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Graphical Abstracts/Eur Polym J 49 (2013) 2377–2387

SPECIAL ISSUE SECTION - ADVANCED MACROMOLECULAR SYSTEMS ACROSS THE LENGTH SCALES

Advanced macromolecular systems across the length scales: Smart, nanostructured polymers for controlled molecular release and at biological interfaces

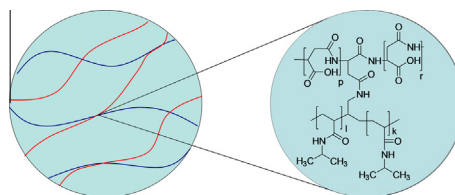
G. Julius Vancso

MESA+ Institute for Nanotechnology, University of Twente, 7500 AE Enschede, The Netherlands

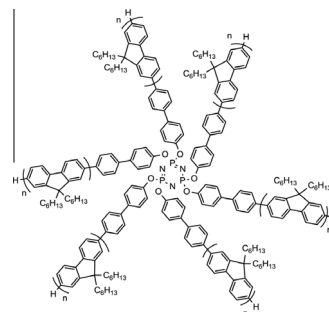
Eur Polym J 49 (2013) 2388

pH- and temperature-responsive poly(aspartic acid)-*l*-poly(*N*-isopropylacrylamide) conetwork hydrogel
Árpád Némethy^a, Katalin Solti^a, Lóránd Kiss^c, Benjámín Gyarmati^a,
Mária A. Deli^c, Erzsébet Csányi^b, András Szilágyi^a^aSoft Matters Team, Department of Physical Chemistry and Materials Science, Budapest University of Technology and Economics, Budafoki út 8, Budapest H-1111, Hungary^bFaculty of Pharmacy, Pharmaceutical Technology Department, University of Szeged, Eötvös utca 6, Szeged H-6720, Hungary^cInstitute of Biophysics, Biological Research Centre of the Hungarian Academy of Sciences, Temesvári krt. 62, Szeged H-6726, Hungary

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Thermally stable glassy luminescent cyclotriphosphazenes
Joseph Kok-Peng Ng^a, Ching Mui Cho^a, Jia Min Chin^a, Karen Lin Ke^a,
Chaobin He^{a,b}, Jianwei Xu^a^aInstitute of Materials Research and Engineering, A*STAR (Agency for Science, Technology and Research), 3 Research Link, Singapore 117602, Republic of Singapore^bDepartment of Materials Science & Engineering, National University of Singapore, 5 Engineering Drive 2, Singapore 117576, Republic of Singapore

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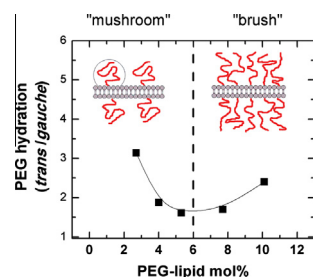


Structural characterization of the poly(ethylene glycol) layer of sterically stabilized liposomes by means of FTIR spectroscopy

Z. Varga, J. Mihály, Sz. Berényi, A. Bóta

Department of Biological Nanochemistry, Institute of Molecular Pharmacology, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Pusztaszeri út 59-67, H-1025 Budapest, Hungary

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Comparison of the micro- and macrostructural characteristics of biopolymer cast films

B. Szabó^{a,b}, I. Sebe^c, N. Kállai^d, K. Süvegh^c, R. Zelkó^b

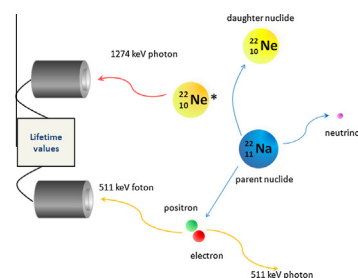
^aGedeon Richter Plc., Formulation R&D, Gyömrői Street 19-21, H-1103 Budapest, Hungary

^bUniversity Pharmacy Department of Pharmacy Administration, Semmelweis University, Högyes Endre Street 7-9, H-1092 Budapest, Hungary

^cLaboratory of Nuclear Chemistry, Eötvös Loránd University, Pázmány Péter Avenue 1/A, H-1117 Budapest, Hungary

^dDepartment of Pharmaceutics, Semmelweis University, Högyes Endre Street 7-9, H-1092 Budapest, Hungary

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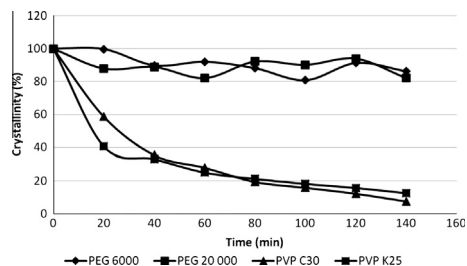
Effects of polymers on the crystallinity of nanonized meloxicam during a co-grinding process

Csaba Mártha^a, Levente Kürti^a, Gabriella Farkas^a, Orsolya Jójárt-Laczkovich^a, Balázs Szalontai^b, Erik Glässer^b, Mária A. Deli^b, Pirooska Szabó-Révész^a

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^bLaboratory of Molecular Neurobiology, Institute of Biophysics, Biological Research Center, Hungarian Academy of Sciences, Szeged, Hungary

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Synthesis and characterisation of gelatin/zeolite porous scaffold

Neethu Ninan^{a,b,d}, Yves Grohens^a, Anne Elain^a, Nandakumar Kalarikkal^{b,c}, Sabu Thomas^{b,d}

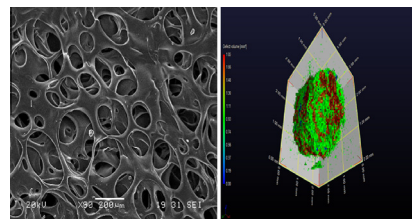
^aUniversité de Bretagne Sud, Laboratoire Ingénierie des Matériaux de Bretagne, BP 92116, 56321 Lorient Cedex, France

^bCentre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Priyadarsini Hills PO, Kottayam 686 560, Kerala, India

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^dSchool of Chemical Sciences, Mahatma Gandhi University, Priyadarsini Hills PO, Kottayam 686 560, Kerala, India

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Solution-processable multicolored dithienothiophene-based conjugated polymers for electrochromic applications

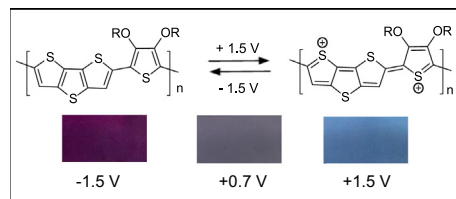
Eur Polym J 49 (2013) 2446

Wei Teng Neo^{a,c}, Ching Mui Cho^a, Jing Song^a, Jia Min Chin^a, Xiaobai Wang^a, Chaobin He^{a,b}, Hardy Sze On Chan^c, Jianwei Xu^a

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^cDepartment of Chemistry, National University of Singapore, 3 Science Drive 3, Singapore 117543, Republic of Singapore



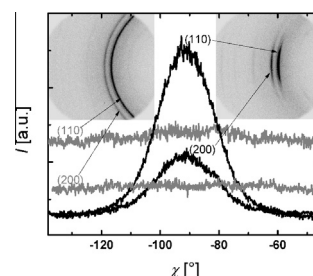
Shape-memory properties of hydrogels having a poly(ϵ -caprolactone) crosslinker and switching segment in an aqueous environment

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Ulrich Nöchel^a, Chaganti Srinivasa Reddy^{a,b}, Narendra Kumar Uttamchand^a, Karl Kratz^a, Marc Behl^{a,b}, Andreas Lendlein^{a,b}

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^bTianjin University-Helmholtz-Zentrum Geesthacht, Joint Laboratory for Biomaterials and Regenerative Medicine, Weijin Road 92, Tianjin 300072, China

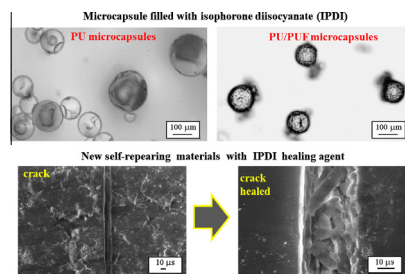


An efficient method for the output of new self-repairing materials through a reactive isocyanate encapsulation

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Barbara Di Credico, Marinella Levi, Stefano Turri

Department of Chemistry, Materials and Chemical Engineering "Giulio Natta", Politecnico di Milano, Piazza Leonardo da Vinci, 20133 Milan, Italy



Electrochemically controlled release of molecular guests from redox responsive polymeric multilayers and devices

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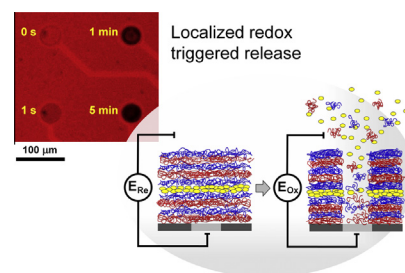
Jing Song^a, Dominik Jańczewski^a, Yujie Ma^b, Lennard van Ingen^c, Ching Ee Sim^d, Qianling Goh^d, Jianwei Xu^a, G. Julius Vancso^c

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^bInstitute for Molecules and Materials, Radboud University Nijmegen, Heyendaalseweg 135, 6525 AJ Nijmegen, The Netherlands

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^dSchool of Chemical and Biomedical Engineering, Nanyang Technological University, 637457, Singapore

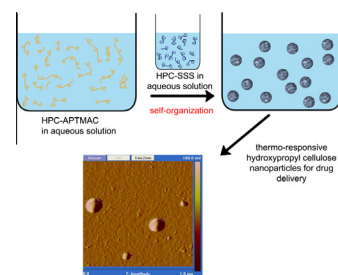


Self-organized thermo-responsive hydroxypropyl cellulose nanoparticles for curcumin delivery

Dorota Bielska, Anna Karewicz, Kamil Kamiński, Izabela Kielkiewicz, Tomasz Lachowicz, Krzysztof Szczubiałka, Maria Nowakowska

Faculty of Chemistry, Jagiellonian University, Ingardena 3, 30-060 Kraków, Poland

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Influence of surface properties of polymeric nanoparticles on their membrane affinity

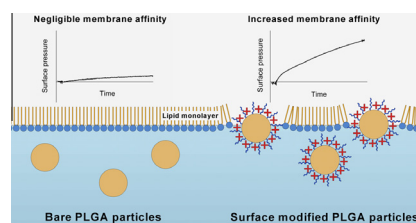
G. Gyulai^a, Cs.B. Péntzes^a, M. Mohai^b, F. Csempez^c, É. Kiss^a

^aLaboratory of Interfaces and Nanostructures, Institute of Chemistry, Eötvös Loránd University, P.O. Box 32, Budapest 112, H-1518, Hungary

^bInstitute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences, P.O. Box 17, Budapest H-1525, Hungary

^cLaboratory of Colloid and Supramolecular Systems, Institute of Chemistry, Eötvös Loránd University, P.O. Box 32, Budapest 112, H-1518, Hungary

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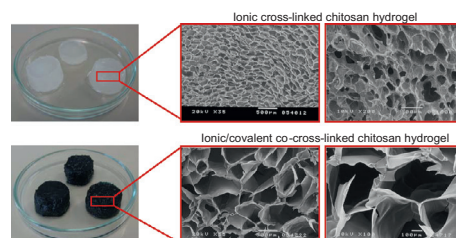
Delivery of cisplatin from thermosensitive co-cross-linked chitosan hydrogels

M.J. Moura^{a,b}, M.H. Gil^b, M.M. Figueiredo^b

^aDepartment of Chemical and Biological Engineering, Polytechnic Institute of Coimbra, Av. Marnoco de Sousa, 30, 3000-271 Coimbra, Portugal

^bResearch Centre for Chemical Processes Engineering and Forest Products, Department of Chemical Engineering, University of Coimbra, R. Sílvio Lima, 3030-790 Coimbra, Portugal

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Advantages of cross-linked versus linear hyaluronic acid for semisolid skin delivery systems

Szylvia Berkó^a, Mónika Maroda^b, Magdolna Bodnár^c, Gábor Erős^d, Petra Hartmann^e, Kinga Szentner^d, Piroska Szabó-Révész^a, Lajos Kemény^d, János Borbély^c, Erzsébet Csányi^a

^aDepartment of Pharmaceutical Technology, University of Szeged, Eötvös u. 6, 6720 Szeged, Hungary

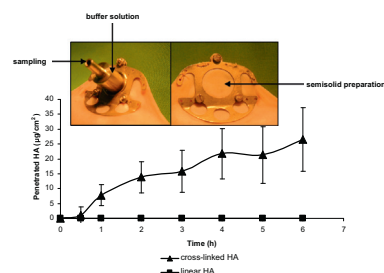
^bTEVA Pharmaceuticals Ltd., Pallagi u. 13, 4042 Debrecen, Hungary

^cBBS Biochemicals LLC, Kiserdő u. 4, 4225 Debrecen, Hungary

^dDepartment of Dermatology and Allergology, University of Szeged, Korányi fasor 6-8, 6720 Szeged, Hungary

^eInstitute of Surgical Research, University of Szeged, Pécsi u. 6, 6720 Szeged, Hungary

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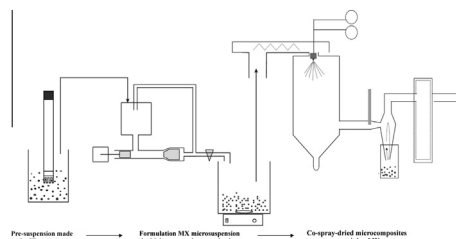
Effect of polymers for aerolization properties of mannitol-based microcomposites containing meloxicam

Anita Pomázi^a, Francesca Buttini^b, Rita Ambrus^a, Paolo Colombo^b, Piroska Szabó-Révész^a

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^bDepartment of Pharmacy, University of Parma, Area delle Scienze, I-43100 Parma, Italy

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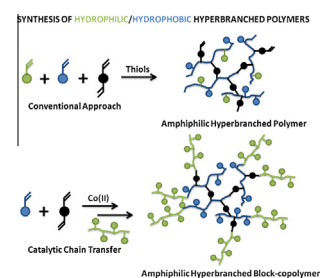
FEATURE ARTICLES

Amphiphilic hyperbranched polymers from the copolymerization of a vinyl and divinyl monomer: The potential of catalytic chain transfer polymerization

Niels M.B. Smeets

Department of Chemical Engineering, McMaster University, 1280 Main Street West, Hamilton, Ontario, Canada L8S 4L7

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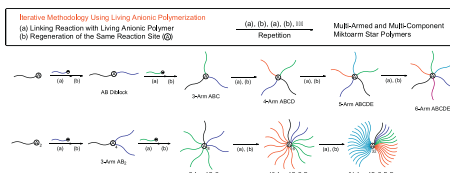
Successive synthesis of well-defined multiarmed miktoarm star polymers by iterative methodology using living anionic polymerization

Shotaro Ito^a, Raita Goseki^a, Takashi Ishizone^a, Akira Hirao^b

^aPolymeric and Organic Materials Department, Graduate School of Science and Engineering, Tokyo Institute of Technology, S1-6, 2-12-1, Ohokayama, Meguro-ku, Tokyo 152-8552, Japan

^bInstitute of Polymer Science and Engineering, National Taiwan University, No. 1, Sec. 4, Roosevelt Road, Taipei 10617, Taiwan

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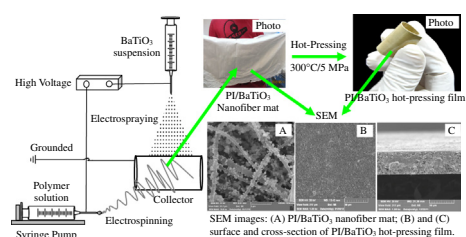
MACROMOLECULAR NANOTECHNOLOGY ARTICLES

Flexible PI/BaTiO₃ dielectric nanocomposite fabricated by combining electrospinning and electrospinning

Yichun Ding, Qiong Wu, Dan Zhao, Wan Ye, Muddasir Hanif, Haoqing Hou

Department of Chemistry and Chemical Engineering, Jiangxi Normal University, Nanchang, Jiangxi 330022, PR China

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Impact of synthetic talc on PLLA electrospun fibers

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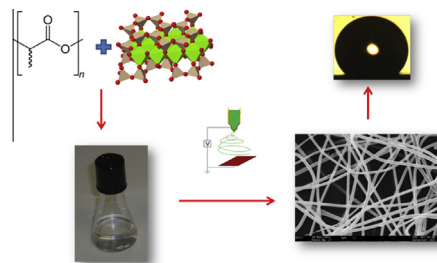
Orietta Monticelli^a, Sergio Bocchini^b, Lorenza Gardella^a, Dario Cavallo^c, Peggy Cebe^d, Gabriele Germelli^a

^aDipartimento di Chimica e Chimica Industriale, Università di Genova, Via Dodecaneso 31, 16146 Genova, Italy

^bCenter for Space Human Robotics@PoliTo, Istituto Italiano di Tecnologia, C.so Trento 21, 10129 Torino, Italy

^cDepartment of Mechanical Engineering, Eindhoven University of Technology, P.O. Box 513, 5600 MB Eindhoven, The Netherlands

^dDepartment of Physics and Astronomy, Center for Nanoscopic Physics, Tufts University, Medford, MA 02155, USA



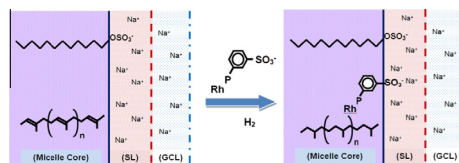
Aqueous-phase hydrogenation of nanosized polyisoprene emulsion using rhodium catalysts

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Pornlert Piya-areetham^a, Pattarapan Prasassarakich^a, Garry L. Rempel^b

^aDepartment of Chemical Technology, Faculty of Science, Chulalongkorn University, Bangkok 10330, Thailand

^bDepartment of Chemical Engineering, University of Waterloo, ON N2L 3G1, Canada



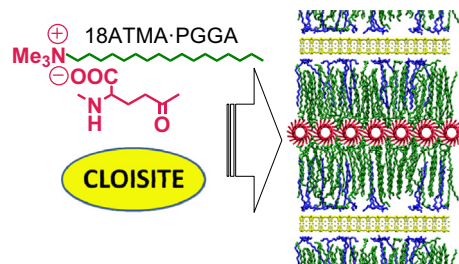
The structure of poly(γ -glutamic acid)/nanoclay hybrids compatibilized by alkylammonium surfactants

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Ainhoa Tolentino^a, Salvador León^b, Abdelilah Alla^a, Antxon Martínez de Ilarduya^a, Sebastián Muñoz-Guerra^a

^aDepartament d'Enginyeria Química, Universitat Politècnica de Catalunya, ETSEIB, Diagonal 647, Barcelona 08028, Spain

^bDepartamento de Ingeniería Química, Universidad Politécnica de Madrid, ETSIM, Gutiérrez Abascal 2, Madrid 28006, Spain



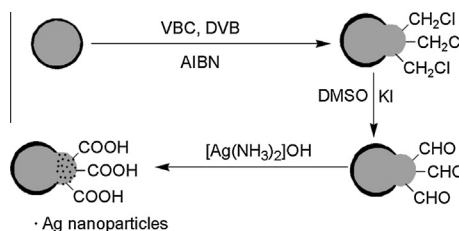
Scalable synthesis of TiO₂-Ag Janus composite particles

Eur Polym J 49 (2013) 2610

Qinhuai Chen^{a,b}, Longhui Zheng^a, Baoling Chen^a, Jinhua Lin^{a,b}

^aCollege of Material Science and Engineering, Fujian Normal University, Fuzhou 350007, China

^bFujian Key Laboratory of Polymer Materials, Fuzhou 350007, China

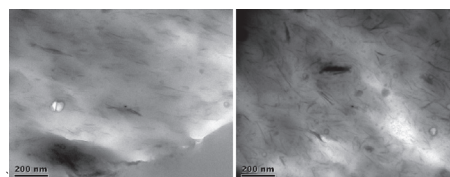


Preparation and characterization of high performance of graphene/nylon nanocomposites

J. Jin, R. Rafiq, Y.Q. Gill, M. Song

Department of Materials, Loughborough University, LE11 3TU Leicestershire, UK

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A: nylon11/graphene system

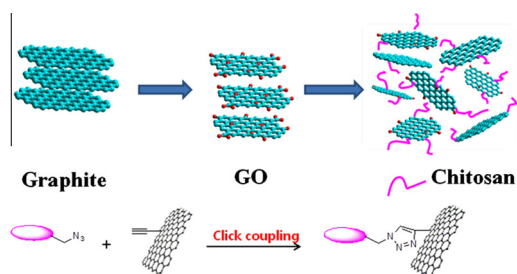
B: nylon12/graphene system

Synthesis of click-coupled graphene sheet with chitosan: Effective exfoliation and enhanced properties of their nanocomposites

Hee Jeong Ryu, Sibdas Singha Mahapatra, Santosh Kumar Yadav, Jae Whan Cho

Department of Organic and Nano System Engineering, Konkuk University, Seoul 143-701, Republic of Korea

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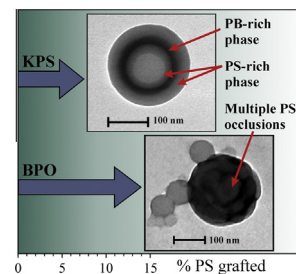
Incorporation of polybutadiene into waterborne polystyrene nanoparticles via miniemulsion polymerization

Ludmila I. Ronco^a, Roque J. Minari^a, Jorge R. Vega^{a,b}, Gregorio R. Meira^a, Luis M. Gugliotta^a

^aINTEC (Universidad Nacional del Litoral-CONICET), Güemes 3450, 3000 Santa Fe, Argentina

^bFacultad Regional Santa Fe (Universidad Tecnológica Nacional), Lavaisse 610, 3000 Santa Fe, Argentina

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Electrochemical impedance study on nanofibers of poly(m-anthranilic acid)/polyacrylonitrile blends

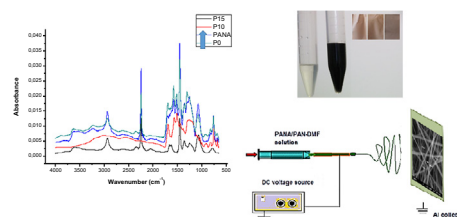
Digdem Giray^a, Timucin Balkan^b, Birgit Dietzel^c, A. Sezai Sarac^{a,b}

^aIstanbul Technical University, Nanoscience and Nanotechnology, Maslak, 34469 Istanbul, Turkey

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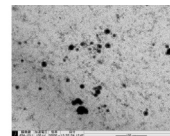
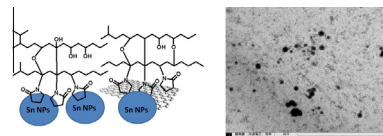
^cInstitute of Thin Film and Microsensoric Technology (IDM), Kantstr. 55, 14513 Teltow, Germany

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Preparation of PVP–PVA–exfoliated graphite cross-linked composite hydrogels for the incorporation of small tin nanoparticles

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Frederic Delbecq^a, Fumihiko Kono^b, Takeshi Kawai^b^aNIMS, National Institute For Materials Science, 1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan^bDepartment of Industrial Chemistry, Tokyo University of Science, 1-3 Kagurazaka, Shinjuku, Tokyo 162-8601, Japan

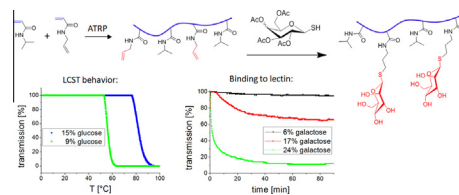
REGULAR ARTICLES

Synthesis of thermoresponsive glycopolymers via ATRP of N-isopropylacrylamide and N-allylacrylamide and subsequent thiol–ene reaction

Eur Polym J 49 (2013) 2660

Christian von der Ehe^{a,b,c}, Justyna A. Czaplowska^{a,b}, Michael Gottschaldt^{a,b}, Ulrich S. Schubert^{a,b,c}^aLaboratory of Organic and Macromolecular Chemistry (IOMC),

Friedrich Schiller University Jena, Humboldtstraße 10, 07743 Jena, Germany

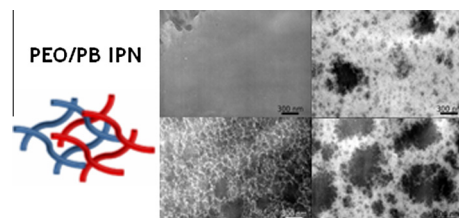
^bJena Center for Soft Matter (JCSM), Friedrich Schiller University, Philosophenweg 7, 07743 Jena, Germany^cDutch Polymer Institute (DPI), P.O. Box 902, 5600 AX Eindhoven, The Netherlands

Influence of the poly(ethylene oxide)/polybutadiene IPN morphology on the ionic conductivity of ionic liquid

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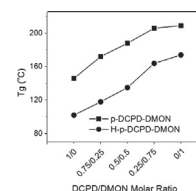
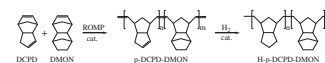
Frédéric Vidal^a, Cédric Plesse^a, Guillaume Palaprat^a, Jonathan Juger^a, Catherine Gauthier^b, Jean-Marc Pelletier^b, Karine Masenelli-Varlot^b, Claude Chevrot^a, Dominique Teyssié^a^aLaboratoire de Physicochimie des Polymères et des Interfaces, EA 2528,

Université de Cergy-Pontoise, 5, mail Gay-Lussac, 95031 Cergy-Pontoise Cedex, France

^bINSA-Lyon, MATEIS CNRS UMR5510, F-69621 Villeurbanne, France

Preparation and characterization of cycloolefin polymer based on dicyclopentadiene (DCPD) and dimethanoctahydronaphthalene (DMON)

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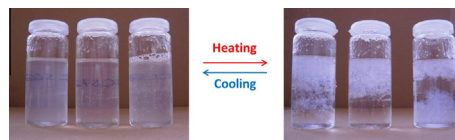
Vania Tanda Widayaa^{a,b}, Huyen Thanh Vo^{a,b}, Robertus Dhimas Dhewangga Putra^{a,b}, Woon Sung Hwang^c, Byoung Sung Ahn^{a,b}, Hyunjoo Lee^{a,b}^aKorea Institute of Science and Technology, Seoul 136-791, Republic of Korea^bUniversity of Science and Technology, Daejeon 305-355, Republic of Korea^cKolon Industries, HCR Research Institute, Incheon, Republic of Korea

Thermo-responsive nanofibrillated cellulose by polyelectrolyte adsorption

Emma Larsson^{a,b}, Carmen Cobo Sanchez^a, Christian Porsch^a, Erdem Karabulut^a, Lars Wågberg^{a,b}, Anna Carlmark^{a,b}

^aKTH Royal Institute of Technology, School of Chemical Science and Engineering, Department of Fibre and Polymer Technology, Teknikringen 56, SE-100 44 Stockholm, Sweden

^bKTH Royal Institute of Technology, Wallenberg Wood Science Centre, Teknikringen 56, SE-100 44 Stockholm, Sweden



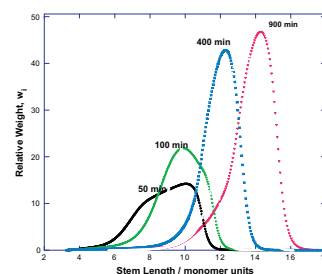
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The effect of secondary crystallization on melting

Ziyu Chen, J.N. Hay, M.J. Jenkins

The School of Metallurgy and Materials, The College of Engineering and Physical Sciences, The University of Birmingham, Edgbaston, Birmingham B15 2TT, UK

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Linear and nonlinear rheological behavior and crystallization of semicrystalline poly(styrene)-poly(L-lactide) block copolymers

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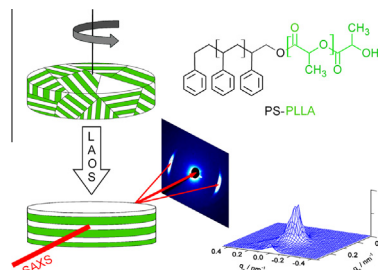
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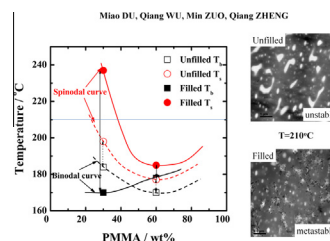
Filler effects on the phase separation behavior of poly (methyl methacrylate)/poly (styrene-co-acrylonitrile) binary polymer blends

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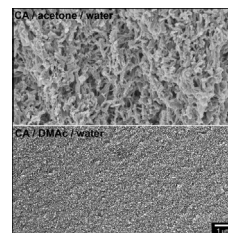


Investigation of cellulose acetate viscoelastic properties in different solvents and microstructure

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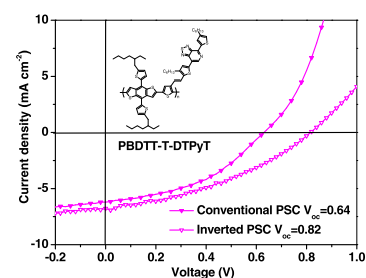
Synthesis and photovoltaic properties of conjugated copolymers with benzo[1,2-b:4,5-b']dithiophene and thiadiazolo[3,4-c]pyridine moieties

Huaiyin Kang^a, Bin Zhao^{a,b}, Zhencai Cao^a, Jun Zhong^a, Haohao Li^a, Yong Pei^a, Ping Shen^a, Songting Tan^b

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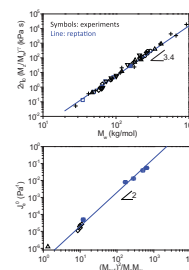


Effect of high molar mass species on linear viscoelastic properties of polyethylene melts

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Synthesis, thermal properties and curing kinetics of fluorene diamine-based benzoxazine containing ester groups

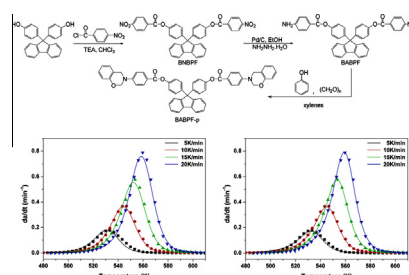
Xuan-yu He^{a,b}, Jun Wang^b, Yu-dan Wang^b, Chen-juan Liu^a, Wen-bin Liu^{a,b}, Lei Yang^c

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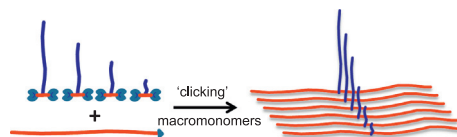


Synthesis and temperature gradient interaction chromatography of model asymmetric star polymers by the “macromonomer” approach

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Poly(vinyl chloride) plasticized with mixtures of succinate di-esters – synthesis and characterization

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