

Polymer Vol. 50, No. 20, 23 September 2009

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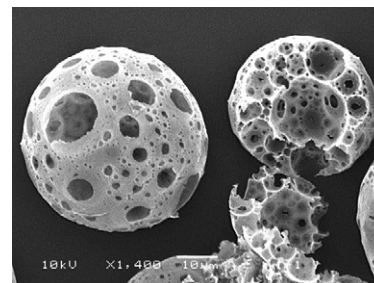
POLYMER COMMUNICATION

Porous microspheres of methoxy poly(ethylene glycol)-*b*-poly(ϵ -caprolactone-co-D,L-lactide) prepared by a melt dispersion method

pp 4761–4767

Yodthong Baimark

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POLYMER PAPERS

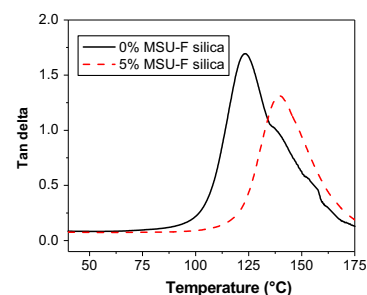
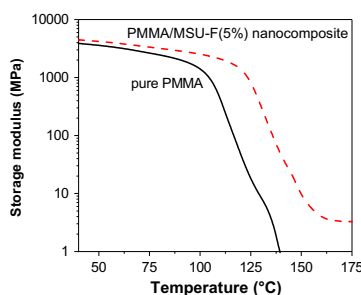
PMMA–mesocellular foam silica nanocomposites prepared through batch emulsion polymerization and compression molding

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Fa-Ai Zhang^{a, b}, Dong-Keun Lee^a, Thomas J. Pinnavaia^{a, *}

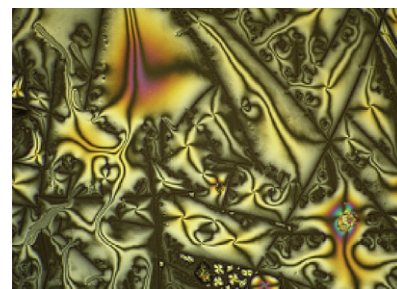
^a *Department of Chemistry, Michigan State University, East Lansing, MI 48824, USA*

^b *Laboratory of Nonferrous Materials and New Processing Technology, Ministry of Education, Department of Material and Chemical Engineering, Guilin University of Technology, Guilin, Guangxi 541004, PR China*

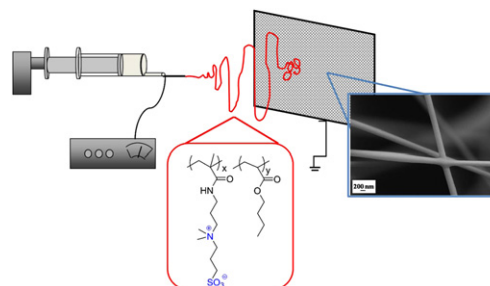


New synthesis and characterization of ionic polyurethane-urea liquid crystals

pp 4775–4780

Sellamuthu N. Jaisankar^{a,b}, Donna J. Nelson^{a,*}, Christopher N. Brammer^a^a Department of Chemistry and Biochemistry, University of Oklahoma, Norman, OK 73019, USA^b Polymer Division, Central Leather Research Institute, Adyar, Chennai 600 020, India**Electrospinning zwitterion-containing nanoscale acrylic fibers**

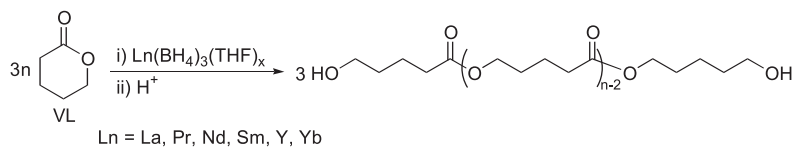
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Rebecca H. Brown^a, Matthew T. Hunley^b, Michael H. Allen, Jr.^a, Timothy E. Long^{a,*}^a Department of Chemistry, Macromolecules and Interfaces Institute, Virginia Tech, Blacksburg, VA 24061-0212, USA^b Macromolecular Science and Engineering Program, Virginia Tech, Blacksburg, VA 24061-0212, USA**Ring-opening polymerization of six-membered cyclic esters catalyzed by tetrahydroborate complexes of rare earth metals**

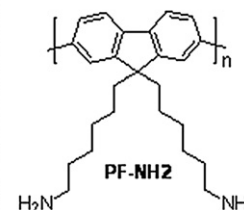
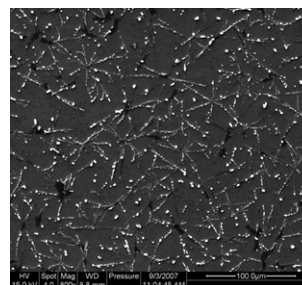
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Yuushou Nakayama^{*}, Kenta Sasaki, Naoki Watanabe, Zhengguo Cai, Takeshi Shiono^{*}

Department of Applied Chemistry, Graduate School of Engineering, Hiroshima University, Higashi-Hiroshima 739-8527, Japan

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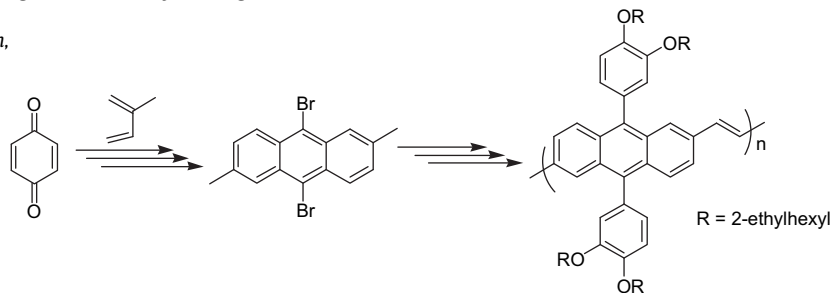
Zeng-Shan Guo^a, Jian Pei^{a,*}, Zhang-Lin Zhou^{b,*}, Lihua Zhao^b, Gary Gibson^b, Sity Lam^b, James Brug^b^a The Key Laboratory of Bioorganic Chemistry and Molecular Engineering of Ministry of Education, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China^b Information Surfaces Lab, Hewlett Packard Labs, Hewlett Packard Company, 1501 Page Mill Road, Palo Alto, CA 94304, USA

Synthesis and characterization of highly soluble 9,10-diphenyl-substituted poly(2,6-anthracenevinylene)

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Peihua Ren, Yanli Zhang, Haichang Zhang, Xueheng Zhang, Wen Li, Wenjun Yang*

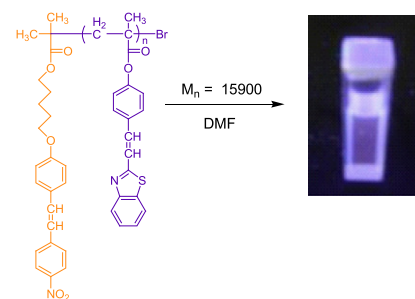
Key Laboratory of Rubber-plastics (QUST), Ministry of Education,
School of Polymer Science and Technology,
Qingdao University of Science and Technology,
53 Zhengzhou Road, Qingdao 266042, China

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Liang Zhang, Qing-Feng Xu, Jian-Mei Lu*, Na-Jun Li, Feng Yan, Li-Hua Wang

Key Laboratory of Organic Synthesis of Jiangsu Province, College of Chemistry, Chemical Engineering
and Materials Science, Soochow University, 199 Renai Road, Suzhou 215123, China

**Synthesis and characterization of main-chain liquid crystalline copolyesters containing phosphaphenanthrene side-groups**

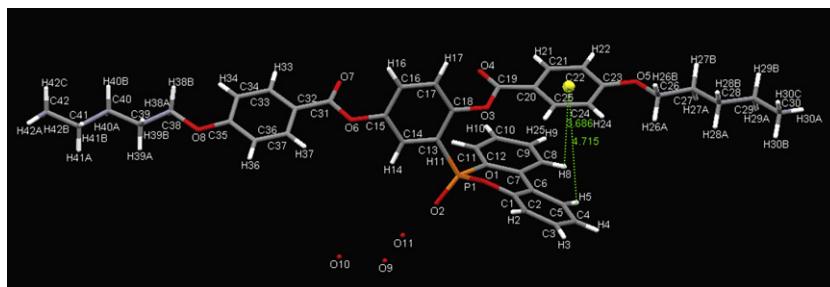
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Lijun Qian^{a, b}, Junge Zhi^c, Bin Tong^{a, *}, Jianbing Shi^a, Fan Yang^a, Yuping Dong^{a, *}

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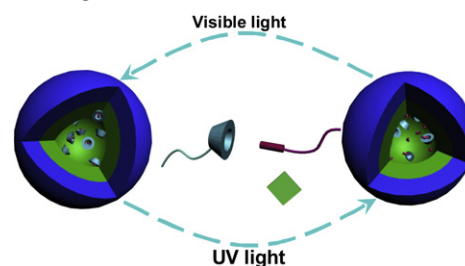
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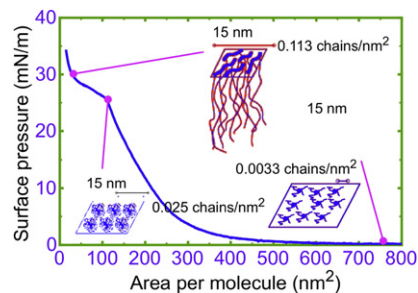
^a Key Lab of Organic Optoelectronics & Molecular Engineering, Department of Chemistry,
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^b Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, PR China



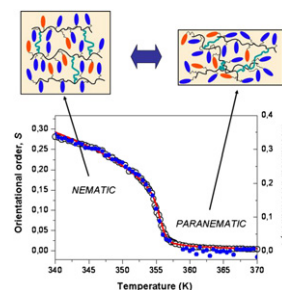
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Michael R. Tomlinson^{a,*}, Fabrice Cousin^b, Mark Geoghegan^a^a Department of Physics and Astronomy, The University of Sheffield, Sheffield S3 7RH, UK^b Laboratoire Léon Brillouin CEA/CNRS UMR12, CE-Saclay, F-91191 Gif-sur-Yvette Cédex, France

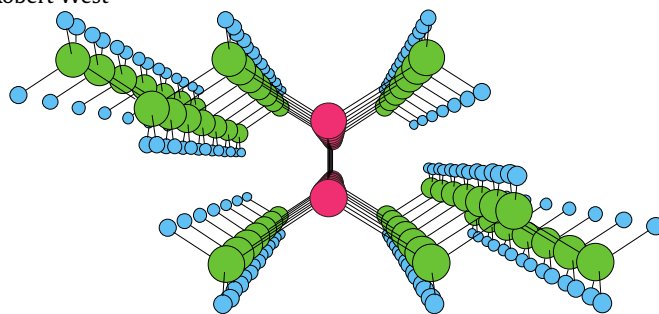
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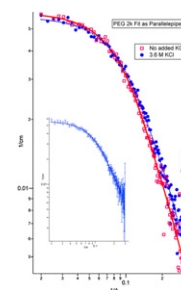
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Sergey S. Bukalov^a, Yan V. Zubavichus^a, Larissa A. Leites^{a,*}, Julian R. Koe^b, Robert West^c^a Scientific and Technical Center on Raman Spectroscopy, Institute of Organoelement Compounds, Russian Academy of Sciences, Vavilova str. 28, Moscow 119991, Russia^b Department of Material Science, International Christian University, Mitaka, Tokyo 181-8585, Japan^c Organosilicon Research Center, Department of Chemistry, University of Wisconsin, Madison, WI 53706, USA

Poly(ethylene glycol)s 2000–8000 in water may be planar: A small-angle neutron scattering (SANS) structure study

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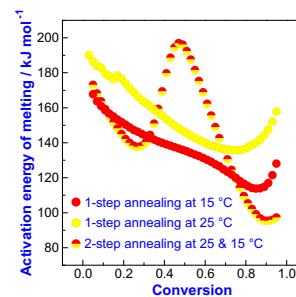
Kenneth A. Rubinson^{a,b,*}, Susan Krueger^{a,*}^a NIST Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, MD 20899, USA^b Department of Biochemistry and Molecular Biology, Wright State University, Dayton, OH 45435, USA

Thermal stability of gelatin gels: Effect of preparation conditions on the activation energy barrier to melting

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Glass transition behavior of hyper-branched polystyrenes

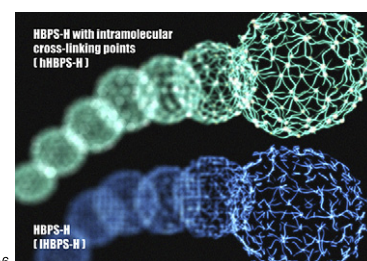
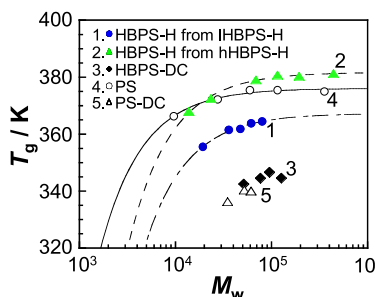
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Kei-ichi Akabori^a, Hironori Atarashi^a, Masaaki Ozawa^b, Tetsuo Kondo^c, Toshihiko Nagamura^a, Keiji Tanaka^{a,*}

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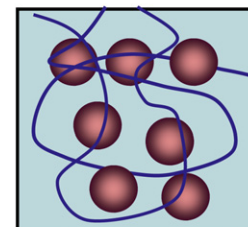
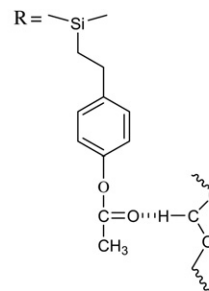
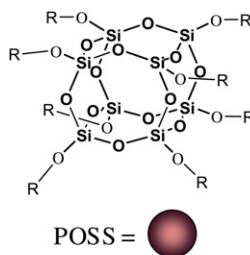


Influence of octakis-functionalized polyhedral oligomeric silsesquioxanes on the physical properties of their polymer nanocomposites

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Kai-Wei Huang, Li-Wei Tsai, Shiao-Wei Kuo*

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



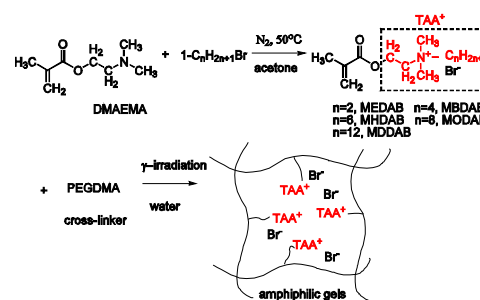
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Cancan Li^a, Ling Xu^{a,b}, Maolin Zhai^{a,*}, Jing Peng^a, Chao Yang^b, Jiuqiang Li^a, Genshuan Wei^a

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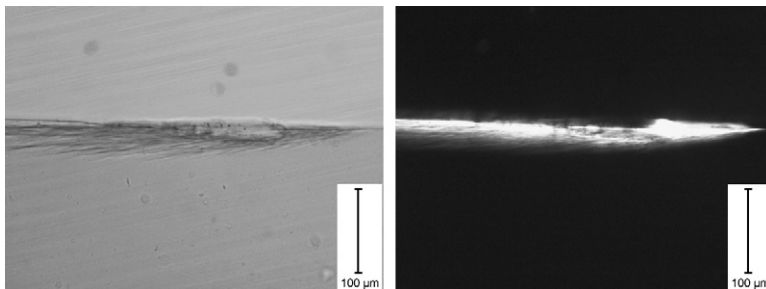
^b Department of Energy and Resources Engineering, College of Engineering, Peking University, Beijing 100871, China



Toughening mechanisms in epoxy-silica nanocomposites (ESNs)

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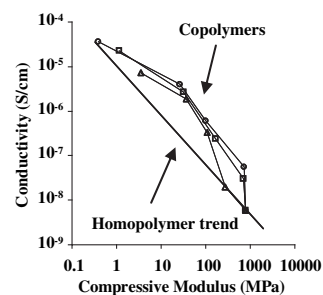
Y.L. Liang, R.A. Pearson*

Center for Polymer Science and Engineering, Lehigh University,
5 East Packer Ave, Bethlehem, PA 18015-3195, USA**Improving multifunctional behavior in structural electrolytes through copolymerization of structure- and conductivity-promoting monomers**

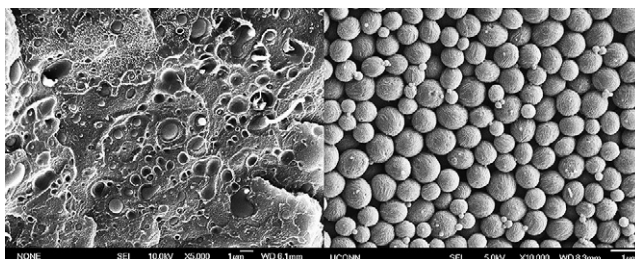
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James F. Snyder*, Eric D. Wetzel, Cara M. Watson

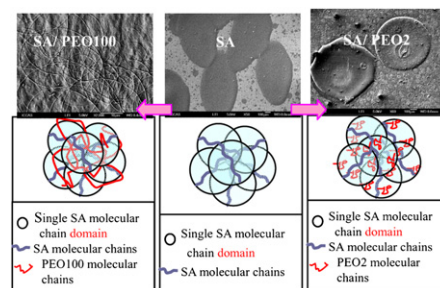
Materials Division, U.S. Army Research Laboratory, Aberdeen Proving Ground, MD 21005, USA

**Crystalline crosslinked microparticles from immiscible blends of polyethylene and polystyrene**

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Gerald H. Ling^a, Montgomery T. Shaw^{a,b,*}^a Polymer Program, Institute of Materials Science, University of Connecticut,
97 North Eagleville Road, Storrs, CT 06269, USA^b Chemical, Materials, and Biomolecular Engineering, University of Connecticut,
Storrs, CT 06269, USA**Effect of poly(ethylene oxide) with different molecular weights on the electrospinnability of sodium alginate**

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Huarong Nie^{a,b,c}, Aihua He^{d,*}, Wanling Wu^{a,b}, Jianfen Zheng^{a,b}, Shanshan Xu^{a,b}, Junxing Li^{a,b}, Charles C. Han^{a,**}^a State Key Laboratory of Polymer Physics and Chemistry, Joint Laboratory of Polymer Science and
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Nanchang 330047, China^d Key Laboratory of Rubber-Plastics (Ministry of Education), College of Polymer Science and Engineering,
Qingdao University of Science and Technology, Qingdao 266042, China

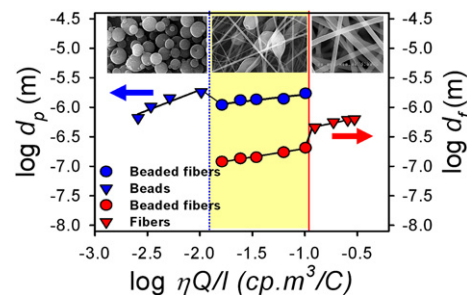
Scaling law on particle-to-fiber formation during electrospinning

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Muhammad Miftahul Munir^{a, b}, Adi Bagus Suryamas^a, Ferry Iskandar^a, Kikuo Okuyama^{a, *}

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Phase behavior of poly(3-alkylthiophene)/polystyrene blends

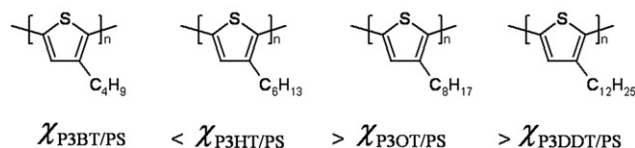
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Youngmin Lee^a, Jin Kon Kim^{a, *}, Chu-Han Chiu^b, Yi-Kang Lan^b, Ching-I Huang^{b, **}

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Interaction Parameter between P3AT and PS

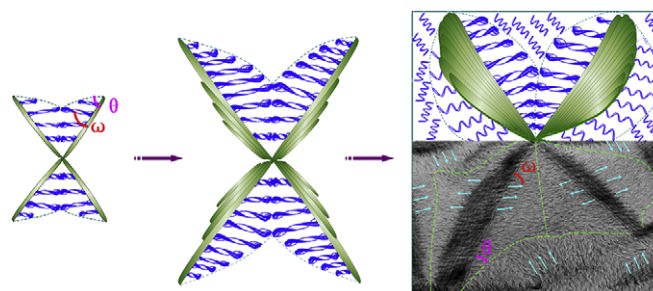


Insight into growth details and characteristics of windmill-like polyethylene crystals

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Jie Wang, Ligui Li, Xiaoni Yang^{*}

State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Graduate School of the Chinese Academy of Sciences, Renmin Str. 5625, Changchun 130022, PR China

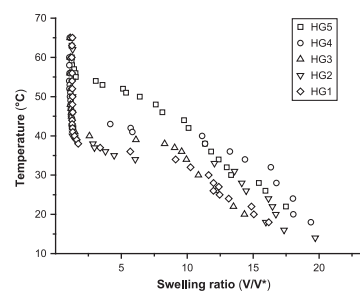


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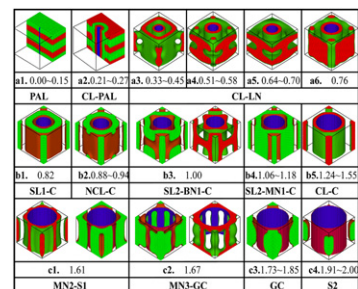
Sang Chul Jung, Young Chan Bae^{*}

Division of Chemical Engineering and Molecular Thermodynamics Laboratory, Hanyang University, Seoul 133-791, Republic of Korea



Microstructures of lamella-forming diblock copolymer melts under nanorod-array confinements

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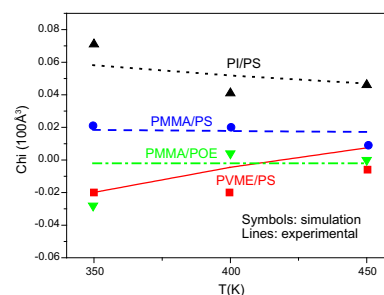
Xianghong Wang^a, Shibei Li^b, Peng Chen^c, Linxi Zhang^{b,*}, Haojun Liang^d^a Department of Physics, Zhejiang University, Hangzhou, Zhejiang 310027, China^b Department of Physics, Wenzhou University, Wenzhou, Zhejiang 325035, China^c School of Chemistry, Anhui University, Hefei, Anhui 230039, China^d Department of Polymer Science and Engineering, University of Science and Technology of China, Hefei, Anhui 230026, China

Molecular dynamics simulation of miscibility in several polymer blends

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