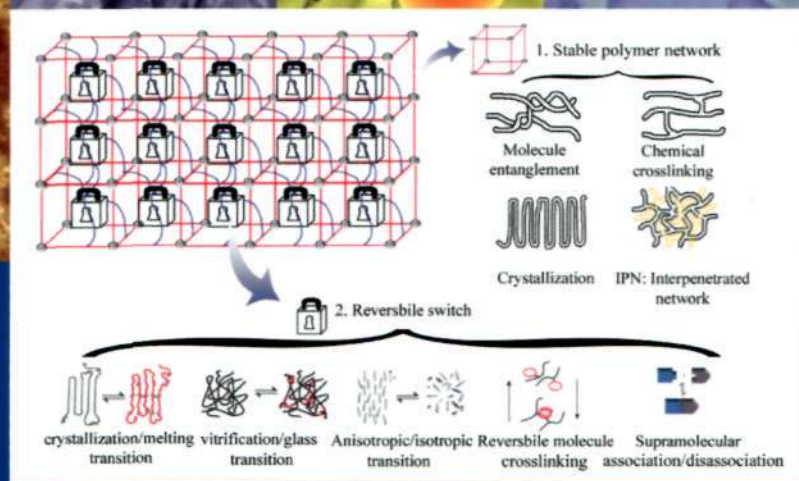
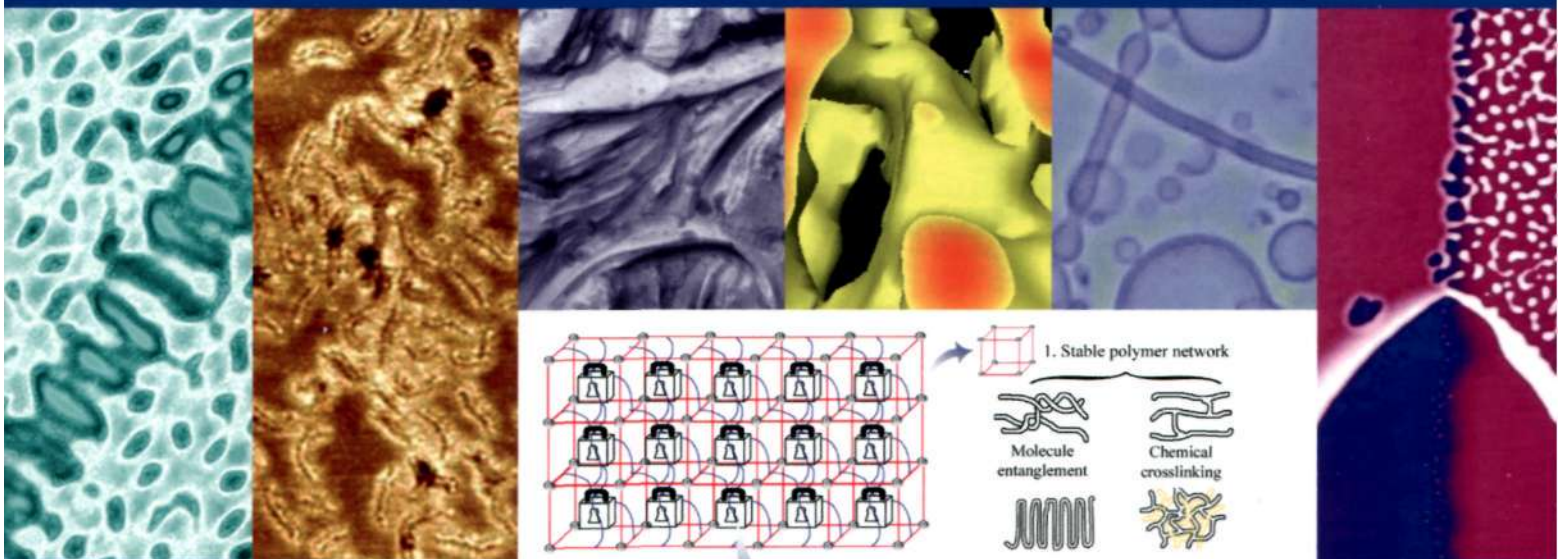


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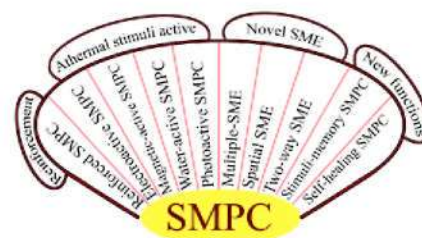
A review of stimuli-responsive shape memory polymer composites

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Harper Meng^{a,b}, Guoqiang Li^{a,b,*}

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POLYMER COMMUNICATIONS

New organophilic mixed matrix membranes derived from a polymer of intrinsic microporosity and silicalite-1

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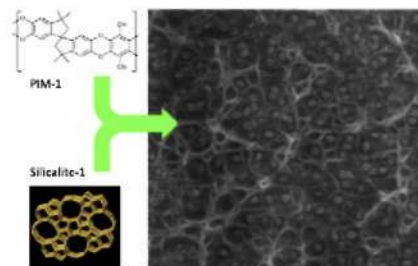
Christopher R. Mason^a, Maria Giovanna Buonomenna^{b,*}, Giovanni Golemme^{b,*}, Peter M. Budd^{a,*}, Francesco Galiano^c, Alberto Figoli^c, Karel Friess^d, Vladimír Hynek^d

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^c Institute on Membrane Technology (ITM-CNR), Via Pietro Bucci 17C, 87036 Rende, Italy

^d Department of Physical Chemistry, Institute of Chemical Technology, Technická 5, Prague 166 28, Czech Republic



Excellent oxygen permselectivity of fluorine-containing poly(trimethylsilyldiphenylacetylene)s prepared by direct alkylation of perfluorodecyl groups in membrane state

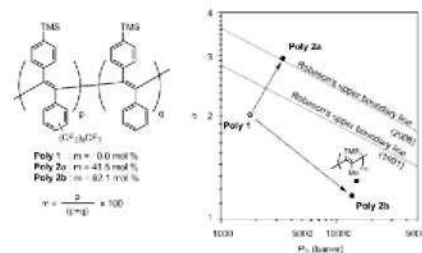
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Takashi Sato^a, Naoki Yoshida^b, Akihiro Ishida^b, Masahiro Teraguchi^{b,c}, Toshiki Aoki^{b,c,*}, Takashi Kaneko^{b,c}

^aTsukuba Research Laboratory, Sumitomo Chemical Co. Ltd., Kitahara 6, Tsukuba 300-3294, Japan

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^cCenter for Transdisciplinary Research, Niigata University, Ikarashi 2-8050, Niigata 950-2181, Japan



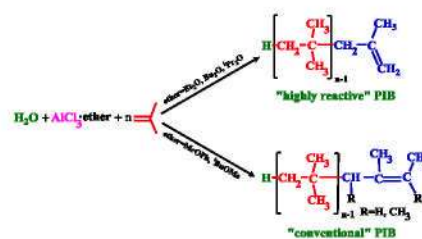
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Cationic polymerization of isobutylene by AlCl₃/ether complexes in non-polar solvents: Effect of ether structure on the selectivity of β-H elimination

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Dmitriy I. Shiman, Irina V. Vasilenko, Sergei V. Kostjuk*

Research Institute for Physical Chemical Problems of the Belarusian State University, 14 Leningradskaya St., 220030 Minsk, Belarus



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Tugba Kaya Deniz^a, Ayda Goycek Nurioglu^b, Naime Akbasoglu Unlu^b, Merve Sendur^b, Levent Toppare^{a,b,c,d}, Ali Cirpan^{a,b,c,e,*}

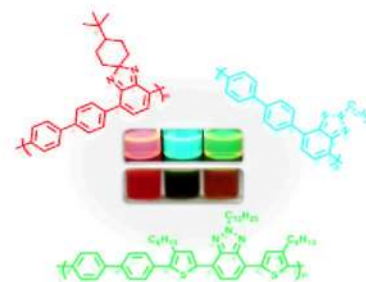
^aDepartment of Polymer Science and Technology, Middle East Technical University, 06800 Ankara, Turkey

^bDepartment of Chemistry, Middle East Technical University, 06800 Ankara, Turkey

^cThe Center for Solar Energy Research and Application (GÜNAM), Middle East Technical University, 06800 Ankara, Turkey

^dDepartment of Biotechnology, Middle East Technical University, 06800 Ankara, Turkey

^eDepartment of Micro and Nanotechnology, Middle East Technical University, 06800 Ankara, Turkey



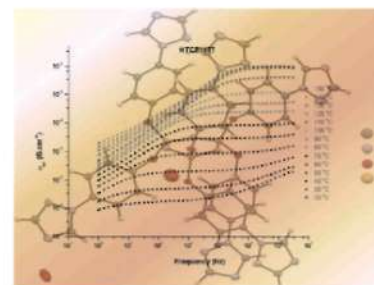
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Hüsniye Ardiç Alidağı^a, Özlem Meydan Gırgıç^a, Yunus Zorlu^a, Ferda Hacivelioglu^{a,*}, Sevim Ünügür Çelik^b, Ayhan Bozkurt^b, Adem Kılıç^a, Serkan Yesilot^{a,**}

^aGebze Institute of Technology, Department of Chemistry, Turkey

^bFatih University, Department of Chemistry, Turkey

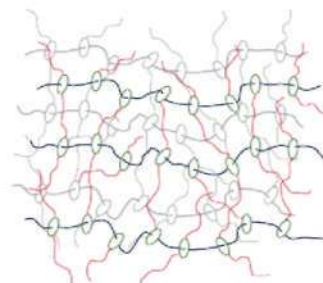


Orthogonal polymer networks that contain dynamic nodes

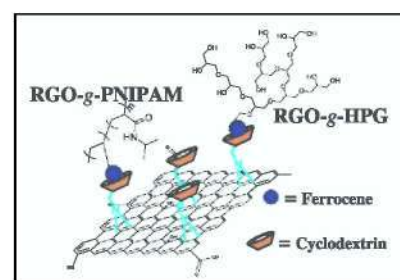
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Gaumani Gyanwali, Mathis Hodge, Jeffery L. White*

Department of Chemistry, Oklahoma State University, Stillwater, OK 74078, USA

**Cyclodextrin-functionalized graphene nanosheets, and their host-guest polymer nanohybrids**

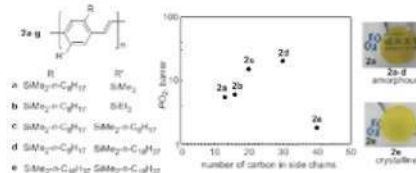
pp 2264–2271

Li Qun Xu^a, Yon Kiat Yee^a, Koon-Gee Neoh^a, En-Tang Kang^{a,*}, Guo Dong Fu^{b,*}^a Department of Chemical & Biomolecular Engineering, National University of Singapore, Kent Ridge, Singapore 119260, Singapore^b School of Chemistry and Chemical Engineering, Southeast University, Jiangning District, Nanjing 211189, Jiangsu Province, PR China**Synthesis of silyl-disubstituted poly(*p*-phenylenevinylene) membranes and their gas permeability**

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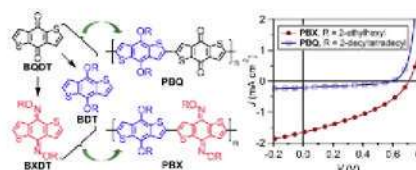
Department of Materials Science and Engineering, Graduate School of Engineering, University of Fukui, Bunkyo, Fukui 910-8507, Japan

**Novel photovoltaic polymers constructed from alternative donor and acceptor units having one mother structure**

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Long Liang, Jin-Tu Wang, Chong-Yu Mei^{*}, Wei-Shi Li^{*}

Laboratory of Organic Functional Materials and Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 345 Lingling Road, Shanghai 200032, China

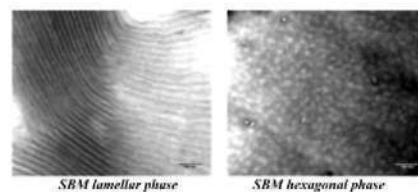


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Karell Saint-Aubin, Philippe Poulin, Christèle Jaillet, Maryse Maugey, Cécile Zakri*

Université de Bordeaux, CNRS, Centre de Recherche Paul Pascal, 115 Avenue Schweitzer,
33600 Pessac, France



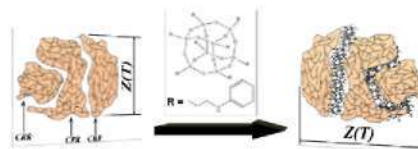
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Vinicius Pistor^{a,*}, Bluma G. Soares^b, Raquel S. Mauler^{a,*}

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Bl. J, Rio de Janeiro, Brazil



Structure and proton transport in proton exchange membranes based on cross-linked sulfonated poly (1, 3-cyclohexadiene) with varying local acid environment

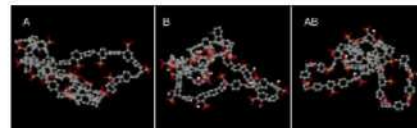
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Qifei Wang^{a,*}, David J. Keffer^b, Suxiang Deng^c, Jimmy Mays^c

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^bDepartment of Material Science and Engineering, University of Tennessee, Knoxville, TN 37996, USA

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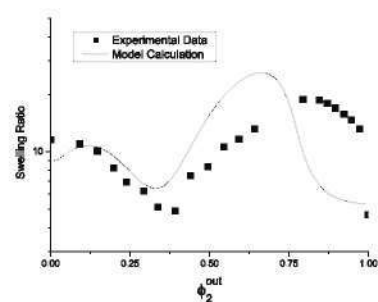


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Suk Yung Oh, Young Chan Bae*

Division of Chemical Engineering and Molecular Thermodynamics Laboratory, Hanyang University,
Seoul 133-791, Republic of Korea

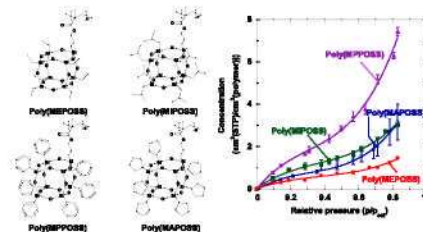


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Shinji Kanehashi, Yuko Tomita, Kohei Obokata, Takashi Kidesaki, Shuichi Sato, Tetsuo Miyakoshi, Kazukiyo Nagai*

Department of Applied Chemistry, Meiji University, 1-1-1 Higashi-mita, Tama-ku, Kawasaki 214-8571, Japan



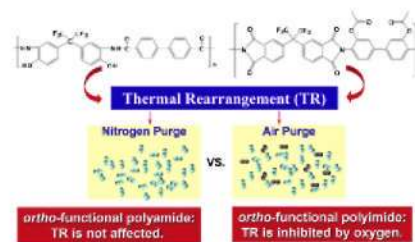
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Huan Wang^a, Donald R. Paul^{a,b}, Tai-Shung Chung^{a,*}

^a Department of Chemical and Biomolecular Engineering, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260, Singapore

^b Department of Chemical Engineering and Texas Material Institute, The University of Texas at Austin, Austin, TX 78712, USA

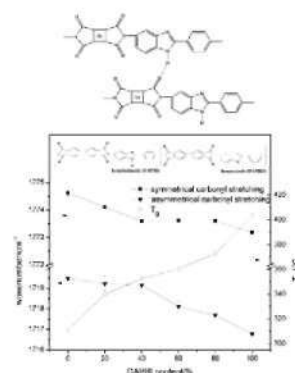


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Guangliang Song, Yu Zhang, Daming Wang, Chunhai Chen, Hongwei Zhou, Xiaogang Zhao, Guodong Dang*

Alan G. MacDiarmid Institute, Jilin University, Changchun 130012, PR China



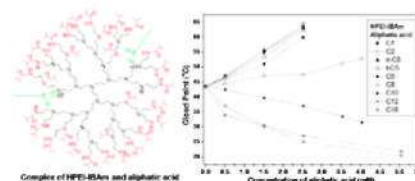
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Xu-Ran Mu^a, Jin-Ge Tong^a, Yi Liu^b, Xun-Yong Liu^b, Hua-Ji Liu^{a,*}, Yu Chen^{a,*}

^a Department of Chemistry, School of Sciences, Tianjin University, 300072 Tianjin, People's Republic of China

^b School of Chemistry and Materials Science, Ludong University, Yantai 264025, Shandong, People's Republic of China



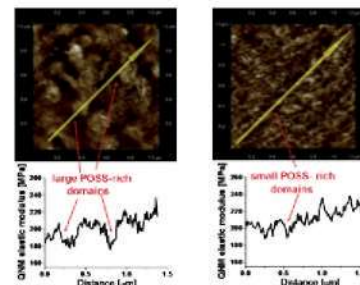
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Francois Xavier Perrin^a, Denis Mihaela Panaitescu^{b,*}, Adriana Nicoleta Frone^b, Constantin Radovici^b, Cristian Nicolae^b

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^bPolymer Department, National Institute of Research and Development in Chemistry and Petrochemistry ICECHIM, 202 Splaiul Independentei, 060021 Bucharest, Romania



Effect of lower critical solution temperature phase separation on crystallization kinetics and morphology of poly(butylenes succinate)/poly(ethylene oxide) blend

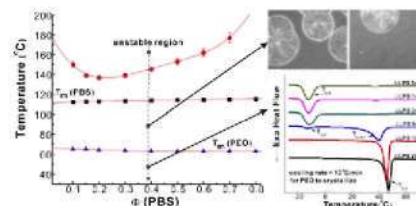
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Zhiyuan He^{a,b}, Yongri Liang^{a,*}, Pingli Wang^c, Charles C. Han^{a,*}

^aBeijing National Laboratory for Molecular Sciences, Joint Laboratory of Polymer Science and Materials, State Key Laboratory of Polymer Physics and Chemistry, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

^bGraduate School of the Chinese Academy of Sciences, Beijing 100190, China

^cNational Engineering Research Center of Engineering Plastics, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, Beijing 100190, China



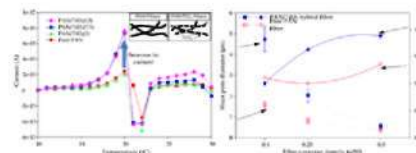
Further improvement of air filtration efficiency of cellulose filters coated with nanofibers via inclusion of electrostatically active nanoparticles

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Daehwan Cho^{a,b}, Alexander Naydich^a, Margaret W. Frey^b, Yong Lak Joo^{a,*}

^aSchool of Chemical and Biomolecular Engineering, Cornell University, Ithaca, NY 14853, USA

^bDepartment of Fiber Science & Apparel Design, Cornell University, Ithaca, NY 14853, USA



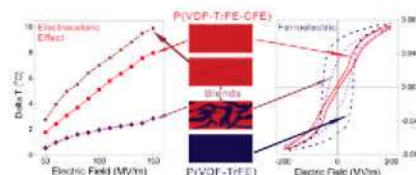
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^bDepartment of Polymer Science & Engineering and Key Laboratory of Mesoscopic Chemistry of MOE, School of Chemistry & Chemical Engineering, Nanjing University, Nanjing 210093, China

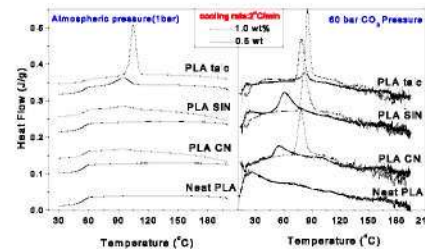


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Mohammadreza Nofar, Alireza Tabatabaei, Chul B. Park*

Microcellular Plastics Manufacturing Laboratory, Department of Mechanical and Industrial Engineering, University of Toronto, 5 King's College Road, Toronto, Ontario, Canada M5S 3G8

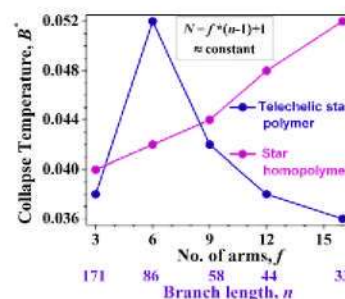


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Ashok Kumar Dasmahapatra*, G. Diwakar Reddy

Department of Chemical Engineering, Indian Institute of Technology Guwahati, Guwahati 781039, Assam, India



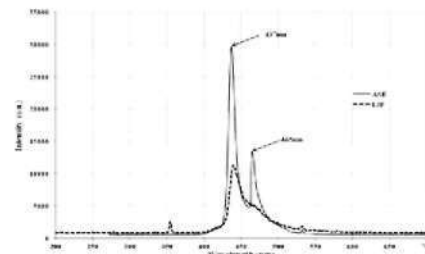
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K.H. Ibaouf^a, Saradh Prasad^b, V. Masilamani^{b,*}, M.S. AlSalhi^b

^a Physics Department, College of Science, Al Imam Mohammad Ibn Saud Islamic University, P.O. Box 90950, Riyadh 11623, Saudi Arabia

^b Research Chair for Laser Diagnosis of Cancer, King Saud University, Riyadh KSA, Saudi Arabia

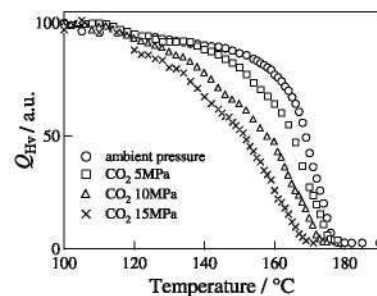


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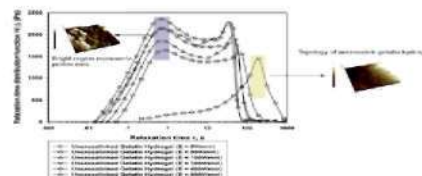
Kiyu Kawate, Noboru Osaka, Hiromu Saito*

Department of Organic and Polymer Materials Chemistry, Tokyo University of Agriculture and Technology, 2-24-16 Nakacho, Koganei, Tokyo 184-8588, Japan



Stress relaxation behavior of (Ala-Gly-Pro-Arg-Gly-Glu-4Hyp-Gly-Pro-) gelatin hydrogels under electric field: Time-electric field superposition

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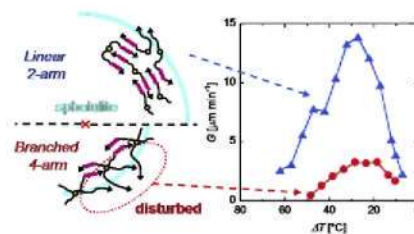
Thawatchai Tungkavet^a, Anuvat Sirivat^{a,*}, Nispa Seetapan^b, Datchanee Pattavarakorn^c^aThe Petroleum and Petrochemical College, Chulalongkorn University, Bangkok 10330, Thailand^bNational Metal and Materials Technology Center, Thailand Science Park, Pathumthani 12120, Thailand^cDepartment of Industrial Chemistry, Faculty of Science, Chiang Mai University, Chiangmai 50200, Thailand

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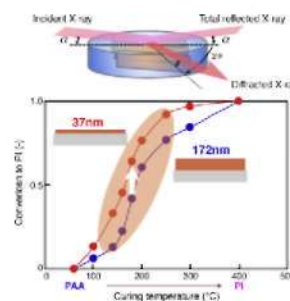
Yuzuru Sakamoto, Hideto Tsuji*

Department of Environmental and Life Sciences, Graduate School of Technology, Toyohashi University of Technology, Tempaku-cho, Toyohashi, Aichi 441-8580, Japan



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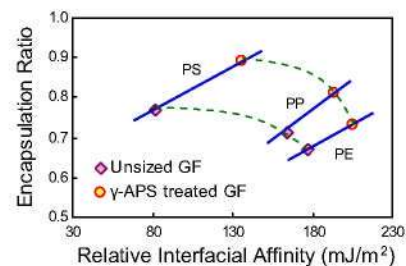
Masaru Kotera^{a,*}, Boo Samyul^a, Kouhei Araie^a, Yuri Sugioka^a, Takashi Nishino^a, Satoshi Maji^b, Miki Noda^c, Kazunobu Senoo^c, Tomoyuki Koganezawa^d, Ichiro Hirose^d^aDepartment of Chemical Science and Engineering, Graduate School of Engineering, Kobe University, Rokko, Nada, Kobe 657-8501, Japan^bS.B. Research Co., Ltd., Kiyohara, Utsunomiya 321-3231, Japan^cKobe Fundamental Research Laboratory, Sumitomo Bakelite Co., Ltd., Murotani, Nishi, Kobe 651-2241, Japan^dJapan Synchrotron Radiation Research Institute, Kouto, Sayo-cho, Sayo-gun 679-5198, Japan

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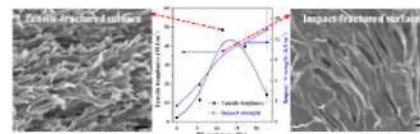
Bingpeng Li, Yaohua Zhang, Guozhang Wu*

Shanghai Key Laboratory of Advanced Polymeric Materials, School of Materials Science & Engineering, East China University of Science & Technology, Shanghai 200237, PR China

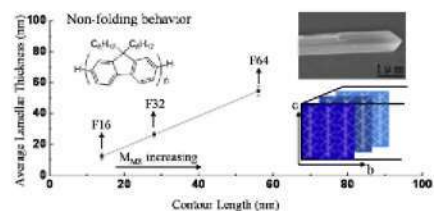


Employing a novel bioelastomer to toughen polylactide

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Hailan Kang^a, Bo Qiao^a, Runguo Wang^a, Zhao Wang^a, Liqun Zhang^{a,b,*}, Jun Ma^{c,**}, Phil Coates^d^aState Key Laboratory of Organic–Inorganic Composites, Beijing University of Chemical Technology, Beijing 100029, PR China^bKey Laboratory of Beijing City for Preparation and Processing of Novel Polymer Materials, Beijing University of Chemical Technology, Beijing 100029, PR China^cSchool of Advanced Manufacturing and Mechanical Engineering, University of South Australia, SA5095, Australia^dSchool of Engineering, Design & Technology, Bradford University, BD7 1DP, UK**Extended-chain lamellar crystals of monodisperse polyfluorenes**

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Chengfang Liu^{a,b}, Qilin Wang^{a,b}, Hongkun Tian^a, Yanhou Geng^a, Donghang Yan^{a,*}^aState Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, PR China^bUniversity of Chinese Academy of Sciences, Beijing 100049, PR China**The effect of alkyl side groups on the secondary structure and crystallization of poly(ethylene glycol)-block-polypeptide copolymers**

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Kaixuan Ren^{a,b}, Yilong Cheng^{a,b}, Chaoliang He^{a,*}, Chunsheng Xiao^a, Gao Li^{a,**}, Xuesi Chen^a^aKey Laboratory of Polymer Ecomaterials, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, PR China^bGraduate University of Chinese Academy of Sciences, Beijing 100039, PR China