

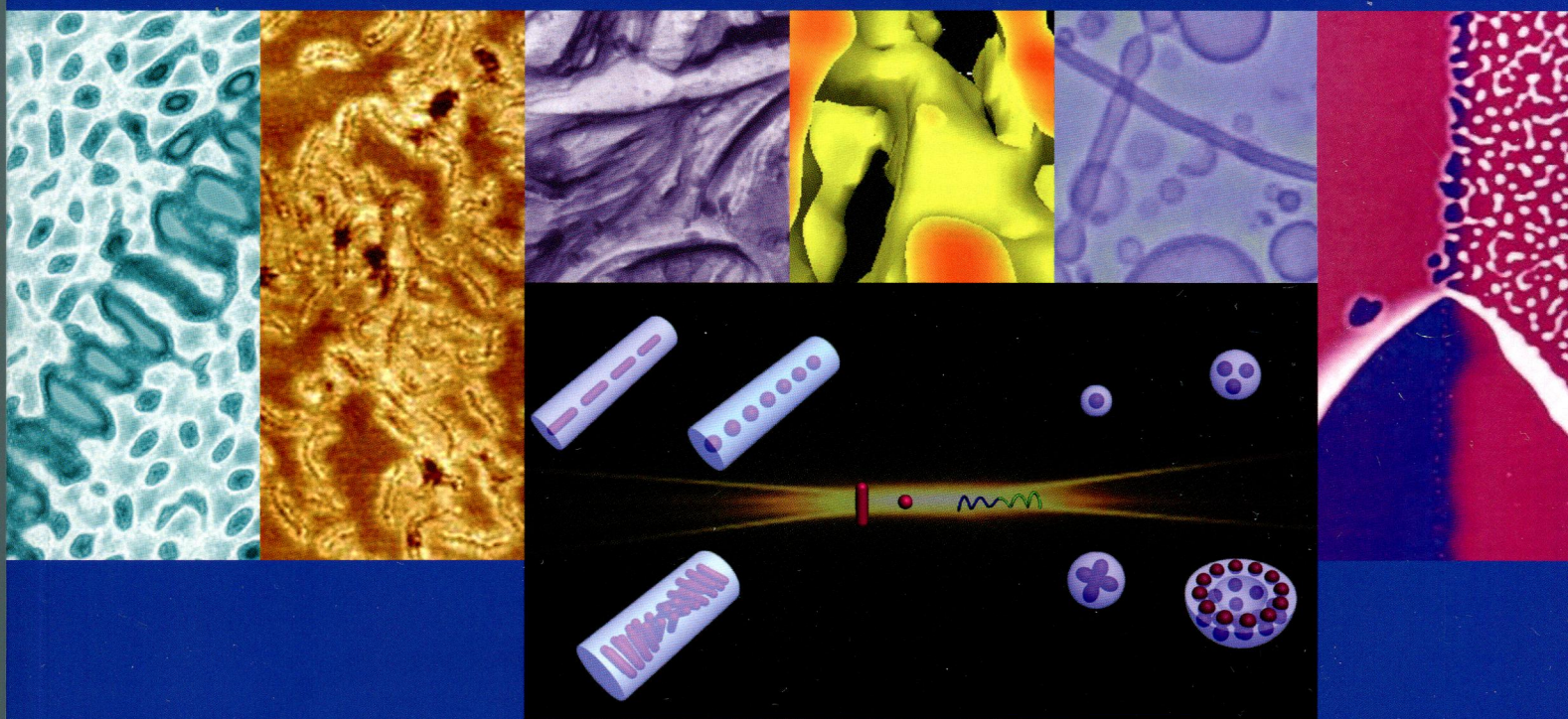
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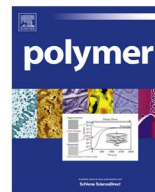
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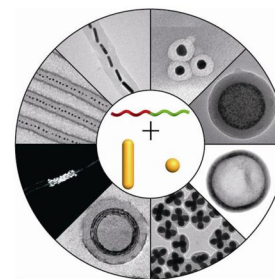
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FEATURE ARTICLE

Encapsulation of inorganic nanoparticles into block copolymer micellar aggregates: Strategies and precise localization of nanoparticles pp 1079–1096

Jianying Wang, Weikun Li, Jintao Zhu*

Key Laboratory of Large-Format Battery Materials and Systems of the Ministry of Education, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, Wuhan 430074, PR China



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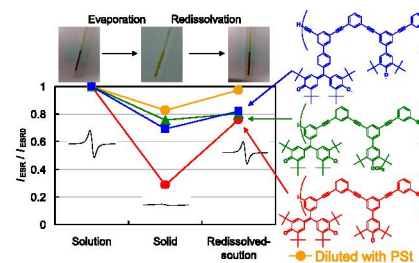
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Takashi Kaneko^{a,b,c,*}, Kyohei Iwamura^a, Ryo Nishikawa^a, Masahiro Teraguchi^{a,b,c}, Toshiki Aoki^{a,b,c}

^a Graduate School of Science and Technology, Niigata University, Ikarashi 2-8050, Niigata 950-2181, Japan

^b Center for Education and Research on Environmental Technology, Materials Engineering, Nanochemistry, Institute of Science and Technology, Niigata University, Ikarashi 2-8050, Niigata 950-2181, Japan

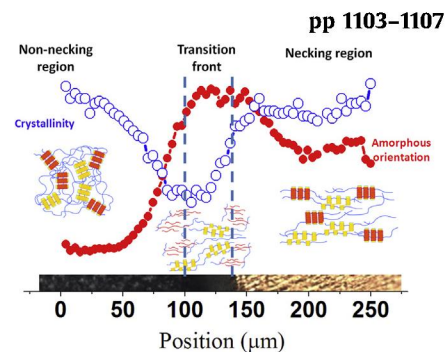
^c Center for Transdisciplinary Research, Niigata University, Ikarashi 2-8050, Niigata 950-2181, Japan



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National Synchrotron Radiation Lab and College of Nuclear Science and Technology, CAS Key Laboratory of Soft Matter Chemistry, University of Science and Technology of China, Hefei, China

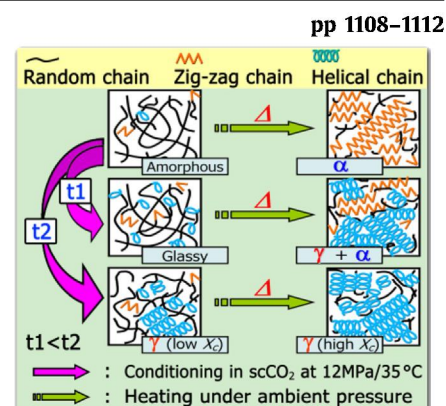


Supercritical CO₂ conditioning promotes γ -crystal formation in amorphous syndiotactic polystyrene during further heating

Qiaofeng Lan^a, Jianwei Cai^b, Jian Yu^{a,*}, Changcheng He^{b,**}, Jun Zhang^a, Jiasong He^a

^a Beijing National Laboratory for Molecular Sciences (BNLMS), Key Laboratory of Engineering Plastics, Joint Laboratory of Polymer Science and Materials, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

^b College of Chemistry, Beijing Normal University, Beijing 100875, China

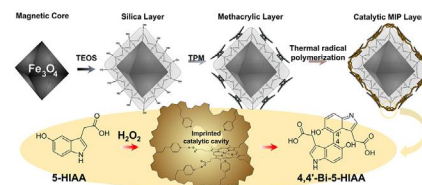


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Artificial enzyme with magnetic properties and peroxidase activity on indoleamine metabolite tumor marker

Daniel Antuña-Jiménez, M. Carmen Blanco-López, Arturo J. Miranda-Ordieres, María Jesús Lobo-Castañón*

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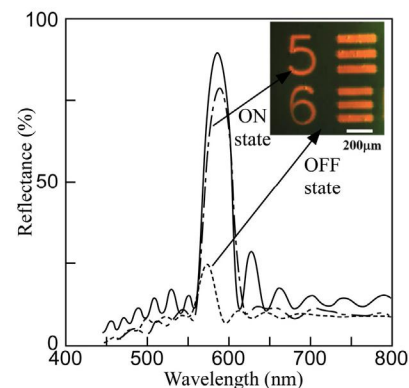
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^a Graduate School of Science and Technology, Kumamoto University, 2-39-1 Kurokami, Kumamoto 860-8555, Japan

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^d Kumamoto Institute for Photo-Electro Organics (PHOENICS), 3-11-38 Higashimachi, Higashi-ku, Kumamoto 862-0901, Japan



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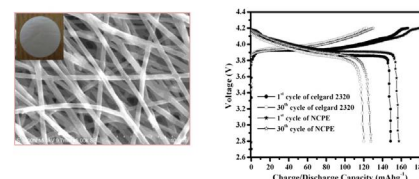
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State Key Laboratory of Polymer Physics and Chemistry, Institute of Chemistry, The Chinese Academy of Sciences, Beijing 100190, China



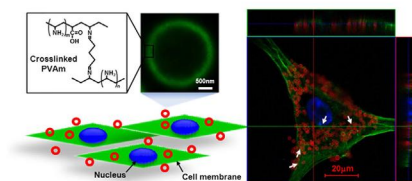
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Uniform hollow-structured poly(vinyl amine) hydrogel microparticles with controlled mesh property and enhanced cell adhesion

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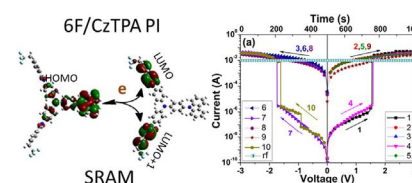
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Lei Shi, Guofeng Tian, Hebo Ye, Shengli Qi*, Dezhen Wu

State Key Laboratory of Chemical Resource Engineering, Beijing University of Chemical Technology, Beijing 100029, China

Volatile static random access memory behavior is observed on a functional polyimide bearing hexafluoroisopropylidene-diphthalimide parts as the electron acceptor and carbazole-tethered triphenylamine moieties as the electron donor with an ON/OFF current ratio of 10^5 and a switching time less than 20 ns. Molecular simulation is conducted to clarify the carrier transport process and memory mechanisms in this electroactive polyimide.



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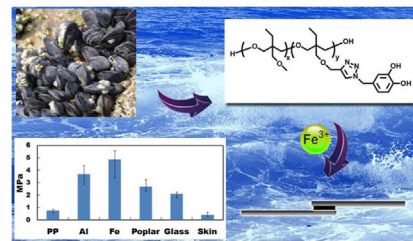
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Mingchen Jia^{a,b}, Ailei Li^{a,b}, Youbing Mu^{a,*}, Wei Jiang^c, Xiaobo Wan^{a,*}

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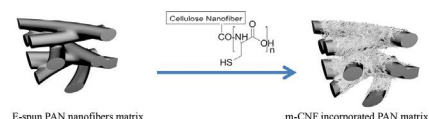


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Department of Chemistry, Stony Brook University, Stony Brook, NY 11794-3400, USA



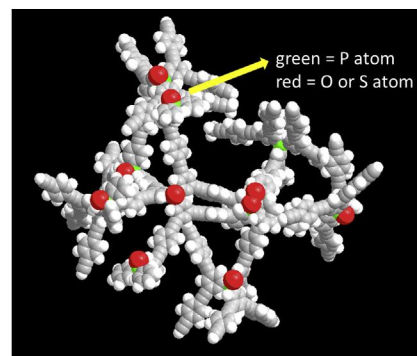
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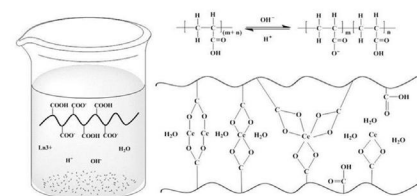
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^bLaboratory of Polymer Physics and Chemistry, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

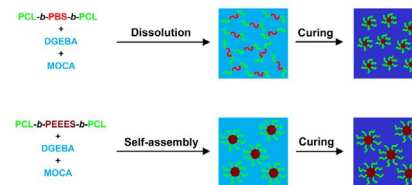


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Houluo Cong, Lei Li, Sixun Zheng*

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



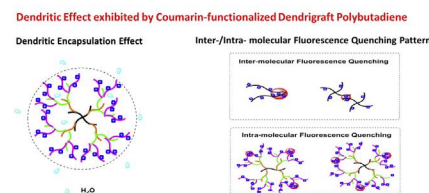
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Mechanical properties of silicone methacrylate microparticles determined by AFM Colloidal Probe Technique

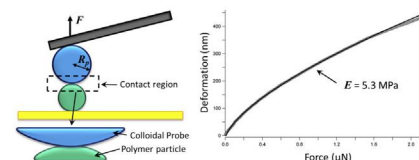
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^c Evonik Industries AG, Goldschmidtstraße 100, 45127 Essen, Germany



Rate mechanism and dislocation generation in high density polyethylene and other semicrystalline polymers

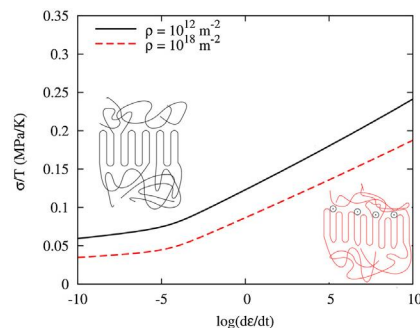
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Florian Spieckermann^{a,*}, Harald Wilhelm^{a,b}, Gerald Polt^a, Saïd Ahzi^c, Michael Zehetbauer^a

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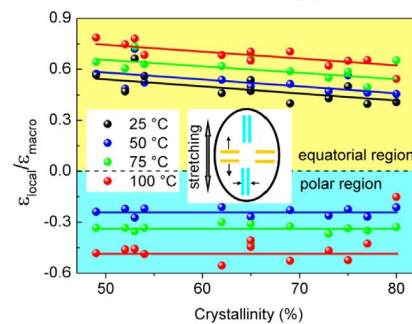
^b Laboratory of Polymer Engineering LKT-TGM, Wexstrasse 19-23, 1200 Wien, Austria

^c Icube Laboratory, Université de Strasbourg/CNRS, 2 rue Boussingault, 67000 Strasbourg, France



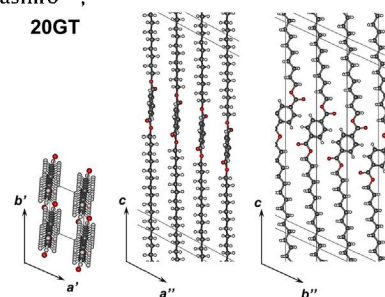
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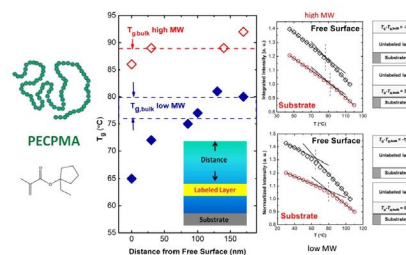
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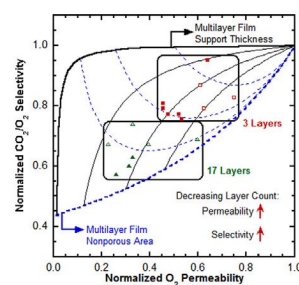
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Tian Lan^a, John M. Torkelson^{a,b,*}^a Department of Materials Science and Engineering, Northwestern University, Evanston, IL 60208, USA^b Department of Chemical and Biological Engineering, Northwestern University, Evanston, IL 60208, USA

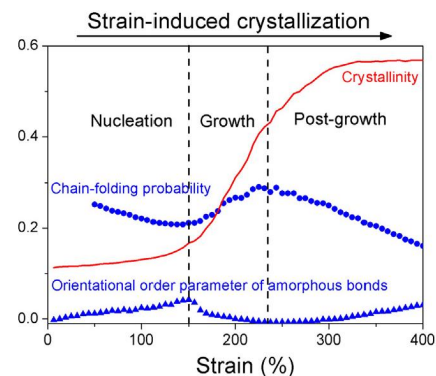
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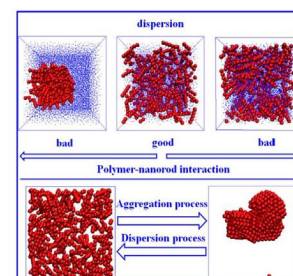
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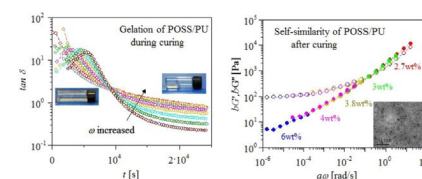
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Yijing Nie^{a,b}, Huanhuan Gao^b, Wenbing Hu^{b,*}^a School of Materials Science and Engineering, Jiangsu University, 301 Xuefu Road, Zhenjiang 212013, China^b Department of Polymer Science and Engineering, State Key Laboratory of Coordination Chemistry, School of Chemistry and Chemical Engineering, Nanjing University, 210093 Nanjing, China**Molecular dynamics simulation of dispersion and aggregation kinetics of nanorods in polymer nanocomposites**

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Yangyang Gao^{a,b}, Jun Liu^{a,b}, Jianxiang Shen^a, Liqun Zhang^{a,b,*}, Dapeng Cao^{a,b,*}^a Key Laboratory of Beijing City on Preparation and Processing of Novel Polymer Materials, Beijing University of Chemical Technology, Beijing 100029, People's Republic of China^b State Key Laboratory of Organic-Inorganic Composites, Beijing University of Chemical Technology, Beijing 100029, People's Republic of China**Rheological study of the gelation of cross-linking polyhedral oligomeric silsesquioxanes (POSS)/PU composites**

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