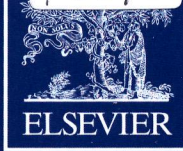
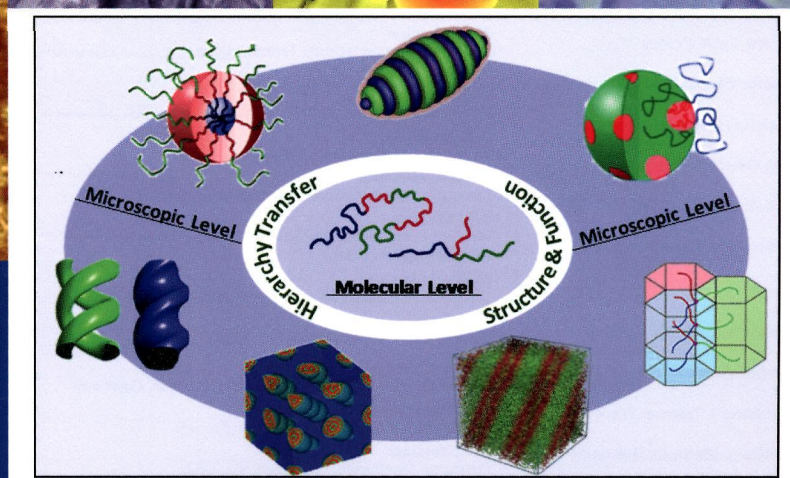
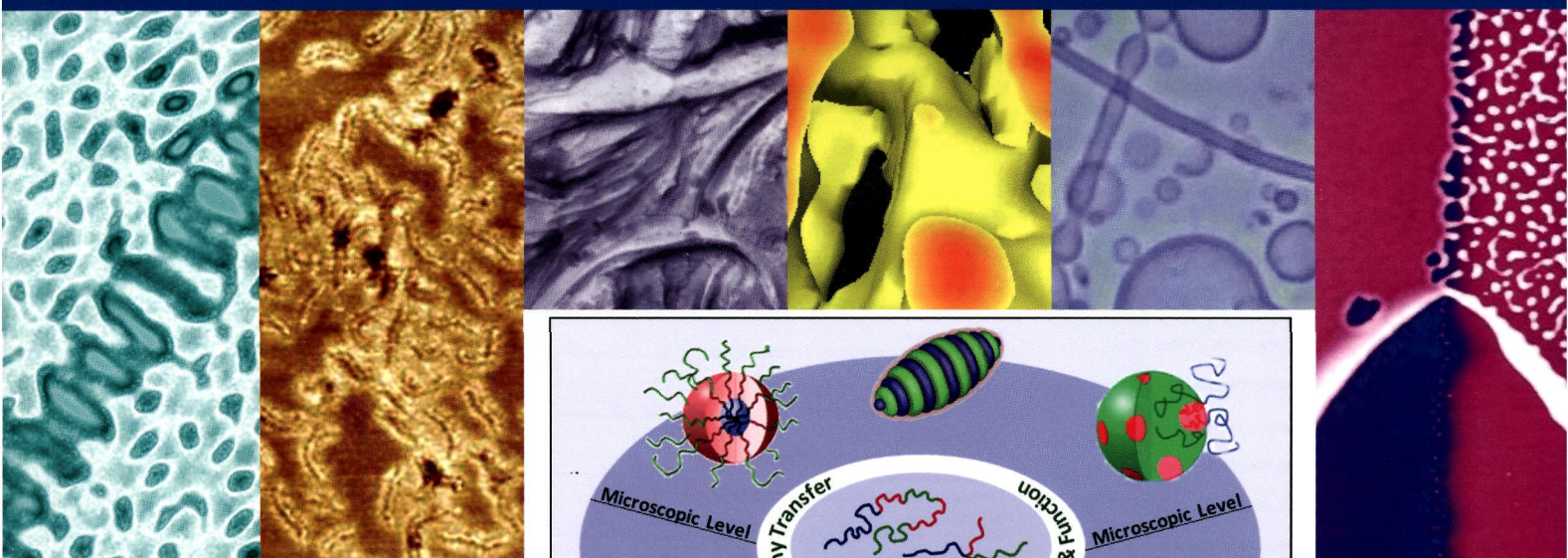
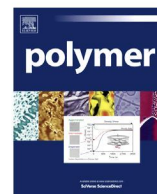


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Polymer Vol. 54, No. 14, 21 June 2013

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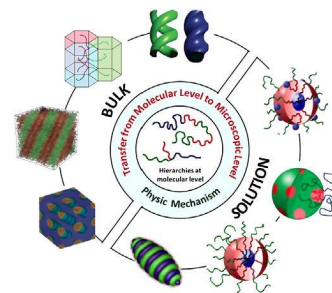
FEATURE ARTICLE

Hierarchical microstructures self-assembled from polymer systems

3427–3442

Liquan Wang, Jiaping Lin*, Xu Zhang

Shanghai Key Laboratory of Advanced Polymeric Materials, Key Laboratory for Ultrafine Materials of Ministry of Education, School of Materials Science and Engineering, East China University of Science and Technology, Shanghai 200237, China



POLYMER COMMUNICATIONS

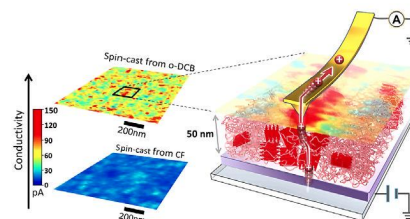
Development of highly conductive nanodomains in poly(3-hexylthiophene) films studied by conductive atomic force microscopy

3443–3447

Miki Osaka^a, Hiroaki Bente^{a,*}, Li-Ting Lee^a, Hideo Ohkita^{a,b}, Shinzaburo Ito^a

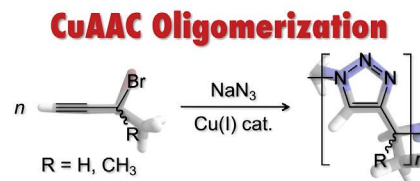
^a Department of Polymer Chemistry, Graduate School of Engineering, Kyoto University, Katsura, Nishikyo, Kyoto 615-8510, Japan

^b Japan Science and Technology Agency (JST), PRESTO, 4-1-8 Honcho, Kawaguchi, Saitama 332-0012, Japan

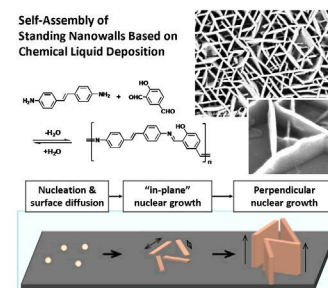


Copper-catalyzed azide-alkyne cycloaddition oligomerization of 3-azido-1-propyne derivatives

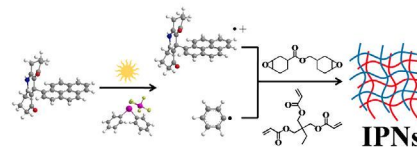
3448–3451

Akihito Hashidzume^{*}, Tomoaki Nakamura, Takahiro SatoDepartment of Macromolecular Science, Graduate School of Science, Osaka University,
1-1 Machikaneyama-cho, Toyonaka, Osaka 560-0043, Japan**Vertically standing nanowalls of pristine poly(azomethine) on a graphite by chemical liquid deposition**

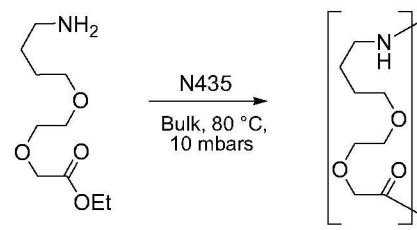
3452–3457

Rintaro Higuchi^a, Ryota Tanoue^a, Kazuki Sakaguchi^a, Kaiyo Yanai^a, Shinobu Uemura^a, Masashi Kunitake^{a,b,*}^aDepartment of Science and Technology, Kumamoto University, 2-39-1 Kurokami, Kumamoto 860-8555, Japan^bCore Research for Evolutional Science and Technology, Japan Science and Technology Agency (JST-CREST), Kawaguchi Center Building, 4-1-8 Honcho, Kawaguchi, Saitama 332-0012, Japan**POLYMER PAPERS****Difunctional acridinediones as photoinitiators of polymerization under UV and visible lights: Structural effects**

3458–3466

Pu Xiao^a, Frédéric Dumur^b, Mohamad-Ali Tehfe^a, Bernadette Graff^a, Didier Gigmes^{b,*}, Jean Pierre Fouassier^c, Jacques Lalevée^{a,*}^aInstitut de Science des Matériaux de Mulhouse IS2M, UMR CNRS 7361, UHA, 15, rue Jean Starcky, 68057 Mulhouse Cedex, France^bInstitut de Chimie Radicale ICR – UMR CNRS 7273, Aix-Marseille Université, équipe CROPS, Case 542, Avenue Escadrille Normandie-Niemen, 13397 Marseille Cedex 20, France^cENSCMu-UHA, 3 rue Alfred Werner, 68093 Mulhouse Cedex, France**Speeding-up enzyme-catalyzed synthesis of polyamides using ω-amino-α-alkoxy-acetate as monomer**

3467–3471

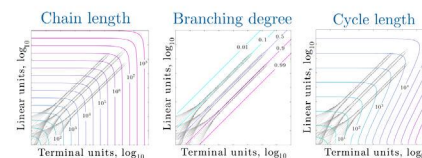
Florent Poulhès^a, Dominique Mouysset^a, Gérard Gil^{b,*}, Michèle P. Bertrand^{a,*}, Stéphane Gastaldi^{a,*}^aAix-Marseille Université, CNRS, Institut de Chimie Radicale UMR 7273, Equipe CMO, 13397 Marseille Cedex 20, France^bAix-Marseille Université, CNRS, ISM2 UMR 7313, Equipe Chirosciences, 13397 Marseille Cedex 20, France89%, D_{Pn} = 18.3, PDI = 1.63
93% conversion in 30 min.

Predicting multidimensional distributive properties of hyperbranched polymer resulting from AB₂ polymerization with substitution, cyclization and shielding

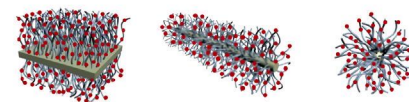
3472–3484

I. Kryven*, P.D. Iedema

University of Amsterdam, Science Park 904, 1098 XH Amsterdam, The Netherlands

**Shaped core/shell polymer nanoobjects with high antibacterial activities via block copolymer microphase separation**

3485–3491

Dongdong Yao^a, Yujuan Guo^b, Shiguo Chen^{b,*}, Jiaoning Tang^b, Yongming Chen^{a,*}^aLaboratory of Polymer Physics and Chemistry, Institute of Chemistry, The Chinese Academy of Sciences, Beijing 100190, PR China^bShenzhen Key Laboratory of Special Functional Materials, College of Materials Science and Engineering, Shenzhen University, Shenzhen 518060, PR China

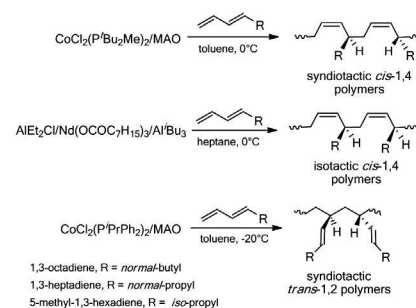
Shaped Nanoobjects with Antibacterial Properties

Novel stereoregular cis-1,4 and trans-1,2 poly(diene)s: synthesis, characterization, and mechanistic considerations

3492–3503

Antonella Caterina Boccia, Giuseppe Leone, Aldo Boglia, Giovanni Ricci*

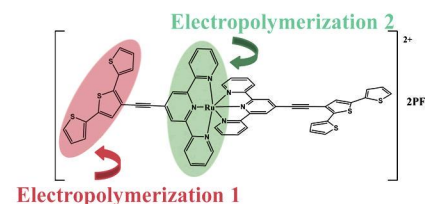
CNR-Istituto per lo Studio delle Macromolecole (ISMAC), Via E. Bassini 15, I-20133 Milano, Italy

**Electropolymerization of a Ru(II)-terpyridine complex ethynyl-terthiophene functionalized originating different metallopolymers**

3504–3509

Paola Manca, Roberta Scanu, Antonio Zucca, Gavino Sanna, Nadia Spano, Maria I. Pilo*

Dipartimento di Chimica e Farmacia, Università di Sassari, via Vienna 2, 07100 Sassari, Italy



Model compounds based on poly(*p*-phenylenevinyleneborane) and terthiophene: Investigating the p–n junction in diblock copolymers

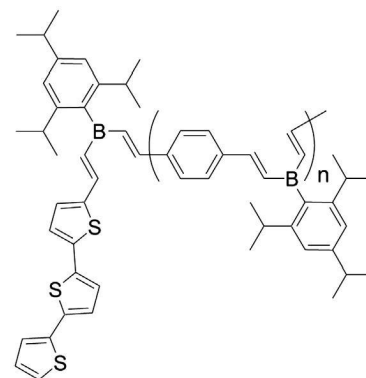
3510–3520

 Diane M. Hinkens^{a,c,*}, Qiliang Chen^a, Mahbube Khoda Siddiki^a, David Gosztola^b, Mark A. Tapsak^c, Qiquan Qiao^a, Malika Jeffries-EL^d, Seth B. Darling^{b,e,**}
^aElectrical Engineering and Computer Science, South Dakota State University, United States

^bCenter for Nanoscale Materials, Argonne National Laboratory, United States

^cDepartment of Chemistry and Biochemistry, Bloomsburg University of Pennsylvania, United States

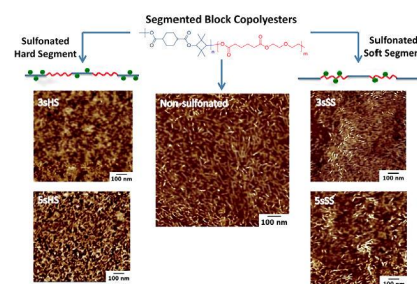
^dDepartment of Chemistry, Iowa State University, United States

^eInstitute for Molecular Engineering, The University of Chicago, United States

Influence of charge placement on the thermal and morphological properties of sulfonated segmented copolymers

3521–3528

Musan Zhang, Mingqiang Zhang, Robert B. Moore, Timothy E. Long*

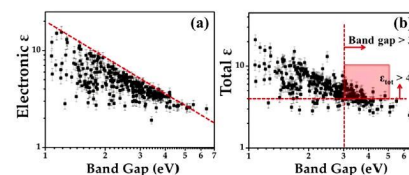
Department of Chemistry, Macromolecules and Interfaces Institute, Virginia Tech, Blacksburg, VA 24061-0212, USA


The rational design of polyurea & polyurethane dielectric materials

3529–3533

 R.G. Lorenzini^a, W.M. Kline^b, C.C. Wang^b, R. Ramprasad^b, G.A. Sotzing^{a,c,*}
^aDepartment of Chemistry & The Polymer Program, University of Connecticut, 97 North Eagleville Road, Storrs, CT 06268, United States

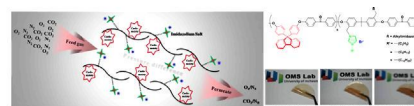
^bDepartment of Materials Science & Engineering, University of Connecticut, 97 North Eagleville Road, Storrs, CT 06268, United States

^cDepartment of Physics, University of Connecticut, 97 North Eagleville Road, Storrs, CT 06268, United States

Alkyl imidazolium-functionalized cardo-based poly(ether ketone)s as novel polymer membranes for O₂/N₂ and CO₂/N₂ separations

3534–3541

 Irshad Kammakakam^a, Hyo Won Kim^b, SangYong Nam^c, Ho Bum Park^b, Tae-Hyun Kim^{a,*}
^aOrganic Material Synthesis Laboratory, Department of Chemistry, Incheon National University, Songdo-dong 12-1, Yeonsu-gu, Incheon 406-772, Republic of Korea

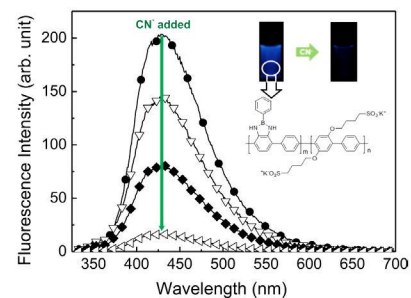
^bWCU Department of Energy Engineering, Hanyang University, Seoul 133-791, Republic of Korea

^cDepartment of Polymer Science and Engineering, Gyeongsang National University, 900 Gazwa-dong, Chinju 660-701, Republic of Korea


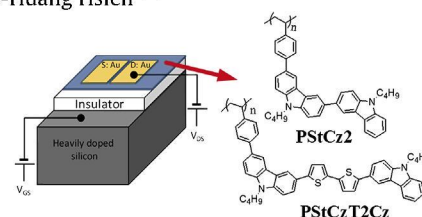
Synthesis of water-soluble, fluorescent, conjugated polybenzodiazaborole for detection of cyanide anion in water

3542–3547

Ji Hye Son, Geunseok Jang, Taek Seung Lee*

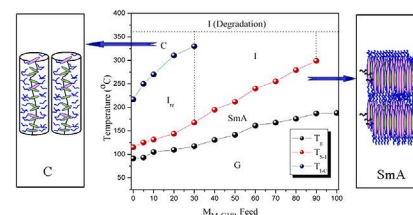
Organic and Optoelectronic Materials Laboratory, Department of Advanced Organic Materials and Textile System Engineering, Chungnam National University, Daejeon 305-764, Republic of Korea**Synthesis and characterization of graft polystyrenes with *para*-substituted π -conjugated oligo(carbazole) and oligo(carbazole-thiophene) moieties for organic field-effect transistors**

3548–3555

Gung-Pei Chang^a, Ching-Nan Chuang^b, Jong-Yih Lee^a, Yung-Shen Chang^a, Man-kit Leung^{b,c}, Kuo-Huang Hsieh^{a,b,*}^a Department of Chemical Engineering, National Taiwan University, Taipei 106, Taiwan^b Institute of Polymer Science and Engineering, National Taiwan University, Taipei 106, Taiwan^c Department of Chemistry, National Taiwan University, Taipei 106, Taiwan**Synthesis and liquid crystalline behavior of 2,5-disubstituted styrene-based random copolymers: Effect of difference in length of the rigid core on the mesomorphic behavior of mesogen-jacketed liquid crystalline polymers**

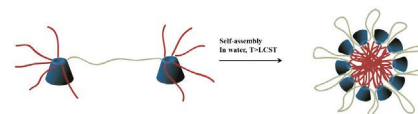
3556–3565

Sheng Chen, Xiang Shu, He-Lou Xie, Hai-Liang Zhang*

Key Laboratory of Polymeric Materials and Application Technology of Hunan Province, Key Laboratory of Advanced Functional Polymer Materials of Colleges, and Universities of Hunan Province, College of Chemistry, Xiangtan University, Xiangtan 411105, Hunan Province, China**Synthesis and thermally-triggered self-assembly behaviors of a dumbbell-shaped polymer carrying β -cyclodextrin at branch points**

3566–3573

Yang Bai, Xiao-dong Fan*, Wei Tian*, Hao Yao, Long-hai Zhuo, Hai-tao Zhang, Wei-wei Fan, Zhen Yang, Wan-bin Zhang

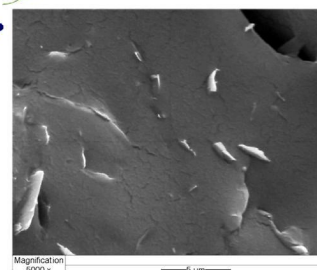
The Key Laboratory of Space Applied Physics and Chemistry, Ministry of Education and Shaanxi Key Laboratory of Macromolecular Science and Technology, School of Science, Northwestern Polytechnical University, Xi'an 710072, PR China

Graphite nanoplatelet/pyromellitic dianhydride melt modified PPC composites: Preparation and characterization

3574–3585

Carlos Barreto^{a,b}, Jonny Proppe^c, Siw Fredriksen^{b,*}, Eddy Hansen^a, Rodney W. Rychwalski^d^a University of Oslo, Department of Chemistry, Oslo, Norway^b Norner AS, Department of Polymer Research, Stathelle, Norway^c University of Hamburg, Department of Chemistry, Hamburg, Germany^d Chalmers University of Technology, Department of Materials and Manufacturing Technology, Göteborg, Sweden

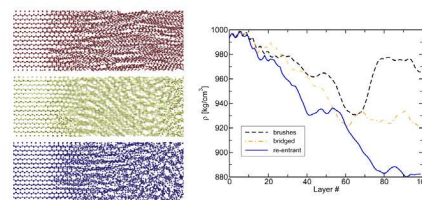
PPC
from CO₂
&
GNP

**Factors influencing properties of interfacial regions in semicrystalline polyethylene: A molecular dynamics simulation study**

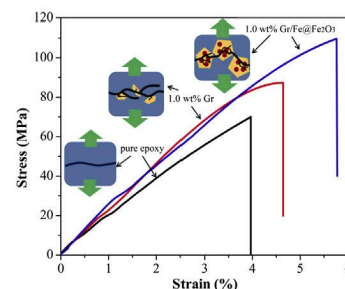
3586–3593

Sudharsan Pandiyan, Bernard Rousseau^{*}

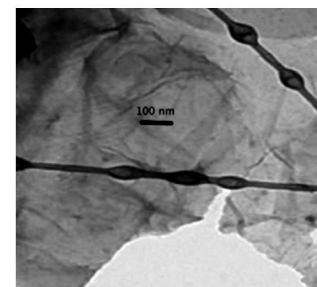
Laboratoire de Chimie Physique, Université Paris-Sud, CNRS, Orsay, France

**Strengthened magnetic epoxy nanocomposites with protruding nanoparticles on the graphene nanosheets**

3594–3604

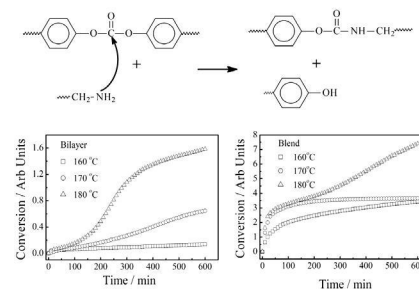
Xi Zhang^{a,b}, Ouassima Alloul^a, Qingliang He^{a,b}, Jiahua Zhu^a, Michael Joseph Verde^a, Yutong Li^c, Suying Wei^{b,**}, Zhanhu Guo^{a,*}^a Integrated Composites Laboratory (ICL), Dan F Smith Department of Chemical Engineering, Lamar University, Beaumont, TX 77710, USA^b Department of Chemistry and Biochemistry, Lamar University, Beaumont, TX 77710, USA^c Magnetic Head Operation, Western Digital Corporation, Fremont, CA 94539, USA**What factors control the mechanical properties of poly (dimethylsiloxane) reinforced with nanosheets of 3-aminopropyltriethoxysilane modified graphene oxide?**

3605–3611

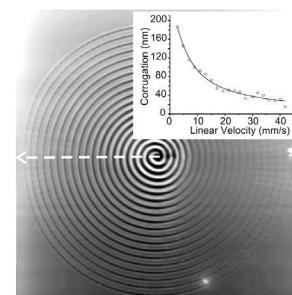
Yan Zhang^a, Yanwu Zhu^b, Gui Lin^a, Rodney S. Ruoff^c, Naiping Hu^d, Dale W. Schaefer^{d,*}, James E. Mark^{a,**}^a Department of Chemistry, University of Cincinnati, Cincinnati, OH 45221-0172, USA^d School of Energy, Environment, Biological and Medical Engineering, College of Engineering and Applied Science, University of Cincinnati, Cincinnati, OH 45221-0012, USA

Reaction process in polycarbonate/polyamide bilayer film and blend

3612–3619

Mingji Wang^{a,b}, Guangcui Yuan^{a,*}, Charles C. Han^{a,*}^aState Key Laboratory of Polymer Physics & Chemistry, Joint Laboratory of Polymer Science & Materials, Beijing National Laboratory for Molecular Sciences, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China^bUniversity of Chinese Academy of Sciences, Beijing 100049, China**Velocity dependence of nano-abrasive wear of amorphous polymers obtained using a spiral scan pattern**

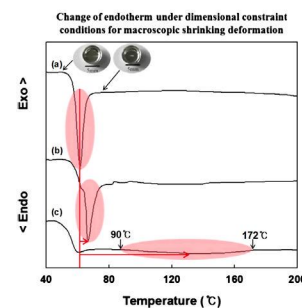
3620–3623

Reginald H. Rice^a, Enrico Gnecco^b, Reinhold Wannemacher^b, Robert Szoszkiewicz^{a,*}^aDepartment of Physics, Kansas State University, Manhattan, KS 66506, USA^bInstituto Madrileño de Estudios Avanzados en Nanociencia (IMDEA Nanociencia), Campus Universitario de Cantoblanco, Calle Faraday 9, 28049 Madrid, Spain**Endotherm just above glass transition in uniaxially drawn poly(lactic acid)s films with various D-isomer contents**

3624–3632

Sang Cheol Lee^{*}, Jae Il Han, Jin Wook Heo

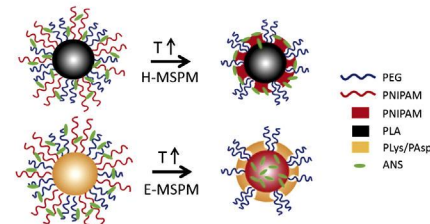
Department of Polymer Science and Engineering, Kumoh National Institute of Technology, Gumi 730-701, Republic of Korea

**Structure change of mixed shell polymeric micelles and its interaction with bio-targets as probed by the 1-anilino-8-naphthalene sulfonate (ANS) fluorescence**

3633–3640

Xue Liu, Hongjun Gao, Fan Huang, Xiaodong Pei, Yingli An, Zhenkun Zhang^{*}, Linqi Shi^{*}

Key Laboratory of Functional Polymer Materials, Institute of Polymer Chemistry, College of Chemistry, Nankai University, Tianjin 300071, China



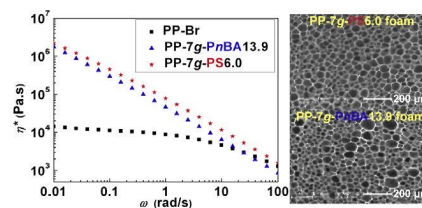
Synthesis and structure–property relationships of polypropylene-*g*-polystyrene and polypropylene-*g*-poly(*n*-butyl acrylate) graft copolymers with well-defined molecular structures

3641–3653

Lu Wang^{a,b}, Hongfan Yang^{a,b}, Haiying Tan^{a,b}, Kun Yao^{a,b}, Jiang Gong^{a,b}, Dong Wan^{a,b}, Jian Qiu^d, Tao Tang^{a,*}

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

^b University of Chinese Academy of Sciences, Beijing 100049, China



Elaboration and properties of plasticised chitosan-based exfoliated nano-biocomposites

3654–3662

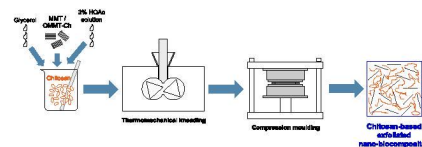
David Fengwei Xie^{a,*}, Verónica P. Martino^b, Parveen Sangwan^c, Cameron Way^c, Gregory A. Cash^d, Eric Pollet^b, Katherine M. Dean^c, Peter J. Halley^{a,d}, Luc Avérous^{b,**}

^a Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, Brisbane, Qld 4072, Australia

^b BioTeam/ICPEES-ECPM, UMR 7515, Université de Strasbourg, 25 Rue Becquerel, 67087 Strasbourg Cedex 2, France

^c CSIRO Materials Science and Engineering, Gate 5, Normanby Rd, Clayton, Vic 3168, Australia

^d School of Chemical Engineering, The University of Queensland, Brisbane, Qld 4072, Australia



A novel approach to electrically and thermally conductive elastomers using graphene

3663–3670

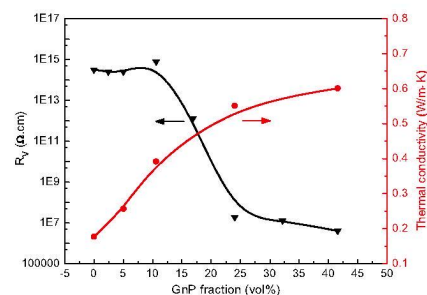
Sherif Araby^{a,d}, Liqun Zhang^b, Hsu-Chiang Kuan^c, Jia-Bin Dai^a, Peter Majewski^a, Jun Ma^{a,b,*}

^a School of Engineering, University of South Australia, SA 5095, Australia

^b Key Laboratory for Nanomaterials, Ministry of Education, Beijing University of Chemical Technology, Beijing 100029, China

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

^d Department of Mechanical Engineering, Faculty of Engineering, Benha University, Egypt

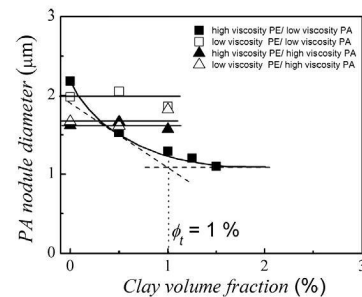


Structural and rheological properties of different polyamide/polyethylene blends filled with clay nanoparticles: A comparative study

3671–3679

Isabelle Labaume, Jacques Huitric, Pascal Médéric, Thierry Aubry^{*}

LIMATB, Equipe Rhéologie, Université de Bretagne Occidentale, UFR Sciences et Techniques, 6, Avenue Victor Le Gorgeu, CS 93837, 29238 Brest Cedex 3, France



Interpenetrating network formation in isotactic polypropylene/graphene composites

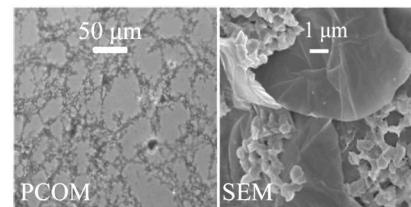
3680–3690

Songmei Zhao^{a,c}, Fenghua Chen^{a,*}, Chuanzhuang Zhao^a, Yingjuan Huang^b, Jin-Yong Dong^b, Charles C. Han^{a,*}

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

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

^c University of Chinese Academy of Science, Beijing 100049, China



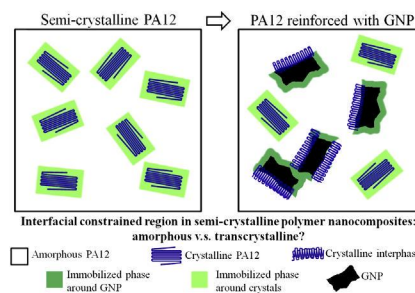
Formation of a complex constrained region at the graphite nanoplatelets-polyamide 12 interface

3691–3698

Mehdi Karevan^a, Kyriaki Kalaitzidou^{a,b,*}

^a G. W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, 813 Ferst Dr., Atlanta, GA 30332, USA

^b School of Materials Science and Engineering, Georgia Institute of Technology, 813 Ferst Dr., Atlanta, GA 30332, USA



Tensile deformation of in-reactor polymer alloy with preferentially oriented crystallite in parallel and perpendicular to uniaxial stretching direction: A model case from impact-resistance polypropylene copolymer

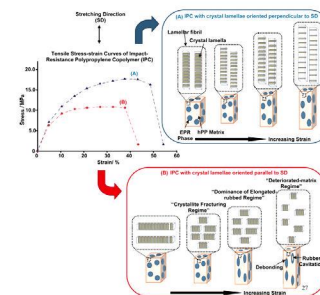
3699–3708

Wonchalerm Rungswang^{a,*}, Korakot Plailahan^b, Phutsadee Saendee^a, Supagorn Rugmai^c, Watcharee Cheevasrirungruang^a

^a SCG Chemicals Co., Ltd, Siam Cement Group (SCG), 10 I-1 Road, Map Ta Phut Industrial Estate, Muang District, Rayong Province 21150, Thailand

^b Thai Polyethylene Co., Ltd., Siam Cement Group (SCG), 10 I-1 Road, Map Ta Phut Industrial Estate, Muang District, Rayong Province 21150, Thailand

^c Synchrotron Light Research Institute (Public Organization), P.O. Box 93, Nakhon Ratchasima 30000, Thailand



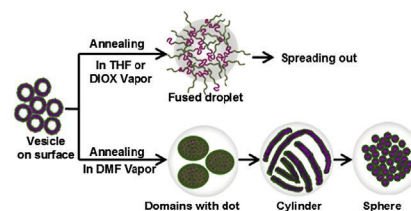
Morphology transformation of polystyrene-block-poly(ethylene oxide) vesicle on surface

3709–3715

Chunyan Wang^a, Shuguang Yang^{a,*}, Jian Xu^{a,b}, Meifang Zhu^a

^a State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, College of Material Science and Engineering, Donghua University, Shanghai 201620, China

^b Laboratory of Polymer Physics and Chemistry, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

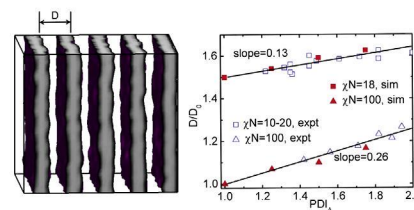


The influence of one block polydispersity on phase separation of diblock copolymers: The molecular mechanism for domain spacing expansion

3716–3722

Yue Li, Hu-Jun Qian*, Zhong-Yuan Lu*

State Key Laboratory of Theoretical and Computational Chemistry, Institute of Theoretical Chemistry, Jilin University, Changchun 130023, China



Creep-resistant behavior of MWCNT-polycarbonate melt spun nanocomposite fibers at elevated temperature

3723–3729

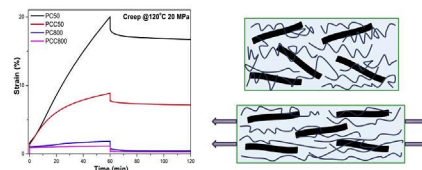
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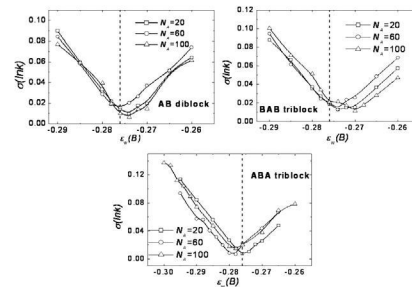
Can the individual block in block copolymer be made chromatographically “invisible” at the critical condition of its corresponding homopolymer?

3730–3736

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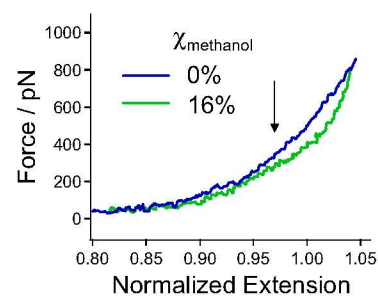


Single-chain mechanics of poly(N-isopropyl-acrylamide) in the water/methanol mixed solvent

3737–3743

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