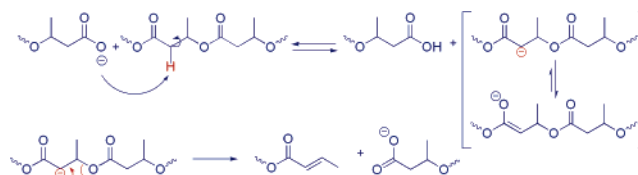


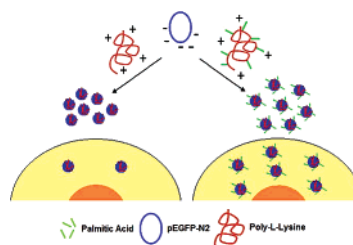
Communications

1053 Carboxylate-Induced Degradation of Poly(3-hydroxybutyrate)s



Michał Kawalec, Grazyna Adamus,
Piotr Kurcok, Marek Kowalczyk,*
Ismaela Foltran, Maria Letizia Focarete, and
Mariastella Scandola*

1059 Palmitic Acid-Modified Poly-L-Lysine for ■ Non-Viral Delivery of Plasmid DNA to Skin Fibroblasts

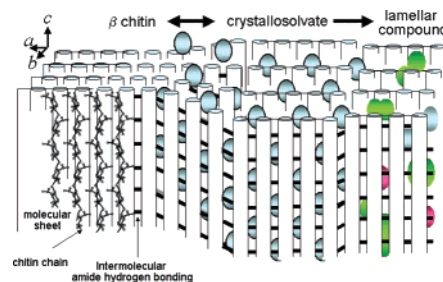


Meysam Abbasi, Hasan Uludağ,*
Vanessa Incani, Cori Olson, Xiaoyue Lin,
Başak Açıkan Clements, Dorothy Rutkowski,
Aziz Ghahary, and Michael Weinfeld

Articles

1064 Formation of a Lamellar Compound by Reaction of Acrylic Acid Crystallosolvated in Highly Crystalline β -Chitin

Yukie Saito,* Youtaro Tomotake, and Satoshi Shida



1069 Hollow Chitosan/Poly(acrylic acid) Nanospheres as Drug Carriers

Yong Hu, Yin Ding, Dan Ding, Mingjie Sun, Leyang Zhang, Xiqun Jiang,* and Changzheng Yang

1077 Poly(propylene fumarate) Bone Tissue Engineering Scaffold Fabrication Using Stereolithography: Effects of Resin Formulations and Laser Parameters

Kee-Won Lee, Shanfeng Wang, Bradley C. Fox, Erik L. Ritman, Michael J. Yaszemski, and Lichun Lu*

1085 Interactions of Collagen Types I and II with Chondroitin Sulfates A–C and Their Effect on Osteoblast Adhesion

Timothy Douglas,* Sascha Heinemann, Carolin Mietrach, Ute Hempel, Susanne Bierbaum, Dieter Scharnweber, and Hartmut Worch

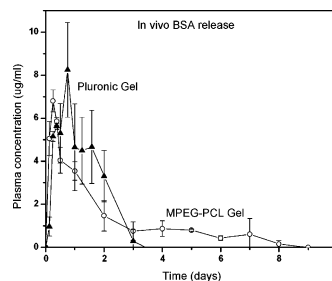
Binding of CS A, B, C to Collagen I fibrils: DMMB

CS:Collagen ratio	CS A (µg/mg fibrils)	CS B (µg/mg fibrils)	CS C (µg/mg fibrils)
1:1.5	~50	~80	~120
1:3	~50	~70	~100
1:6	~40	~50	~70
Control	~0	~0	~0

CDV

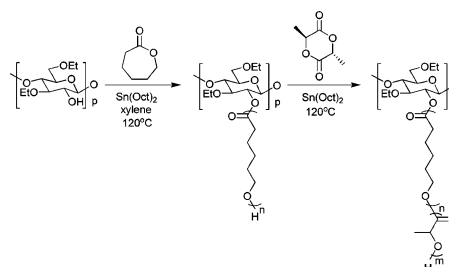
1093 In Vitro and in Vivo Release of Albumin Using a Biodegradable MPEG-PCL Diblock Copolymer as an in Situ Gel-Forming Carrier

Hoon Hyun, Yu Han Kim, In Bum Song, Jung Won Lee, Moon Suk Kim,* Gilson Khang, Kinam Park, and Hai Bang Lee



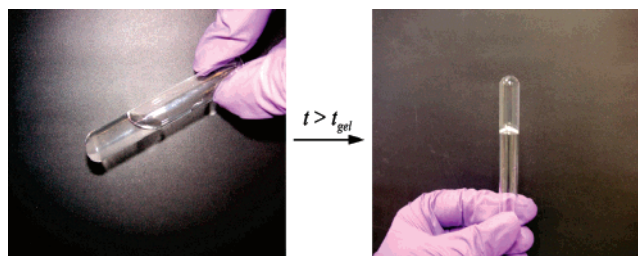
1101 Syntheses, Characterization, and in Vitro Degradation of Ethyl Cellulose-*graft*-poly(ϵ -caprolactone)-*block*-poly(L-lactide) Copolymers by Sequential Ring-Opening Polymerization

Weizhong Yuan, Jinying Yuan,* Fengbo Zhang, and Xuming Xie



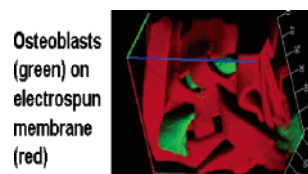
1109 Rheological Characterization of in Situ Crosslinkable Hydrogels Formulated from Oxidized Dextran and *N*-Carboxyethyl Chitosan

Lihui Weng, Xuming Chen, and Weiliam Chen*



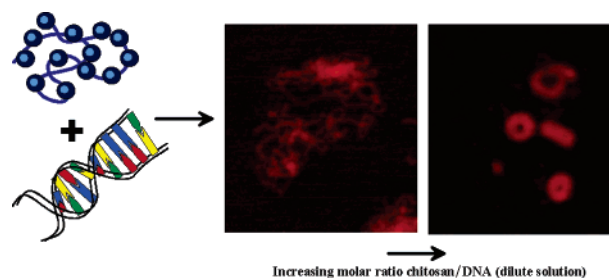
1116 Coating Electrospun Collagen and Gelatin Fibers with Perlecan Domain I for Increased Growth Factor Binding

Cheryl L. Casper, Weidong Yang, Mary C. Farach-Carson,* and John F. Rabolt



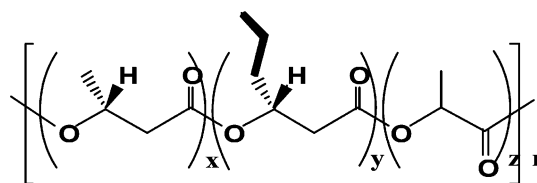
1124 The Influence of Charge Density of Chitosan in the Compaction of the Polyanions DNA and Xanthan

Gjertrud Maurstad, Signe Danielsen, and Bjørn T. Stokke*



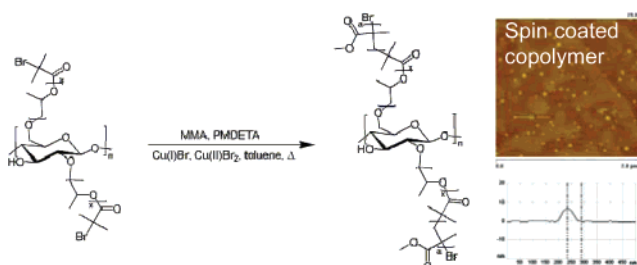
1131 In Situ Copolyesters Containing Poly(L-lactide) and Poly(hydroxyalkanoate) Units

Dahlia Haynes, Nilmini K. Abayasinghe, Graham M. Harrison, Karen J. Burg, and Dennis W. Smith, Jr.*



1138 Comb Polymers Prepared by ATRP from Hydroxypropyl Cellulose

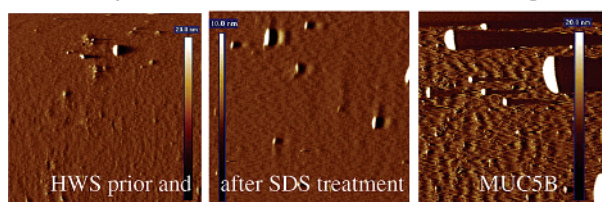
Emma Östmark, Simon Harrisson, Karen L. Wooley, and Eva E. Malmström*



1149 Salivary Mucin MUC5B Could Be an Important Component of in Vitro Pellicles of Human Saliva: An in Situ Ellipsometry and Atomic Force Microscopy Study

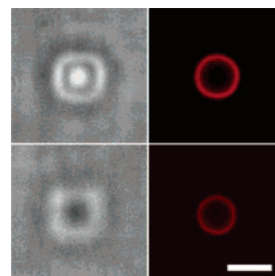
Marité Cárdenas, Ulla Elofsson, and Liselott Lindh*

20 * 20 μm^2 Soft contact mode AFM images



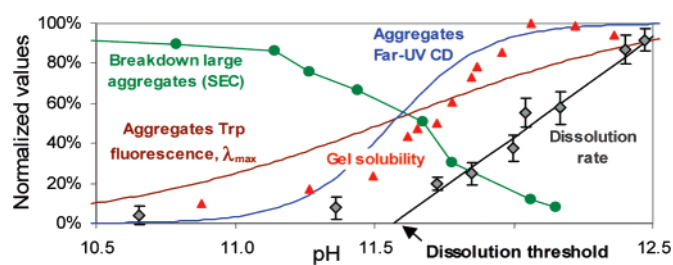
1157 Influence of Ancillary Binding and Nonspecific Adsorption on Bioresponsive Hydrogel Microlenses

Jongseong Kim, Neetu Singh, and L. Andrew Lyon*



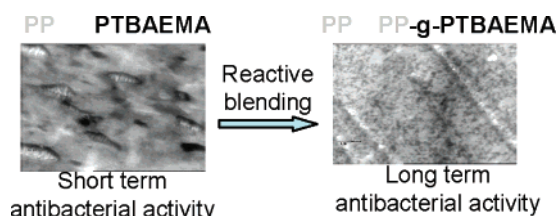
1162 The pH Threshold in the Dissolution of β -Lactoglobulin Gels and Aggregates in Alkali

Ruben Mercadé-Prieto, William R. Paterson, and D. Ian Wilson*



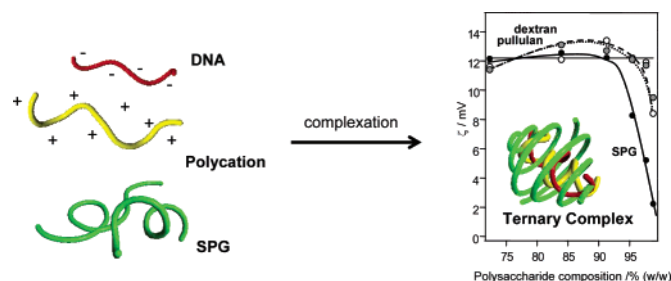
1171 Grafting of Poly[2-(*tert*-butylamino)ethyl methacrylate] onto Polypropylene by Reactive Blending and Antibacterial Activity of the Copolymer

Jean-Michel Thomassin, Sandrine Lenoir, Johan Riga, Robert Jérôme,* and Christophe Detrembleur



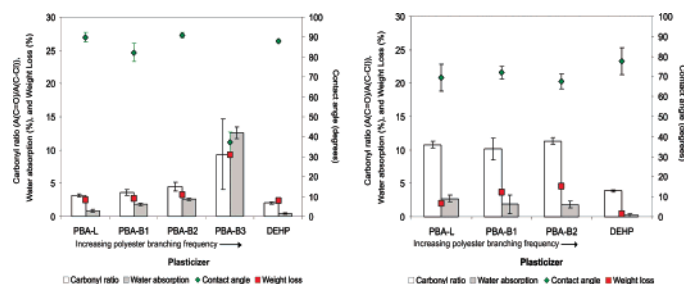
1178 Ternary Complex Consisting of DNA, Polycation, and a Natural Polysaccharide of Schizophyllan to Induce Cellular Uptake by Antigen Presenting Cells

Yoichi Takeda, Naohiko Shimada, Kenji Kaneko, Seiji Shinkai, and Kazuo Sakurai*



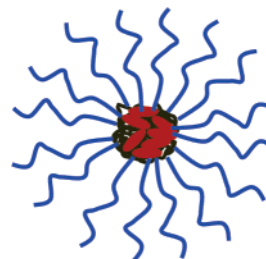
1187 Designed Chain Architecture for Enhanced Migration Resistance and Property Preservation in Poly(vinyl chloride)/Polyester Blends

Annika Lindström and Minna Hakkarainen*



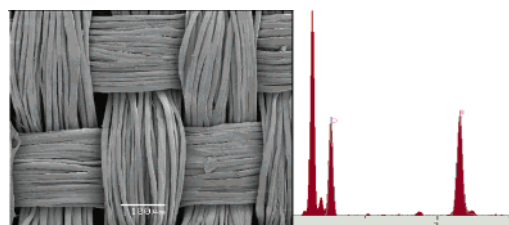
1195 Characterization of the Soluble Nanoparticles Formed through Coulombic Interaction of Bovine Serum Albumin with Anionic Graft Copolymers at Low pH

Evaggelia Serefoglou, Julian Oberdisse, and Georgios Staikos*



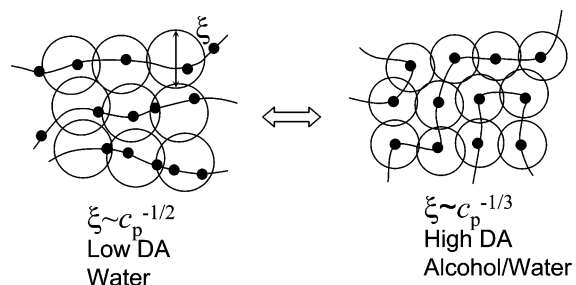
1200 Chemical and Physical Properties of Sulfated Silk Fabrics

P. Taddei, C. Arosio, P. Monti, M. Tsukada, T. Arai, and G. Freddi*



1209 Polyelectrolyte Microstructure in Chitosan Aqueous and Alcohol Solutions

N. Boucard, L. David,* C. Rochas,
A. Montembault, C. Viton, and A. Domard



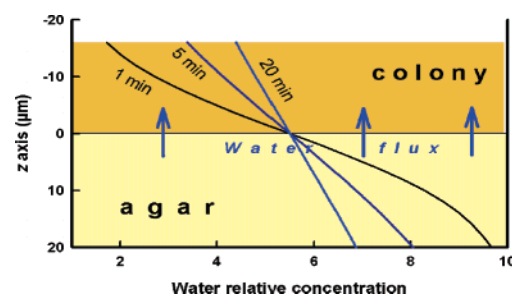
1218 Does Water Activity Rule *P. mirabilis* Periodic Swarming? I. Biochemical and Functional Properties of the Extracellular Matrix

Elodie Lahaye, Thierry Aubry, Nelly Kervarec,
Philippe Douzenel, and Olivier Sire*



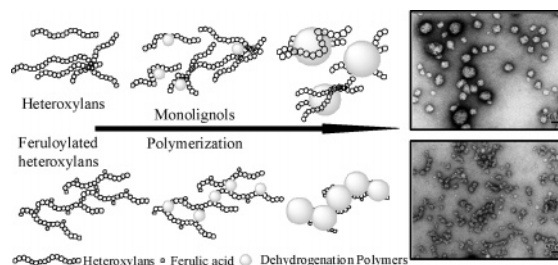
1228 Does Water Activity Rule *P. mirabilis* Periodic Swarming? II. Viscoelasticity and Water Balance during Swarming

Elodie Lahaye, Thierry Aubry,
Vincent Fleury, and Olivier Sire*



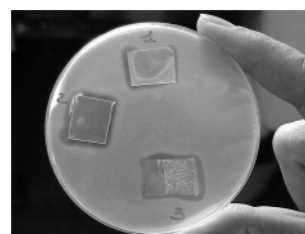
1236 Characterization of Arabinoxylan–Dehydrogenation Polymer (Synthetic Lignin Polymer) Nanoparticles

Abdellatif Barakat, Jean-Luc Putaux,
Luc Saulnier, Brigitte Chabbert, and
Bernard Cathala*



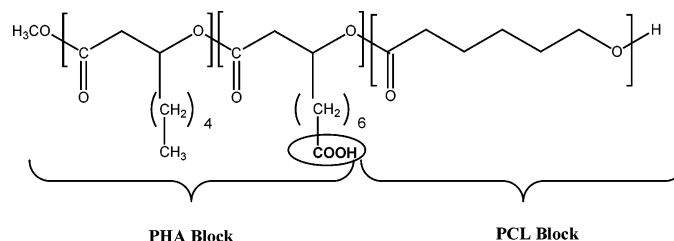
1246 Antibacterial Activity of Plastics Coated with Silver-Doped Organic–Inorganic Hybrid Coatings Prepared by Sol–Gel Processes

M. Marini, S. De Niederhausern, R. Iseppi,
M. Bondi, C. Sabia, M. Toselli, and F. Pilati*



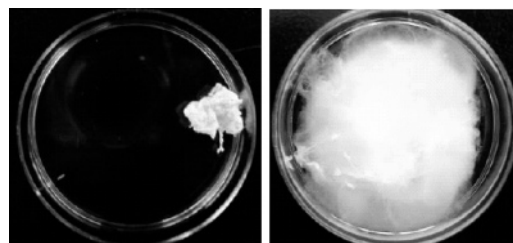
1255 Monohydroxylated Poly(3-hydroxyoctanoate) Oligomers and Its Functionalized Derivatives Used as Macroinitiators in the Synthesis of Degradable Diblock Copolyesters

Laurianne Timbart, Estelle Renard, Martine Tessier, and Valérie Langlois*



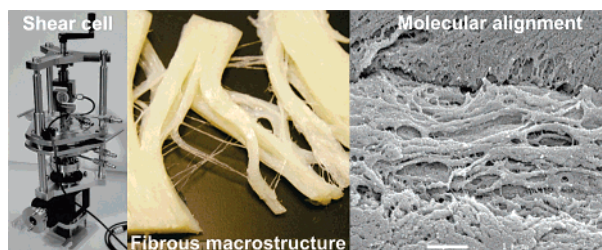
1266 Improving Biocatalytic Activity of Enzyme-Loaded Nanofibers by Dispersing Entangled Nanofiber Structure

Sujith Nair, Jungbae Kim, Brad Crawford, and Seong H. Kim*



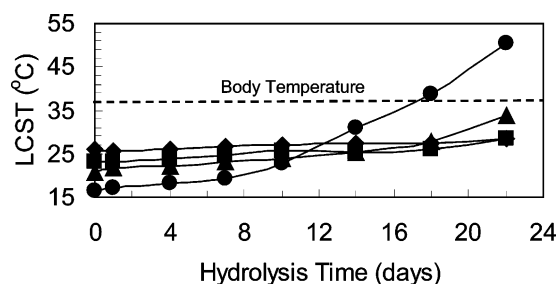
1271 Formation of Fibrous Materials from Dense Calcium Caseinate Dispersions

Julita M. Manski, Atze J. van der Goot,* and Remko M. Boom



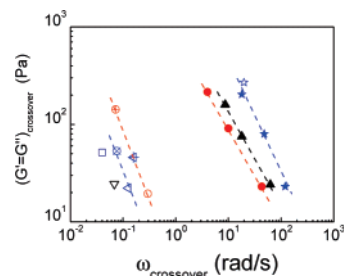
1280 New Hydrolysis-Dependent Thermosensitive Polymer for an Injectable Degradable System

Zhanwu Cui, Bae Hoon Lee, and Brent L. Vernon*



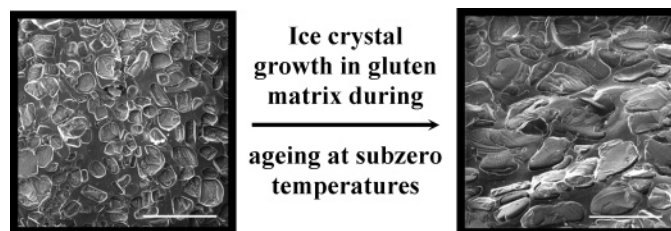
1287 Rheology of Sodium Hyaluronate Saline Solutions for Ophthalmic Use

Daniela Calciu-Rusu,* Ernst Rothfuss, John Eckelt, Tanja Haase, H. Burkhard Dick, and Bernhard A. Wolf



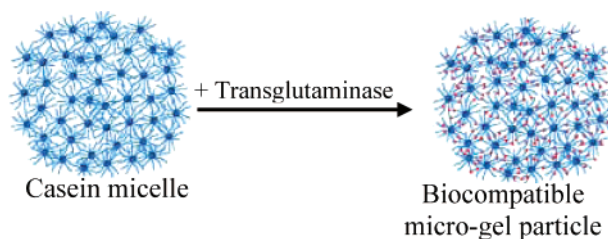
1293 Effect of Aging and Ice Structuring Proteins on the Morphology of Frozen Hydrated Gluten Networks

Vassilis Kontogiorgos, H. Douglas Goff,* and Stefan Kasapis



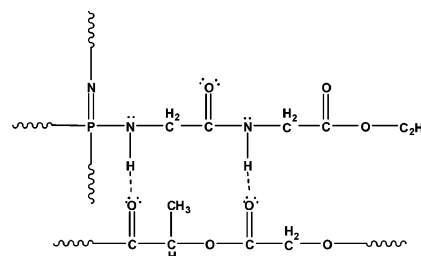
1300 Biocompatible Micro-Gel Particles from Cross-Linked Casein Micelles

Thom Huppertz,* Mary A. Smiddy, and Cornelis G. de Kruif



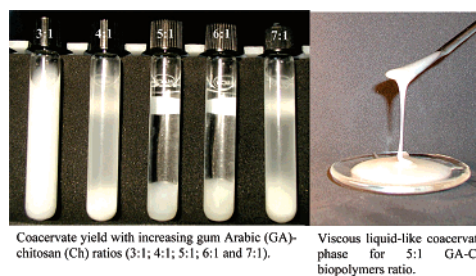
1306 Miscibility of Bioerodible Polyphosphazene/ Poly(lactide-co-glycolide) Blends

Nicholas R. Krogman, Anurima Singh, Lakshmi S. Nair, Cato T. Laurencin, and Harry R. Allcock*



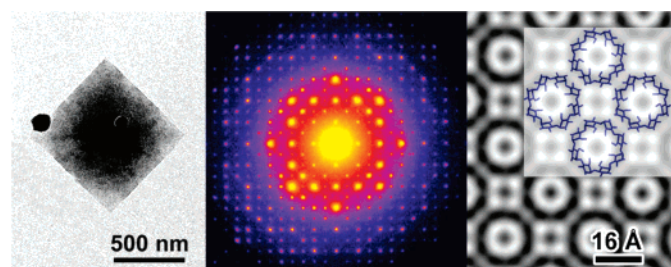
1313 Gum Arabic–Chitosan Complex Coacervation

Hugo Espinosa-Andrews, Juan G. Báez-González, Francisco Cruz-Sosa, and E. Jaime Vernon-Carter*

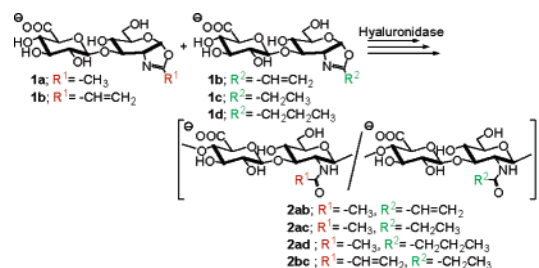


1319 Single Crystals of V-Amylose Complexed with α -Naphthol

Mateus B. Cardoso, Jean-Luc Putaux,* Yoshiharu Nishiyama, William Helbert, Martin Hytch, Nádyá P. Silveira, and Henri Chanzy

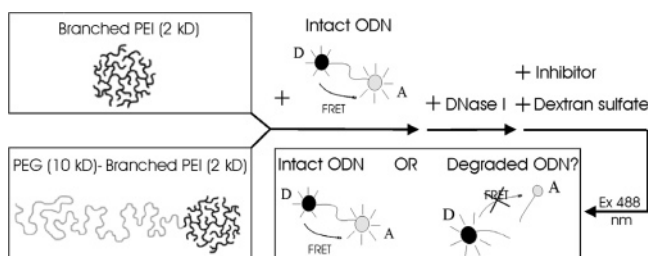


1327 Hyaluronidase-Catalyzed Copolymerization for the Single-Step Synthesis of Functionalized Hyaluronan Derivatives



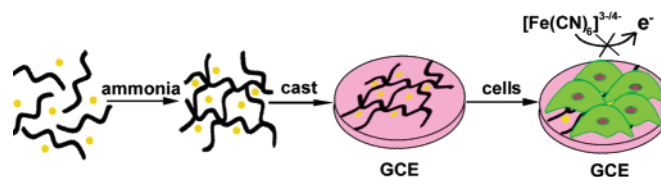
Hirofumi Ochiai, Masashi Ohmae,
 Tomonori Mori, and Shiro Kobayashi*

1333 Protection of Oligonucleotides against Enzymatic Degradation by Pegylated and Nonpegylated Branched Polyethyleneimine



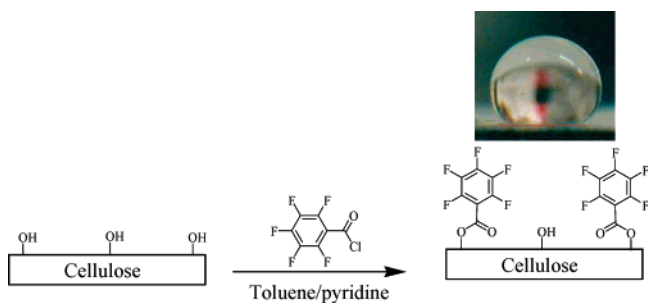
K. Remaut, B. Lucas, K. Raemdonck,
 K. Braeckmans, J. Demeester, and
 S. C. De Smedt*

1341 A Bio-Inspired Support of Gold Nanoparticles–Chitosan Nanocomposites Gel for Immobilization and Electrochemical Study of K562 Leukemia Cells



Lin Ding, Chen Hao, Yadong Xue, and
 Huangxian Ju*

1347 Highly Hydrophobic Biopolymers Prepared by the Surface Pentafluorobenzoylation of Cellulose Substrates

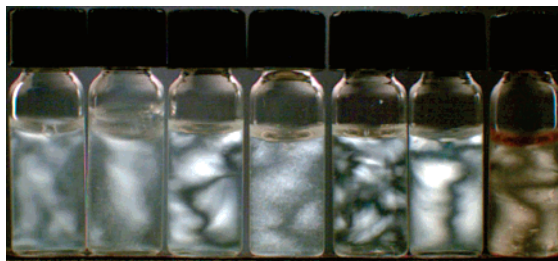


Ana G. Cunha, Carmen S. R. Freire,*
 Armando J. D. Silvestre, Carlos Pascoal Neto,
 Alessandro Gandini, Elina Orblin, and
 Pedro Fardim

Notes

1353 Preparation of Homogeneous Dispersions of Tunicate Cellulose Whiskers in Organic Solvents

Otto van den Berg, Jeffrey R. Capadona, and Christoph Weder*



Additions & Corrections

1358 An Investigation of the Divergence of Major Ampullate Silk Fibers from *Nephila clavipes* and *Argiope aurantia*

Amanda E. Brooks,* Holly B. Steinkraus, Shane R. Nelson, and Randolph V. Lewis

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