

**Polymer Vol. 50, No. 5, 23 February 2009**

**Contents**

**FEATURE ARTICLE**

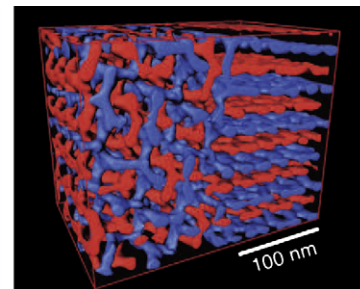
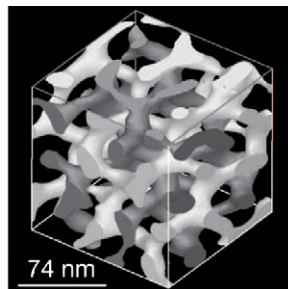
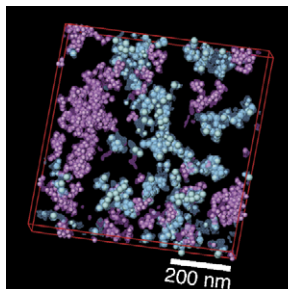
**Transmission electron microtomography in polymer research**

pp 1067–1087

Hiroshi Jinnai<sup>a,\*</sup>, Richard J. Spontak<sup>b,\*</sup>

<sup>a</sup> Department of Macromolecular Science and Engineering, Graduate School of Science and Engineering, Kyoto Institute of Technology, Kyoto 606-8585, Japan

<sup>b</sup> Departments of Chemical & Biomolecular Engineering and Materials Science & Engineering, North Carolina State University, Raleigh, NC 27695, USA



**POLYMER PAPERS**

**Akaganeite polymer nanocomposites**

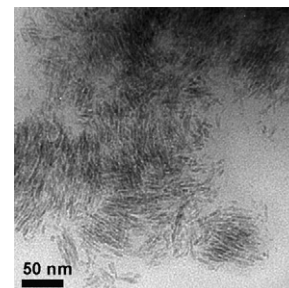
pp 1088–1094

A. Millan<sup>a,\*</sup>, A. Urtizberea<sup>a</sup>, E. Natividad<sup>a</sup>, F. Luis<sup>a</sup>, N.J.O. Silva<sup>a</sup>, F. Palacio<sup>a</sup>, I. Mayoral<sup>a</sup>, M.L. Ruiz-González<sup>b</sup>, J.M. González-Calbet<sup>b</sup>, P. Lecante<sup>c</sup>, V. Serin<sup>c</sup>

<sup>a</sup> Instituto de Ciencia de Materiales de Aragón, CSIC-Universidad de Zaragoza, Facultad de Ciencias, Pza. San Francisco s/n, 50009 Zaragoza, Spain

<sup>b</sup> Dpto. Química Inorgánica, Universidad Complutense de Madrid, 28040 Madrid, Spain

<sup>c</sup> CEMES-CNRS, 29 rue Jeanne Marvig, F-31055 Toulouse Cédex, France



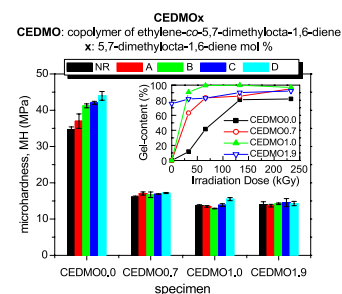
### Crosslinking in metallocene ethylene-co-5,7-dimethylocta-1,6-diene copolymers initiated by electron-beam irradiation

pp 1095–1102

María L. Cerrada<sup>a,\*</sup>, Rosario Benavente<sup>a</sup>, Marta Fernández-García<sup>a</sup>, Ernesto Pérez<sup>a</sup>, João M. Campos<sup>b</sup>, M. Rosário Ribeiro<sup>b</sup>

<sup>a</sup> Instituto de Ciencia y Tecnología de Polímeros (CSIC), Juan de la Cierva 3, 28006 Madrid, Spain

<sup>b</sup> Instituto de Ciência e Engenharia de Materiais e Superfícies – ICEMS, Instituto Superior Técnico – IST, Departamento de Engenharia Química e Biológica, Universidade Técnica de Lisboa – UTL, Av. Rovisco Pais, 1049-001 Lisboa, Portugal

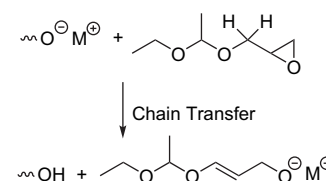


### Chain transfer reactions limit the molecular weight of polyglycidol prepared via alkali metal based initiating systems

pp 1103–1108

Marc Hans, Helmut Keul<sup>\*</sup>, Martin Moeller<sup>\*</sup>

DWI an der RWTH Aachen e.V. and Institute of Technical and Macromolecular Chemistry, RWTH Aachen, Pauwelsstr. 8, D-52056 Aachen, Germany



### Synthesis of poly( $\epsilon$ -caprolactone)-block-poly(*n*-butyl acrylate) by combining ring-opening polymerization and atom transfer radical polymerization with $\text{Ti}[\text{OCH}_2\text{CCl}_3]_4$ as difunctional initiator: I. Kinetic study of $\text{Ti}[\text{OCH}_2\text{CCl}_3]_4$ initiated ring-opening polymerization of $\epsilon$ -caprolactone

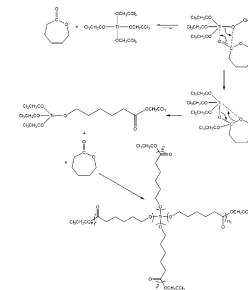
pp 1109–1117

Peichun Li<sup>a,c</sup>, Amar Zerroukhi<sup>b,\*</sup>, Jianding Chen<sup>c</sup>, Yvan Chalamet<sup>a</sup>, Thomas Jeanmaire<sup>b</sup>, Zhean Xia<sup>c</sup>

<sup>a</sup> Ingénierie des Matériaux Polymères/LRMP, UMR CNRS 5223, Université Jean Monnet, 23 rue du Dr Paul Michelon, 42023 Saint-Etienne, Cedex 2, France

<sup>b</sup> Université Jean Monnet, Département de Chimie, 23 rue du Dr Paul Michelon, 42023 Saint-Etienne, Cedex 2, France

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

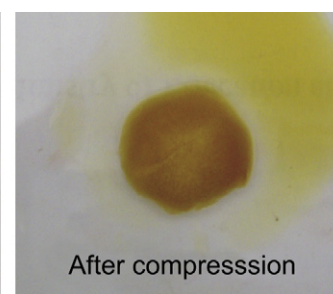
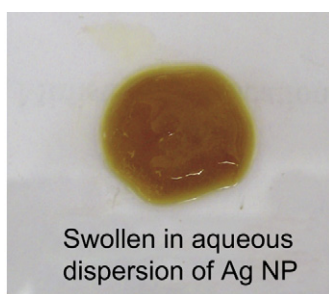


### UV-assisted synthesis of super-macroporous polymer hydrogels

pp 1118–1123

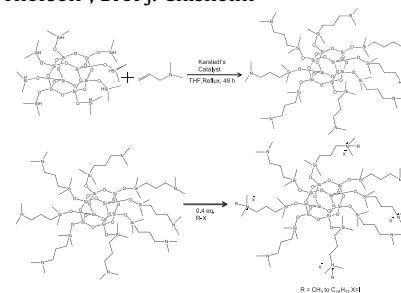
Petar Petrov<sup>\*</sup>, Elissaveta Petrova, Christo B. Tsvetanov

Institute of Polymers, Bulgarian Academy of Sciences, "Akad. G. Bonchev" Str. 103A, 1113 Sofia, Bulgaria



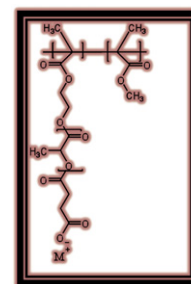
### Synthesis and antimicrobial activity of quaternary ammonium-functionalized POSS (Q-POSS) and polysiloxane coatings containing Q-POSS

pp 1124–1133

Partha Majumdar<sup>a</sup>, Elizabeth Lee<sup>a</sup>, Nathan Gubbins<sup>a</sup>, Shane J. Stafslie<sup>a</sup>, Justin Daniels<sup>a</sup>, Clayton J. Thorson<sup>a</sup>, Bret J. Chisholm<sup>a,b,\*</sup><sup>a</sup> The Center for Nanoscale Science and Engineering, North Dakota State University, 1805 Research Park Drive, Fargo, ND 58102, USA<sup>b</sup> Department of Coatings and Polymeric Materials, North Dakota State University, 1735 Research Park Drive, Fargo, ND 58102, USA

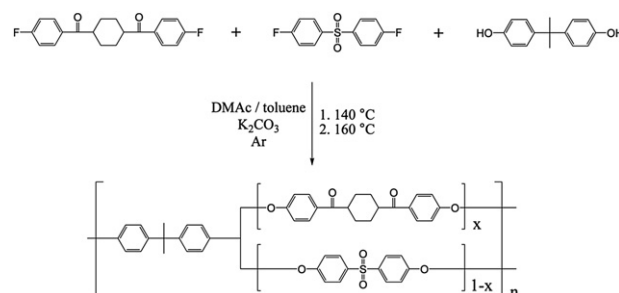
### Synthesis and properties of random poly(lactic acid)-based ionomers

pp 1134–1143

Andrew J. Ro<sup>a</sup>, Samuel J. Huang<sup>a,b</sup>, R.A. Weiss<sup>a,c,\*</sup><sup>a</sup> Polymer Program, University of Connecticut, Storrs, CT 06269-3136, USA<sup>b</sup> Dept. of Chemistry, University of Connecticut, Storrs, CT 06269-3136, USA<sup>c</sup> Dept. of Chemical Engineering, University of Connecticut, Storrs, CT 06269-3136, USA

### Synthesis and characterization of cyclohexyl-containing poly(ether ketone sulfone)s

pp 1144–1149

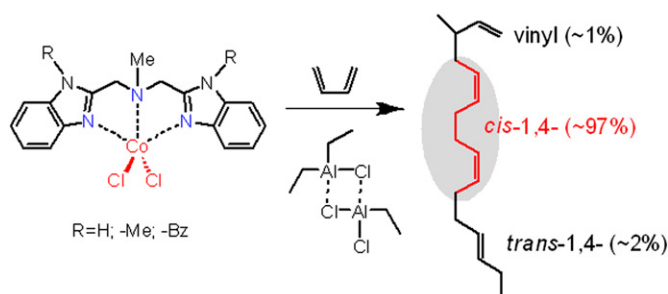
Keiichi Osano<sup>a</sup>, Sudipto Das<sup>b</sup>, S. Richard Turner<sup>a,\*</sup><sup>a</sup> Department of Chemistry, Macromolecules and Interfaces Institute (MII), Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, USA<sup>b</sup> Department of Chemical Engineering, Macromolecules and Interfaces Institute (MII), Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, USA

### Highly active and stereospecific polymerizations of 1,3-butadiene by using bis(benzimidazolyl)amine ligands derived Co(II) complexes in combination with ethylaluminum sesquichloride

pp 1150–1158

Vinukrishnan Appukkuttan, Lin Zhang, Chang-Sik Ha, Il Kim<sup>\*</sup>

Department of Polymer Science and Engineering, Pusan National University, Busan 609-735, Republic of Korea



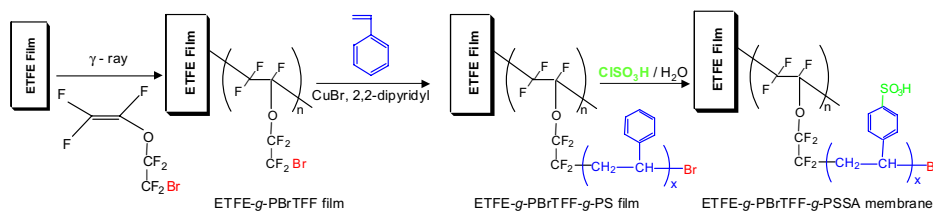
## Synthesis of fluorinated polymer electrolyte membranes by radiation grafting and atom transfer radical polymerization techniques

pp 1159–1165

Maolin Zhai<sup>a,b,\*</sup>, Jinhua Chen<sup>a</sup>, Shin Hasegawa<sup>a</sup>, Yasunari Maekawa<sup>a,\*\*</sup>

<sup>a</sup> Conducting Polymer Materials Group, Environment and Industrial Materials Research Division, Quantum Beam Science Directorate, Japan Atomic Energy Agency (JAEA), 1233 Watanuk-machi, Takasaki, Gunma 370-1292, Japan

<sup>b</sup> Beijing National Laboratory for Molecular Sciences (BNLMS), Department of Applied Chemistry, College of Chemistry and Molecular Engineering, Peking University, Yiheyuan Road No. 5, 100871 Beijing, PR China

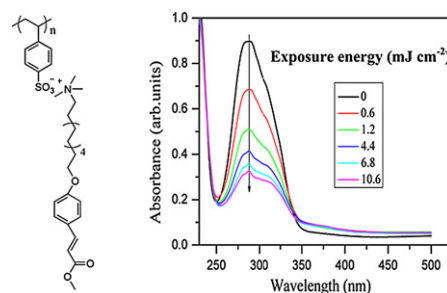


## Photoinduced orientation in ionic-bonding photo-cross-linkable polymers

pp 1166–1172

Hui Kong, Xuemin Lu, Sufang Xiao, Qinghua Lu\*

School of Chemistry and Chemical Technology, The State Key Laboratory of Metal Matrix Composites, Shanghai Jiao Tong University, Shanghai 200240, PR China



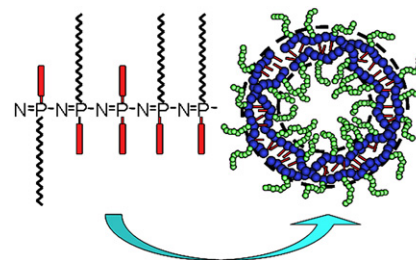
## Novel polymersomes based on amphiphilic graft polyphosphazenes and their encapsulation of water-soluble anti-cancer drug

pp 1173–1177

Cheng Zheng<sup>a,b</sup>, Liyan Qiu<sup>a,\*</sup>, Kangjie Zhu<sup>b</sup>

<sup>a</sup> College of Pharmaceutical Sciences, Zhejiang University, 388 Yuhangtang Road, Hangzhou 310058, China

<sup>b</sup> Institute of Polymer Science, Zhejiang University, Hangzhou 310027, China

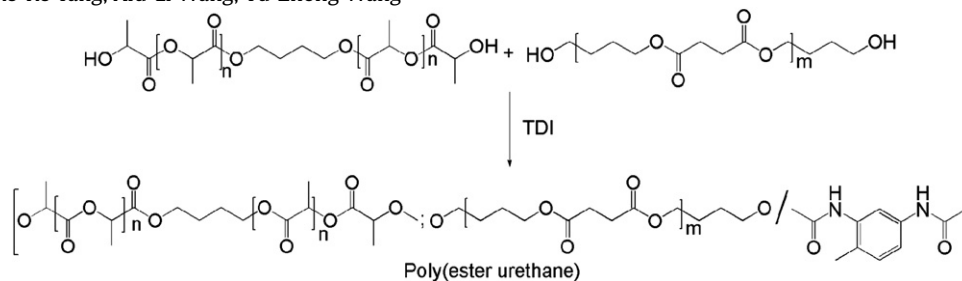


## A novel biodegradable multiblock poly(ester urethane) containing poly(L-lactic acid) and poly(butylene succinate) blocks

pp 1178–1186

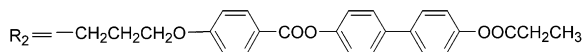
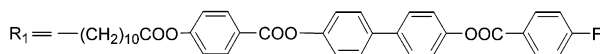
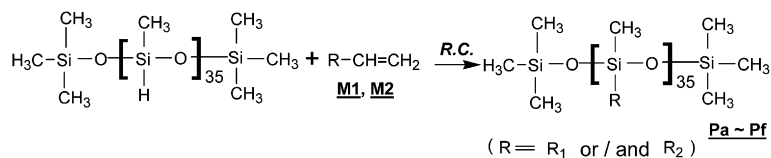
Jian-Bing Zeng, Yi-Dong Li, Qun-Ying Zhu, Ke-Ke Yang, Xiu-Li Wang, Yu-Zhong Wang\*

Center for Degradable and Flame-Retardant Polymeric Materials, College of Chemistry, State Key Laboratory of Polymer Materials Engineering, Sichuan University, Chengdu 610064, China

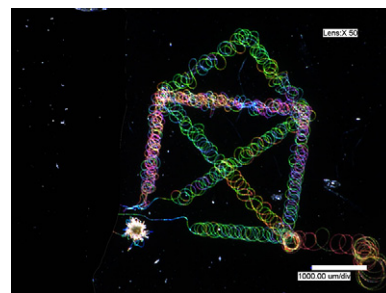


**Phase behaviors of comb-like liquid crystalline polysiloxanes containing fluorinated mesogenic units**

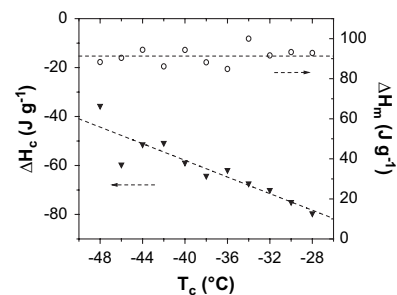
pp 1187–1196

Fan-Bao Meng\*, Yui Cui, Hai-Bin Chen, Bao-Yan Zhang\*,  
Chao JiaThe Research Centre for Molecular Science and Engineering,  
Northeastern University, Shenyang 110004, PR China**High Precision Deposition Electrospinning of nanofibers and nanofiber nonwovens**

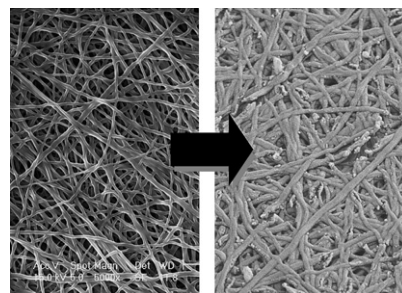
pp 1197–1205

Ch. Hellmann<sup>a</sup>, J. Belardi<sup>a</sup>, R. Dersch<sup>a</sup>, A. Greiner<sup>a</sup>, J.H. Wendorff<sup>a,\*,\*\*</sup>, S. Bahnmüller<sup>b,\*\*</sup><sup>a</sup> Department of Chemistry and Center of Material Science, Philipps-University, Hans-Meerwein-Strasse,  
Marburg 35032, Germany<sup>b</sup> Functional Films Research Center Singapore, Bayer (South East Asia) Pte Ltd, 049514 Singapore, Singapore**Isothermal crystallization study on aqueous solution of poly(vinyl methyl ether) by DSC method**

pp 1206–1213

Tianzhu Zhang<sup>a,b,\*</sup>, Ting Li<sup>b</sup>, Erik Nies<sup>b,c</sup>, Hugo Berghmans<sup>b</sup>, Liqin Ge<sup>d,\*\*</sup><sup>a</sup> State Key Lab of Bioelectronics, Jiangsu Key Lab for Biomaterials and Devices, School of Biological Science  
and Medical Engineering, Southeast University, Nanjing 210096, China<sup>b</sup> Polymer Research Division, Department of Chemistry, Katholieke Universiteit Leuven, Celestijnenlaan  
200F, B-3001 Heverlee, Belgium<sup>c</sup> Laboratory of Polymer Technology, Eindhoven University of Technology, P.O. Box 513, 5600MB Eindhoven,  
The Netherlands<sup>d</sup> State Key Lab of Bioelectronics, School of Biological Science and Medical Engineering, Southeast University,  
Nanjing 210096, China**Rapid synthesis of polymer-silica hybrid nanofibers by biomimetic mineralization**

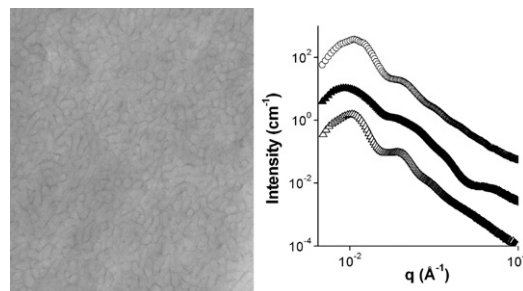
pp 1214–1222

Pritesh A. Patel<sup>a</sup>, Jessica Eckart<sup>b</sup>, Maria C. Advincula<sup>c</sup>, A. Jon Goldberg<sup>c</sup>, Patrick T. Mather<sup>a,d,\*</sup><sup>a</sup> Department of Macromolecular Science and Engineering, Case Western Reserve University, United States<sup>b</sup> Department of Biomedical Engineering, Case Western Reserve University, United States<sup>c</sup> Center for Biomaterials, Department of Reconstructive Sciences, University of Connecticut Health Center,  
United States<sup>d</sup> Syracuse Biomaterials Institute and Biomedical and Chemical Engineering Department, Syracuse  
University, Syracuse, NY 13244, United States



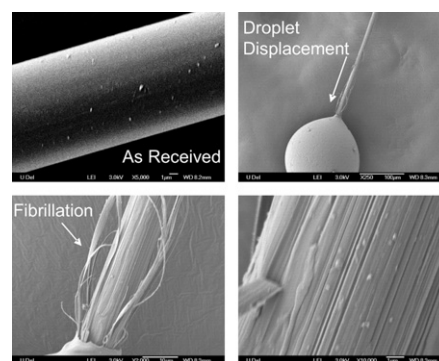
### Oxidation effect on templating of metal oxide nanoparticles within block copolymers

pp 1223–1227

Pinar Akcora<sup>a,1</sup>, Robert M. Briber<sup>b</sup>, Peter Kofinas<sup>c,\*</sup><sup>a</sup> Department of Chemical and Biomolecular Engineering, University of Maryland, College Park, MD, United States<sup>b</sup> Department of Materials Science and Engineering, University of Maryland, College Park, MD, United States<sup>c</sup> Fischell Department of Bioengineering, University of Maryland, Bldg 225 Room 1120, College Park, MD 20742-2111, United States

### Interfacial behavior of high performance organic fibers

pp 1228–1235

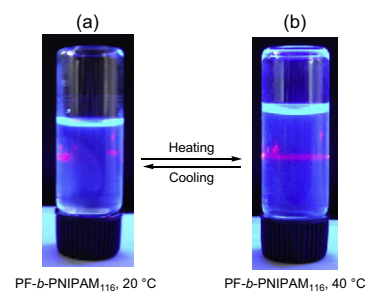
A. Andres Leal<sup>a,b</sup>, Joseph M. Deitzel<sup>a</sup>, Steven H. McKnight<sup>d</sup>, John W. Gillespie, Jr.<sup>a,b,c,\*</sup><sup>a</sup> Center for Composite Materials (UD-CCM), University of Delaware, Newark, DE 19716, United States<sup>b</sup> Department of Materials Science and Engineering, University of Delaware, Newark, DE 19716, United States<sup>c</sup> Department of Civil and Environmental Engineering, University of Delaware, Newark, DE 19716, United States<sup>d</sup> Army Research Laboratory, Materials Division, Aberdeen, MD 21005, United States

### Synthesis, characterization and self-assembly behavior in water as fluorescent sensors of cationic water-soluble conjugated polyfluorene-*b*-poly(*N*-isopropylacrylamide) diblock copolymers

pp 1236–1245

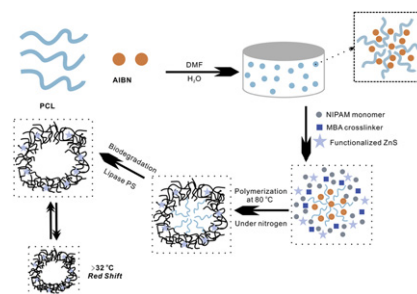
Weizhi Wang<sup>\*</sup>, Rui Wang, Chao Zhang, Su Lu, Tianxi Liu<sup>\*</sup>

Key Laboratory of Molecular Engineering of Polymers of Ministry of Education, Department of Macromolecular Science, Laboratory of Advanced Materials, Fudan University, 220 Handan Road, Shanghai 200433, People's Republic of China



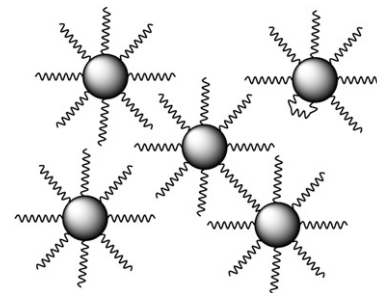
### Preparation of the stimuli-responsive ZnS/PNIPAM hollow spheres

pp 1246–1250

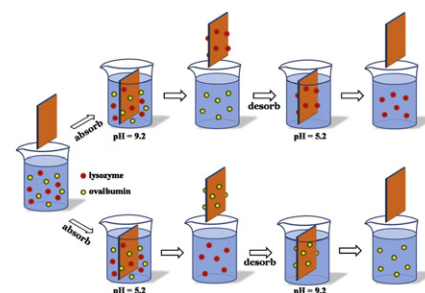
Huei-Kuan Fu<sup>a</sup>, Shiao-Wei Kuo<sup>b,\*\*</sup>, Chih-Feng Huang<sup>a</sup>, Feng-Chih Chang<sup>a,\*</sup>, Han-Ching Lin<sup>a</sup><sup>a</sup> Institute of Applied Chemistry, National Chiao-Tung University, Science Building 2, Hsin-Chu, Taiwan<sup>b</sup> Department of Materials and Optoelectronic Science, Center for Nanoscience and Nanotechnology, National Sun Yat-Sen University, Kaohsiung, Taiwan

**Interface structure of poly(ethylene terephthalate)/silica nanocomposites**

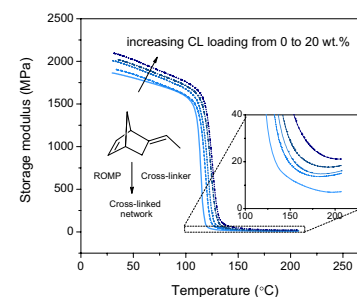
pp 1251–1256

Xiayin Yao<sup>a</sup>, Xingyou Tian<sup>a,b</sup>, Dinghai Xie<sup>c</sup>, Xian Zhang<sup>a</sup>, Kang Zheng<sup>a</sup>, Jun Xu<sup>d</sup>, Gangzhao Zhang<sup>c</sup>, Ping Cui<sup>a,b,\*</sup><sup>a</sup> Key Laboratory of Materials Physics, Institute of Solid State Physics, Chinese Academy of Sciences, Hefei 230031, China<sup>b</sup> Ningbo Institute of Material Technology & Engineering, Chinese Academy of Sciences, Ningbo 315040, China<sup>c</sup> Department of Chemical Physics, University of Science and Technology of China, Hefei 230026, China<sup>d</sup> State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan 430071, China**Protein adsorption and separation with chitosan-based amphoteric membranes**

pp 1257–1263

Zhicheng Feng<sup>a</sup>, Zhengzhong Shao<sup>a</sup>, Jinrong Yao<sup>a</sup>, Yufang Huang<sup>b</sup>, Xin Chen<sup>a,\*</sup><sup>a</sup> The Key Laboratory of Molecular Engineering of Polymers of MOE, Department of Macromolecular Science, Laboratory of Advanced Materials, Fudan University, 220 Handan Road, Shanghai 200433, People's Republic of China<sup>b</sup> Department of Material Science, National Microanalysis Center, Fudan University, Shanghai 200433, People's Republic of China**Influence of cross-link density on the properties of ROMP thermosets**

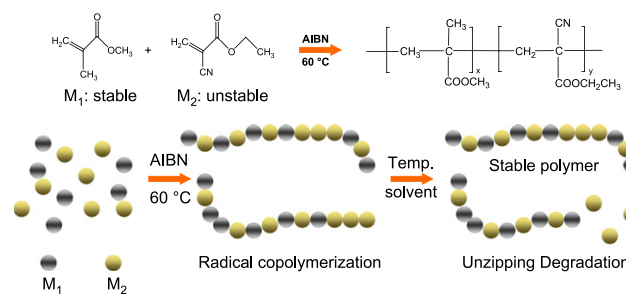
pp 1264–1269

Xia Sheng<sup>a</sup>, Jong Keun Lee<sup>a,b</sup>, Michael R. Kessler<sup>a,\*</sup><sup>a</sup> Department of Materials Science and Engineering, 2220 Hoover Hall, Iowa State University, Ames, IA 50011, USA<sup>b</sup> Department of Polymer Science and Engineering, Kumoh National Institute of Technology, Gyeongsangbuk, South Korea**Controlled degradation of poly(ethyl cyanoacrylate-co-methyl methacrylate) (PECA-co-PMMA) copolymers**

pp 1270–1280

Moon Gyu Han<sup>\*</sup>, Sanghoon Kim

Cereal Products and Food Science Unit, National Center for Agricultural Utilization Research, Agricultural Research Service, United States Department of Agriculture, 1815 N. University Street, Peoria, IL 61604, USA



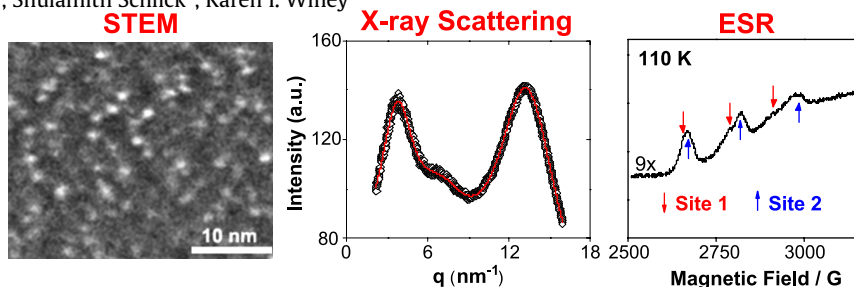
### Local structure and composition of the ionic aggregates in Cu(II)-neutralized poly(styrene-co-methacrylic acid) ionomers depend on acid content and neutralization level

pp 1281–1287

Wenqin Wang<sup>a</sup>, Tsung-Ta Chan<sup>a</sup>, Andrew J. Perkowski<sup>b</sup>, Shulamith Schlick<sup>b</sup>, Karen I. Winey<sup>a,\*</sup>

<sup>a</sup> Department of Materials Science and Engineering,  
University of Pennsylvania, 3231 Walnut Street,  
Philadelphia, PA 19104-6272, United States

<sup>b</sup> Department of Chemistry and Biochemistry,  
University of Detroit Mercy,  
Detroit, MI 48221-3038, United States



### Suppression of crystallization in a plastic crystal electrolyte (SN/LiClO<sub>4</sub>) by a polymeric additive (polyethylene oxide) for battery applications

pp 1288–1296

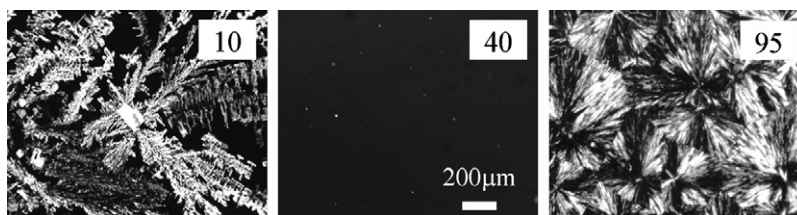
Ruijuan Yue<sup>a,b</sup>, Yanhua Niu<sup>a</sup>, Zhigang Wang<sup>a,\*</sup>, Jack F. Douglas<sup>c</sup>, Xingqi Zhu<sup>d</sup>, Erqiang Chen<sup>d</sup>

<sup>a</sup> CAS Key Laboratory of Engineering Plastics, Beijing National Laboratory for  
Molecular Sciences, Institute of Chemistry, Chinese Academy of  
Sciences, 100190 Beijing, PR China

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

<sup>c</sup> Polymers Division, National Institute of Standards  
and Technology, Gaithersburg, MD 20899, United States

<sup>d</sup> Beijing National Laboratory for Molecular Sciences,  
Key Laboratory of Polymer Chemistry and Physics  
of Ministry of Education, College of Chemistry and  
Molecular Engineering, Peking University, 100871 Beijing, PR China

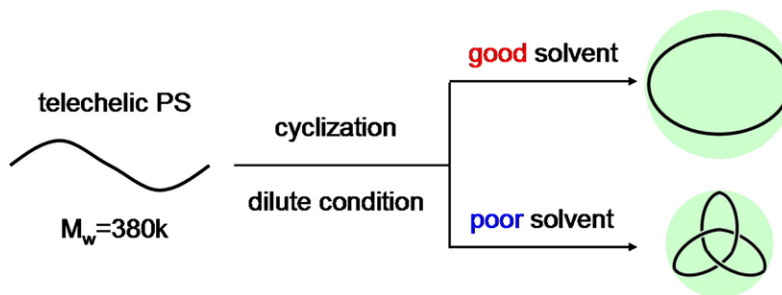


### SEC-MALS characterization of cyclization reaction products: Formation of knotted ring polymer

pp 1297–1299

Yutaka Ohta, Yuuki Kushida, Yushu Matsushita, Atsushi Takano<sup>\*</sup>

Department of Applied Chemistry, Graduate School of  
Engineering, Nagoya University, Furo-cho, Chikusa-ku,  
Nagoya 464-8603, Japan

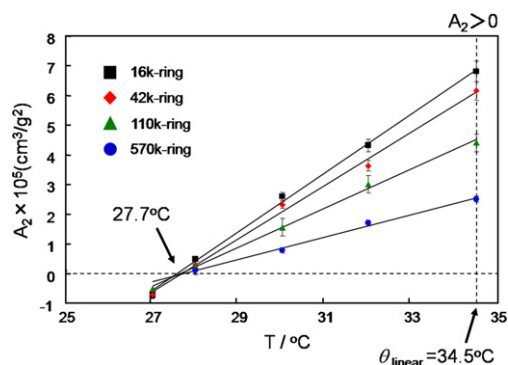


### The second virial coefficients of highly-purified ring polystyrenes in cyclohexane

pp 1300–1303

Atsushi Takano<sup>\*</sup>, Yuuki Kushida, Yutaka Ohta, Keisuke Masuoka, Yushu Matsushita

Department of Applied Chemistry, Graduate school of Engineering, Nagoya University,  
Furo-cho, Chikusa-ku, Nagoya 464-8603, Japan



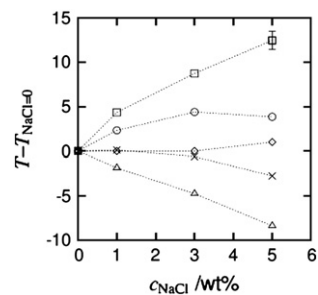


**The effect of NaCl on the eutectic phase behavior of aqueous poly(ethylene glycol) solutions**

pp 1304–1310

R.C. Gosh, A. Toda, S. Tanaka\*

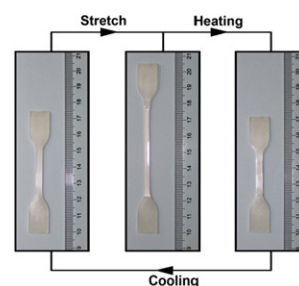
School of Integrated Arts and Sciences, Hiroshima University, 1-7-1 Kagamiyama,  
Higashi-Hiroshima 739-8521, Japan

**Surprising shape-memory effect of polylactide resulted from toughening by polyamide elastomer**

pp 1311–1315

Wei Zhang, Long Chen, Yu Zhang\*

State Key Laboratory for Modification of Chemical Fiber and Polymeric Materials, College of Materials  
Science and Engineering, Donghua University, 2999, Renmin North Road, Shanghai 201620, China

**Simultaneously increasing cryogenic strength, ductility and impact resistance of epoxy resins modified by *n*-butyl glycidyl ether**

pp 1316–1323

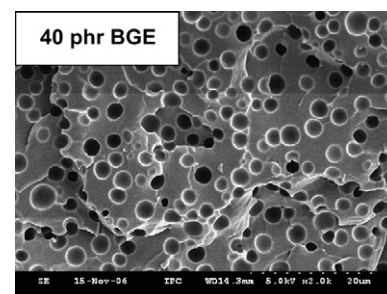
Zhen-Kun Chen<sup>a,b</sup>, Guo Yang<sup>a</sup>, Jiao-Ping Yang<sup>a</sup>, Shao-Yun Fu<sup>a,\*</sup>, Lin Ye<sup>c</sup>, Yong-Gang Huang<sup>d</sup>

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

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

<sup>c</sup> CAMT, School of Aerospace, Mechanical and Mechatronic Engineering, University of Sydney, NSW 2006, Australia

<sup>d</sup> Department of Mechanical Engineering, Northwestern University, 2145 Sheridan Road, Evanston, IL 60208, USA

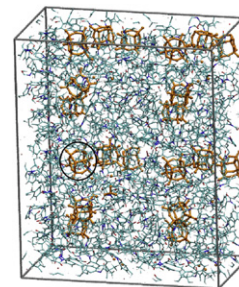


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**Molecular dynamics simulation of mixed matrix nanocomposites containing polyimide and polyhedral oligomeric silsesquioxane (POSS)**

pp 1324–1332

Yin Yani, Monica H. Lamm\*

*Department of Chemical & Biological Engineering, Iowa State University, Ames, IA 50011, USA*

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\*Corresponding author

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## Author Index

- Advincula, M. C. 1214  
 Akcora, P. 1223  
 Andres Leal, A. 1228  
 Appukuttan, V. 1150
- Bahnmueller, S. 1197  
 Belardi, J. 1197  
 Benavente, R. 1095  
 Berghmans, H. 1206  
 Briber, R. M. 1223
- Campos, J. M. 1095  
 Cerrada, M. L. 1095  
 Chalamet, Y. 1109  
 Chan, T.-T. 1281  
 Chang, F.-C. 1246  
 Chen, E. 1288  
 Chen, H.-B. 1187  
 Chen, Jianding 1109  
 Chen, Jinhua 1159  
 Chen, L. 1311  
 Chen, X. 1257  
 Chen, Z.-K. 1316  
 Chisholm, B. J. 1124  
 Cui, P. 1251  
 Cui, Y. 1187
- Daniels, J. 1124  
 Das, S. 1144  
 Deitzel, J. M. 1228  
 Dersch, R. 1197  
 Douglas, J. F. 1288
- Eckart, J. 1214
- Feng, Z. 1257  
 Fernández-García, M. 1095  
 Fu, H.-K. 1246  
 Fu, S.-Y. 1316
- Ge, L. 1206  
 Gillespie, Jr., J. W. 1228  
 Goldberg, A. J. 1214  
 González-Calbet, J. M. 1088  
 Gosh, R. C. 1304  
 Greiner, A. 1197  
 Gubbins, N. 1124
- Ha, C.-S. 1150  
 Han, M. G. 1270  
 Hans, M. 1103  
 Hasegawa, S. 1159  
 Hellmann, C. 1197  
 Huang, C.-F. 1246  
 Huang, S. J. 1134  
 Huang, Y. 1257  
 Huang, Y.-G. 1316
- Jeanmaire, T. 1109  
 Jia, C. 1187  
 Jinnai, H. 1067
- Kessler, M. R. 1264  
 Keul, H. 1103  
 Kim, I. 1150  
 Kim, S. 1270  
 Kofinas, P. 1223  
 Kong, H. 1166  
 Kuo, S.-W. 1246  
 Kushida, Y. 1297, 1300
- Lamm, M. H. 1324  
 Lecante, P. 1088  
 Lee, E. 1124  
 Lee, J. K. 1264  
 Li, P. 1109  
 Li, T. 1206  
 Li, Y.-D. 1178  
 Lin, H.-C. 1246  
 Liu, T. 1236  
 Lu, Q. 1166  
 Lu, S. 1236  
 Lu, X. 1166  
 Luis, F. 1088
- Maekawa, Y. 1159  
 Majumdar, P. 1124  
 Masuoka, K. 1300  
 Mather, P. T. 1214  
 Matsushita, Y. 1297, 1300  
 Mayoral, I. 1088  
 McKnight, S. H. 1228  
 Meng, F.-B. 1187  
 Millan, A. 1088  
 Moeller, M. 1103
- Natividad, E. 1088  
 Nies, E. 1206  
 Niu, Y. 1288
- Ohta, Y. 1297, 1300  
 Osano, K. 1144
- Palacio, F. 1088  
 Patel, P. A. 1214  
 Pérez, E. 1095  
 Perkowski, A. J. 1281  
 Petrov, P. 1118  
 Petrova, E. 1118
- Qiu, L. 1173
- Ribeiro, M. R. 1095  
 Ro, A. J. 1134  
 Ruiz-González, M. L. 1088
- Schlick, S. 1281  
 Serin, V. 1088  
 Shao, Z. 1257  
 Sheng, X. 1264  
 Silva, N. J. O. 1088  
 Spontak, R. J. 1067  
 Stafslie, S. J. 1124
- Takano, A. 1297, 1300  
 Tanaka, S. 1304  
 Thorson, C. J. 1124  
 Tian, X. 1251  
 Toda, A. 1304  
 Tsvetanov, C. B. 1118  
 Turner, S. R. 1144
- Urtizberea, A. 1088
- Wang, R. 1236  
 Wang, Weizhi 1236  
 Wang, Wenqin 1281  
 Wang, X.-L. 1178  
 Wang, Y.-Z. 1178  
 Wang, Z. 1288  
 Weiss, R. A. 1134  
 Wendorff, J. H. 1197  
 Winey, K. I. 1281
- Xia, Z. 1109  
 Xiao, S. 1166  
 Xie, D. 1251  
 Xu, J. 1251
- Yang, G. 1316  
 Yang, J.-P. 1316  
 Yang, K.-K. 1178  
 Yani, Y. 1324  
 Yao, J. 1257  
 Yao, X. 1251  
 Ye, L. 1316  
 Yue, R. 1288
- Zeng, J.-B. 1178  
 Zerroukhi, A. 1109  
 Zhai, M. 1159  
 Zhang, B.-Y. 1187  
 Zhang, C. 1236  
 Zhang, G. 1251  
 Zhang, L. 1150  
 Zhang, T. 1206  
 Zhang, W. 1311  
 Zhang, X. 1251  
 Zhang, Y. 1311  
 Zheng, C. 1173  
 Zheng, K. 1251  
 Zhu, K. 1173  
 Zhu, Q.-Y. 1178  
 Zhu, X. 1288