

**Polymer Vol. 50, No. 25, 27 November 2009**

**Contents**

**POLYMER COMMUNICATION**

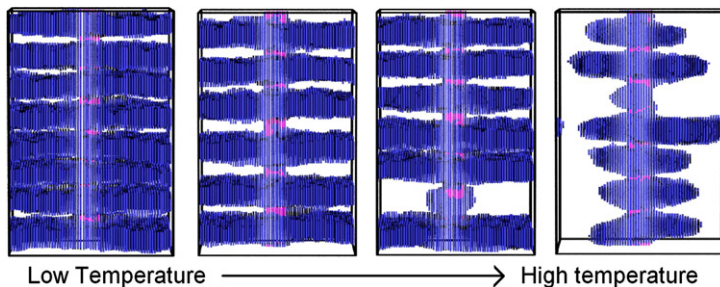
**Polymer semicrystalline texture made by interplay of crystal growth**

pp 5871–5875

Yijin Ren<sup>a</sup>, Liyun Zha<sup>a</sup>, Yu Ma<sup>a</sup>, Bingbing Hong<sup>b</sup>, Feng Qiu<sup>b</sup>,  
Wenbing Hu<sup>a,\*</sup>

<sup>a</sup> Department of Polymer Science and Engineering, State Key Lab of Coordination Chemistry, School of Chemistry and Chemical Engineering, Nanjing University, 210093 Nanjing, China

<sup>b</sup> The Key Laboratory of Molecular Engineering of Polymers, Ministry of Education of China, Department of Macromolecular Science, Fudan University, 200433 Shanghai, China



**POLYMER PAPERS**

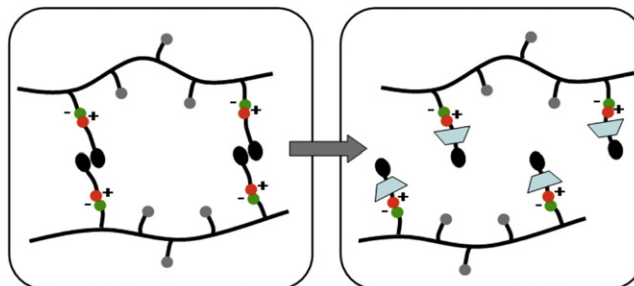
**Ionic pseudopolyrotaxanes bearing a chromophore in the side chain – A spectroscopic study in water**

pp 5876–5883

Ulrich Oertel<sup>a</sup>, Hartmut Komber<sup>a</sup>, Andrey V. Tenkovtsev<sup>b</sup>,  
Marina M. Dudkina<sup>b</sup>, Andrey E. Trofimov<sup>b</sup>, Frank Böhme<sup>a,\*</sup>

<sup>a</sup> Leibniz Institute of Polymer Research Dresden, Hohe Straße 6, 01069 Dresden, Germany

<sup>b</sup> Institute of Macromolecular Compounds, Russian Academy of Sciences 199004, Bolshoy pr. 31, St. Petersburg, Russia

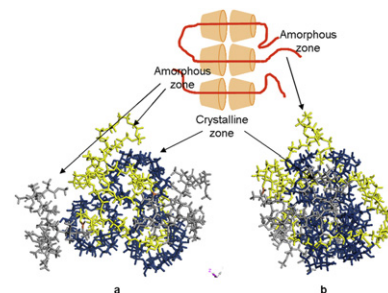


### Synthesis of novel nanoreinforcements for polymer matrices by ATRP: Triblock poly(rotaxan)s based in polyethyleneglycol end-capped with poly(methyl methacrylate)

pp 5884–5891

Verónica San-Miguel, María González, Javier Pozuelo\*, Juan Baselga

Departamento de Ciencia e Ingeniería de Materiales e Ingeniería Química, Universidad Carlos III de Madrid (IAAB), Av. Universidad 30, 28911 Madrid, Spain

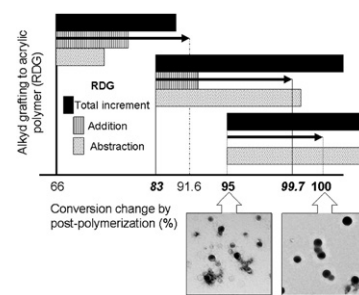


### Post-polymerization of waterborne alkyd/acrylics. Effect on polymer architecture and particle morphology

pp 5892–5900

Roque J. Minari, Monika Goikoetxea, Itxaso Beristain, María Paulis, María J. Barandiaran, José M. Asua\*

Institute for Polymer Materials, POLYMAT, Departamento de Química Aplicada, The University of the Basque Country, Centro Joxe Mari Korta, Avenida Tolosa 72, 20018 Donostia-San Sebastián, Spain



### Effect of Radical Grafting of tetramethylpentadecane and polypropylene on carbon nanotubes' dispersibility in various solvents and polypropylene matrix

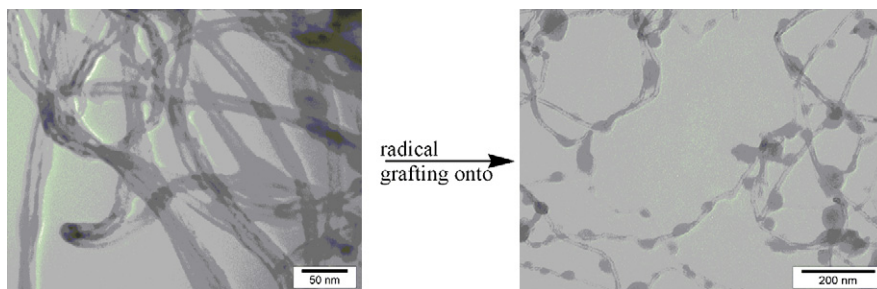
pp 5901–5908

Gholamali Farzi<sup>a, b, c</sup>, Sohaib Akbar<sup>a, b, c</sup>,  
Emmanuel Beyou<sup>a, b, c, \*</sup>, Philippe Cassagnau<sup>a, b, c</sup>,  
Flavien Melis<sup>a, b, c</sup>

<sup>a</sup> Université de Lyon, Lyon, F-69003, France

<sup>b</sup> Université Lyon 1, Lyon, F-69003, France

<sup>c</sup> CNRS UMR5223, Ingénierie des Matériaux Polymères, Laboratoire des Matériaux Polymères et Biomatériaux, F-69622 Villeurbanne, France

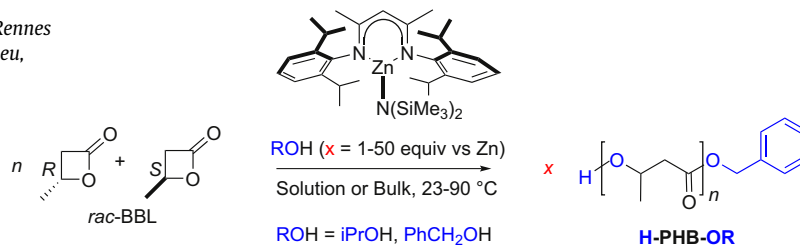


### Immortal ring-opening polymerization of $\beta$ -butyrolactone with zinc catalysts: Catalytic approach to poly(3-hydroxyalkanoate)

pp 5909–5917

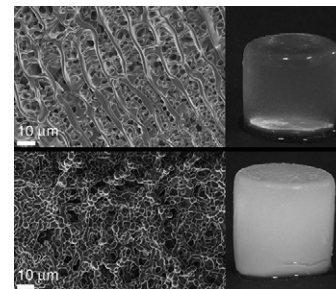
Clémence Guillaume, Jean-François Carpentier\*, Sophie M. Guillaume\*

Laboratoire Catalyse et Organométaboliques CNRS - Université de Rennes 1 - Sciences Chimiques de Rennes (UMR 6226), Campus de Beaulieu, 35042 Rennes Cedex, France

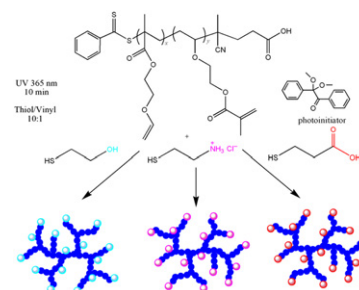


**The preparation of poly(2-hydroxyethyl methacrylate) and poly((2-hydroxyethyl methacrylate)-co-[poly(ethylene glycol) methyl ether methacrylate]] by photoinitiated polymerisation-induced phase separation in water**

pp 5918–5927

Murray V. Baker<sup>a,\*</sup>, David H. Brown<sup>a,b</sup>, Ylenia S. Casadio<sup>a</sup>, Traian V. Chirila<sup>c,d,e</sup><sup>a</sup> Chemistry M313, School of Biomedical, Biomolecular and Chemical Sciences, The University of Western Australia, Crawley, W.A. 6009, Australia<sup>b</sup> Nanochemistry Research Institute, Department of Applied Chemistry, Curtin University of Technology, Kent St, Bentley, W.A. 6102, Australia<sup>c</sup> Queensland Eye Institute, University of Queensland, 41 Annerley Road, South Brisbane, Queensland 4101, Australia<sup>d</sup> School of Physical and Chemical Sciences, Queensland University of Technology, Brisbane, Queensland 4001, Australia<sup>e</sup> Australian Institute for Bioengineering and Nanotechnology, University of Queensland, St Lucia, Brisbane, Queensland 4072, Australia
**RAFT polymerization and thiol-ene modification of 2-vinylxyethyl methacrylate: Towards functional branched polymers**

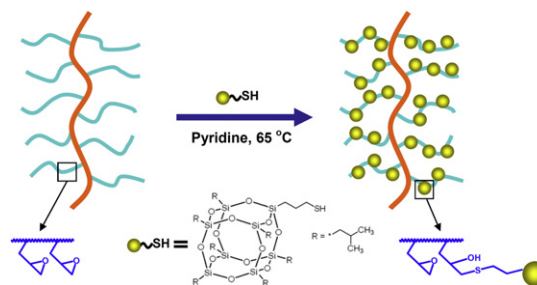
pp 5928–5932

Zhongfan Jia<sup>a</sup>, Jinquan Liu<sup>a</sup>, Thomas P. Davis<sup>a,\*</sup>, Volga Bulmus<sup>b,\*\*</sup><sup>a</sup> Centre for Advanced Macromolecular Design (CAMD), School of Chemical Sciences and Engineering, The University of New South Wales (UNSW), Sydney, NSW 2052, Australia<sup>b</sup> Centre for Advanced Macromolecular Design (CAMD), School of Biotechnology and Biomolecular Sciences (BABS), The University of New South Wales (UNSW), Sydney, NSW 2052, Australia
**Single-molecular hybrid nano-cylinders: Attaching polyhedral oligomeric silsesquioxane covalently to poly(glycidyl methacrylate) cylindrical brushes**

pp 5933–5939

Youyong Xu, Jiayin Yuan, Axel H.E. Müller\*

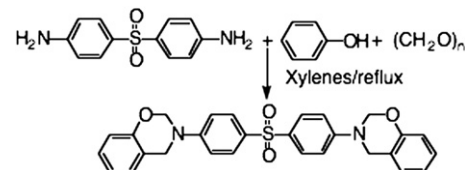
Makromolekulare Chemie II and Bayreuther Zentrum für Kolloide und Grenzflächen, Universität Bayreuth, D-95440 Bayreuth, Germany


**A new synthetic approach for difficult benzoxazines: Preparation and polymerization of 4,4'-diaminodiphenyl sulfone-based benzoxazine monomer**

pp 5940–5944

Tarek Agag, Lin Jin, Hatsuo Ishida\*

Department of Macromolecular Science and Engineering, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-7202, USA



### Synthesis, characterization, and photophysics of electroluminescent fluorene/dibenzothiophene- and fluorene/dibenzothiophene-S,S-dioxide-based main-chain copolymers bearing benzimidazole-based iridium complexes as backbones or dopants

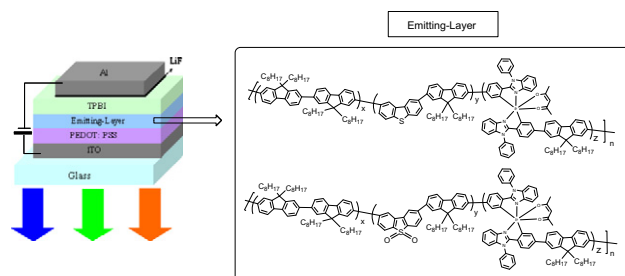
pp 5945–5958

Wei-Sheng Huang<sup>a</sup>, Ying-Hsien Wu<sup>b</sup>, Ying-Chan Hsu<sup>c</sup>, Hong-Cheu Lin<sup>a,\*</sup>, Jiann T. Lin<sup>c,\*\*</sup>

<sup>a</sup> Department of Materials Science and Engineering, National Chiao Tung University, Hsinchu, Taiwan, ROC

<sup>b</sup> Electro-Optical Engineering and Graduate Institute of Electronics Engineering, National Taiwan University, Taipei, Taiwan, ROC

<sup>c</sup> Institute of Chemistry, Academia Sinica, Taipei, Taiwan, ROC



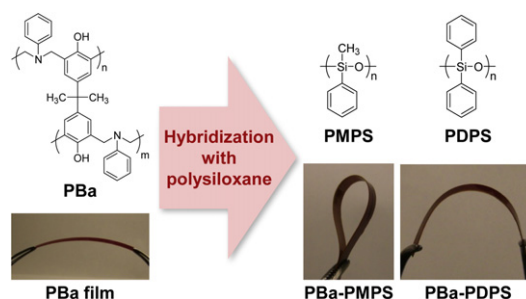
### Effect of pendant group of polysiloxanes on the thermal and mechanical properties of polybenzoxazine hybrids

pp 5959–5969

Hosta Ardhyanta<sup>a</sup>, Takehiro Kawauchi<sup>a</sup>, Hanafi Ismail<sup>b</sup>, Tsutomu Takeichi<sup>a,\*</sup>

<sup>a</sup> Department of Materials Science, Toyohashi University of Technology, Tempaku-cho, Toyohashi, 441-8580, Japan

<sup>b</sup> School of Materials and Mineral Resources Engineering, Universiti Sains Malaysia, Seri Ampangan, 14300 Nibong Tebal, Pulau Pinang, Malaysia

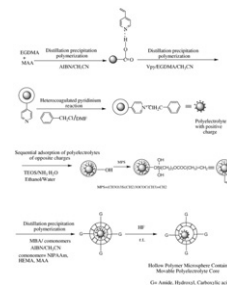


### Synthesis of hollow polymer microspheres with movable polyelectrolyte core and functional groups on the shell-layer

pp 5970–5979

Min Ji, Bin Liu, Xinlin Yang<sup>\*</sup>, Junyou Wang

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



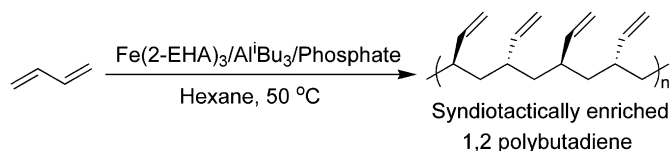
### Syndiotactically enriched 1,2-selective polymerization of 1,3-butadiene initiated by iron catalysts based on a new class of donors

pp 5980–5986

Dirong Gong<sup>a,b</sup>, Weimin Dong<sup>a</sup>, Yanming Hu<sup>a</sup>, Jifu Bi<sup>a</sup>, Xuequan Zhang<sup>a,\*</sup>, Liansheng Jiang<sup>a</sup>

<sup>a</sup> Laboratory of Polymer Engineering, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, 5625 Renmin Street, Changchun 130022, PR China

<sup>b</sup> Graduate School of the Chinese Academy of Sciences, Beijing 100049, PR China

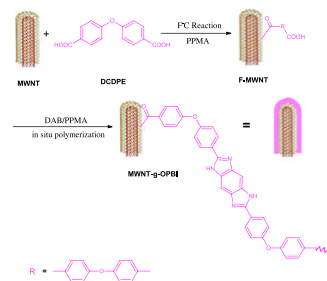


**One pot synthesis of multiwalled carbon nanotubes reinforced polybenzimidazole hybrids: Preparation, characterization and properties**

pp 5987–5995

Huanzhen Shao, Zixing Shi\*, Jianhua Fang, Jie Yin

School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University, 800 Dongchuan Road, Shanghai 200240, People's Republic of China



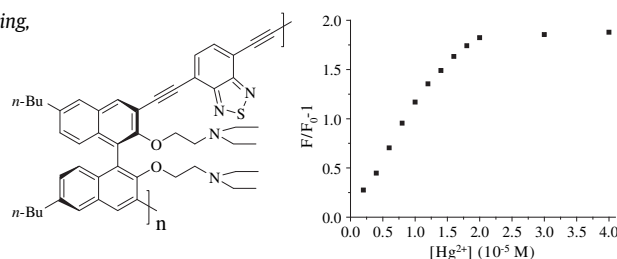
**A highly selective and sensitive fluorescence chemosensor based on optically active polybinaphthyls for Hg<sup>2+</sup>**

pp 5996–6000

Xiaobo Huang<sup>a,b</sup>, Ying Xu<sup>a</sup>, Lifei Zheng<sup>a</sup>, Jie Meng<sup>a</sup>, Yixiang Cheng<sup>a,\*</sup>

<sup>a</sup> Key Lab of Mesoscopic Chemistry of MOE, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210093, China

<sup>b</sup> College of Chemistry and Materials Engineering, Wenzhou University, Wenzhou 325027, China



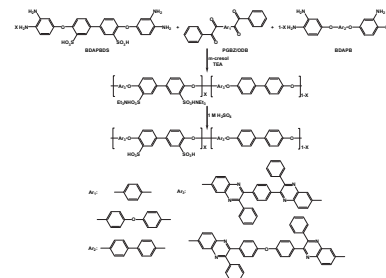
**Synthesis and properties of novel sulfonated poly(phenylquinoxaline)s as proton exchange membranes**

pp 6001–6008

Feixiang Gong<sup>a,b</sup>, Nanwen Li<sup>a,b</sup>, Suobo Zhang<sup>a,\*</sup>

<sup>a</sup> State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, China

<sup>b</sup> Graduate School of Chinese Academy of Sciences, Beijing 100039, China

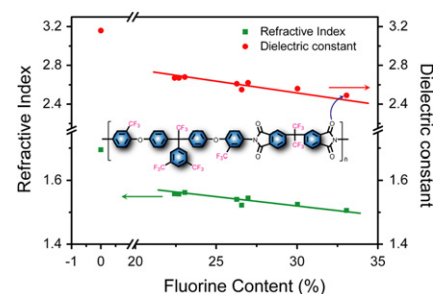


**Synthesis and characterization of highly optical transparent and low dielectric constant fluorinated polyimides**

pp 6009–6018

Liming Tao, Haixia Yang\*, Jingang Liu, Lin Fan, Shiyong Yang\*

Laboratory of Advanced Polymer Materials, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China



### Ring-opening polymerization of $\epsilon$ -caprolactone by poly(propyleneglycol) in the presence of a monomer activator

pp 6019–6023

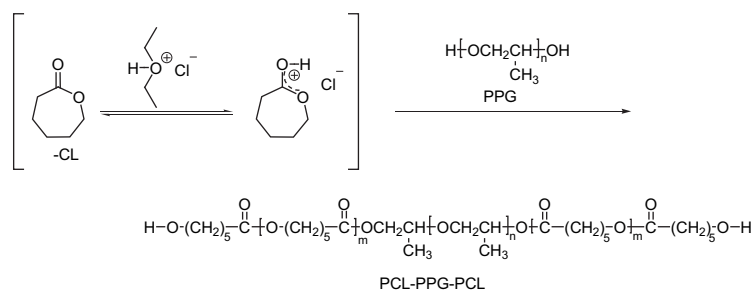
Jae Min Oh<sup>a</sup>, Sang Hyo Lee<sup>b</sup>, Jin Soo Son<sup>b</sup>, Gilson Khang<sup>a</sup>,  
Chun Ho Kim<sup>c</sup>, Heung Jae Chun<sup>d</sup>, Byoung Hyun Min<sup>b</sup>,  
Jae Ho Kim<sup>b</sup>, Moon Suk Kim<sup>b,\*</sup>

<sup>a</sup> BK-21 Polymer BIN Fusion Research Team, Chonbuk National University, 664-14, Duckjin, Jeonju 561-756, Republic of Korea

<sup>b</sup> Department of Molecular Science and Technology, Ajou University, Suwon 443-759, Republic of Korea

<sup>c</sup> Laboratory of Tissue Engineering, Korea Institute of Radiological and Medical Sciences, 215-4, Gongneung-Dong, Nowon-Gu, Seoul 139-706, Republic of Korea

<sup>d</sup> Department of Biomedical Sciences, College of Medicine, Catholic University, Seoul 137-701, Republic of Korea



### Micelle formation in beta-casein solutions

pp 6024–6031

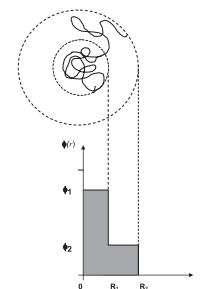
Adel Aschi<sup>a,\*</sup>, Patrick Calmettes<sup>b</sup>, Mohamed Daoud<sup>c</sup>, Roger Douillard<sup>d</sup>, Abdelhafidh Gharbi<sup>a</sup>

<sup>a</sup> Physic Department, Faculté des Sciences de Tunis, Campus Universitaire, 2092, Tunis, Tunisia

<sup>b</sup> Laboratoire Léon Brillouin, CEA Saclay 91191 Gif-sur-Yvette cedex, France

<sup>c</sup> Service de Physique de l'Etat Condensé, CEA Saclay 91191 Gif-sur-Yvette cedex, France

<sup>d</sup> Equipe de Biochimie des Macromolécules Végétales, Centre de Recherche Agronomique, 2 Esplanade R. Garros, BP 224, 51686 Reims cedex 2, France

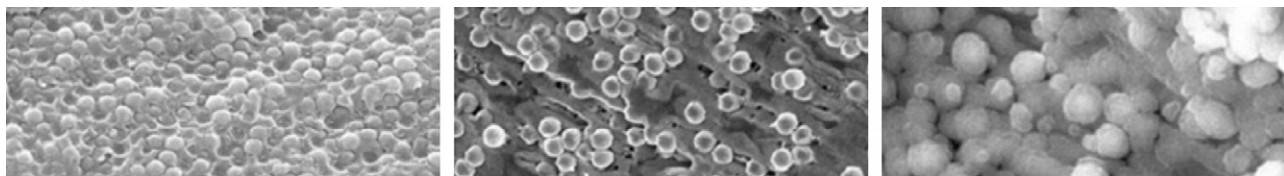


### Cross-linked latex particles grafted with polyisoprene as model rubber-compatible fillers

pp 6032–6042

Mario Gauthier<sup>\*</sup>, Abdul Munam

Department of Chemistry, Institute for Polymer Research, University of Waterloo, 200 University Ave. West, Waterloo, ON N2L 3G1, Canada



### Structure of chemically prepared poly-(para-phenylenediamine) investigated by spectroscopic techniques

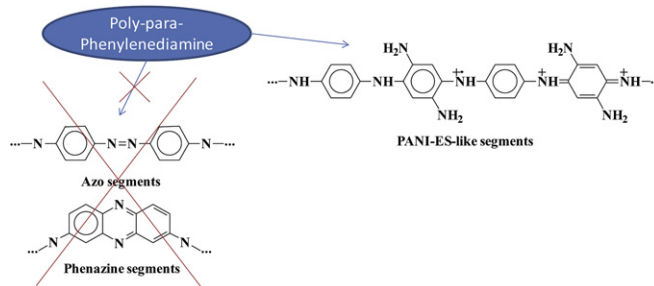
pp 6043–6048

Ricardo H. Sestrem<sup>a</sup>, Daniela C. Ferreira<sup>a</sup>, Richard Landers<sup>b,c</sup>,  
Marcia L.A. Temperini<sup>a</sup>, Gustavo M. do Nascimento<sup>a,\*</sup>

<sup>a</sup> Departamento de Química Fundamental, Instituto de Química, Universidade de São Paulo, CP 26.077, CEP 05513-970, São Paulo, SP, Brazil

<sup>b</sup> Departamento de Física Aplicada, Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas, CP 6165, CEP 13083-970 Campinas, SP, Brazil

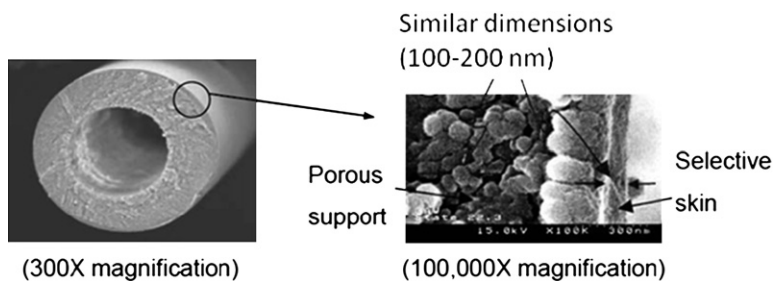
<sup>c</sup> Laboratório Nacional de Luz Síncrotron, CP 6192 13084-971, Campinas, SP, Brazil



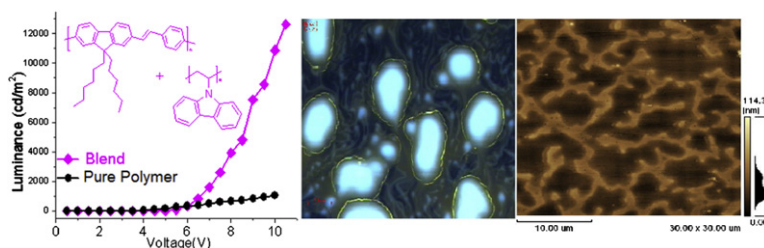


**Toluene and *n*-heptane sorption in Matrimid® asymmetric hollow fiber membranes**

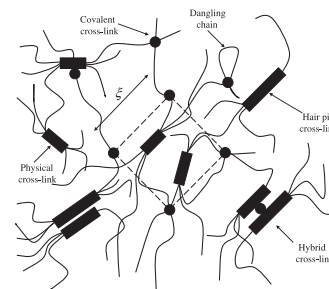
pp 6049–6056

Jong Suk Lee, Ryan T. Adams, William Madden,  
William J. Koros\*School of Chemical and Biomolecular Engineering,  
Georgia Institute of Technology, Atlanta, GA-30332, USA**Highly efficient polymer blends from a polyfluorene derivative and PVK for LEDs**

pp 6057–6064

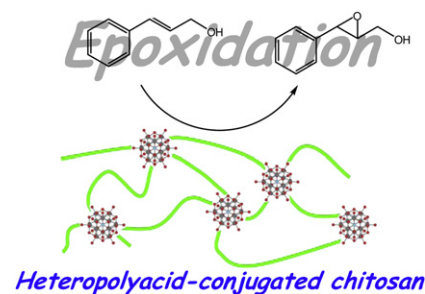
Bruno Nowacki<sup>a</sup>, Eduardo Iamazaki<sup>b</sup>, Ali Cirpan<sup>c</sup>, Frank Karasz<sup>c</sup>,  
Teresa D.Z. Atvars<sup>b</sup>, Leni Akcelrud<sup>a,\*</sup><sup>a</sup> Laboratório de Polímeros Paulo Scarpa (LaPPS) UFPR, Universidade  
Federal do Paraná, P.O. Box 19081, Curitiba 81531-990, Paraná, Brazil<sup>b</sup> Instituto de Química, Universidade Estadual de Campinas,  
P.O. Box 6154, Campinas 13084-971, São Paulo, Brazil<sup>c</sup> Department of Polymer Science and Engineering, University  
of Massachusetts at Amherst, MA, USA**Characterization of cross-linked polyampholytic gelatin hydrogels through the rubber elasticity and thermodynamic swelling theories**

pp 6065–6075

Julio A. Deiber<sup>a,\*</sup>, Mariel L. Ottone<sup>a</sup>, María V. Piaggio<sup>b</sup>, Marta B. Peirotti<sup>a</sup><sup>a</sup> Instituto de Desarrollo Tecnológico para la Industria Química (INTEC), Universidad Nacional del Litoral  
(UNL), Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Güemes 3450, S3000GLN,  
Santa Fe, Argentina<sup>b</sup> Cátedra de Bioquímica Básica de Macromoléculas, Facultad de Bioquímica y Ciencias Biológicas, UNL,  
Paraje El Pozo, CC 242, S3000ZAA, Santa Fe, Argentina**Heteropolyacid-conjugated chitosan matrix for triphase catalyst**

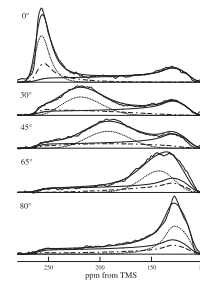
pp 6076–6082

Masanori Yamada\*, Akiko Maeda

Department of Chemistry, Faculty of Science, Okayama University of Science,  
Ridaicho, Kita-ku, Okayama 700-0005, Japan

## Heterogeneous structure of poly(glycolic acid) fiber studied with differential scanning calorimeter, X-ray diffraction, solid-state NMR and molecular dynamic simulation

pp 6083–6090

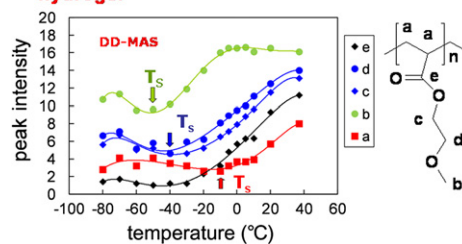
Sokei Sekine<sup>a,b</sup>, Kazuo Yamauchi<sup>a</sup>, Akihiro Aoki<sup>a</sup>, Tetsuo Asakura<sup>a,\*</sup><sup>a</sup> Department of Biotechnology, Tokyo University of Agriculture and Technology, Koganei, Tokyo 184-8588, Japan<sup>b</sup> Mitsui Chemical Analysis & Consulting Service, Inc., 580-32, Nagaura, Sodegaura 299-0265, Japan

## Network structures and dynamics of dry and swollen poly(acrylate)s. Characterization of high- and low-frequency motions as revealed by suppressed or recovered intensities (SRI) analysis of <sup>13</sup>C NMR

pp 6091–6099

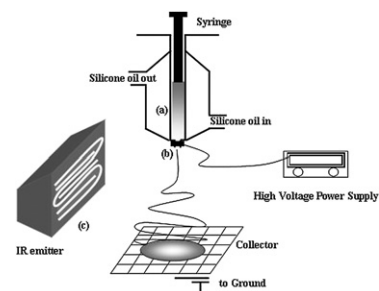
Yuko Miwa<sup>a,\*</sup>, Hiroyuki Ishida<sup>a</sup>, Hazime Saitō<sup>b,\*\*</sup>, Masaru Tanaka<sup>c</sup>, Akira Mochizuki<sup>d</sup><sup>a</sup> Toray Research Center, Inc., 3-3-7 Sonoyama, Otsu, Shiga 520-8567, Japan<sup>b</sup> Himeji Institute of Technology, University of Hyogo, Kamigori, 678-1297 Hyogo, Japan<sup>c</sup> Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, 2-1-1, Katahira, Aoba-ku, Sendai 980-8577, Japan<sup>d</sup> Department of Bio-Medical Engineering, School of High-Technology for Human Welfare, Tokai University, Nishino 317, Numazu, Shizuoka 410-0395, Japan

### SRI plots for <sup>13</sup>C NMR spectra of PMEA hydrogel



## Correlation between processing parameters and microstructure of electrospun poly(D,L-lactic acid) nanofibers

pp 6100–6110

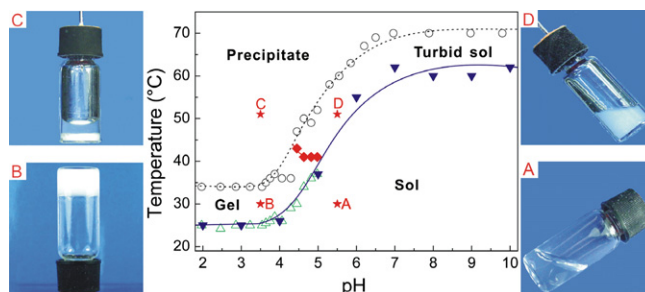
Chi Wang<sup>a,\*</sup>, Huan-Sheng Chien<sup>a</sup>, Kuo-Wei Yan<sup>a</sup>, Chien-Lin Hung<sup>a</sup>, Kan-Lin Hung<sup>b</sup>, Shih-Jung Tsai<sup>b</sup>, Hao-Jhe Jhang<sup>c</sup><sup>a</sup> Department of Chemical Engineering, National Cheng Kung University, Tainan 701, Taiwan<sup>b</sup> Industrial Technology Research Institute South, Nano-Powder & Thin Film Technology Center, Tainan 709, Taiwan<sup>c</sup> Taiwan Textile Research Institute, No. 6, Chengtian Rd, Tucheng City, Taipei County 23674, Taiwan

## A delicate ionizable-group effect on self-assembly and thermogelling of amphiphilic block copolymers in water

pp 6111–6120

Guangtao Chang, Lin Yu, Zigang Yang, Jiandong Ding<sup>\*</sup>

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





**The melt grafting preparation and rheological characterization of long chain branching polypropylene**

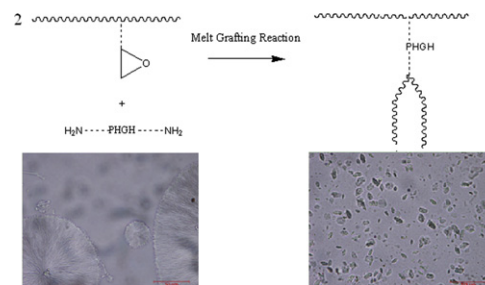
pp 6121–6128

Shuzhao Li<sup>a</sup>, Miaomiao Xiao<sup>c</sup>, Dafu Wei<sup>b</sup>, Huining Xiao<sup>c</sup>, Fuzeng Hu<sup>a</sup>, Anna Zheng<sup>a,\*</sup>

<sup>a</sup> School of Materials Science and Engineering, East China University of Science and Technology, Shanghai 200237, China

<sup>b</sup> Key Laboratory for Ultrafine Materials of Ministry of Education, East China University of Science and Technology, Shanghai 200237, China

<sup>c</sup> Department of Chemical Engineering, University of New Brunswick, Fredericton, N.B., E3B 6C1, Canada



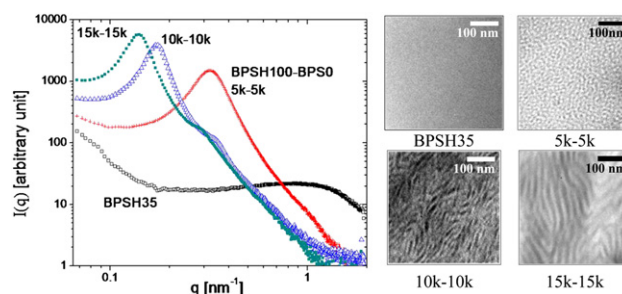
**Effects of block length and solution-casting conditions on the final morphology and properties of disulfonated poly(arylene ether sulfone) multiblock copolymer films for proton exchange membranes**

pp 6129–6138

Myoungbae Lee<sup>a</sup>, Jong Keun Park<sup>b</sup>, Hae-Seung Lee<sup>b</sup>, Ozma Lane<sup>b</sup>, Robert B. Moore<sup>b</sup>, James E. McGrath<sup>b</sup>, Donald G. Baird<sup>a,\*</sup>

<sup>a</sup> Department of Chemical Engineering, Virginia Tech, Blacksburg, VA 24061, USA

<sup>b</sup> Macromolecules and Interfaces Institute, Virginia Tech, Blacksburg, VA 24061, USA



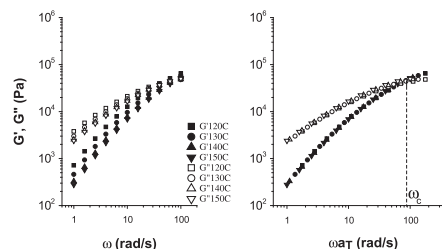
**Melt viscoelasticity of biodegradable poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) copolymers**

pp 6139–6148

Qi Liao<sup>a</sup>, Isao Noda<sup>b</sup>, Curtis W. Frank<sup>a,\*</sup>

<sup>a</sup> Department of Chemical Engineering, Stanford University, Stanford, CA 94305-5025, United States

<sup>b</sup> The Procter & Gamble Company, 8611 Beckett Road, West Chester, OH 45069, United States



**A variable energy positron annihilation lifetime spectroscopy study of physical aging in thin glassy polymer films**

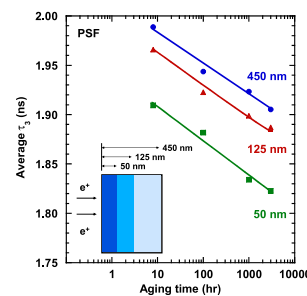
pp 6149–6156

Brandon W. Rowe<sup>a</sup>, Steven J. Pas<sup>b</sup>, Anita J. Hill<sup>b</sup>, Ryoichi Suzuki<sup>c</sup>, Benny D. Freeman<sup>a</sup>, D.R. Paul<sup>a,\*</sup>

<sup>a</sup> Department of Chemical Engineering, Texas Materials Institute and Center for Energy and Environmental Resources, The University of Texas at Austin, Austin, Texas 78712, USA

<sup>b</sup> CSIRO Materials Science and Engineering, Private Bag 33, Clayton, Victoria 3168, Australia

<sup>c</sup> National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Ibaraki, Japan

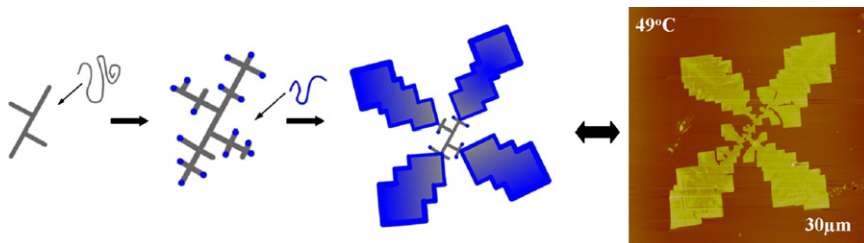


### Macromolecular effect on crystal pattern formation in ultra-thin films: Molecular segregation in a binary blend of PEO fractions

pp 6157–6165

Liuxin Jin, Guoliang Zhang, Xuemei Zhai, Zhenpeng Ma, Ping Zheng, Wei Wang\*

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



### Re-assembly behaviors of polystyrene-*b*-poly(acrylic acid) micelles

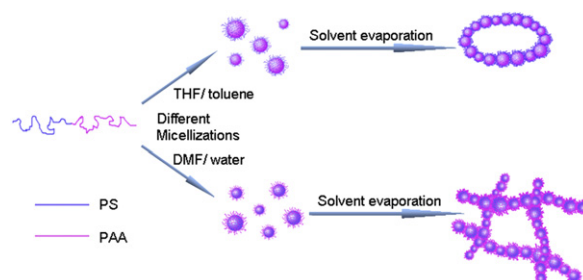
pp 6166–6171

Yang Zhang<sup>a</sup>, Xing Xiao<sup>a</sup>, Jian-jun Zhou<sup>a</sup>, Lei Wang<sup>a</sup>, Zhi-bo Li<sup>a</sup>, Lin Li<sup>a,\*</sup>, Lin-qi Shi<sup>b</sup>, Chi-Ming Chan<sup>c</sup>

<sup>a</sup> Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

<sup>b</sup> Key Laboratory of Functional Polymer Materials of Ministry of Education, Institute of Polymer Chemistry, Nankai University, Tianjin 300071, China

<sup>c</sup> Department of Chemical and Biomolecular Engineering, Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong



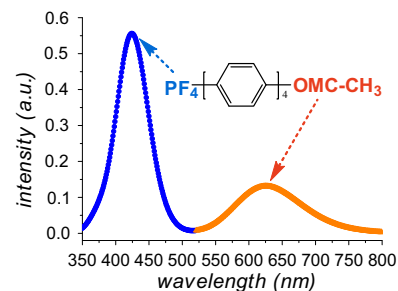
### Theoretical investigation on the white-light emission from a single-polymer system with simultaneous blue and orange emission

pp 6172–6185

Bo Hu<sup>a,b</sup>, Jingping Zhang<sup>a,\*</sup>

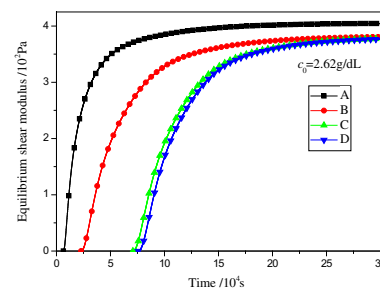
<sup>a</sup> Faculty of Chemistry, Northeast Normal University, Changchun 130024, China

<sup>b</sup> Faculty of Chemistry, Jilin Normal University, Siping 136000, China



**Performance inhomogeneity of gelatin during gelation process**

pp 6186–6191

Xiliang Chen<sup>a</sup>, Yuxi Jia<sup>a,\*</sup>, Sheng Sun<sup>a</sup>, Ligang Feng<sup>a</sup>, Lijia An<sup>b,\*</sup><sup>a</sup> School of Materials Science & Engineering, Shandong University, Jinan 250061, China<sup>b</sup> State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, China

\*Corresponding author

Full text of this journal is available, on-line from **ScienceDirect**. Visit [www.sciencedirect.com](http://www.sciencedirect.com) for more information.Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei compendex, EMBASE/ Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS<sup>®</sup>. Full text available on ScienceDirect<sup>®</sup>

ELSEVIER

ISSN 0032-3861

## Author Index

- Adams, R. T. 6049  
 Agag, T. 5940  
 Akbar, S. 5901  
 Akcelrud, L. 6057  
 An, L. 6186  
 Aoki, A. 6083  
 Ardhyananta, H. 5959  
 Asakura, T. 6083  
 Aschi, A. 6024  
 Asua, J. M. 5892  
 Atvars, T. D. Z. 6057
- Baird, D. G. 6129  
 Baker, M. V. 5918  
 Barandiaran, M. J. 5892  
 Baselga, J. 5884  
 Beristain, I. 5892  
 Beyou, E. 5901  
 Bi, J. 5980  
 Böhme, F. 5876  
 Brown, D. H. 5918  
 Bulmus, V. 5928
- Calmettes, P. 6024  
 Carpentier, J.-F. 5909  
 Casadio, Y. S. 5918  
 Cassagnau, P. 5901  
 Chan, C.-M. 6166  
 Chang, G. 6111  
 Chen, X. 6186  
 Cheng, Y. 5996  
 Chien, H.-S. 6100  
 Chirila, T. V. 5918  
 Chun, H. J. 6019  
 Cirpan, A. 6057
- Daoud, M. 6024  
 Davis, T. P. 5928  
 Deiber, J. A. 6065  
 Ding, J. 6111  
 do Nascimento, G. M. 6043  
 Dong, W. 5980  
 Douillard, R. 6024  
 Dudkina, M. M. 5876
- Fan, L. 6009  
 Fang, J. 5987  
 Farzi, G. 5901  
 Feng, L. 6186  
 Ferreira, D. C. 6043  
 Frank, C. W. 6139  
 Freeman, B. D. 6149
- Gauthier, M. 6032  
 Gharbi, A. 6024  
 Goikoetxea, M. 5892  
 Gong, D. 5980  
 Gong, F. 6001  
 González, M. 5884  
 Guillaume, C. 5909  
 Guillaume, S. M. 5909
- Hill, A. J. 6149  
 Hong, B. 5871  
 Hsu, Y.-C. 5945  
 Hu, B. 6172  
 Hu, F. 6121
- Hu, W. 5871  
 Hu, Y. 5980  
 Huang, W.-S. 5945  
 Huang, X. 5996  
 Hung, C.-L. 6100  
 Hung, K.-L. 6100
- Iamazaki, E. 6057  
 Ishida, H. 5940  
 Ishida, Hiroyuki 6091  
 Ismail, H. 5959
- Jhang, H.-J. 6100  
 Ji, M. 5970  
 Jia, Y. 6186  
 Jia, Z. 5928  
 Jiang, L. 5980  
 Jin, L. 5940  
 Jin, Liuxin 6157
- Karasz, F. 6057  
 Kawauchi, T. 5959  
 Khang, G. 6019  
 Kim, C. H. 6019  
 Kim, J. H. 6019  
 Kim, M. S. 6019  
 Komber, H. 5876  
 Koros, W. J. 6049
- Landers, R. 6043  
 Lane, O. 6129  
 Lee, H.-S. 6129  
 Lee, J. S. 6049  
 Lee, M. 6129  
 Lee, S. H. 6019  
 Li, L. 6166  
 Li, N. 6001  
 Li, S. 6121  
 Li, Z.-b. 6166  
 Liao, Q. 6139  
 Lin, H.-C. 5945  
 Lin, J. T. 5945  
 Liu, B. 5970  
 Liu, J. 5928  
 Liu, Jingang 6009
- Ma, Y. 5871  
 Ma, Z. 6157  
 Madden, W. 6049  
 Maeda, A. 6076  
 McGrath, J. E. 6129  
 Melis, F. 5901  
 Meng, J. 5996  
 Min, B. H. 6019  
 Minari, R. J. 5892  
 Miwa, Y. 6091  
 Mochizuki, A. 6091  
 Moore, R. B. 6129  
 Müller, A. H. E. 5933  
 Munam, A. 6032
- Noda, I. 6139  
 Nowacki, B. 6057
- Oertel, U. 5876  
 Oh, J. M. 6019  
 Ottone, M. L. 6065
- Park, J. K. 6129  
 Pas, S. J. 6149  
 Paul, D. R. 6149  
 Paulis, M. 5892  
 Peirotti, M. B. 6065  
 Piaggio, M. V. 6065  
 Pozuelo, J. 5884
- Qiu, F. 5871
- Ren, Y. 5871  
 Rowe, B. W. 6149
- Saitô, H. 6091  
 San-Miguel, V. 5884  
 Sekine, S. 6083  
 Sestrem, R. H. 6043  
 Shao, H. 5987  
 Shi, L.-q. 6166  
 Shi, Z. 5987  
 Son, J. S. 6019  
 Sun, S. 6186  
 Suzuki, R. 6149
- Takeichi, T. 5959  
 Tanaka, M. 6091  
 Tao, L. 6009  
 Temperini, M. L. A. 6043  
 Tenkovtsev, A. V. 5876  
 Trofimov, A. E. 5876  
 Tsai, S.-J. 6100
- Wang, C. 6100  
 Wang, J. 5970  
 Wang, L. 6166  
 Wang, W. 6157  
 Wei, D. 6121  
 Wu, Y.-H. 5945
- Xiao, H. 6121  
 Xiao, M. 6121  
 Xiao, X. 6166  
 Xu, Y. 5933  
 Xu, Ying 5996
- Yamada, M. 6076  
 Yamauchi, K. 6083  
 Yan, K.-W. 6100  
 Yang, H. 6009  
 Yang, S. 6009  
 Yang, X. 5970  
 Yang, Z. 6111  
 Yin, J. 5987  
 Yu, L. 6111  
 Yuan, J. 5933
- Zha, L. 5871  
 Zhai, X. 6157  
 Zhang, G. 6157  
 Zhang, J. 6172  
 Zhang, S. 6001  
 Zhang, X. 5980  
 Zhang, Y. 6166  
 Zheng, A. 6121  
 Zheng, L. 5996  
 Zheng, P. 6157  
 Zhou, J.-j. 6166