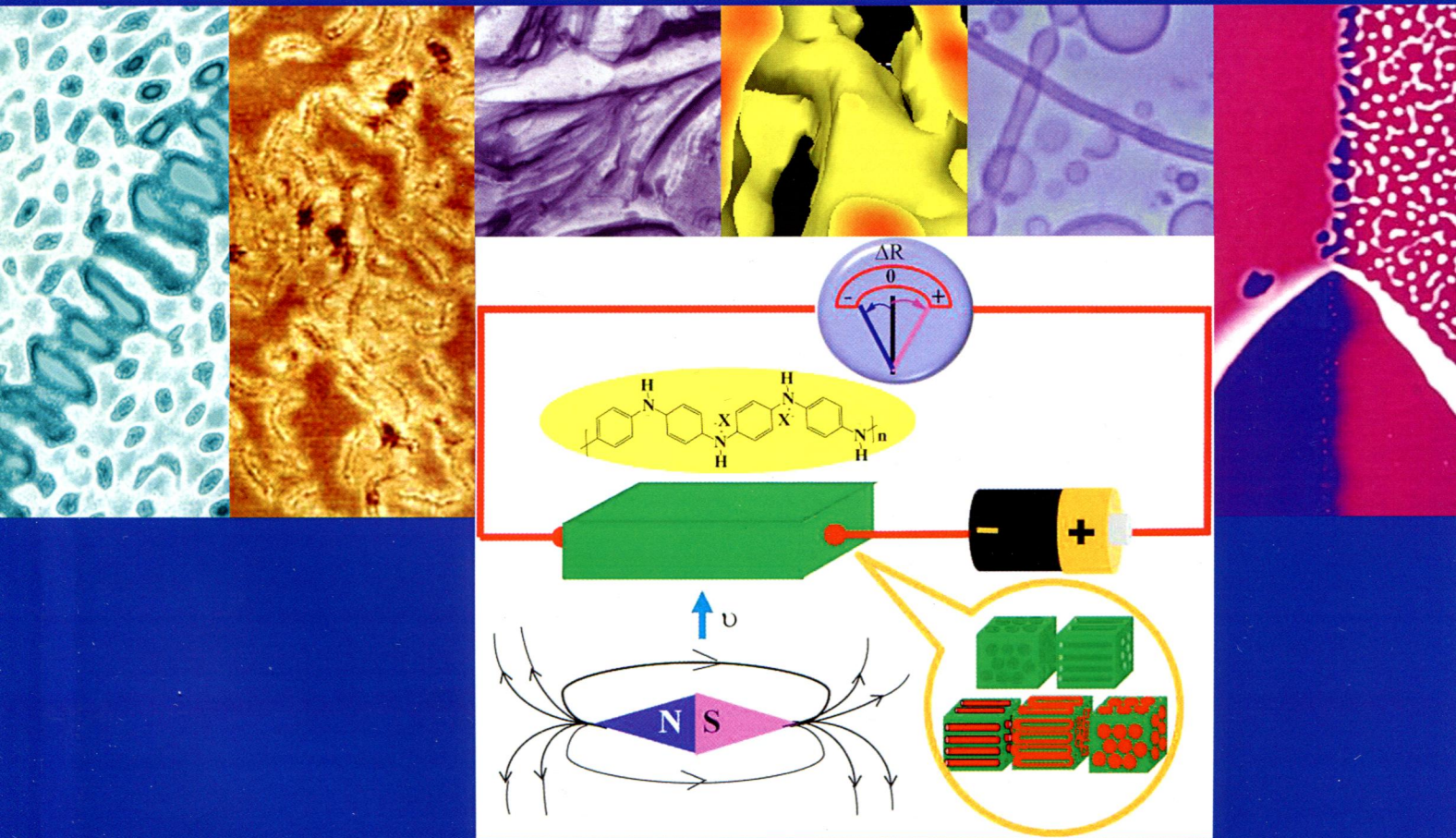
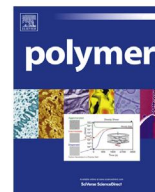


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Electrical transport and magnetoresistance in advanced polyaniline nanostructures and nanocomposites

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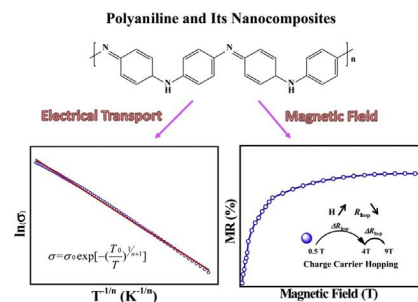
Hongbo Gu^a, Jiang Guo^a, Xingru Yan^{a,b}, Huige Wei^a, Xi Zhang^a, Jiurong Liu^c, Yudong Huang^d, Suying Wei^{a,b,**}, Zhanhu Guo^{a,*}

^a Integrated Composites Lab (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 Key Laboratory for Liquid–Solid Structural Evolution and Processing of Materials, Ministry of Education and School of Materials Science and Engineering, Shandong University, Jinan, Shandong 250061, China

^d School of Chemical Engineering and Technology, Harbin Institute of Technology, Harbin 150001, Heilongjiang, China



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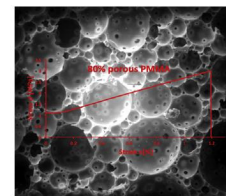
PolyHIPEs from Methyl methacrylate: Hierarchically structured microcellular polymers with exceptional mechanical properties

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Sebastjan Hus^a, Peter Krajnc^{b,*}

^a Polymer Technology College, Ozare 19, SI-2380 Slovenj Gradec, Slovenia

^b University of Maribor, Faculty of Chemistry and Chemical Engineering, PolyOrgLab, Smetanova 17, SI-2000 Maribor, Slovenia



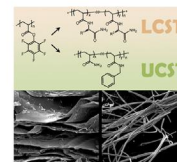
Postpolymerization synthesis of (bis)amide (co)polymers: Thermoresponsive behavior and self-association

pp 4425–4431

Yicheng Zhu, Andrew B. Lowe, Peter J. Roth*

Centre for Advanced Macromolecular Design (CAMD), School of Chemical Engineering, UNSW Australia, University of New South Wales, Kensington, Sydney, NSW 2052, Australia

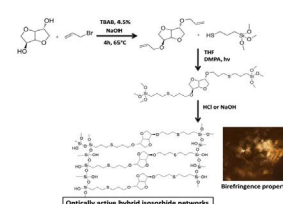
Governed by strong intra- and intermolecular hydrogen bonding between amide groups, a series of novel (bis)amide (co)polymers prepared by post-polymerization modification of an activated ester scaffold is shown to reversibly gel in water at low temperatures, display LCST or UCST behavior in water and to self-organize into large sheet-like or rod-like structures.

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C. Lorenzini, D.L. Versace*, C. Gaillet, C. Lorthioir, S. Boileau, E. Renard, V. Langlois**

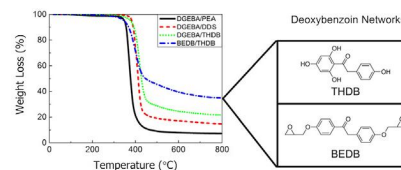
Institut de Chimie et des Matériaux Paris Est UMR 7182, CNRS – Université Paris-Est Créteil, 2-8, Rue Henri Dunant, 94320 Thiais, France

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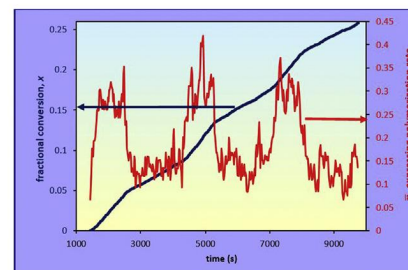
Department of Polymer Science and Engineering, University of Massachusetts, 120 Governors Drive, Amherst, MA 01003, USA

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Omar El-Hadad*, Gregory T. Russell

Department of Chemistry, University of Canterbury, Private Bag 4800, Christchurch, New Zealand

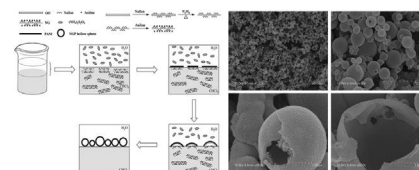


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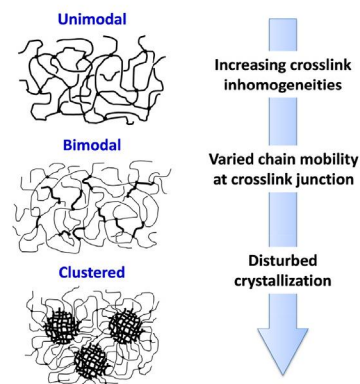
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Ruilan Guo^a, Karl I. Jacob^{b,c,*}

^a Department of Chemical and Biomolecular Engineering, University of Notre Dame, South Bend, IN 46556, USA

^b School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, GA 30332-0295, USA

^c G.W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA 30332-0295, USA

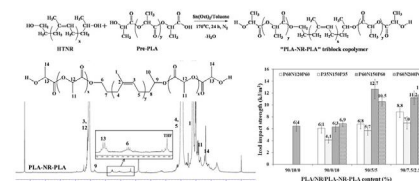
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^a Bioplastic Research Unit, Department of Materials Science and Technology, Faculty of Science, Prince of Songkla University, Songkhla 90112, Thailand

^b Institut des Molécules et Matériaux du Mans, UMR CNRS 6283, Université du Maine, 72085 Le Mans Cedex, France

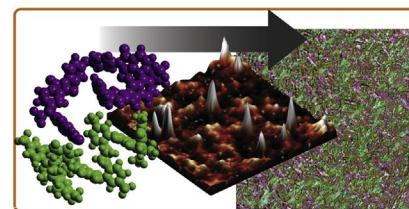
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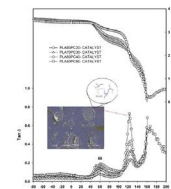
^a “Petru Poni” Institute of Macromolecular Chemistry, Aleea Grigore Ghica Voda 41A, Iasi 700487, Romania

^b Nesmeyanov Institute of Organoelement Compounds, ul. Vavilova 28, Moscow 119991, Russia



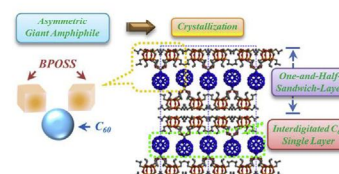
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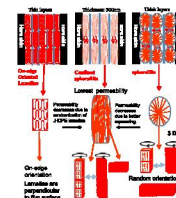
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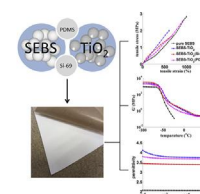
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H. Saleem^{a,*}, M. Thunga^b, M. Kolloosche^d, M.R. Kessler^e, S. Laflamme^{a,c}^aDept. of Civil, Construction, and Env. Eng., Iowa State University, Ames, IA 50011, USA^bDept. of Materials Science and Eng., Iowa State University, Ames, IA 50011, USA^cElectrical and Computer Engineering, Iowa State University, Ames, IA 50011, USA^dInstitut für Physik und Astronomie, Potsdam University, Potsdam 14469, Germany^eSchool of Mechanical and Materials Eng., Washington State University, Pullman, WA 99164, USA

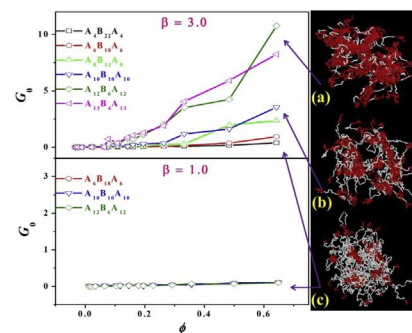
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Cui-Liu Fu^a, Xue-Zhi Jia^b, Zhao-Yan Sun^{a,*}, Li-Jia An^a

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

^bChangchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences, Changchun 130033, PR China



*Corresponding author

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