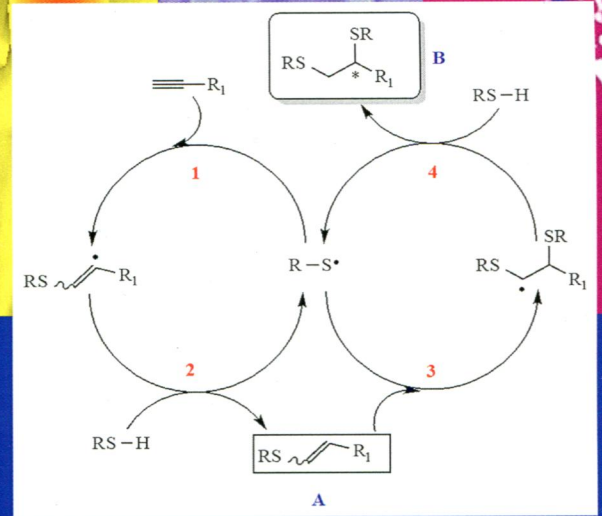
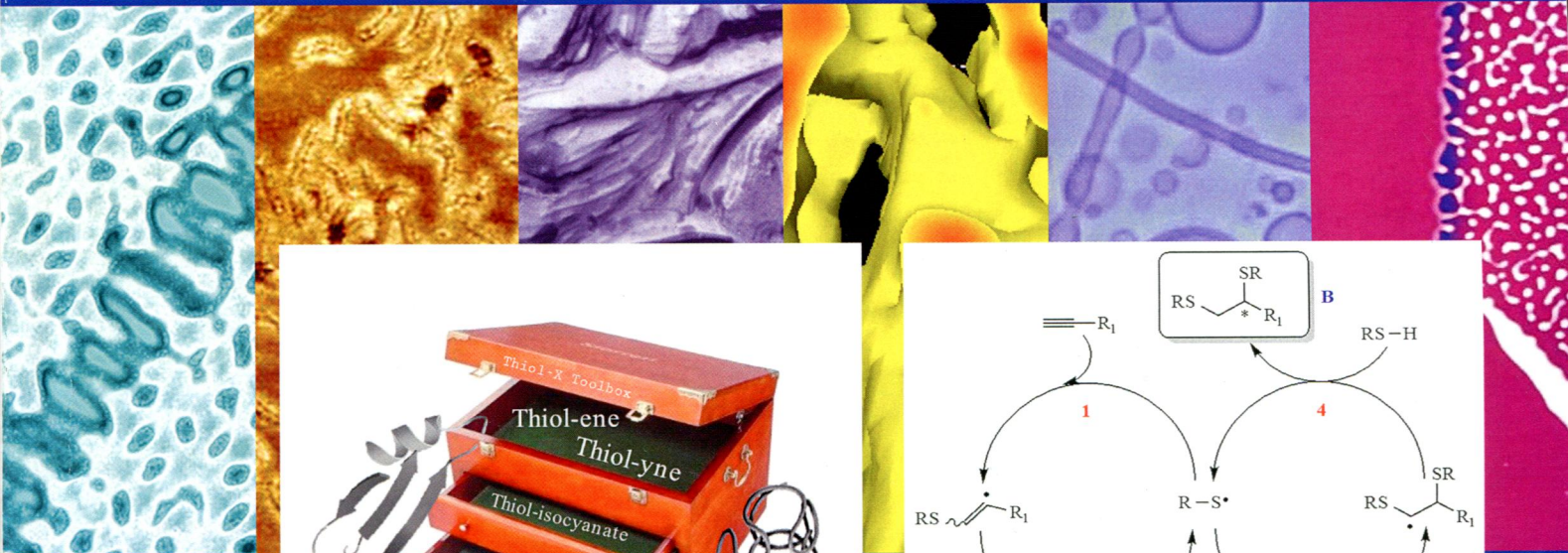


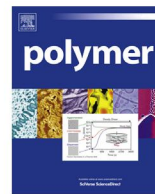
# polymer



Special Issue: Thiol-X Chemistry in Polymer Science  
*Guest Editor*  
 Helmut Schlaad

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Helmut Schlaad

*University of Potsdam, Institute of Chemistry, Karl-Liebknecht-Str. 24-25, 14476 Potsdam, Germany*

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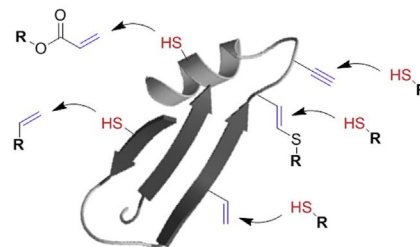
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<sup>a</sup> *Max Planck Institute of Colloids and Interfaces, Department of Colloid Chemistry, Research Campus Golm, 14424 Potsdam, Germany*

<sup>b</sup> *University of Potsdam, Institute of Chemistry, Karl-Liebknecht-Straße 24-25, 14476 Potsdam, Germany*

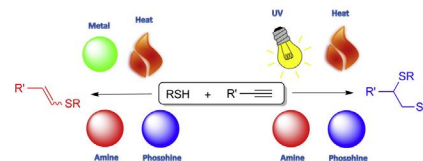


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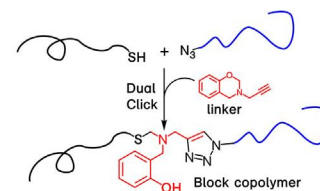
*School of Chemical Engineering, Centre for Advanced Macromolecular Design, UNSW Australia, University of New South Wales, Kensington, Sydney, NSW 2052, Australia*



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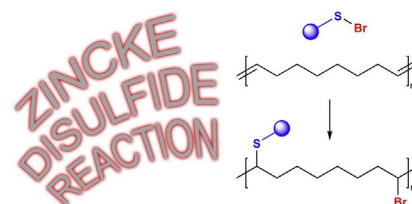
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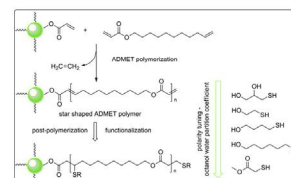
Institut Charles Gerhardt, Montpellier, UMR CNRS 5253, Equipe Ingénierie et Architectures Macromoléculaires, Ecole Nationale Supérieure de Chimie de Montpellier, 8 rue de l'école normale, 34296 Montpellier Cedex 5, France

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Karlsruhe Institute of Technology (KIT), Institute of Organic Chemistry, Laboratory of Applied Chemistry, Fritz-Haber-Weg 6, Building 30.42, D-76131 Karlsruhe, Germany



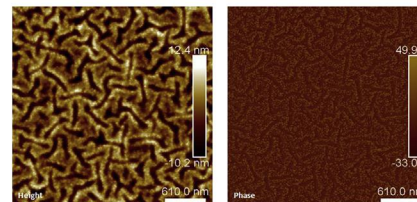
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<sup>a</sup>Rubber Technology Centre, Indian Institute of Technology, 721302 Kharagpur, India

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<sup>c</sup>Technische Universität Dresden, Chemie und Lebensmittelchemie, 01062 Dresden, Germany



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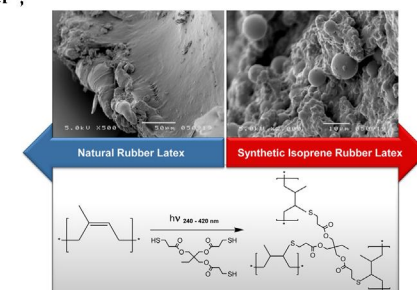
<sup>a</sup>Polymer Competence Center Leoben GmbH, Roseggerstraße 12, A-8700 Leoben, Austria

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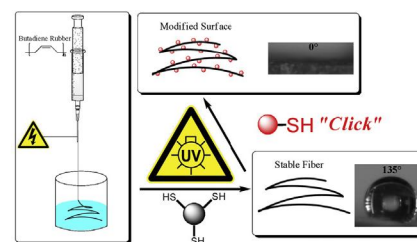


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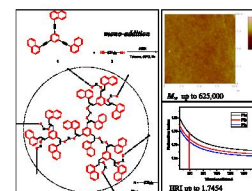


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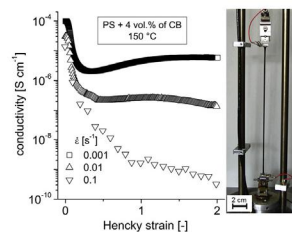
<sup>b</sup>Chair of Organic Chemistry of Polymers and Center for Advancing Electronics Dresden (cfaed), Technische Universität Dresden, 01062 Dresden, Germany



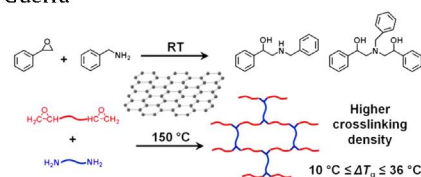
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Institute of Polymer Materials, Friedrich-Alexander-University Erlangen-Nuremberg, Martensstr. 7,  
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<sup>a</sup>Dipartimento di Chimica e Biologia e Unità di Ricerca INSTM, Università di Salerno, Fisciano, SA, Italy

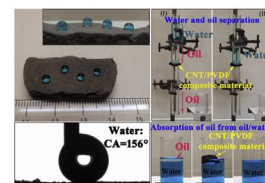
<sup>b</sup>Dipartimento di Ingegneria dell'Innovazione, Università del Salento, Lecce, Italy

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<sup>a</sup>Centre for Advanced Microscopy, Australian National University, Canberra, ACT 0200, Australia

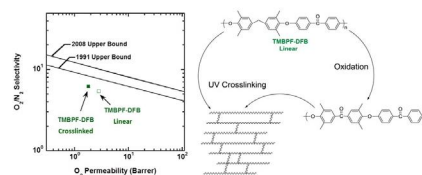
<sup>b</sup>Research School of Chemistry, Australian National University, Canberra, ACT 0200, Australia

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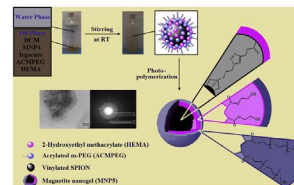
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<sup>b</sup>Department of Chemical Engineering, Center for Energy and Environmental Resources, The University of Texas at Austin, Austin, TX 78758, USA


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Sepideh Khoei\*, Nastaran Abedini

Polymer Laboratory, Chemistry Department, School of Science, University of Tehran, P.O. Box 14155-6455, Tehran, Iran

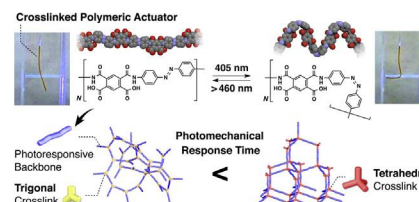


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Daichi Kusano, Ryota Ohshima, Nobuhiko Hosono\*, Kenro Totani, Toshiyuki Watanabe\*\*

Department of Applied Chemistry, Graduate School of Engineering, Tokyo University of Agriculture and Technology, 2-24-16, Naka-cho, Koganei-shi, Tokyo 184-8588, Japan

Photochemical reaction in azobenzene-containing rigid poly(amide acid) networks.

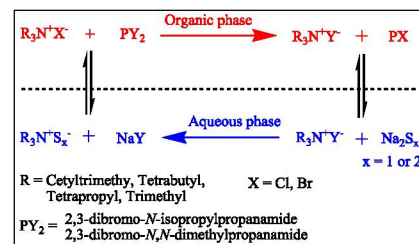


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<sup>a</sup> Polymer Research Centre, Department of Chemical Sciences, Indian Institute of Science Education and Research Kolkata, Mohanpur 741246 Nadia, West Bengal, India

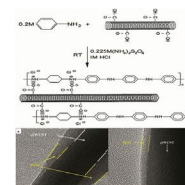
<sup>b</sup> Department of Chemistry and Biochemistry, St. Cloud State University, St. Cloud, MN 56301, USA



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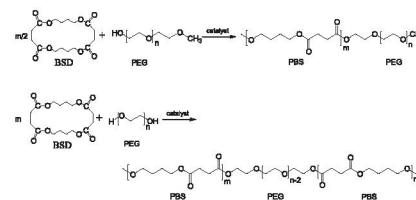
T. David, Jyotsna Kiran Mathad, T. Padmavathi, A. Vanaja\*

Center for Societal Missions and Special Technologies, National Aerospace Laboratories, Old Airport Road, Kodihalli, Bangalore 560017, India



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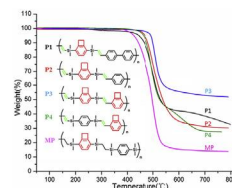
Chan Woo Lee<sup>a</sup>, Kazunari Masutani<sup>b</sup>, Yoshiharu Kimura<sup>b,\*</sup><sup>a</sup>Department of Innovative Industrial Technology, Hoseo University, Asan, Chungnam 336-851, South Korea<sup>b</sup>Department of Biobased Materials Science, Kyoto Institute of Technology, Matsugasaki, Sakyo-ku, Kyoto 606-8585, Japan

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Ke Cao, Lu Yang, Yawen Huang\*, Guanjun Chang, Junxiao Yang\*

State Key Laboratory Cultivation Base for Nonmetal Composite and Functional Materials, Southwest University of Science and Technology, Mianyang 621010, People's Republic of China

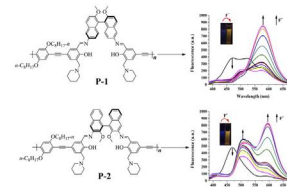


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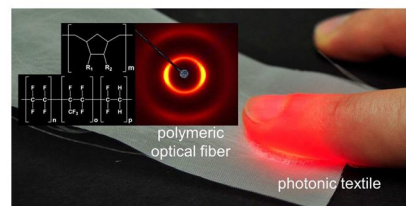
Fei Li, Guo Wei, Yuan Sheng, Yiwu Quan, Yixiang Cheng\*, Chengjian Zhu\*

Key Lab of Mesoscopic Chemistry of MOE, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210093, China



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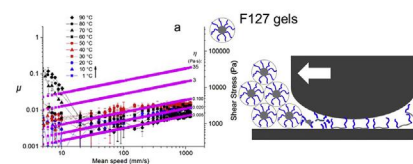
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<sup>a</sup> Department of Mechanical Engineering, Technical University of Denmark, DK-2800, Kgs. Lyngby, Denmark  
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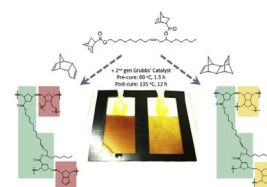


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<sup>a</sup> Department of Materials Science and Engineering, Iowa State University, Ames, USA  
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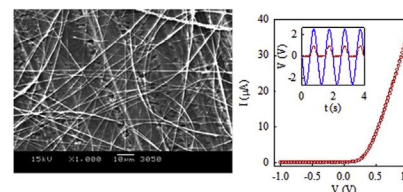


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William Serrano, Anamaris Meléndez, Idalia Ramos, Nicholas J. Pinto<sup>\*</sup>

Department of Physics and Electronics, University of Puerto Rico at Humacao, Humacao, PR 00792, USA

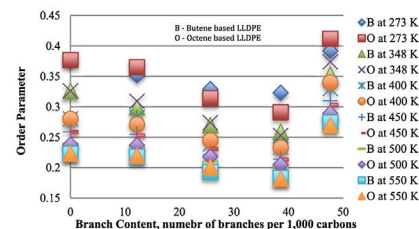


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Phillip Choi<sup>a,\*</sup>, Qinyan Wang<sup>b</sup>, Eric Vignola<sup>b</sup>

<sup>a</sup> Department of Chemical and Materials Engineering, University of Alberta, Edmonton, Alberta T6G 2V4, Canada  
<sup>b</sup> NOVA Chemicals Research and Technology Center, 2928 – 16th Street NE, Calgary, Alberta T2E 7K7, Canada



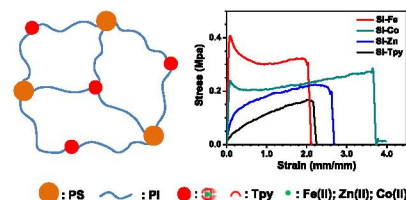


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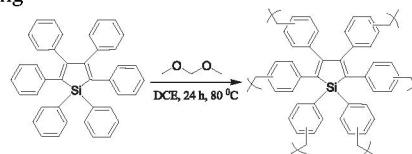
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Haixia Li, Wei Wei, Huiming Xiong\*

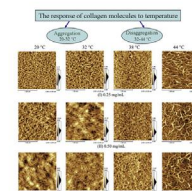
Department of Polymer Science, School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University, Shanghai 200240, PR China

**Hypercrosslinked microporous organic polymer networks derived from silole-containing building blocks**

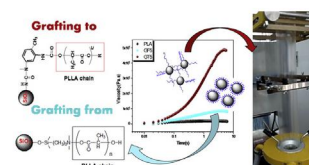
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Yinghua Zhang<sup>a</sup>, Yuda Li<sup>b</sup>, Feng Wang<sup>b,\*</sup>, Yang Zhao<sup>a</sup>, Chong Zhang<sup>a</sup>, Xiaoyan Wang<sup>a</sup>, Jia-Xing Jiang<sup>a,\*</sup><sup>a</sup>School of Materials Science and Engineering, Shaanxi Normal University, Xi'an, Shaanxi 710062, PR China<sup>b</sup>Key Laboratory for Green Chemical Process of Ministry of Education, Wuhan Institute of Technology, Wuhan 430073, PR China**The response of collagen molecules in acid solution to temperature**

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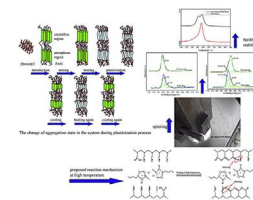
Feng Wu<sup>a</sup>, Bao Zhang<sup>b</sup>, Wei Yang<sup>a</sup>, Zhengying Liu<sup>a,\*</sup>, Mingbo Yang<sup>a,\*</sup><sup>a</sup>College of Polymer Science and Engineering, State Key Laboratory of Polymer Materials Engineering, Sichuan University, Chengdu 610065, Sichuan, People's Republic of China<sup>b</sup>Key Laboratory of Polymer Ecomaterials, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, Jilin, People's Republic of China

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Xiang Li, Aiwen Qin, Xinzhen Zhao, Bomuo Ma, Chunju He\*

State Key Lab for Modification of Chemical Fibers and Polymer Materials, College of Material Science & Engineering, Donghua University, Shanghai 201620 PR China

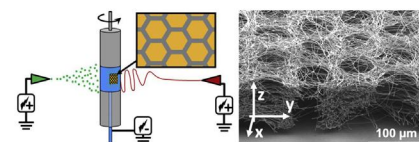


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Corinne R. Wittmer, Anne Hébraud, Salima Nedjari, Guy Schlatter\*

Institut de Chimie et Procédés pour l’Energie, l’Environnement et la Santé, ICPEES UMR 7515, Université de Strasbourg, Ecole Européenne de Chimie, Polymères et Matériaux, CNRS, 25 rue Becquerel, 67087 Strasbourg Cedex 2, France



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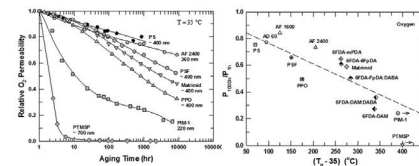
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Rajkiran R. Tiwari<sup>a</sup>, Zachary P. Smith<sup>a</sup>, Haiqing Lin<sup>b,c</sup>, B.D. Freeman<sup>a</sup>, D.R. Paul<sup>a,\*</sup>

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**The crucial role of cadmium acetate-induced conformational restriction in microscopic structure and stability of polystyrene-block-polyvinyl pyridine thin films**

pp 5801–5810

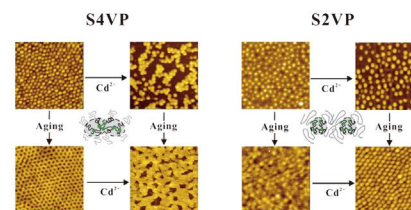
Feifei Xue<sup>a</sup>, Hongfei Li<sup>b,\*</sup>, Jichun You<sup>c</sup>, Conghua Lu<sup>a</sup>, Günter Reiter<sup>d</sup>, Shichun Jiang<sup>a,\*</sup>

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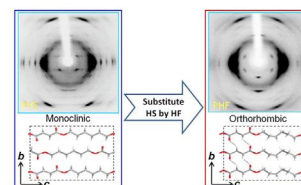
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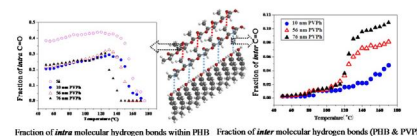
### Aliphatic copolyester with isomorphism in limited composition range

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Hai-Mu Ye<sup>a,b,\*</sup>, Yi-Ren Tang<sup>c</sup>, Yun-Yang Song<sup>b</sup>, Jun Xu<sup>c</sup>, Bao-Hua Guo<sup>c,\*\*</sup>, Qiong Zhou<sup>b</sup><sup>a</sup> State Key Laboratory of Heavy Oil, China University of Petroleum, Beijing 102249, China<sup>b</sup> Department of Material Science and Engineering, College of Science, China University of Petroleum, Beijing 102249, China<sup>c</sup> Department of Chemical Engineering, Tsinghua University, Beijing 100084, China

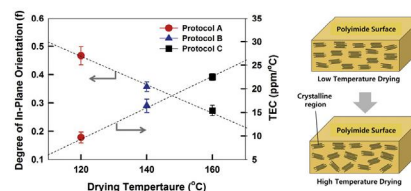
### The effect of poly(vinyl phenol) sublayer on the crystallization and melting behavior of poly(3-hydroxybutyrate) via hydrogen bonds

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Jiandong Zhou<sup>a</sup>, Hongyi Gan<sup>a</sup>, Zhongjie Ren<sup>a</sup>, Huihui Li<sup>a</sup>, Jianming Zhang<sup>b</sup>, Xiaoli Sun<sup>a,\*</sup>, Shouke Yan<sup>a,\*</sup><sup>a</sup> State Key Laboratory of Chemical Resource Engineering, Beijing University of Chemical Technology, Beijing 100029, China<sup>b</sup> Key Laboratory of Rubber-plastics, Ministry of Education, Qingdao University of Science and Technology, Qingdao City 266042, China

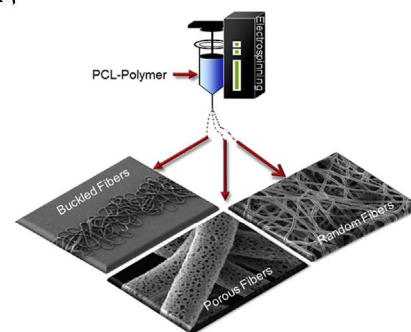
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Byoung Wook Jo<sup>a,b</sup>, Kyung Hyun Ahn<sup>a,\*</sup>, Seung Jong Lee<sup>a</sup><sup>a</sup> School of Chemical and Biological Engineering, Institute of Chemical Process, Seoul National University, Seoul 151-744, Republic of Korea<sup>b</sup> SK Innovation Global Technology, Ltd., Daejeon 305-712, Republic of Korea

### Novel and simple methodology to fabricate porous and buckled fibrous structures for biomedical applications

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Ashang Luwang Laiva<sup>a,b</sup>, Jayarama Reddy Venugopal<sup>a,\*</sup>, Sreepathy Sridhar<sup>a</sup>, Bhargavi Rangarajan<sup>a</sup>, Balchandar Navaneethan<sup>a</sup>, Seeram Ramakrishna<sup>a</sup><sup>a</sup> Center for Nanofibers and Nanotechnology, Nanoscience and Nanotechnology Initiative, Faculty of Engineering, National University of Singapore, Singapore<sup>b</sup> Amity Institute of Nanotechnology, Amity University, Noida, UP, India

## Enhanced oxygen barrier property of poly(ethylene oxide) films crystallite-oriented by adding cellulose single nanofibers

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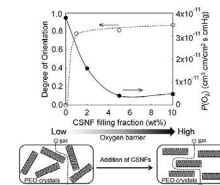
Miki Noda Fukuya<sup>a,b,c,\*</sup>, Kazunobu Senoo<sup>a,\*\*</sup>, Masaru Kotera<sup>d,\*\*\*</sup>, Mamoru Yoshimoto<sup>b</sup>, Osami Sakata<sup>b,c</sup>

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