



Graphical Abstracts/Eur Polym J 49 (2013) 2793–2807

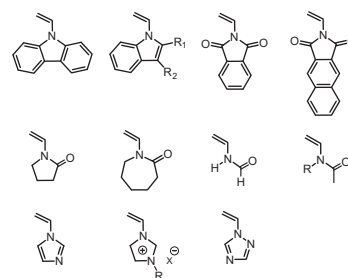
FEATURE ARTICLE

Recent progress in controlled radical polymerization of *N*-vinyl monomers

Kazuhiro Nakabayashi, Hideharu Mori

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 Department of Organic Device Engineering, Graduate School of Science and Engineering, Yamagata University, 4-3-16, Jonan, Yonezawa 992-8510, Japan

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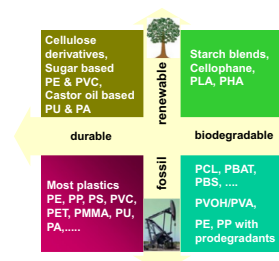
REVIEW ARTICLE

Recycling of bioplastics, their blends and biocomposites: A review

Azadeh Soroudi, Ignacy Jakubowicz

SP Technical Research Institute of Sweden, P.O. Box 857, Boras, Sweden

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SPECIAL SECTION - RECENT PROGRESS IN POLYMER BIOCONJUGATES

Preface

Cyrille Boyer, Bert Klumperman

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 Department of Chemistry and Polymer Science, Stellenbosch University, Private Bag X1, Matieland 7602, South Africa

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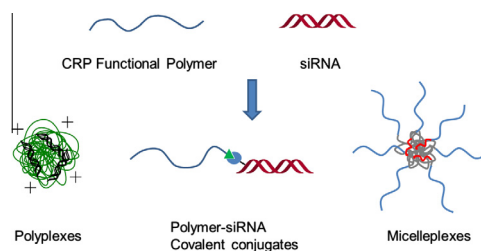
Polymer siRNA conjugates synthesised by controlled radical polymerisation

Vanessa Loczenski Rose^a, G. Sebastiaan Winkler^a, Stephanie Allen^a, Sanyogitta Puri^b, Giuseppe Mantovani^a

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^bAstrazeneca UK Ltd., Pharmaceutical Development, Alderley Park, Macclesfield SK10 2NA, UK

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Improvement of transfection efficiency by galactosylated N-3-guanidinopropyl methacrylamide-co-poly (ethylene glycol) methacrylate copolymers

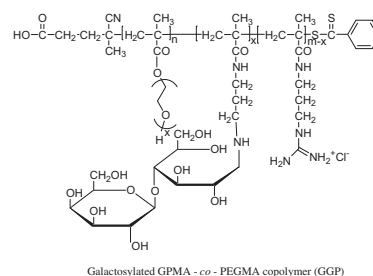
Xinsong Li^a, Zhu Qin^c, Yang Wu^a, Wei Liu^a, Ling Li^a, Liang Guo^a, Yunhui Li^b, Lihong Yin^b, Yuepu Pu^b

^aSchool of Chemistry and Chemical Engineering, Southeast University, Nanjing 211189, China

^bSchool of Public Health, Southeast University, Nanjing 211189, China

^cInstitute of Agricultural Facilities and Equipment, Jiangsu Academy of Agricultural Sciences, Nanjing 210014, China

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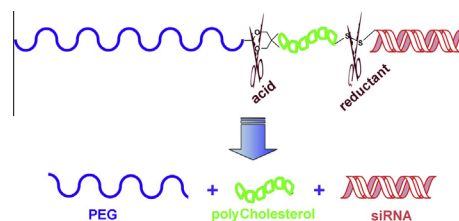
pH-labile sheddable block copolymers by RAFT polymerization: Synthesis and potential use as siRNA conjugates

Xin Huang^a, Sema Ilknur Sevimli^a, Volga Bulmus^{a,b}

^aCentre for Advanced Macromolecular Design, School of Biotechnology & Biomolecular Sciences, UNSW, Sydney, NSW 2052, Australia

^bDepartment of Chemical Engineering, Biotechnology and Bioengineering Graduate Program, Izmir Institute of Technology, Izmir 35430, Turkey

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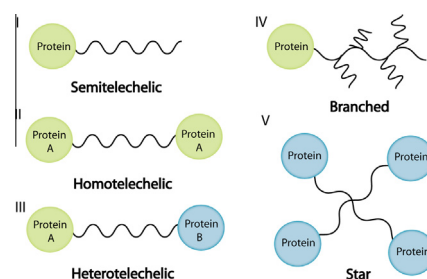


Advances in polymer and polymeric nanostructures for protein conjugation

Daniella C. González-Toro, S. Thayumanavan

Department of Chemistry, University of Massachusetts Amherst, Amherst, MA, United States

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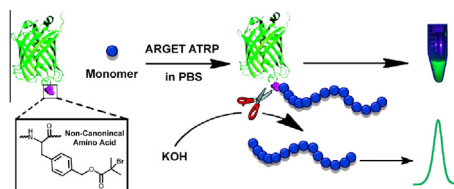
Protein–polymer hybrids: Conducting ARGET ATRP from a genetically encoded cleavable ATRP initiator

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Saadiah E. Averick^a, Christopher G. Bazewicz^b, Bradley F. Woodman^b, Antonina Simakova^a, Ryan A. Mehl^b, Krzysztof Matyjaszewski^a

^aDepartment of Chemistry, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213, United States

^bDepartment of Biochemistry and Biophysics, Oregon State University, Corvallis, OR 97331, United States

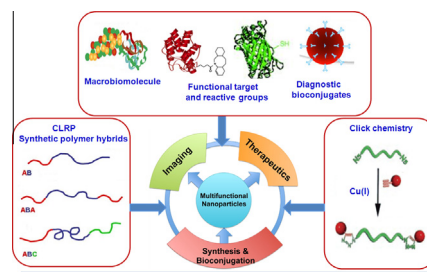


Recent developments in polymer–block–polypeptide and protein–polymer bioconjugate hybrid materials

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Renjith P. Johnson, Johnson V. John, Il Kim

The WCU Center for Synthetic Polymer Bioconjugate Hybrid Materials, Department of Polymer Science and Engineering, Pusan National University, Pusan 609-735, Republic of Korea

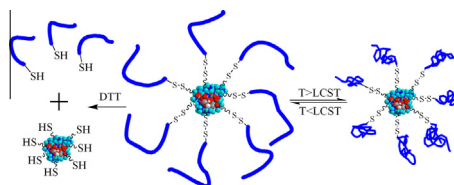


Preparation of biodegradable and thermoresponsive enzyme–polymer conjugates with controllable bioactivity via RAFT polymerization

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Huihui Liu, Jizhen Zhang, Xiong Luo, Na Kong, Liang Cui, Jingquan Liu

College of Chemistry, Chemical and Environmental Engineering, Laboratory of Fiber Materials and Modern Textile, The Growing Base for State Key Laboratory, Qingdao University, Qingdao 266071, China

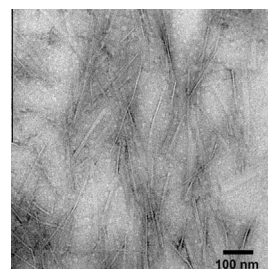


Self-assembly and bioactivity of a polymer/peptide conjugate containing the RGD cell adhesion motif and PEG

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Valeria Castelletto, Ricardo J. Gouveia, Che J. Connon, Ian W. Hamley

School of Chemistry, Pharmacy and Food Biosciences, University of Reading, Reading RG6 6AD, UK



Effects on peptide binding affinity for TNF α by PEGylation and conjugation to hyaluronic acid

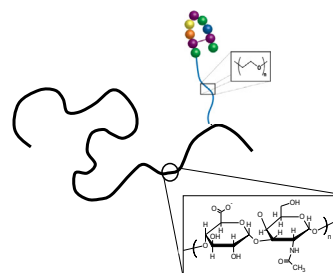
Allison N. Elder^a, Susan K. Hannes^b, Sade F. Atoyebi^a, Newell R. Washburn^{a,c}

^aDepartment of Chemistry, Carnegie Mellon University, Pittsburgh, PA 15213, United States

^bDepartment of Biological Sciences, Carnegie Mellon University, Pittsburgh, PA 15213, United States

^cDepartment of Biomedical Engineering, Carnegie Mellon University, Pittsburgh, PA 15213, United States

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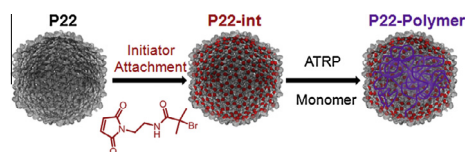


Atom transfer radical polymerization on the interior of the P22 capsid and incorporation of photocatalytic monomer crosslinks

Janice Lucon, Ethan Edwards, Shefah Qazi, Masaki Uchida, Trevor Douglas

Department of Chemistry and Biochemistry, Montana State University, Bozeman, MT 59717, United States

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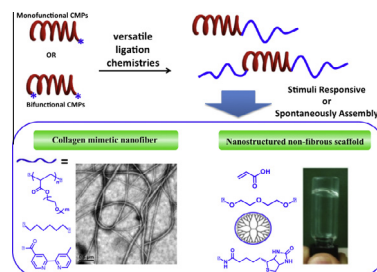


Collagen and collagen mimetic peptide conjugates in polymer science

Lirong He, Patrick Theato

Institute for Technical and Macromolecular Chemistry, University of Hamburg, Bundesstrasse 45, D-20146 Hamburg, Germany

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Collagen-like peptides and peptide-polymer conjugates in the design of assembled materials

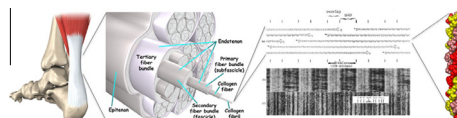
Tianzhi Luo^a, Kristi L. Kiick^{a,b,c}

^aDepartment of Materials Science and Engineering, University of Delaware, Newark, DE 19716, United States

^bBiomedical Engineering, University of Delaware, Newark, DE 19716, United States

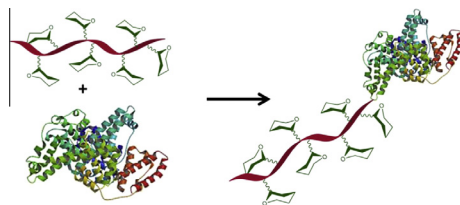
^cDelaware Biotechnology Institute, Innovation Way, Newark, DE 19711, United States

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Recent advances in the preparation of glycopolymer bioconjugates

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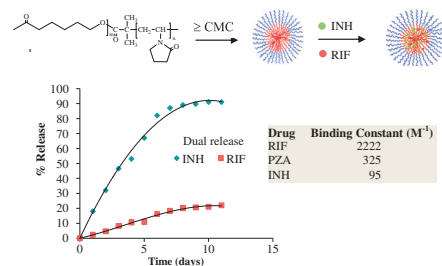
Marya Ahmed^a, Phanphen Wattanaarsakit^b, Ravin Narain^a^aDepartment of Chemical and Materials Engineering, University of Alberta, Edmonton, AB T6G 2G6, Canada^bDepartment of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmaceutical Sciences, Chulalongkorn University, Phyathai Road, Pathumwan, Bangkok, Thailand

Polyvinylpyrrolidone–polycaprolactone block copolymer micelles as nanocarriers of anti-TB drugs

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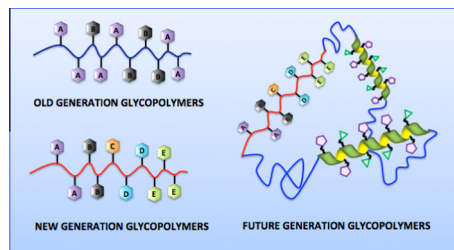
Anisha Veeren, Archana Bhaw-Luximon, Dhanjay Jhurry

ANDI Centre of Excellence for Biomedical and Biomaterials Research, MSIRI Building, University of Mauritius, Réduit, Mauritius



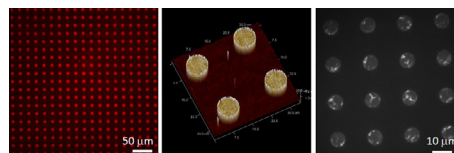
Precision glycopolymers and their interactions with lectins

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Gokhan Yilmaz^{a,b}, C. Remzi Becer^{a,c}^aDepartment of Chemistry, University of Warwick, CV4 7AL Coventry, United Kingdom^bDepartment of Basic Sciences, Turkish Military Academy, 06654 Ankara, Turkey^cSchool of Engineering and Materials Science, Queen Mary University of London, Mile End Road, E1 4NS London, United Kingdom

Microcontact printing of Alzheimer's β -amyloid monomers and fibrils

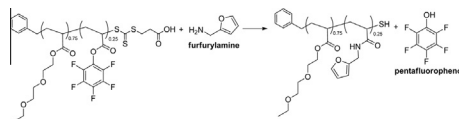
Eur Polym J 49 (2013) 3052

Danting Huang^{a,b}, Zhibin Wang^a, Junfei Xia^a, Peipei Zhang^a, Brett Kirkland^a, Anant K. Paravastu^{a,b}, Jingjiao Guan^{a,c}^aDepartment of Chemical and Biomedical Engineering, FAMU-FSU College of Engineering, Florida State University, Tallahassee, FL, United States^bNational High Magnetic Field Laboratory, Tallahassee, FL, United States^cIntegrative NanoScience Institute, Florida State University, Tallahassee, FL, United States

Factors influencing the synthesis and the post-modification of PEGylated pentafluorophenyl acrylate containing copolymers

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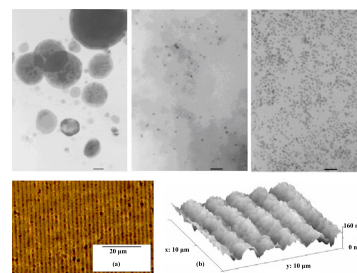
Mariana Beija, Yang Li, Andrew B. Lowe, Thomas P. Davis, Cyrille Boyer

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

MACROMOLECULAR NANOTECHNOLOGY ARTICLES

Fabrication and characterization of gold/acrylic polymer nanocomposites

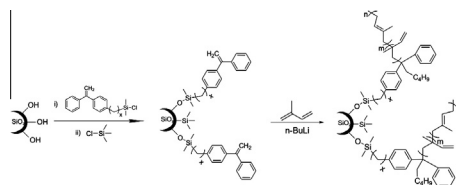
Eur Polym J 49 (2013) 3072

J. Burunkova^a, I. Denisiuk^a, N. Vorzobova^a, L. Daroczi^b, Cs. Hegedus^c,
S. Charnovych^b, S. Kokenyesi^b^aITMO, St. Petersburg, Russia^bInstitute of Physics, University of Debrecen, Hungary^cFaculty of Dentistry, University of Debrecen, Hungary

Living anionic surface initiated polymerization (LASIP) of isoprene from silica nano- and glass particles

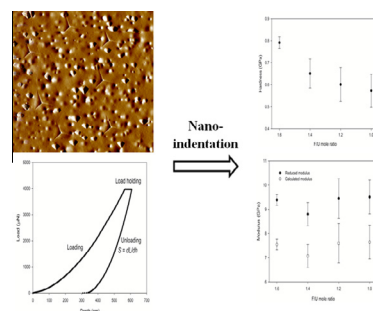
Eur Polym J 49 (2013) 3078

Onur Kir, Wolfgang H. Binder

Institute of Chemistry, Department of Macromolecular Chemistry,
Faculty of Natural Sciences II (Chemistry, Physics and Mathematics),
Martin-Luther University Halle-Wittenberg, Halle 06120, Germany

Hardness evaluation of cured urea-formaldehyde resins with different formaldehyde/urea mole ratios using nanoindentation method

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Byung-Dae Park^a, Charles R. Frihart^b, Yan Yu^c, Adya P. Singh^a^aDepartment of Wood Science and Technology, Kyungpook National University, Daegu 702-701,
Republic of Korea^bForest Products Laboratory, One Gifford Pinchot Drive, Madison, WI 53726, USA^cInternational Center for Bamboo and Rattan, Beijing 100102, China

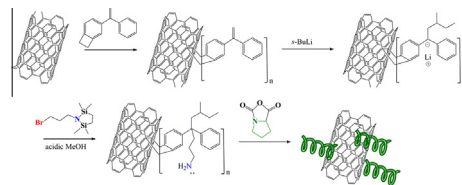
Surface initiated ring-opening polymerization of L-proline N-carboxy anhydride from single and multi walled carbon nanotubes

Manos Gkikas^a, Biswa P. Das^b, Marina Tsianou^b, Hermis Iatrou^a, Georgios Sakellariou^a

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^bDepartment of Chemical and Biological Engineering, University at Buffalo, The State University of New York, Buffalo, NY 14260-4200, USA

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Structure, properties and interfacial interactions in poly(lactic acid)/polyurethane blends prepared by reactive processing

Balázs Imre^{a,b}, Dániel Bedő^{a,b}, Attila Domján^c, Peter Schön^d, G. Julius Vancsó^d, Béla Pukánszky^{a,b}

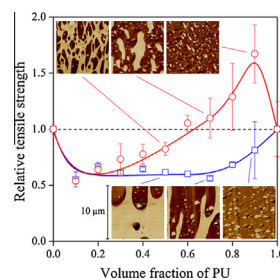
^aLaboratory of Plastics and Rubber Technology, Budapest University of Technology and Economics, P.O. Box 91, H-1521 Budapest, Hungary

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

^cInstitute of Organic Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences, P.O. Box 17, H-1525 Budapest, Hungary

^dMaterials Science and Technology of Polymers, MESA⁺ Institute for Nanotechnology, University of Twente, Enschede NL-7500, The Netherlands

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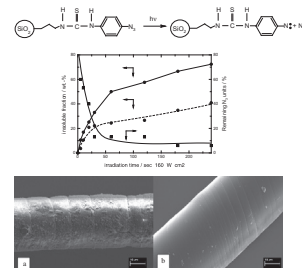
Nanoparticles bearing a photoreactive shell: Interaction with polymers and polymer surfaces

Nina Muhr^{a,b}, Rainer Puchleitner^a, Wolfgang Kern^{a,b}

^aChair of Chemistry of Polymeric Materials, University of Leoben, Otto-Glöckel-Strasse 2, A-8700 Leoben, Austria

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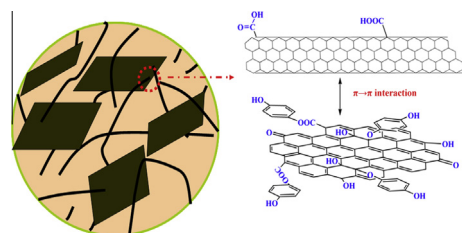


Synergistic effects of functionalized graphene and functionalized multi-walled carbon nanotubes on the electrical and mechanical properties of poly(ether sulfone) composites

Shuling Zhang, Shangbing Yin, Changru Rong, Pengfei Huo, Zhenhua Jiang, Guibin Wang

Alan G. MacDiarmid Institute, College of Chemistry, Jilin University, Changchun 130012, People's Republic of China

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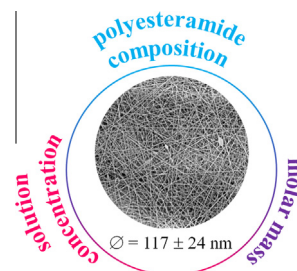
Electrospinning of polyestaramides based on ϵ -caprolactam and ϵ -caprolactone from solution

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Lenka Malinová^a, Michaela Stolínová^a, Daniela Lubasová^b, Lenka Martinová^b, Jiří Brožek^a

^aDepartment of Polymers, Institute of Chemical Technology, Prague, Technická 5, 166 28 Prague 6, Czech Republic

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Influence of chemical surface modification of cellulose nanowhiskers on thermal, mechanical, and barrier properties of poly(lactide) based bionanocomposites

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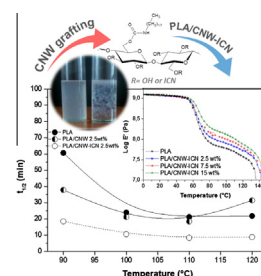
Etzael Espino-Pérez^{a,b}, Julien Bras^a, Violette Ducruet^c, Alain Guinault^d, Alain Duffresne^a, Sandra Domenek^b

^aLGP2/Grenoble INP-Pagora/CNRS, 461 rue de la papeterie, Domaine universitaire, C10065, 38402 Saint Martin d'Hères Cedex, France

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Tensile properties, thermal and morphological analysis of thermoplastic polyurethane films reinforced with multiwalled carbon nanotubes

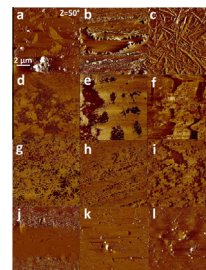
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Pietro Russo^{a,b}, Domenico Acierno^b, Giovanni Marletta^c, Giovanni Li Destri^c

^aInstitute of Chemistry and Technology of Polymers, National Council of Research, Via Campi Flegrei 34, 80078 Pozzuoli (Na), Italy

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^cLaboratory for Molecular Surfaces and Nanotechnology (LAMSun), Department of Chemistry, University of Catania and CSGI, Viale A. Doria 6, 95125 Catania, Italy



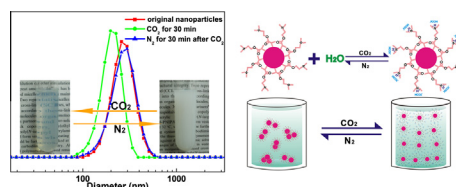
SHORT COMMUNICATION

Preparation and drug release property of CO₂ stimulus-sensitive poly(*N*, *N*-dimethylaminoethyl methacrylate)-*b*-polystyrene nanoparticles

Eur Polym J 49 (2013) 3165

Xiaohong Wang, Guohua Jiang, Zhen Wei, Xia Li, Bolin Tang

Key Laboratory of Advanced Textile Materials and Manufacturing Technology (ATMT), Ministry of Education, Zhejiang Sci-Tech University, Hangzhou 310018, PR China
Department of Materials Engineering, College of Materials and Textile, Zhejiang Sci-Tech University, Hangzhou 310018, PR China



REGULAR ARTICLES

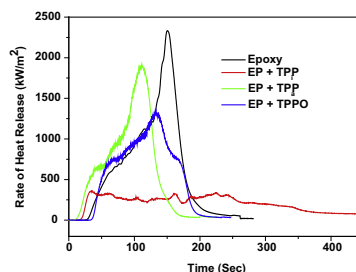
Influence of oxidation state of phosphorus on the thermal and flammability of polyurea and epoxy resin

Thirumal Mariappan^a, Zhou, You^b, Jianwei Hao^b, Charles A. Wilkie^a

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^bSchool of Material Science and Engineering, Beijing Institute of Technology, Beijing 100081, PR China

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Synthesis and electrochemical characterization of fluorene and benzimidazole containing novel conjugated polymers: Effect of alkyl chain length on electrochemical properties

Imge Namal^a, Ali Can Ozelcaglayan^a, Yasemin Arslan Udum^b, Levent Toppare^{a,c,d,e}

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

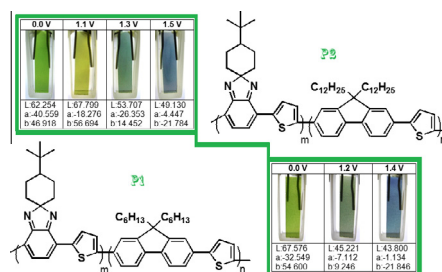
^bInstitute of Science and Technology, Department of Advanced Technologies, Gazi University, 06570 Ankara, Turkey

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

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

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Linear and branched polyester resins based on dimethyl-2,5-furandicarboxylate for coating applications

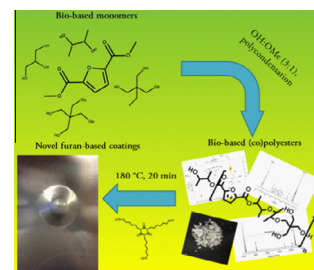
Erik Gubbels^a, Lidia Jasinska-Walc^{a,b}, Bart A.J. Noorderver^a, Cor E. Koning^{a,c}

^aLaboratory of Polymer Materials, Eindhoven University of Technology, Den Dolech 2, P.O. Box 513, 5600 MB Eindhoven, The Netherlands

^bDepartment of Polymer Technology, Chemical Faculty, Gdansk University of Technology, G. Narutowicza Str. 11/12, 80-952 Gdansk, Poland

^cDSM Coating Resins, Ceintuurbaan 5, Zwolle, The Netherlands

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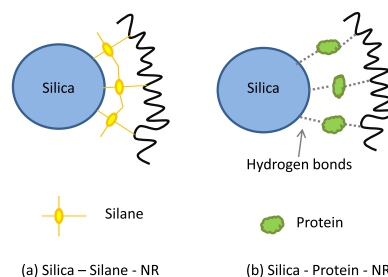
The influence of non-rubber constituents on performance of silica reinforced natural rubber compounds

S.S. Sarkawi^{a,b}, W.K. Dierkes^a, J.W.M. Noordermeer^a

^aUniversity of Twente, Elastomer Technology and Engineering, PO Box 217, 7500 AE Enschede, The Netherlands

^bMalaysian Rubber Board, RRIM Research Station, Sg. Buloh, 47000 Selangor, Malaysia

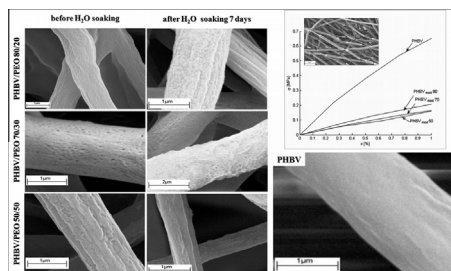
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Tailoring the properties of electrospun PHBV mats: Co-solution blending and selective removal of PEO

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Ilaria Cacciotti, Manuela Calderone, Alessandra Bianco

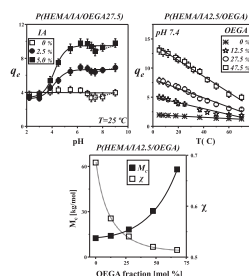
University of Rome "Tor Vergata", Department of Industrial Engineering,
INSTM RU Tor Vergata, Via del Politecnico, 1, 00133 Rome, Italy

Network parameters and biocompatibility of p(2-hydroxyethyl methacrylate/itaconic acid/oligo(ethylene glycol) acrylate) dual-responsive hydrogels

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M. Micic, E. Suljovrujic

Vinca Institute of Nuclear Sciences, University of Belgrade, PO Box 522, 11001 Belgrade, Serbia

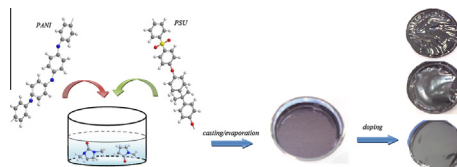


Preparation and characterization of a conductive polyaniline/polysulfone film and evaluation of the effect of co-solvent

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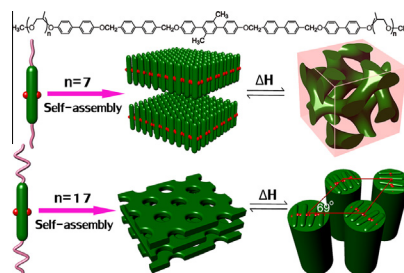
Hasan Farrokhzad, Tom Van Gerven, Bart Van der Bruggen

Department of Chemical Engineering, Laboratory of Process Engineering for Sustainable Systems (ProcESS), KU Leuven, Leuven, Belgium



Self-assembly of coil-rod-coil molecules into bicontinuous cubic and oblique columnar assemblies depending on coil chain length

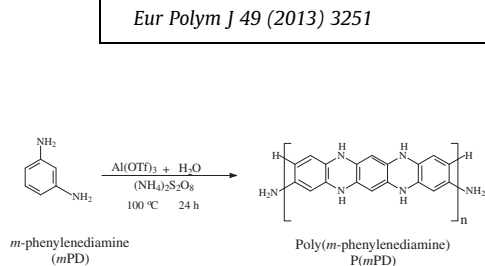
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Ke-Li Zhong^{a,b,c}, Qi Wang^{a,d}, Tie Chen^a, Long Yi Jin^a^aKey Laboratory for Organism Resources of the Changbai Mountain and Functional Molecules (Yanbian University), Ministry of Education, and Department of Chemistry, College of Science, Yanbian University, Yanji, Jilin 133002, China^bCollege of Chemistry, Chemical Engineering and Food Safety, Bohai University, Jinzhou, Liaoning 121013, China^cFood Safety Key Lab of Liaoning Province, Engineering and Technology Research Center of Food Preservation, Processing and Safety Control of Liaoning Province, Jinzhou, Liaoning 121013, China^dCNPC Northeast Refining & Petrochemical Engineering Co. Ltd., Jilin Design Institute, Jilin 132002, China

Chemical oxidative polymerization of *m*-phenylenediamine and its derivatives using aluminium triflate as a co-catalyst

Ismael Amer, Desmond Austin Young, Hermanus C.M. Vosloo

Research Focus Area for Chemical Resource Beneficiation: Catalysis and Synthesis Research Group, North-West University, Private Bag X6001, Potchefstroom 2520, South Africa

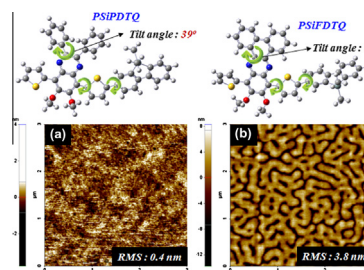


Conjugated polymer consisting of dibenzosilole and quinoxaline as donor materials for organic photovoltaics

Ho Jun Song, Joo Young Lee, Eui Jin Lee, Doo Kyung Moon

Department of Materials Chemistry and Engineering, Konkuk University, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Republic of Korea

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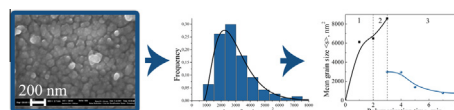
The oxidative polymerization of aniline as topochemical process. The statistical analysis of grain growth

V.V. Zuev^{a,b}, A.V. Podshivalov^b, S. Bronnikov^a, M.A. Shishov^c

^aInstitute of Macromolecular Compounds, Bolshoi Prospekt 31, RU-199004 Sankt Petersburg, Russian Federation

^bNational Research University of Information Technologies, Mechanics and Optics, Kronverkskiy Prospekt 49, RU-197101 Sankt Petersburg, Russian Federation
^cSaint Petersburg Electrotechnical University "LETI", Professor Popov Ulitsa 5, RU-197376 Sankt Petersburg, Russian Federation

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The influence of macrocyclic ligands and water on propylene oxide polymerization initiated with anhydrous potassium hydroxide in tetrahydrofuran

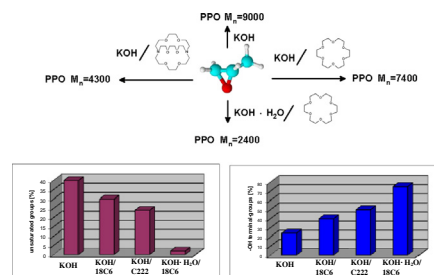
Zbigniew Gobelny^a, Marek Matlengiewicz^a, Justyna Jurek^b, Michał Michalak^c, Danuta Kwapulińska^a, Andrzej Swinarew^b, Ewa Schab-Balcerzak^{a,c}

^aInstitute of Chemistry, University of Silesia, 40-007 Katowice, Poland

^bInstitute of Materials Science, University of Silesia, 40-007 Katowice, Poland

^cCentre of Polymers and Carbon Materials, Polish Academy of Science, 41-819 Zabrze, Poland

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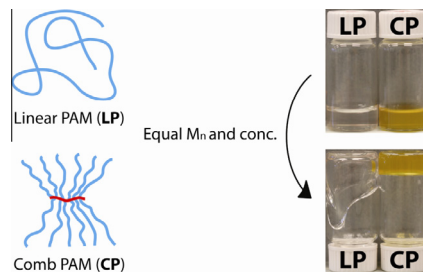
Branched polyacrylamides: Synthesis and effect of molecular architecture on solution rheology

D.A.Z. Wever^{a,b}, F. Picchioni^a, A.A. Broekhuis^a

^aUniversity of Groningen, Department of Chemical Engineering – Product Technology, Nijenborgh 4, 9747 AG Groningen, The Netherlands

^bDutch Polymer Institute (DPI), P.O. Box 902, 5600 AX Eindhoven, The Netherlands

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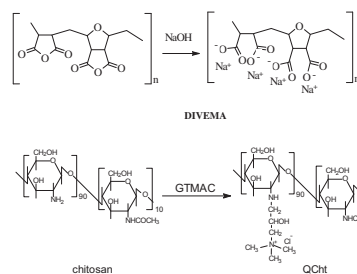
Soluble–insoluble polyelectrolyte complex of quaternized chitosan with DIVEMA (pyran copolymer)

Vladimir A. Izumrudov^a, Irina F. Volkova^b, Marina Yu. Gorshkova^b

^aM.V. Lomonosov Moscow State University, Chemistry Department, 119991 Moscow, Russia

^bA.V. Topchiev Institute of Petrochemical Synthesis, RAS, 29, Leninsky Prospekt, 119991 Moscow, Russia

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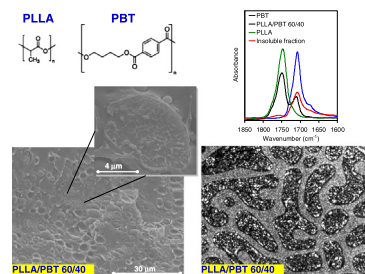


Miscibility and properties of poly(L-lactic acid)/poly(butylene terephthalate) blends

Maria Laura Di Lorenzo, Paolo Rubino, Mariacristina Cocca

Consiglio Nazionale delle Ricerche, Istituto di Chimica e Tecnologia dei Polimeri, c/o Comprensorio Olivetti, Via Campi Flegrei, 34, 80078 Pozzuoli, (NA), Italy

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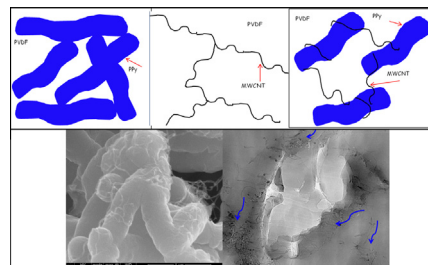
Synergic effect in electrical conductivity using a combination of two fillers in PVDF hybrids composites

Aline Bruna da Silva^a, Juliano Marini^a, Genaro Gelves^b, Uttandaraman Sundararaj^b, Rinaldo Gregório Jr.^a, Rosario E.S. Bretas^a

^aDepartment of Materials Engineering, Universidade Federal de São Carlos, Rodovia Washington Luís, Km 235, PO Box 676, São Carlos, SP 13565-905, Brazil

^bDepartment of Chemical and Petroleum Engineering, University of Calgary, Calgary, Alberta T2N 1N4, Canada

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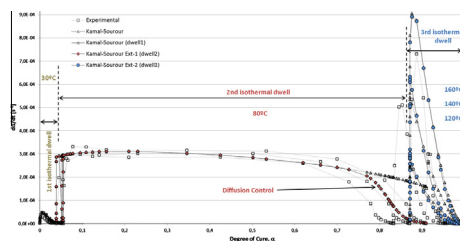
Kinetic models for the SR1500 and LY556 epoxies under manufacturer's recommended cure cycles

H. Faria^{a,b}, C.M.C. Pereira^a, F.M. Andrade Pires^b, A.T. Marques^b

^aINEGI – Instituto de Engenharia Mecânica e Gestão Industrial, Rua Dr. Roberto Frias 400, 4200-465 Porto, Portugal

^bFEUP - Faculdade de Engenharia da Universidade do Porto, Rua Dr. Roberto Frias s/n, 4200-465 Porto, Portugal

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Synthesis and characterization of novel elastomeric poly(D,L-lactide urethane) maleate composites for bone tissue engineering

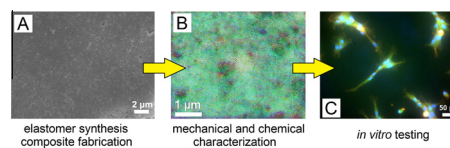
Ángel E. Mercado-Pagán^a, Yunqing Kang^a, Dai Fei Elmer Ker^a, Sangwon Park^b, Jeffrey Yao^a, Julius Bishop^a, Yunzhi Peter Yang^{a,c}

^aDepartment of Orthopedic Surgery, Stanford University, Stanford, CA, USA

^bDepartment of Prosthodontics, Dental Science Research Institute and BK21 Project, School of Dentistry, Chonnam National University, Gwangju, Republic of Korea

^cDepartment of Materials Science and Engineering, Stanford University, Stanford, CA, USA

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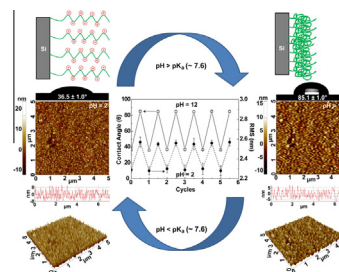


Poly(2-(dimethylamino)ethyl methacrylate) brushes fabricated by surface-mediated RAFT polymerization and their response to pH

Adem Zengin, Gamze Karakose, Tuncer Caykara

Gazi University, Faculty of Science, Department of Chemistry, 06500 Besevler, Ankara, Turkey

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Shear induced orientation of phase segregated block copolymer/ epoxy blends

Leandro Casaban^{a,b}, Martin Kirsten^c, Sven Pegel^c, Pedro M. Carrasco^d, Ignacio Garcia^d, Manfred Stamm^c, José M. Kenny^{a,b}

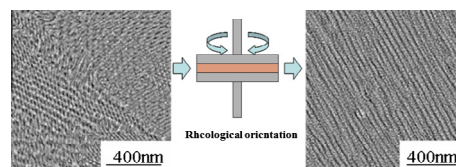
^aUniversity of Perugia, Strada di Pentima 4, 05100 Terni, Italy

^bPolymer Science and Technology Institute, ICTP-CSIC, Juan de la Cierva 3, 28006 Madrid, Spain

^cLeibniz-Institut fuer Polymerforschung Dresden e.V. (IPF), Hohe Strasse 6, 01069 Dresden, Germany

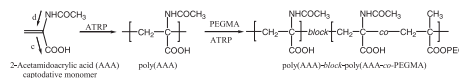
^dNew Materials Department, CIDETEC – Centre for Electrochemical Technologies, Parque Tecnológico de San Sebastian, Paseo Miramon 196, 20009 Donostia – San Sebastian, Spain

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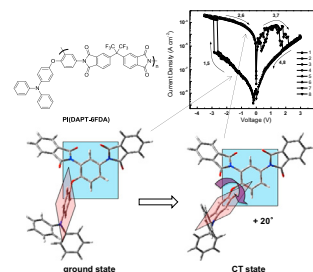
Synthesis of poly(2-acetamidoacrylic acid) and its PEGMA block copolymer via ATRP in water

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Neslihan Kadayıfçıoğlu^a, Havva Yağcı Acar^{a,b}^aGraduate School of Materials Science and Engineering, Koc University, Sariyer-34450, Istanbul, Turkey^bDepartment of Chemistry, Koc University, Sariyer-34450, Istanbul, Turkey

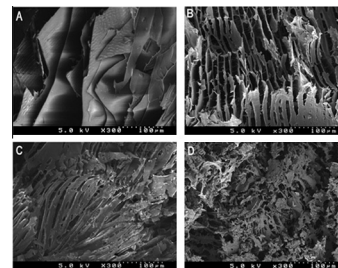
Inducing a high twisted conformation in the polyimide structure by bulky donor moieties for the development of non-volatile memory

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Tadanori Kurosawa^a, An-Dih Yu^b, Tomoya Higashihara^a, Wen-Chang Chen^{b,c}, Mitsuru Ueda^a^aDepartment of Organic and Polymeric Materials, Graduate School of Science and Engineering, Tokyo Institute of Technology, 2-12-1 O-okayama, Meguro-ku, Tokyo 152-8552, Japan^bDepartment of Chemical Engineering, National Taiwan University, Taipei 10617, Taiwan^cInstitute of Polymer Science and Engineering, National Taiwan University, Taipei 10617, Taiwan

Foam-like materials based on whey protein isolate

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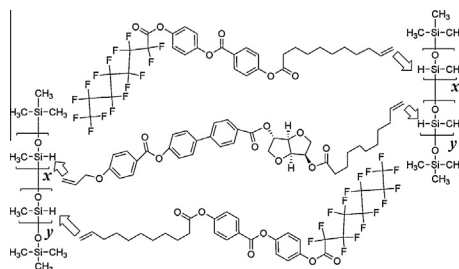
Hong-Bing Chen^{a,b}, Yu-Zhong Wang^a, David A. Schiraldi^b^aCenter for Degradable and Flame-Retardant Polymeric Materials, College of Chemistry, State Key Laboratory of Polymer Materials Engineering, Sichuan University, Chengdu 610064, China^bDepartment of Macromolecular Science and Engineering, Case Western Reserve University, Cleveland, OH 44106-7202, USA

Synthesis and characterization of fluorinated liquid-crystalline elastomers containing chiral liquid-crystalline crosslinking units

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Fan-bao Meng, Chang Du, Nai-yu Zhou, Xiao-Zhi He, Hai-bin Chen

Research Center for Molecular Science and Engineering, Northeastern University, Shenyang 110004, PR China



Polymer chain conformation of copolymers with different monomer size: ^{13}C NMR spectroscopy and MALS studyInmaculada Suárez^a, Simona Losio^b, Baudilio Coto^a^aChemical and Energy Technology Department, ESCET, Universidad Rey Juan Carlos, c/Tulipan s/n, 28933 Mostoles, Madrid, Spain^bIstituto per lo Studio delle Macromolecole (ISMAR-CNR), via E. Bassini 15, 20133 Milan, Italy

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