

**Polymer Vol. 50, No. 16, 31 July 2009**

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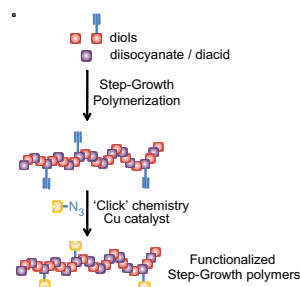
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Leen Billiet<sup>a</sup>, David Fournier<sup>b</sup>, Filip Du Prez<sup>a,\*</sup>

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**POLYMER PAPERS**

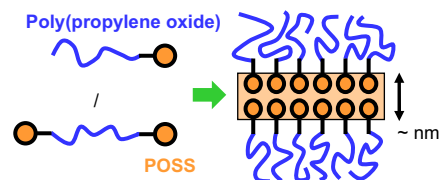
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Solo Randriamahefa<sup>a</sup>, Cédric Lorthioir<sup>a,\*</sup>, Philippe Guégan<sup>b</sup>, Jacques Penelle<sup>a</sup>

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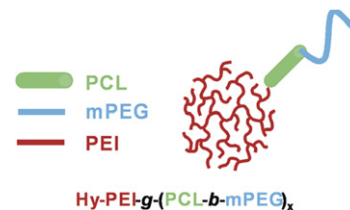


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Yu Liu, Juliane Nguyen, Terry Steele, Olivia Merkel, Thomas Kissel\*

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Ketzlerbach 63, D-35032 Marburg, Germany



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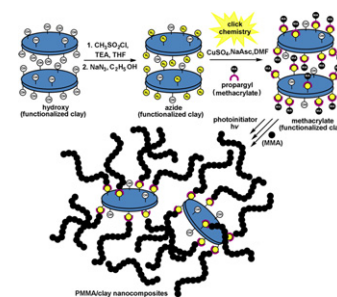
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Ayhan Oral<sup>a</sup>, Mehmet Atilla Tasdelen<sup>b</sup>, Adem Levent Demirel<sup>c</sup>, Yusuf Yagci<sup>b,\*</sup>

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<sup>c</sup> Chemistry Department, Koc University, Rumelifeneri Yolu, 34450, Sariyer,  
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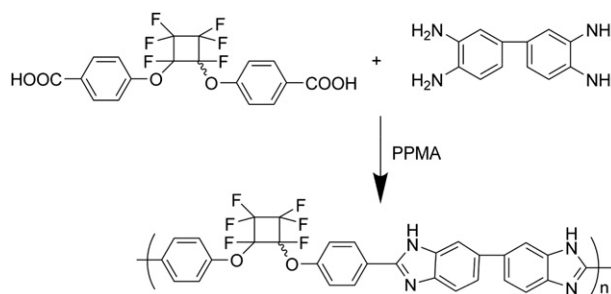
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Guoqing Qian<sup>a</sup>, Dennis W. Smith Jr.<sup>b</sup>, Brian C. Benicewicz<sup>a,\*</sup>

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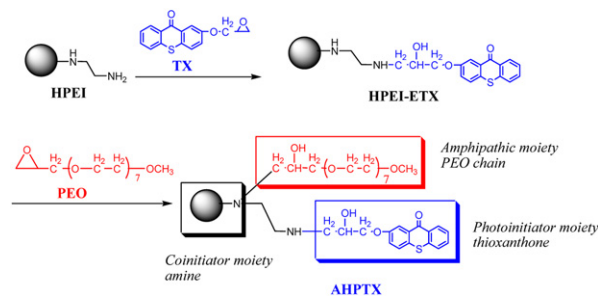


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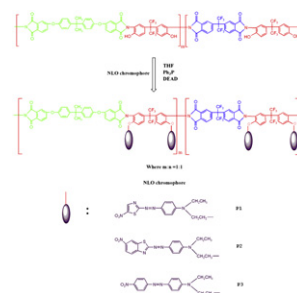
Yanna Wen, Xuesong Jiang\*, Rui Liu, Jie Yin\*

School of Chemistry & Chemical Technology, Shanghai Jiao Tong University,  
National Engineering Research Center for Nanotechnology, Shanghai 200240,  
People's Republic of China



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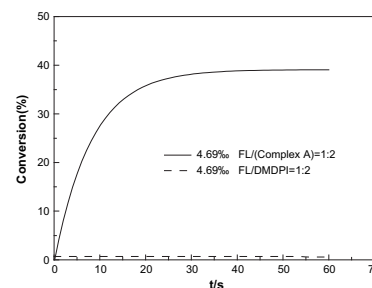
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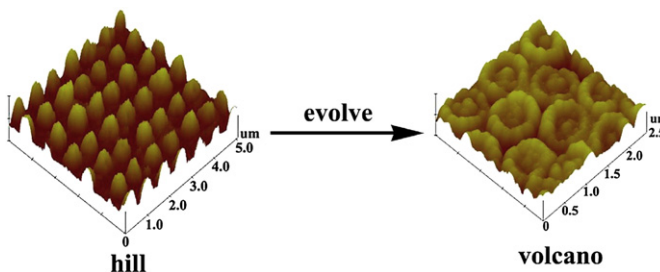
Shujing Li, Feipeng Wu<sup>\*</sup>, Erjian Wang

Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing 100080, PR China



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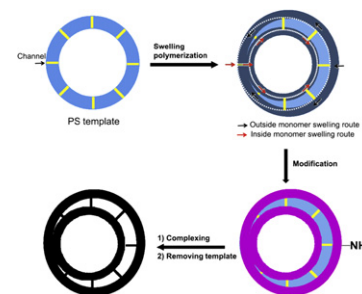
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Jianjun Li, Shujiang Ding, Chengliang Zhang<sup>\*</sup>, Zhenzhong Yang<sup>\*</sup>

State Key Laboratory of Polymer Physics and Chemistry, Beijing National Laboratory of Molecular Science, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

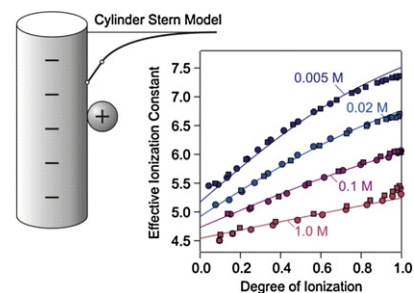


**Influence of alkali metal counterions on the charging behavior of poly(acrylic acid)**

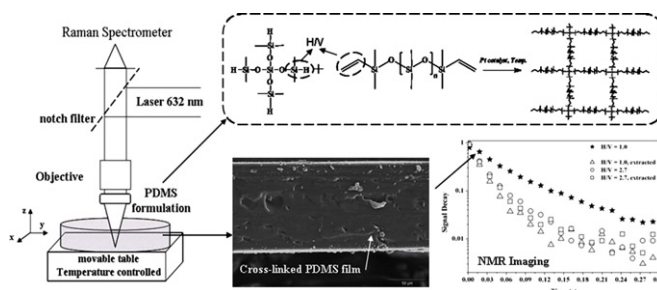
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Amin Sadeghpour, Andrea Vaccaro, Samuel Rentsch, Michal Borkovec\*

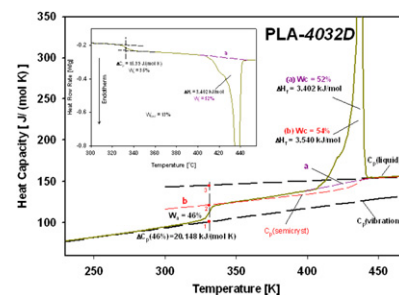
Department of Inorganic, Analytical, and Applied Chemistry, University of Geneva, Sciences II, 30, Quai Ernest-Ansermet, CH-1211 Geneva 4, Switzerland

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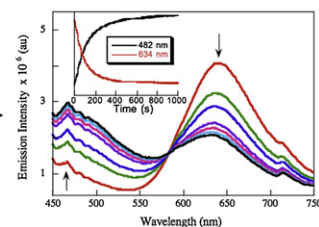
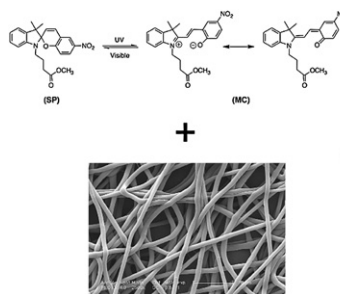
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A.C.C. Esteves<sup>a,\*</sup>, J. Brokken-Zijp<sup>a</sup>, J. Laven<sup>a</sup>, H.P. Huinink<sup>b</sup>, N.J.W. Reuvers<sup>b</sup>, M.P. Van<sup>a</sup>, G. de With<sup>a</sup><sup>a</sup> Department of Chemical Engineering and Chemistry, Eindhoven University of Technology, PO Box 513, 5600 MB Eindhoven, The Netherlands<sup>b</sup> Department of Applied Physics, Eindhoven University of Technology, PO Box 513, 5600 MB Eindhoven, The Netherlands**Study of crystalline and amorphous phases of biodegradable poly(lactic acid) by advanced thermal analysis**

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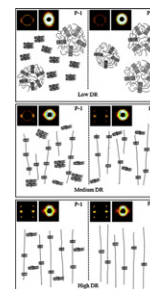
Mao Wang<sup>a</sup>, Sean A. Vail<sup>b</sup>, Amy E. Keirstead<sup>b,c</sup>, Manuel Marquez<sup>d,e,f</sup>, Devens Gust<sup>b</sup>, Antonio A. Garcia<sup>d,\*</sup><sup>a</sup> Center for Research and Technology, Philip Morris USA, Richmond, VA 23219, USA<sup>b</sup> Department of Chemistry and Biochemistry, Arizona State University, Tempe, AZ 85287, USA<sup>c</sup> Department of Chemistry and Physics, University of New England, Biddeford, ME 04005, USA<sup>d</sup> Harrington Department of Bioengineering, Arizona State University, Tempe, AZ 85287, USA<sup>e</sup> Center for Integrated Nanotechnologies, Los Alamos National Laboratory, Los Alamos, NM 87545, USA<sup>f</sup> YNANO LLC, Midlothian, VA 23113, USA

**Structure and properties of MDO stretched polypropylene**

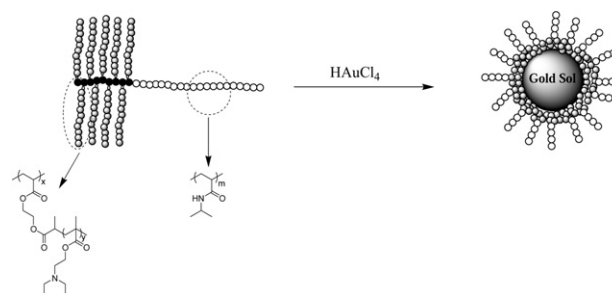
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Seyed H. Tabatabaei, Pierre J. Carreau\*, Abdellah Ajji

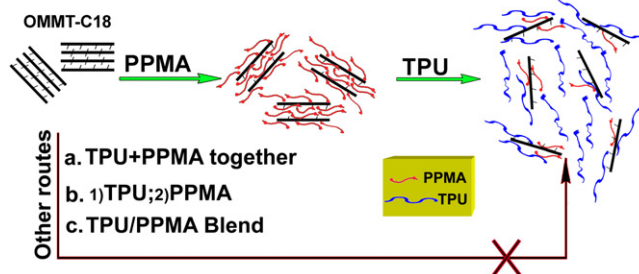
CREPEC, Chemical Engineering Department, Ecole Polytechnique, C.P. 6079, Succ. Centre ville, Montreal, QC, H3C 3A7 Canada

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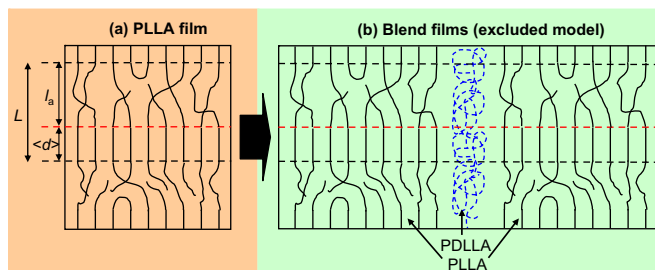
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Chun Feng<sup>a</sup>, Lina Gu<sup>a</sup>, Dong Yang<sup>b</sup>, Jianhua Hu<sup>b,\*\*</sup>, Guolin Lu<sup>a</sup>, Xiaoyu Huang<sup>a,\*</sup><sup>a</sup> Key Laboratory of Organofluorine Chemistry and Laboratory of Polymer Materials, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 345 Lingling Road, Shanghai 200032, PR China<sup>b</sup> Key Laboratory of Molecular Engineering of Polymers (Ministry of Education), Laboratory of Advanced Materials and Department of Macromolecular Science, Fudan University, 220 Handan Road, Shanghai 200433, PR China**A strategy of fabricating exfoliated thermoplastic polyurethane/clay nanocomposites via introducing maleated polypropylene**

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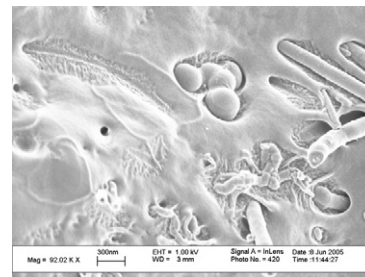
Leevameng Bouapao<sup>a</sup>, Hideto Tsuji<sup>a,\*</sup>, Kohji Tashiro<sup>b</sup>, Jianming Zhang<sup>b,c</sup>, Makoto Hanesaka<sup>b</sup><sup>a</sup> Department of Ecological Engineering, Faculty of Engineering, Toyohashi University of Technology, Tempaku-cho, Toyohashi, Aichi 441-8580, Japan<sup>b</sup> Department of Future Industry-oriented Basic Science and Materials, Graduate School of Engineering, Toyota Technological Institute, Hisakata, Tempaku, Nagoya 468-8577, Japan<sup>c</sup> Key Laboratory of Rubber-plastics, Ministry of Education, Qingdao University of Science and Technology, Qingdao city 266042, People's Republic of China

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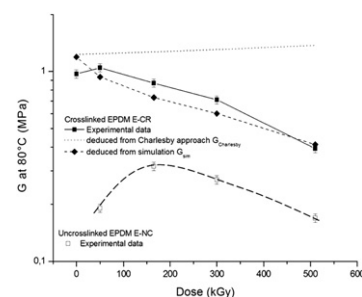
Richard J. Foster, Peter J. Hine, Ian M. Ward\*

Polymer and Complex Fluids Group, School of Physics and Astronomy, University of Leeds, Leeds, LS2 9JT, UK



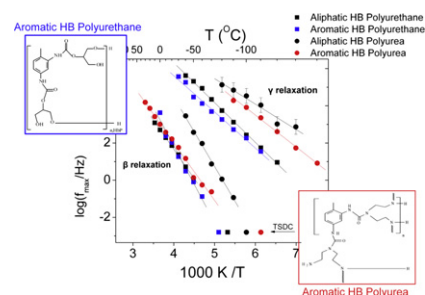
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Emilie Planes<sup>a,b</sup>, Laurent Chazeau<sup>a,\*</sup>, Gérard Vigier<sup>a</sup>, Jérôme Fournier<sup>b</sup><sup>a</sup> Université de Lyon, INSA-Lyon, MATEIS, UMR CNRS 5510, 7, avenue Jean Capelle, 69621 Villeurbanne, France<sup>b</sup> NEXANS Research Center, 170 Avenue Jean Jaurès, F-69353 Lyon Cedex 07, France

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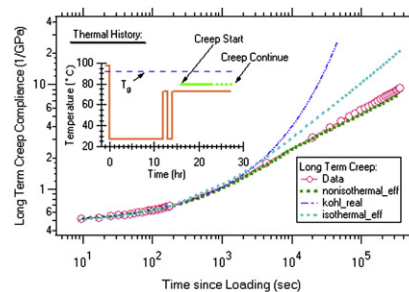
A. Kyritsis<sup>a,\*</sup>, K. Raftopoulos<sup>a</sup>, M. Abdel Rehim<sup>b</sup>, Sh. Said Shabaan<sup>c</sup>, A. Ghoneim<sup>c</sup>, G. Turky<sup>c</sup><sup>a</sup> Department of Physics, National Technical University of Athens, Heroon Polytechniou 9, Athens 15780, Greece<sup>b</sup> Packing and Packaging Materials Department, National Research Centre, Cairo, Egypt<sup>c</sup> Microwave Physics and Dielectrics Department, National Research Centre, Cairo, Egypt

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Yunlong Guo, Roger D. Bradshaw\*

Department of Mechanical Engineering, J. B. Speed School of Engineering, University of Louisville, Louisville, KY 40292, USA

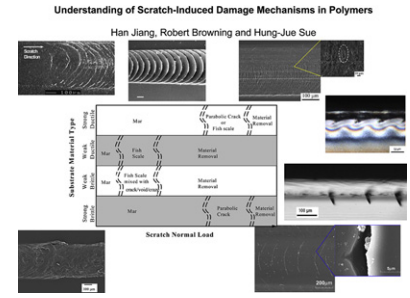


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Han Jiang, Robert Browning, Hung-Jue Sue\*

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



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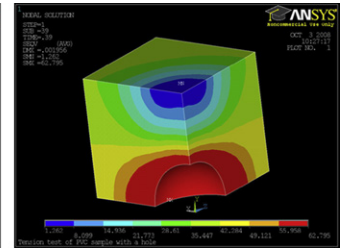
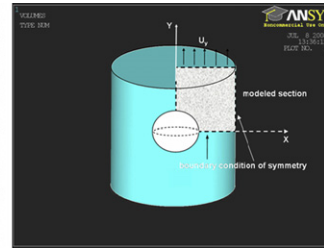
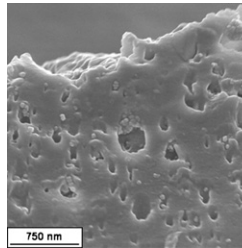
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I. Kemal<sup>a, b</sup>, A. Whittle<sup>c</sup>, R. Burford<sup>b</sup>, T. Vodenitcharova<sup>a</sup>, M. Hoffman<sup>a, \*</sup>

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<sup>c</sup> IPLEX Pipelines Australia Pty Ltd., 35 Alfred Road, Chipping Norton, NSW 2170, Australia



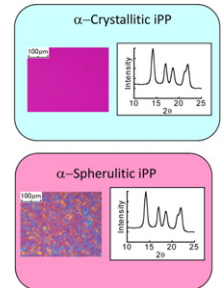
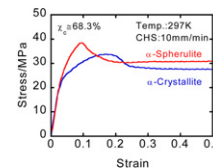
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Koh-hei Nitta<sup>a, \*</sup>, Kazunari Odaka<sup>b</sup>

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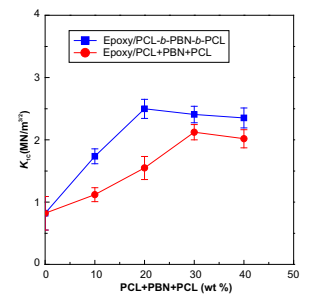
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Xingtian Yang<sup>a</sup>, Fangping Yi<sup>a</sup>, Zhirong Xin<sup>b</sup>, Sixun Zheng<sup>a, \*</sup>

<sup>a</sup> Department of Polymer Science and Engineering and State Key of Laboratory of Metal Matrix Composites, Shanghai Jiao Tong University, Shanghai 200240, PR China

<sup>b</sup> College of Chemistry and Biology, Yantai University, Shandong 264005, PR China



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Zhiyong Jiang<sup>a</sup>, Yujing Tang<sup>a</sup>, Jens Rieger<sup>b</sup>, Hans-Friedrich Enderle<sup>c</sup>, Dieter Lilge<sup>c</sup>, Stephan V. Roth<sup>d</sup>, Rainer Gehrke<sup>d</sup>, Zhonghua Wu<sup>e</sup>, Zhihong Li<sup>e</sup>, Yongfeng Men<sup>a,\*</sup>

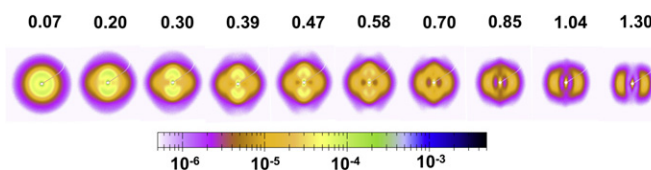
<sup>a</sup> State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Graduate School of Chinese Academy of Sciences, Renmin Street 5625, 130022 Changchun, PR China

<sup>b</sup> BASF SE, Polymer Physics, 67056 Ludwigshafen, Germany

<sup>c</sup> Basell Polyolefine GmbH, R&D, 65926 Frankfurt, Germany

<sup>d</sup> HASYLAB am DESY, Notkestr. 85, 22607 Hamburg, Germany

<sup>e</sup> Beijing Synchrotron Radiation Facility, Institute of High Energy Physics, Chinese Academy of Sciences, Beijing 100039, PR China



### Electrically conductive and super-tough polyamide-based nanocomposites

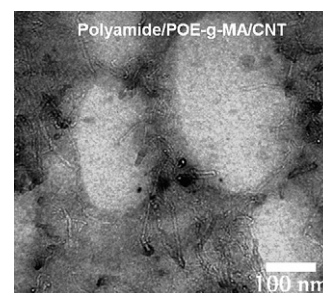
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Aravind Dasari<sup>a,b</sup>, Zhong-Zhen Yu<sup>c,\*</sup>, Yiu-Wing Mai<sup>a</sup>

<sup>a</sup> Centre for Advanced Materials Technology (CAMT), School of Aerospace, Mechanical and Mechatronic Engineering J07, The University of Sydney, Sydney, NSW 2006, Australia

<sup>b</sup> Madrid Institute for Advanced Studies of Materials (IMDEA-Materials), C/Profesor Aranguren s/n, 28040 Madrid, Spain

<sup>c</sup> Beijing Key Laboratory on Preparation and Processing of Novel Polymeric Materials, Department of Polymer Engineering, College of Materials Science and Engineering, Beijing University of Chemical Technology, 15 Beisanhuan East Road, Beijing 100029, China



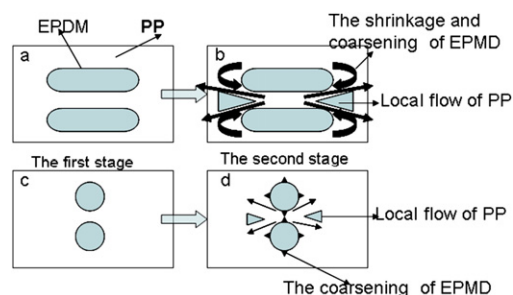
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Xue-Gang Tang<sup>a</sup>, Wei Yang<sup>b,\*</sup>, Rui-Ying Bao<sup>b</sup>, Gui-Fang Shan<sup>b</sup>, Bang-Hu Xie<sup>b</sup>, Ming-Bo Yang<sup>b</sup>, Meng Hou<sup>a,\*\*</sup>

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<sup>b</sup> College of Polymer Science and Engineering, Sichuan University, State Key Laboratory of Polymer Materials Engineering, Chengdu, 610065 Sichuan, China



### Fabrication and characterization of poly(L-lactic acid) 3D nanofibrous scaffolds with controlled architecture by liquid–liquid phase separation from a ternary polymer–solvent system

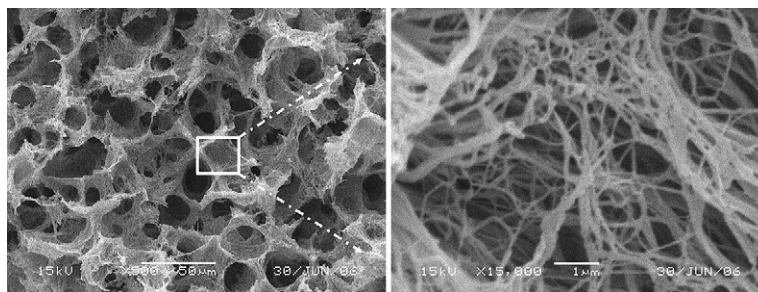
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Liumin He<sup>a,c</sup>, Yanqing Zhang<sup>b</sup>, Xiang Zeng<sup>b</sup>, Daping Quan<sup>a,\*</sup>, Susan Liao<sup>c</sup>, Yuanshan Zeng<sup>b</sup>, Jiang Lu<sup>a</sup>, S. Ramakrishna<sup>c</sup>

<sup>a</sup> Institute of Polymer Science, School of Chemistry and Chemical Engineering, BME Center, State Key Laboratory of Optoelectronic Materials and Technologies, Sun Yat-sen University, 135 XinGang Xi Road, Guangzhou 510275, China

<sup>b</sup> Department of Histology and Embryology, Zhongshan School of Medicine, Sun Yat-sen University, Guangzhou 510080, China

<sup>c</sup> Nanoscience and Nanotechnology Initiative, Division of Bioengineering, National University of Singapore, 9 Engineering Drive 1, Singapore 117576, Singapore





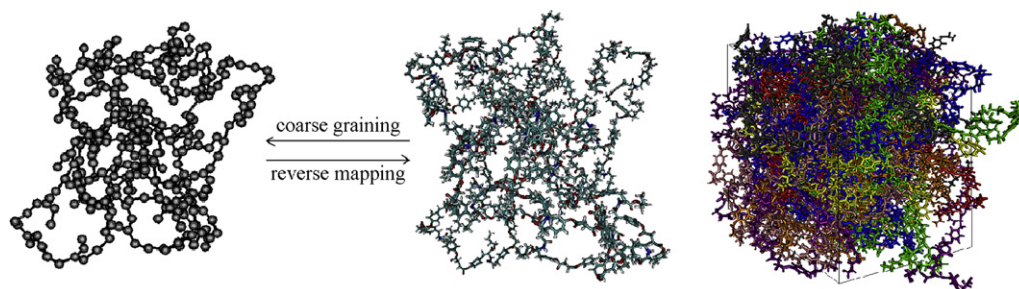
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**A systematic procedure to build a relaxed dense-phase atomistic representation of a complex amorphous polymer using a coarse-grained modeling approach**

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Xianfeng Li, Robert A. Latour\*

Department of Bioengineering,  
Clemson University, Clemson,  
SC 29634, USA



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