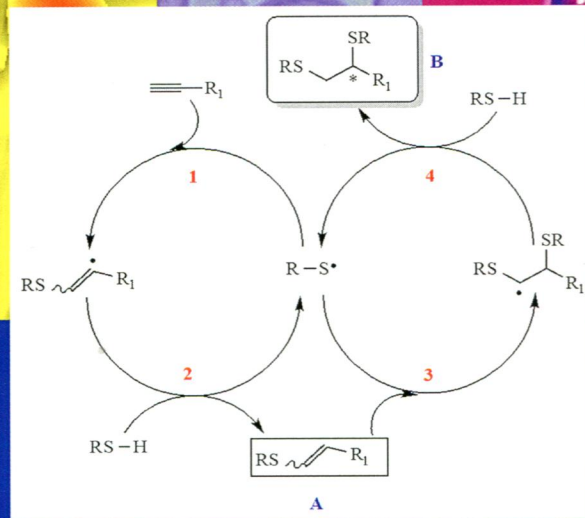


polymer



Special Issue: Shape Memory and Shape Morphing Polymers

Guest Editor

Christopher Bowman

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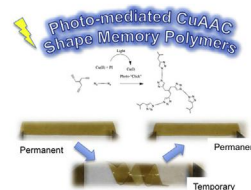
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Matthew K. McBride, Tao Gong, Devatha P. Nair, Christopher N. Bowman*

Department of Chemical and Biological Engineering, University of Colorado Boulder, UCB 596, Boulder, CO 80309, USA

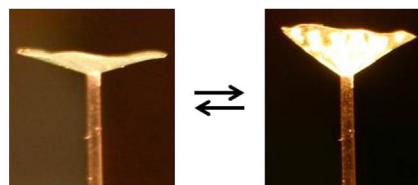


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Laurens T. de Haan, Albertus P.H.J. Schenning*, Dirk J. Broer*

Group Functional Organic Materials and Devices, Department of Chemical Engineering and Chemistry, Eindhoven University of Technology, Den Dolech 2, 5600 MB Eindhoven, The Netherlands



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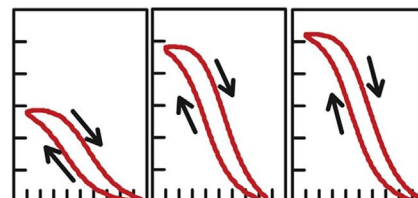
Kelly A. Burke^{a,b}, Ingrid A. Rousseau^c, Patrick T. Mather^{b,d,*}

^aDepartment of Macromolecular Science and Engineering, Case Western Reserve University, 2100 Adelbert Road, Cleveland, OH 44106, USA

^bSyracuse Biomaterials Institute, Syracuse University, 318 Bowne Hall, Syracuse, NY 13244, USA

^cGeneral Motors Research and Development, 30500 Mound Road, Warren, MI 48090, USA

^dDepartment of Biomedical and Chemical Engineering, Syracuse University, 121 Link Hall, Syracuse, NY 13244, USA



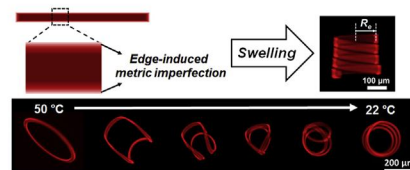
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Jinhye Bae^a, Jun-Hee Na^a, Christian D. Santangelo^{b,**}, Ryan C. Hayward^{a,*}

^aDepartment of Polymer Science and Engineering, University of Massachusetts, Amherst, MA 01003, USA

^bDepartment of Physics, University of Massachusetts, Amherst, MA 01003, USA



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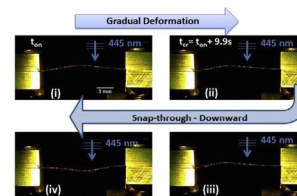
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^a Materials and Manufacturing Directorate, Air Force Research Laboratory, 3005 Hobson Way, Wright-Patterson Air Force Base, OH 45433, USA

^b Azimuth Corporation, 4134 Linden Avenue, Dayton, OH 45432, USA

^c University of Pittsburgh, Department of Industrial Engineering, 3700 O'Hara Street, Pittsburgh, PA 15261, USA

^d UES Inc., 4401 Dayton Xenia Road, Beavercreek, OH 45432, USA

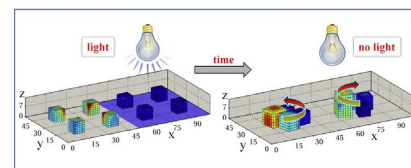


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Chemical Engineering Department, University of Pittsburgh, Pittsburgh, PA 15261, USA



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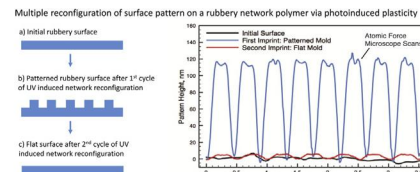
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^a Department of Mechanical Engineering, University of Colorado, Boulder, CO 80309-0427, USA

^b Material Science and Engineering Program, University of Colorado, Boulder, CO 80309-0596, USA

^c Department of Chemical and Biological Engineering, University of Colorado, Boulder, CO 80309-0596, USA

^d Department of Ophthalmology, School of Medicine, University of Colorado, Denver, CO 80045, USA



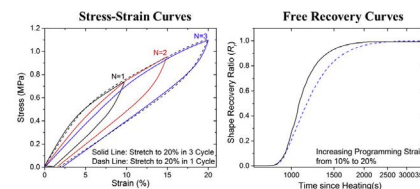
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Kai Yu^{a,b}, Qi Ge^b, H. Jerry Qi^{a,b,*}

^a The George Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA

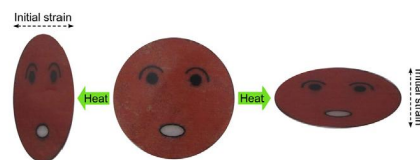
^b Department of Mechanical Engineering, University of Colorado, UCB 427, Boulder, CO 80309, USA



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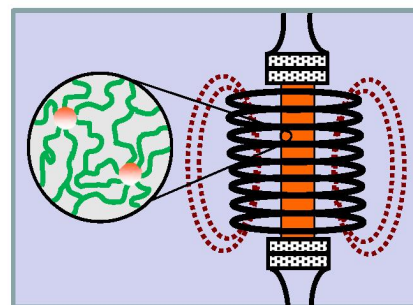
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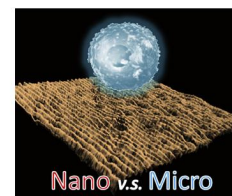
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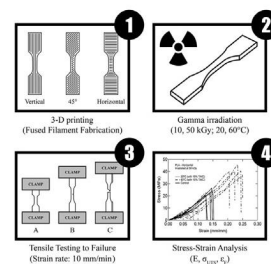
Institute of Biomaterial Science and Berlin-Brandenburg Center for Regenerative Therapies, Helmholtz-Zentrum Geesthacht, Kantstrasse 55, 14513 Teltow, Germany**Focus on the interlude between topographic transition and cell response on shape-memory surfaces**

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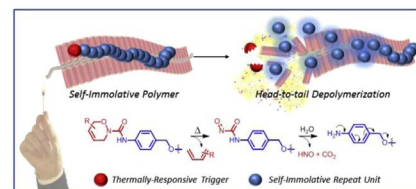
International Center for Materials Nanoarchitectonics (WPI-MANA), National Institute for Materials Science (NIMS), 1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan**On reducing anisotropy in 3D printed polymers via ionizing radiation**

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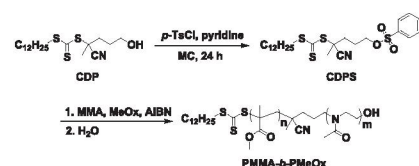
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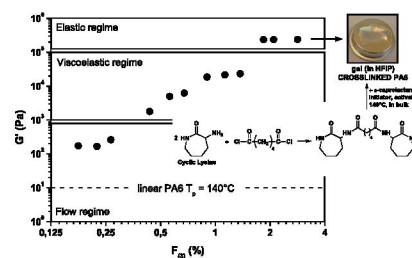
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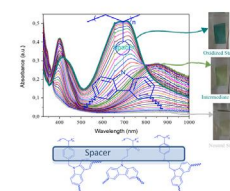
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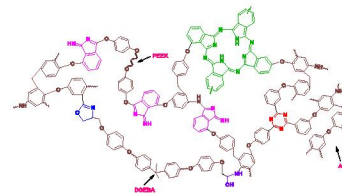
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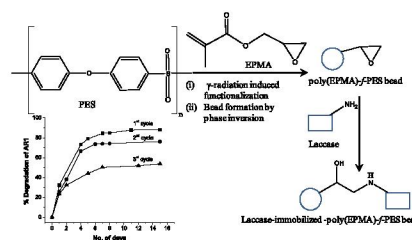
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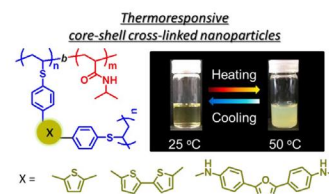
Nilanjali Misra, Virendra Kumar*, Narender Kumar Goel, Lalit Varshney

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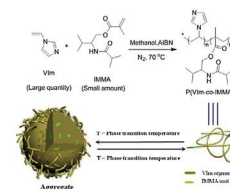
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Department of Chemistry, School of Sciences, Tianjin University, and Collaborative Innovation Center of Chemical Science and Engineering (Tianjin), Tianjin 300072, PR China

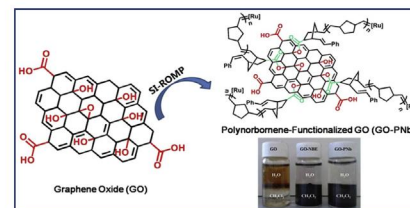


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College of Chemistry, State Key Laboratory for Supramolecular Structure and Materials, Jilin University, Changchun, Jilin 130012, PR China



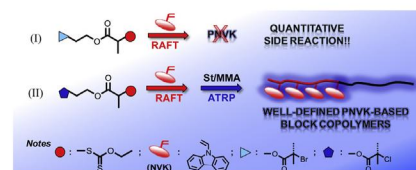
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Chih-Feng Huang^{a,*}, Ya-An Hsieh^a, Shen-Chun Hsu^a, Krzysztof Matyjaszewski^{b,*}

^a Department of Chemical Engineering, National Chung Hsing University, 250 Kuo Kuang Road, Taichung 40227, Taiwan

^b Department of Chemistry, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213, USA



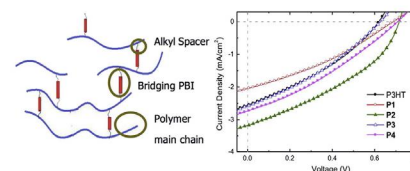
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^a Institute of Lighting and Energy Photonics, National Chiao Tung University, No. 301, Gaofa 3rd Road, Guiren Dist., Tainan 71150, Taiwan ROC

^b Department of Physics, Chung-Yuan Christian University, No. 200, Chung-Pei Road, Chung-Li 32023, Taiwan ROC



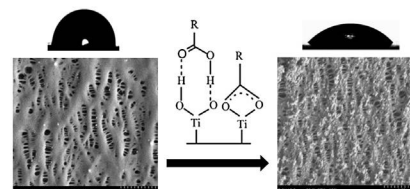
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Amir Saffar^a, Pierre J. Carreau^a, Musa R. Kamal^b, Abdellah Ajji^{a,*}

^a Research Center for High Performance Polymer and Composite Systems (CREPEC), Chemical Engineering Department, Polytechnique Montreal, PO Box 6079, Stn Centre-Ville, Montreal, Quebec H3C 3A7, Canada

^b CREPEC, Department of Chemical Engineering, McGill University, 3610 University Street, Montreal, Quebec H3A 2B2, Canada

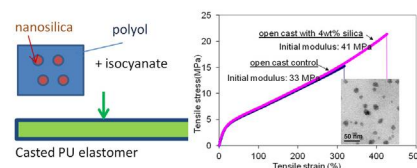


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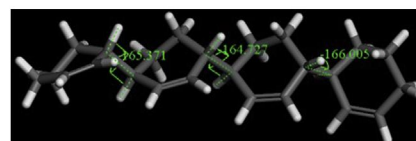
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The Dow Chemical Company, 2301 N. Brazosport Blvd, Freeport, TX 77541, USA



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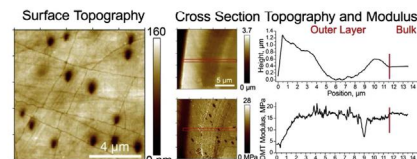
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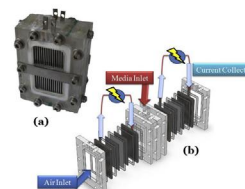
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School of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, GA 30332, United States



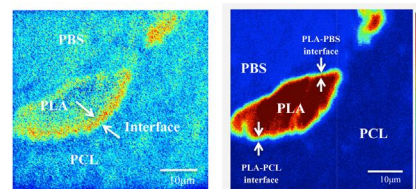
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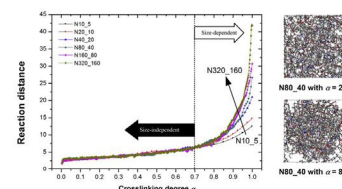
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Phase identification and interfacial transitions in ternary polymer blends by ToF-SIMS

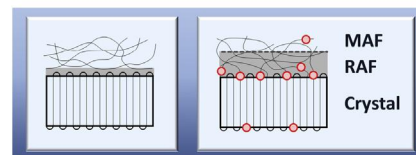
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Sepehr Ravati^a, Suzie Poulin^b, Konstantinos Piyakis^b, Basil D. Favis^{a,*}^aCREPEC, Department of Chemical Engineering, École Polytechnique de Montréal, Montréal, Québec, H3C3A7, Canada^bDepartment of Engineering Physics, École Polytechnique de Montréal, Montréal, Québec, H3C3A7, Canada**Molecular modeling of epoxide-amine systems: Topological cure conversion limit and its influence on material properties**

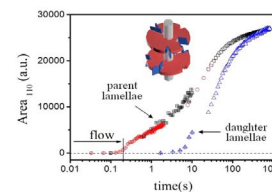
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Y. Chen^a, J.Y.H. Chia^{a,b}, Z.C. Su^a, T.E. Tay^a, V.B.C. Tan^{a,*}^aDepartment of Mechanical Engineering, National University of Singapore, Singapore 117576, Singapore^bInstitute of Materials Research and Engineering, A*STAR, Singapore 11760, Singapore**Tailoring the rigid amorphous fraction of isotactic polybutene-1 by ethylene chain defects**

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Maria Laura Di Lorenzo^{a,*}, René Androsch^{b,*}, Isabell Stolte^b^aConsiglio Nazionale delle Ricerche, Istituto per i Polimeri, Compositi e Biomateriali, c/o Comprensorio Olivetti, Via Campi Flegrei, 34, 80078 Pozzuoli, NA, Italy^bMartin-Luther-University Halle-Wittenberg, Center of Engineering Sciences, D-06099 Halle/Saale, Germany**Flow induced crystallization in isotactic polypropylene during and after flow**

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Quantitative modeling of scratch-induced deformation in amorphous polymers

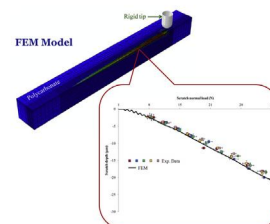
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^a Polymer Technology Center, Department of Mechanical Engineering, Texas A&M University, College Station, TX 77843-3123, USA

^b BASF SE, Ludwigshafen, Germany

^c BASF SE, Shanghai, China



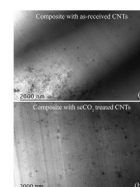
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John P. Quigley^{a,*}, Kevin Herrington^a, Donald G. Baird^{a,b,**}

^a Department of Chemical Engineering, Virginia Tech, Blacksburg, VA 24061, USA

^b Macromolecules and Interfaces Institute, Virginia Tech, Blacksburg, VA 24061, USA

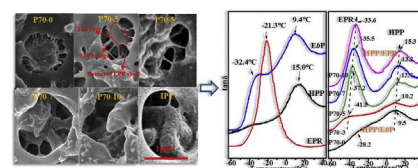


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Biwei Qiu, Feng Chen, Yu Lin, Yonggang Shangguan^{*}, Qiang Zheng^{*}

MOE Key Laboratory of Macromolecular Synthesis and Functionalization, Department of Polymer Science and Engineering, Zhejiang University, Hangzhou, 310027, People's Republic of China

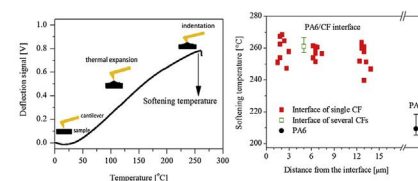


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Xinlei Yan^{*}, Yusuke Imai^{*}, Daisuke Shimamoto, Yuji Hotta

National Institute of Advanced Industrial Science and Technology (AIST), 2266-98 Anagahora, Shimo-shidami, Moriyama-ku, Nagoya, Aichi 463-8560, Japan



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