P. 227
- Hartmann, P. C. 42
 Hu, G.-H. 336
 Hu, X. 141
 Huang, Y. 211
- Isayev, A. I. 250
- Ji, H. 133
 Jiang, X. 37
- Kabatc, J. 57
 Kang, H. 211
 Kawamura, J. 117
 Kim, Y.-H. 102
 Kit, K. M. 189
 Kontopoulou, M. 85
 Koros, W. J. 236
 Kosmas, M. 328
 Kriegel, C. 189
 Kumar, R. 250
 Kuo, S.-W. 177
 Kwon, S.-K. 102
- Lapienis, G. 77
 Leal, G. P. 68
 Leermakers, F. A. M. 305
 Leite, C. A. P. 161
 Lewis, T. M. 250
 Li, H.-L. 336
 Li, Y. 211
 Li, Z.-C. 125
 Liu, R. 211
 Liu, W. 211
 Luo, J. 37
- McClements, D. J. 189
 Meng, J.-Q. 125
 Meuer, S. 154
 Miya, M. 271
 Moulτος, O. 328
- Navarro, A. 317
- Ogino, K. 95
 Ong, C. 201
- Pakuro, N. 148
 Parent, J. S. 85
 Park, J.-W. 102
 Park, S. J. 102
 Peijs, T. 218
 Peña-Ruiz, T. 317
 Poche, D. 85
 Puskas, J. E. 245
- Qiao, G. G. 5
- Romero, R. B. 161
- Samakande, A. 42
 Samuels, S. L. 227
 Sanchís, M. J. 317
 Sanderson, R. D. 42
 Sapurina, I. 50
 Sarva, S. S. 227
 Schilling, T. 154
 Schrauwen, C. 336
 Sengupta, S. S. 85
 Shen, D. 211
 Shetty, A. M. 261
 Shimomura, T. 95
 Shin, D.-C. 102
 Shiomi, T. 271
 Solomon, M. J. 261
 Song, S. 286
 Stejskal, J. 50
- Tabuani, D. 218
 Takenaka, K. 271
 Takeshita, H. 271
 Tan, J. F. 5
 Taniguchi, S.-i. 271
 Tomkins, M. 245
 Trchová, M. 50
 Tsuchiya, K. 95
- Urban, M. W. 33
- Vlahos, C. 328
- Wang, S. 133
 Wang, T. J. 296
 Ward, I. 3
 Weiss, J. 189
 Wu, M. 211
 Wu, P. 286
- Yakimansky, A. 148
 Yamauchi, K. 117
 Yang, M. 117
 Yang, W. 141
 Yang, X. 133
 Yang, Y. 286
 Ye, M. 286
 Yin, J. 37
 You, H. 102
- Zentel, R. 154
 Zhang, F. 279
 Zhang, H. X. 279
 Zhang, J. 141
 Zhao, H. P. 296
 Zhu, Z. 117
 Zuo, B. Q. 279