

Polymer Vol. 49, No. 25, 24 November 2008

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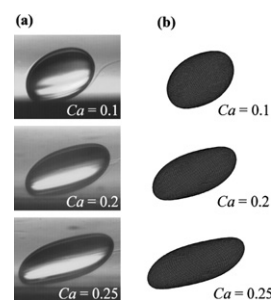
FEATURE ARTICLE

Review on morphology development of immiscible blends in confined shear flow

P. Van Puyvelde, A. Vananroye, R. Cardinaels, P. Moldenaers*

*Katholieke Universiteit Leuven, Department of Chemical Engineering,
Leuven Materials Research Centre, W. de Croylaan 46, B-3001 Leuven, Belgium*

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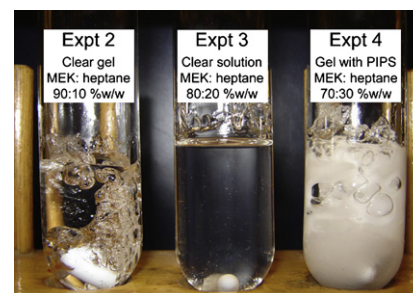
POLYMER PAPERS

Delaying the onset of macrogelation for the synthesis of branched and star-like polymers via conventional free-radical polymerisation: Binary solvent effects and incorporation of surfmers

Jing Fung Tan, Anton Blencowe, Greg G. Qiao*

Polymer Science Group, Department of Chemical and Biomolecular Engineering, The University of Melbourne, Parkville, Victoria 3010, Australia

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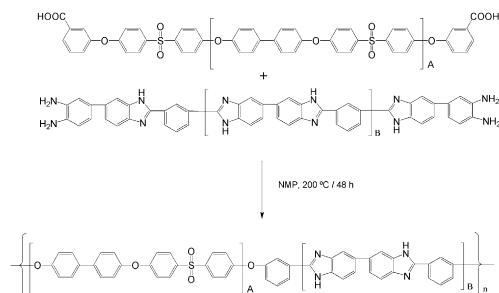


Synthesis and characterization of poly(arylene ether sulfone)-*b*-polybenzimidazole copolymers for high temperature low humidity proton exchange membrane fuel cells

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Hae-Seung Lee, Abhishek Roy, Ozma Lane, James E. McGrath*

Chemistry Department, Macromolecules and Interfaces Institute (MII), and Institute for Critical Technology and Applied Science (ICTAS), Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, United States

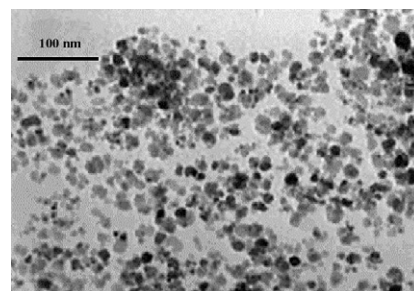


Synthesis and characterization of poly(lactide-*b*-siloxane-*b*-lactide) copolymers as magnetite nanoparticle dispersants

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R.T. Ragheb, J.S. Riffle*

Department of Chemistry and the Macromolecules and Interfaces Institute, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0344, USA



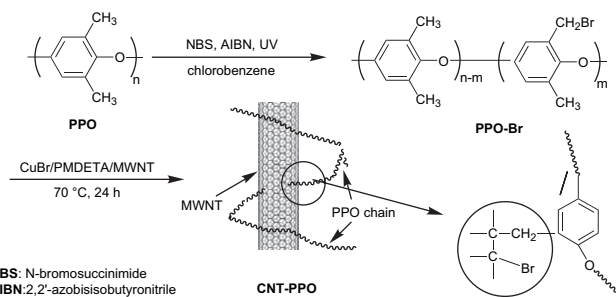
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Ying-Ling Liu^{a,*}, Yu-Hsun Chang^a, Mong Liang^b

^a Department of Chemical Engineering, R&D Center for Membrane Technology, Chung Yuan Christian University, Chungli, Taoyuan 320, Taiwan, ROC

^b Department of Applied Chemistry, National Chia-Yi University, Chiayi 600, Taiwan, ROC

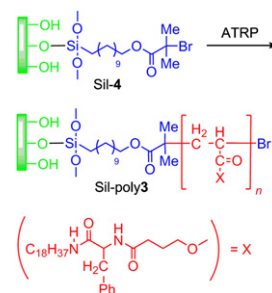


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Miklós Czaun, M. Mizanur Rahman, Makoto Takafuji, Hiroataka Ihara*

Applied Chemistry and Biochemistry, Kumamoto University, 2-39-1 Kurokami, Kumamoto 860-8555, Japan



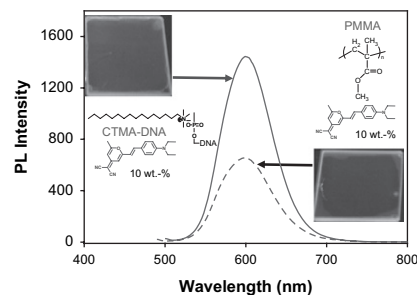
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^a Department of Chemistry, Advanced Materials Chemistry Research Center, Korea University, Seoul 136-701, South Korea

^b Department of Applied Physics, College of Electronics and Information, Kyung Hee University, Yongin 449-701, South Korea



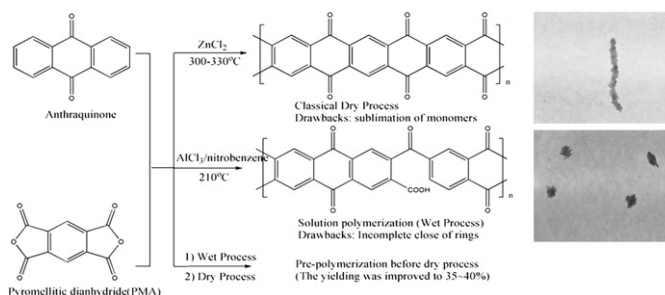
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Juan Zhang^b, Dan Zhu^{a,*}, Masaru Matsuo^{b,**}

^a College of Chemistry and Environment Science, Nanjing Normal University, Nanjing 210097, PR China

^b Graduate School of Humanities and Sciences, Nara Women's University, Nara 630-8263, Japan

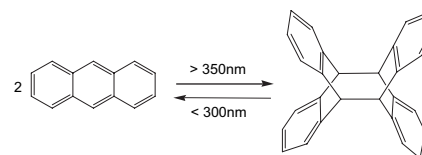


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Junwei Fu, Zhenping Cheng, Nianchen Zhou, Jian Zhu, Wei Zhang, Xiulin Zhu*

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

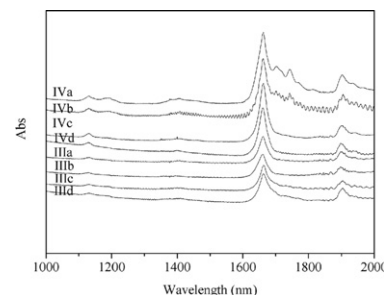


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Yu Liu, Yunhe Zhang, Shaowei Guan, Long Li, Zhenhua Jiang*

Alan G. MacDiarmid Laboratory College of Chemistry, Jilin University, Xiuzheng Road 1788, Changchun 130023, People's Republic of China

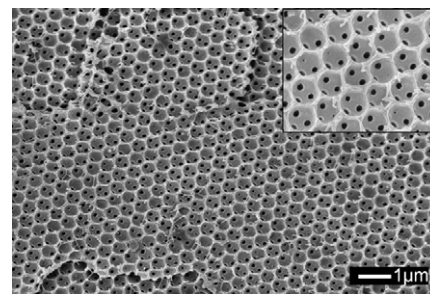


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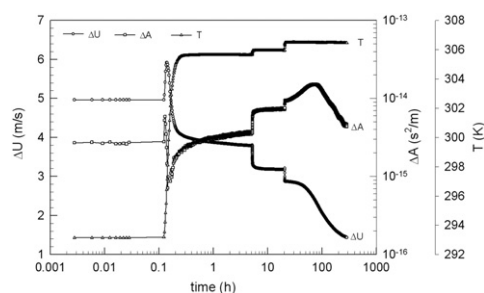
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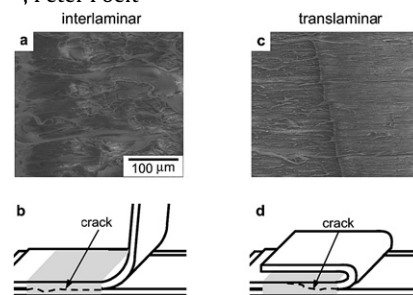
Institute of Polymer Science and Engineering, Hebei University of Technology, Tianjin 300130, China

**Transient-thermal and isothermal studies of thermo-sensitive polymer solution with ultrasound resonator technology**

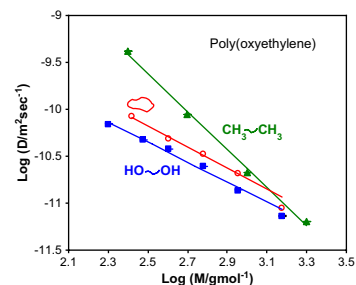
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Klaus Tauer^{a,*}, Daniel Gau^b, Susanne Schulze^b, Hugo Hernandez^a^a MPI Colloids and Interfaces, D-14476 Golm, Germany^b TF Instruments GmbH, Im Neuenheimer Feld 583, D-69120 Heidelberg, Germany**Investigation of the peel behavior of polyethylene/polybutene-1 peel films using *in situ* peel tests with environmental scanning electron microscopy**

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Michael Nase^{a,b,*}, Armin Zankel^c, Beate Langer^b, Hans Joachim Baumann^a, Wolfgang Grellmann^{b,d}, Peter Poelt^c^a Orbita-Film GmbH, D-06369 Weißandt-Görlau, Germany^b Polymer Service GmbH Merseburg, D-06217 Merseburg, Germany^c Institute for Electron Microscopy, Graz University of Technology, A-8010 Graz, Austria^d Martin Luther University Halle-Wittenberg, Center of Engineering Sciences, D-06099 Halle/Saale, Germany**Dynamics of unentangled cyclic and linear poly(oxyethylene) melts**

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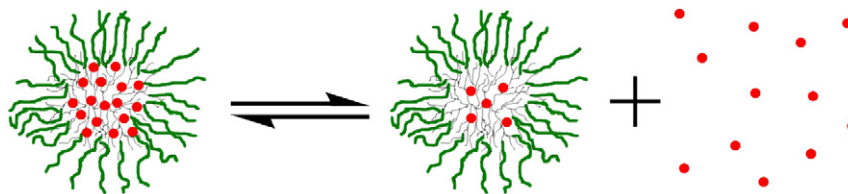
Sunghyun Nam^a, Johannes Leisen^a, Victor Breedveld^b, Haskell W. Beckham^{a,*}^a Polymer, Textile and Fiber Engineering, Georgia Institute of Technology, Atlanta, GA 30332-0295, USA^b Chemical and Biomolecular Engineering, Georgia Institute of Technology, Atlanta, GA 30332-0100, USA

Sustained release properties of arborescent polystyrene-graft-poly(2-vinylpyridine) copolymers

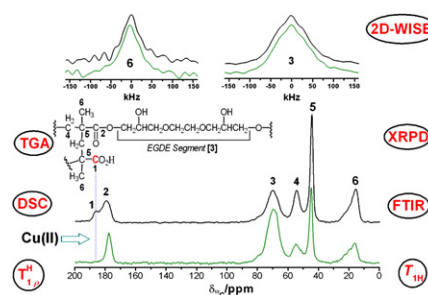
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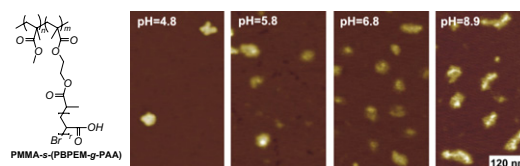
Department of Chemistry, Institute for Polymer Research, University of Waterloo, 200 University Avenue West, Waterloo, Ontario N2L 3G1, Canada

**New copper(II) complexes of polyampholyte and polyelectrolyte polymers: Solid-state NMR, FTIR, XRPD and thermal analyses**

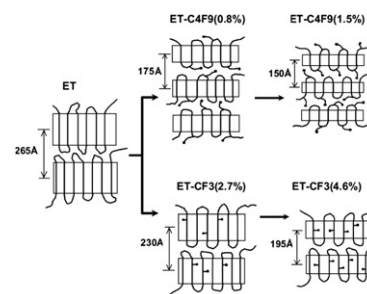
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Juan Manuel Lázaro Martínez^a, Ana Karina Chattah^{b,*}, Gustavo Alberto Monti^b, María Florencia Leal Denis^c, Graciela Yolanda Buldain^a, Viviana Campo Dall'Orto^{c,**}^a Departamento de Química Orgánica, Facultad de Farmacia y Bioquímica, Universidad de Buenos Aires, Junín 956 (C1113AAD), Ciudad Autónoma de Buenos Aires, Argentina^b Facultad de Matemática, Astronomía y Física, Universidad Nacional de Córdoba, IFFAMAF-CONICET, 5000 Córdoba, Argentina^c Departamento de Química Analítica y Fisicoquímica, Facultad de Farmacia y Bioquímica, Universidad de Buenos Aires, Junín 956 (C1113AAD), Ciudad Autónoma de Buenos Aires, Argentina**pH-induced conformational changes of loosely grafted molecular brushes containing poly(acrylic acid) side chains**

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Hyung-il Lee^a, Jamie R. Boyce^b, Alper Nese^a, Sergei S. Sheiko^b, Krzysztof Matyjaszewski^{a,*}^a Center for Macromolecular Engineering, Department of Chemistry, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213, USA^b Department of Chemistry, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3290, USA**Influence of third monomer on the crystal phase transition behavior of ethylene-tetrafluoroethylene copolymer**

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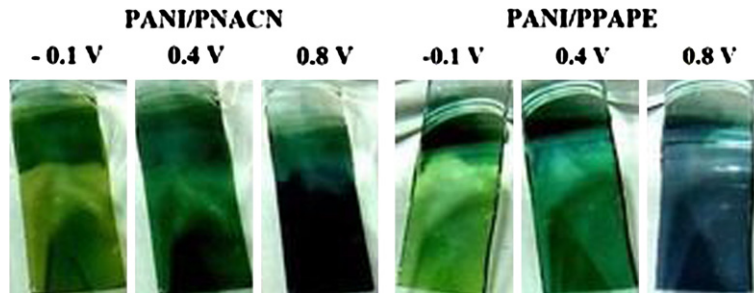
Atsushi Funaki^a, Kiyotaka Arai^a, Shigeru Aida^a, Suttinun Phongtamrug^b, Kohji Tashiro^{b,*}^a AGC Chemicals, ASAHI GLASS CO., LTD., Yokohama, Kanagawa 221-8775, Japan^b Department of Future Industry-oriented Basic Science and Materials, Toyota Technological Institute, Hisakata 2-12-1, Tempaku, Nagoya 468-8511, Japan

Sequentially adsorbed electrostatic multilayers of polyaniline and azo polyelectrolytes

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Haoyu Zhang, Xuejia Yan, Yanwei Wang, Yonghong Deng, Xiaogong Wang*

Department of Chemical Engineering, Laboratory for Advanced Materials, Tsinghua University, Beijing 100084, PR China

**Non-enzymatic and enzymatic degradation of poly(ethylene glycol)-*b*-poly(ϵ -caprolactone) diblock copolymer micelles in aqueous solution**

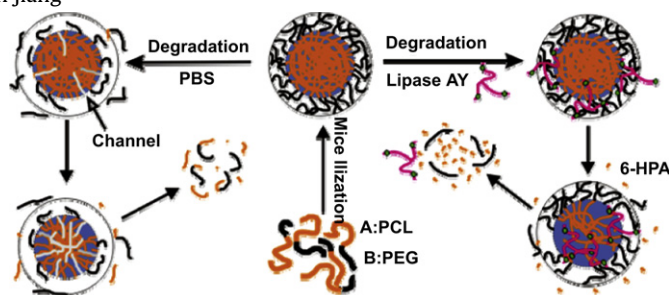
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Zhiping Jiang^a, Zhengsu Zhu^a, Chengjie Liu^a, Yong Hu^b, Wei Wu^a, Xiquan Jiang^{a, c, *}

^a Laboratory of Mesoscopic Chemistry and Department of Polymer Science and Engineering, College of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210093, PR China

^b Department of Materials Science, Nanjing University, Nanjing 210093, PR China

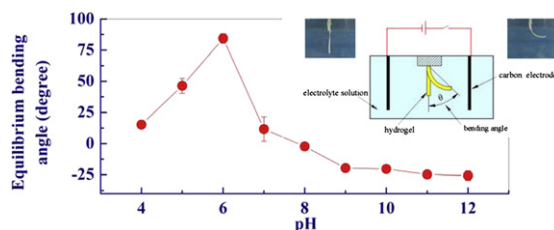
^c Jiangsu Provincial Laboratory for Nanotechnology, Nanjing University, Nanjing 210093, PR China

**Chitosan-based electroactive hydrogel**

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Jing Shang, Zhengzhong Shao, Xin Chen*

The Key Laboratory of Molecular Engineering of Polymers of MOE, Department of Macromolecular Science, Laboratory of Advanced Materials, Fudan University, Shanghai 200433, People's Republic of China

**Effect of shape and surface chemistry of TiO₂ colloidal nanocrystals on the organic vapor absorption capacity of TiO₂/PMMA composite**

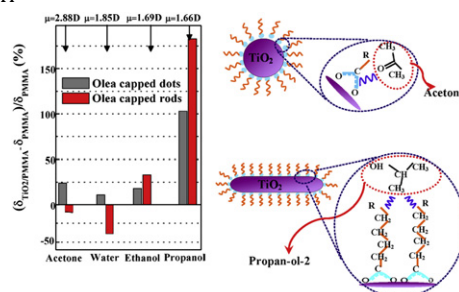
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Annalisa Convertino^{a, *}, Gabriella Leo^a, Marinella Striccoli^b, Gaetano Di Marco^c, M. Lucia Curri^b

^a Dipartimento di Progettazione Molecolare, C.N.R., Istituto per lo Studio dei Materiali Nanostrutturati, via Salaria km. 29.300, 00016 Monterotondo St., Roma, Italy

^b Dipartimento di Materiali e Dispositivi, C.N.R., Istituto per i Processi Chimici e Fisici, Bari Division via Orabona 4, 70126 Bari, Italy

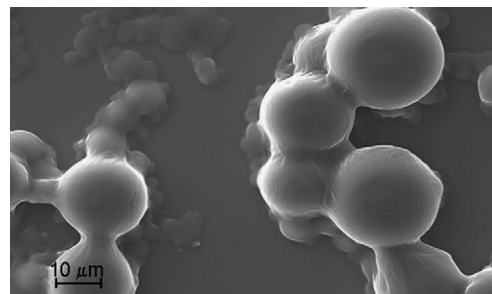
^c Dipartimento di Materiali e Dispositivi, C.N.R., Istituto per i Processi Chimici e Fisici, Messina Division, C.da Papardo, Salita Sperone, 98158 Messina, Italy



Morphology development in photopolymerization-induced phase separated mixtures of UV-curable thiol-ene adhesive and low molecular weight solvents pp 5533–5540

Andrew J. Guenther^{a,*}, David M. Hess, Jessica J. Cash

Naval Air Warfare Center, Weapons Division, China Lake, CA 93555, United States



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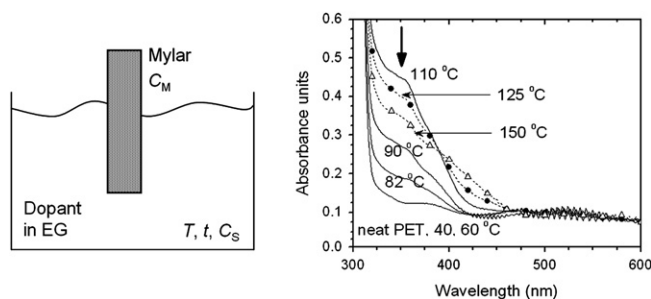
Robert J. Klein^a, Shannon M. Cole^b, Michael E. Belcher^b, John L. Schroeder^a, Phillip J. Cole^{c,**}, Joseph L. Lenhart^{a,d,*}

^a Organic Materials Department (1821), Sandia National Laboratories, Albuquerque, NM 87185, United States

^b Organic Materials Department (2453), Sandia National Laboratories, Albuquerque, NM 87185, United States

^c NNSA Satellite Programs (5732), Sandia National Laboratories, Albuquerque, NM 87185, United States

^d US Army Research Laboratory, Weapons and Materials Research Directorate, Aberdeen Proving Ground, MD 21005-5069, USA



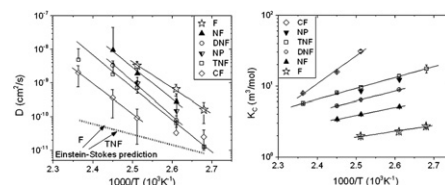
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Robert J. Klein^{a,**}, Shannon M. Cole^b, Michael E. Belcher^b, John L. Schroeder^a, Phillip J. Cole^c, Joseph L. Lenhart^{a,*}

^a Organic Materials Department (1821), Sandia National Laboratories, Albuquerque, NM 87185, USA

^b Organic Materials Department (2453), Sandia National Laboratories, Albuquerque, NM 87185, USA

^c NNSA Satellite Programs (5732), Sandia National Laboratories, Albuquerque, NM 87185, USA

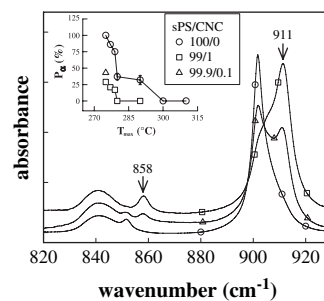


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Chi Wang^{a,*}, Chien-Lin Huang^a, Yu-Chen Chen^a, Gan-Lin Hwang^b, Shih-Jung Tsai^b

^a Department of Chemical Engineering, National Cheng Kung University, Tainan 701, Taiwan, ROC

^b Nano-Powder and Thin Film Technology Center, Industrial Technology Research Institute, Tainan 709, Taiwan, ROC



Stochastic molecular descriptors for polymers. 4. Study of complex mixtures with topological indices of mass spectra spiral and star networks: The blood proteome case pp 5575–5587

Maykel Cruz-Monteagudo^{a, b, c}, Cristian Robert Munteanu^{a, c, d}, Fernanda Borges^c,
M. Natália D.S. Cordeiro^d, Eugenio Uriarte^a, Kuo-Chen Chou^e, Humberto González-Díaz^{a, e, *}

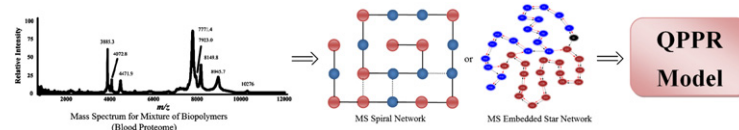
^a Unit of Bioinformatics & Connectivity Analysis (UBICA), Institute of Industrial Pharmacy, Department of Organic Chemistry, Faculty of Pharmacy, University of Santiago de Compostela, 15782 Santiago de Compostela, Spain

^b CEQA, Faculty of Chemistry and Pharmacy, UCLV, Santa Clara 54830, Cuba

^c Physico-Chemical Molecular Research Unit, Department of Organic Chemistry, Faculty of Pharmacy, 4150-047 Porto, Portugal

^d REQUIMTE/Science Faculty, Chemistry Department, University of Porto, 4169-007 Porto, Portugal

^e Gordon Life Science Institute, 13784 Torrey Del Mar Drive, San Diego, CA 92130, USA



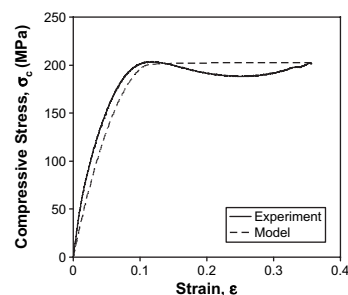
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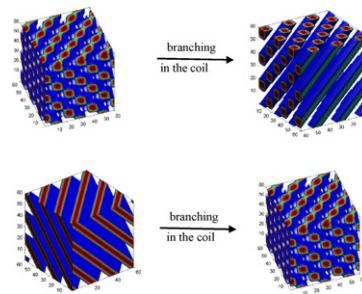
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Joel P. Foreman^a, David Porter^b, Shabnam Behzadi^a, Frank R. Jones^{a, *}

^a Department of Engineering Materials, University of Sheffield, Mappin Street, Sheffield, S1 3JD, UK

^b Department of Zoology, University of Oxford, South Parks Road, Oxford, OX1 3PS, UK



Self-assembly of rod-terminally tethered three-armed star-shaped coil block copolymer: Investigation of the presence of the branching in the coil to the self-assembled behavior pp 5596–5601Yingdong Xia^a, Zhaoyan Sun^a, Tongfei Shi^a, Jizhong Chen^{a,*}, Lijia An^{a,**}, Yuxi Jia^b^a State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, China^b School of Materials Science and Engineering, Shandong University, Jinan 250061, China

*Corresponding author

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