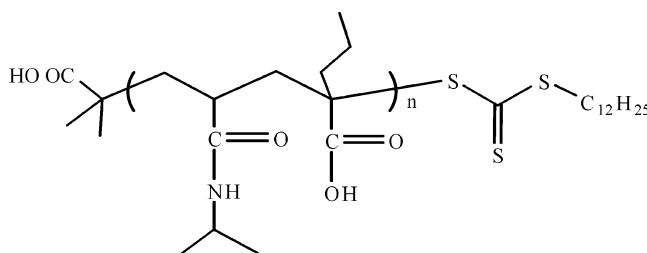


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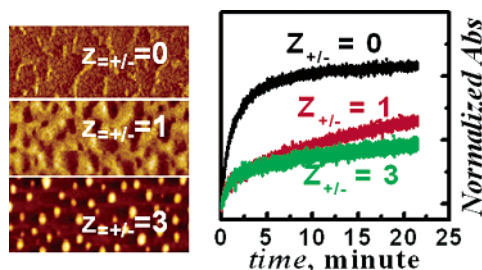
1381 Poly(*N*-isopropylacrylamide-co-propylacrylic acid) Copolymers That Respond Sharply to Temperature and pH

Xiangchun Yin, Allan S. Hoffman, and
Patrick S. Stayton*



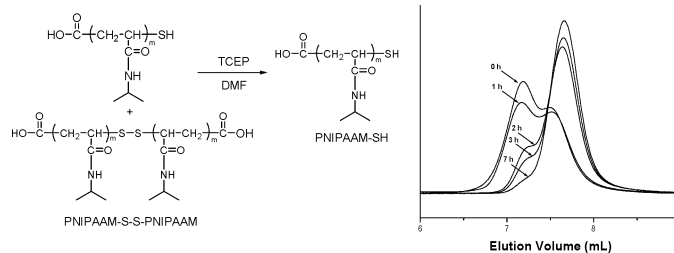
1386 Water Soluble Nanoparticles from PEG-Based Cationic Hyperbranched Polymer and RNA That Protect RNA from Enzymatic Degradation

Jameel Ahmad Khan, Rajesh Kumar Kainthan,
Munia Ganguli,
Jayachandran N. Kizhakkedathu,
Yogendra Singh, and Souvik Maiti*



1389 Fluorescent Labeling of RAFT-Generated Poly(*N*-isopropylacrylamide) via a Facile Maleimide–Thiol Coupling Reaction

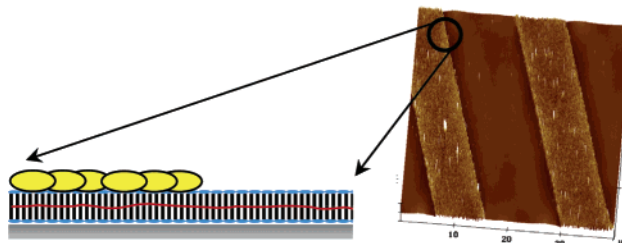
Charles W. Scales, Anthony J. Convertine, and
Charles L. McCormick*



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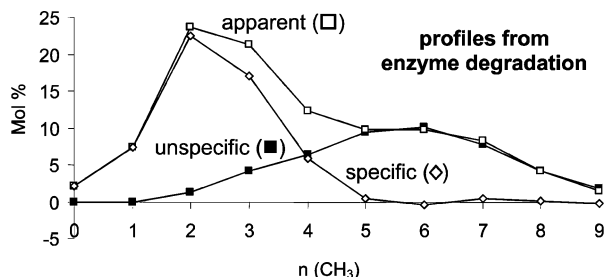
1393 Patterned Protein Films on Poly(lipid) ■ Bilayers by Microcontact Printing

Eric E. Ross, James R. Joubert,
Ronald J. Wysocki, Jr., Ken Nebesny,
Tony Spratt, David F. O'Brien, and
S. Scott Saavedra*



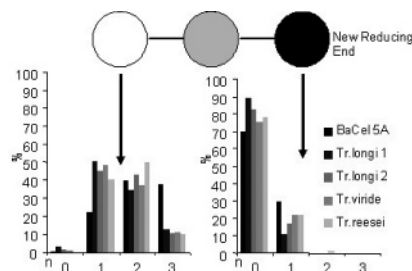
1399 New Approaches to the Analysis of Enzymatically Hydrolyzed Methyl Cellulose. Part 1. Investigation of the Influence of Structural Parameters on the Extent of Degradation

Roland Adden, Claes Melander,
Gunnar Brinkmalm, Lo Gorton, and
Petra Mischnick*



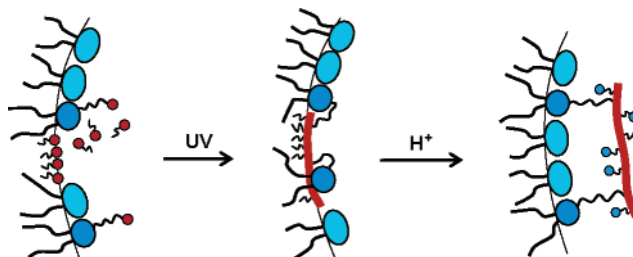
1410 New Approaches to the Analysis of Enzymatically Hydrolyzed Methyl Cellulose. Part 2. Comparison of Various Enzyme Preparations

Claes Melander, Roland Adden,
Gunnar Brinkmalm, Lo Gorton, and
Petra Mischnick*



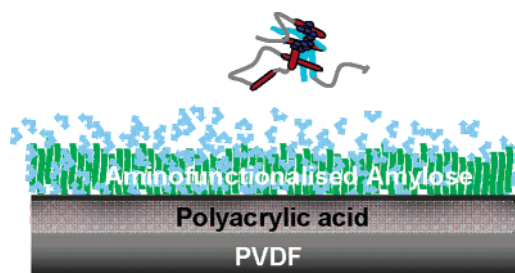
1422 Synthesis of a Polymer Skeleton at the Inner Leaflet of Liposomal Membranes: Polymerization of Membrane-Adsorbed pH-Sensitive Monomers

Dominic Gutmayer, Ralf Thomann,
Udo Bakowsky, and Rolf Schubert*



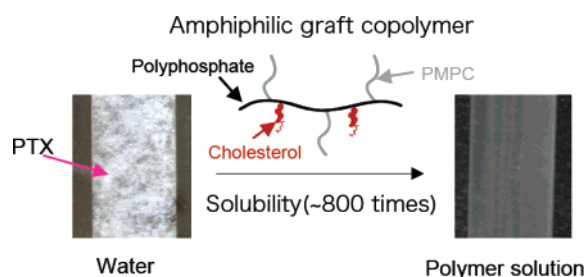
1429 Biocompatible Surface Preparation Using Amino-Functionalized Amylose

Zahida Ademovic, Antje Gonera,
Petra Mischnick, and Doris Klee*



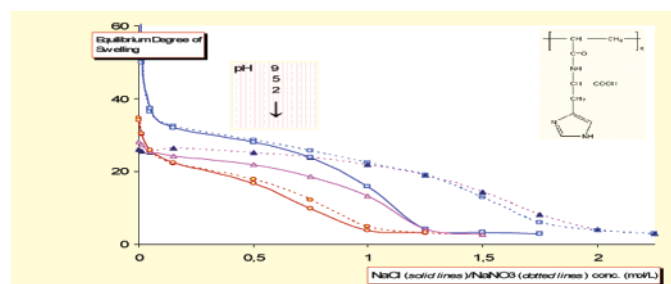
1433 Synthesis and Characterization of Amphiphilic Polyphosphates with Hydrophilic Graft Chains and Cholesteryl Groups as Nanocarriers

Yasuhiko Iwasaki* and Kazunari Akiyoshi



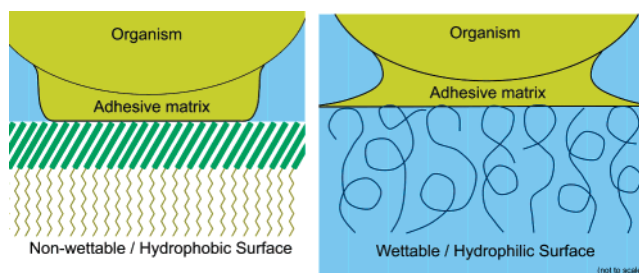
1439 Vinyl Polymers Based on L-Histidine Residues. Part 2. Swelling and Electric Behavior of Smart Poly(ampholyte) Hydrogels for Biomedical Applications

Mario Casolaro,* Severino Bottari, and
Yoshihiro Ito



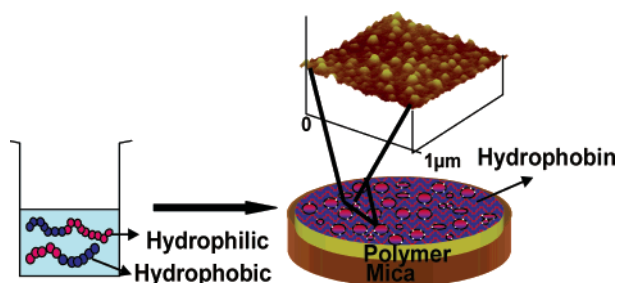
1449 Comparison of the Fouling Release Properties of Hydrophobic Fluorinated and Hydrophilic PEGylated Block Copolymer Surfaces: Attachment Strength of the Diatom *Navicula* and the Green Alga *Ulva*

Sitaraman Krishnan, Nick Wang,
Christopher K. Ober,* John A. Finlay,
Maureen E. Callow, James A. Callow,
Alexander Hexemer, Karen E. Sohn,
Edward J. Kramer, and Daniel A. Fischer



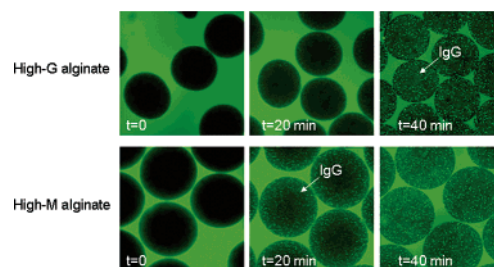
1463 Nanoscale Reduction in Surface Friction of Polymer Surfaces Modified with Sc3 Hydrophobin from *Schizophyllum commune*

Rahul Misra, Jun Li, Gordon C. Cannon, and
Sarah E. Morgan*

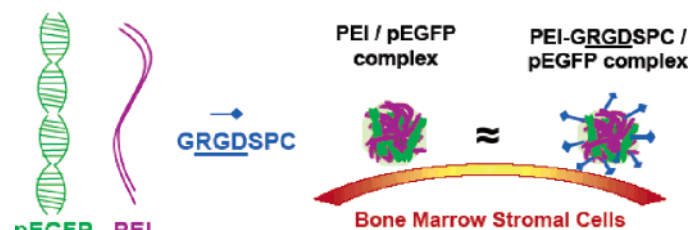


1471 Effect of Ca^{2+} , Ba^{2+} , and Sr^{2+} on Alginate Microbeads

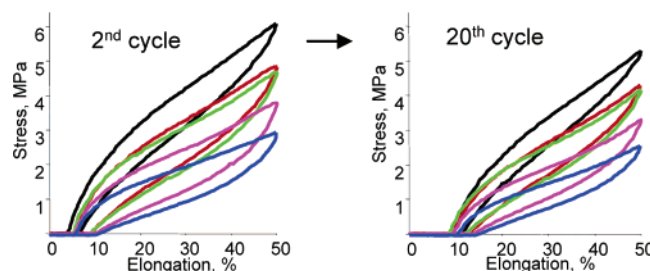
Ýrr A. Mørch,* Ivan Donati, Berit L. Strand, and Gudmund Skjåk-Bræk

**1481 RGD Conjugation to Polyethyleneimine Does Not Improve DNA Delivery to Bone Marrow Stromal Cells**

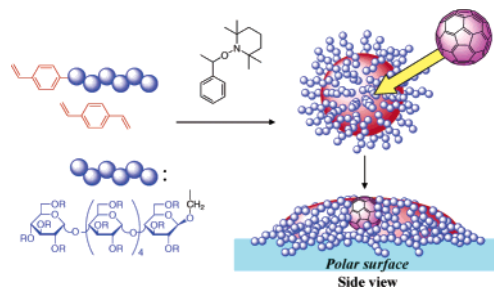
Başak Açıan Clements, Jiang Bai, Cezary Kucharski, Laura-Lee Farrell, Afsaneh Lavasanifar, Bruce Ritchie, Aziz Ghahary, and Hasan Uludağ*

**1489 Resilient Bioresorbable Copolymers Based on Trimethylene Carbonate, L-Lactide, and 1,5-Dioxepan-2-one**

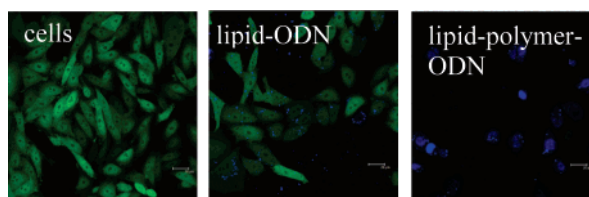
Natalia Andronova and Ann-Christine Albertsson*

**1496 Polystyrene Microgel Amphiphiles with Maltotetraose. Synthesis, Characterization, and Potential Applications**

Atsushi Narumi, Harumi Kaga, Yutaka Miura, Issei Otsuka, Toshifumi Satoh, Noriaki Kaneko, and Toyoji Kakuchi*

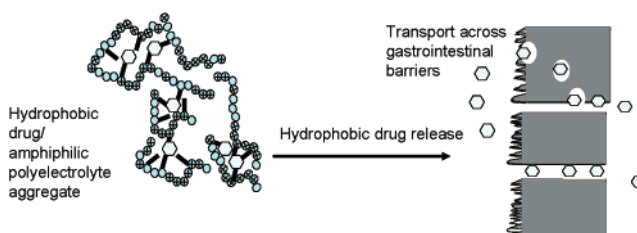
**1502 Poly(propylacrylic acid) Enhances Cationic Lipid-Mediated Delivery of Antisense Oligonucleotides**

Li Kim Lee, Charity L. Williams, David Devore, and Charles M. Roth*



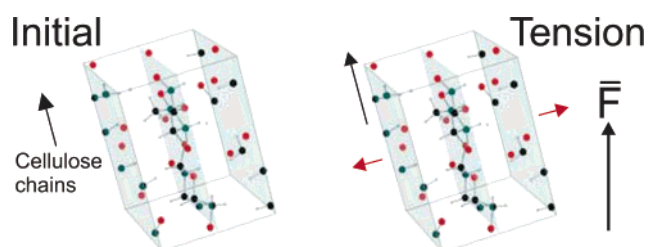
1509 Polyelectrolyte Nanoparticles with High Drug Loading Enhance the Oral Uptake of Hydrophobic Compounds

Woei Ping Cheng, Alexander I. Gray, Laurence Tetley, Thi Le Bich Hang, Andreas G. Schätzlein, and Ijeoma F. Uchegbu*



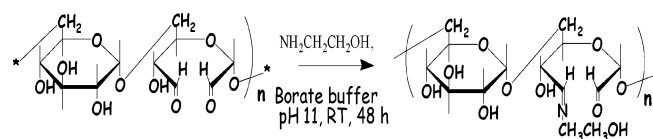
1521 Negative Poisson Ratio of Crystalline Cellulose in Kraft Cooked Norway Spruce

Marko Peura, Ingo Grotkopp, Henrik Lemke, Anne Vikkula, Janne Laine, Martin Müller, and Ritva Serimaa*



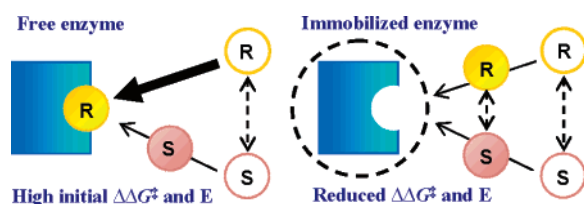
1529 Impact of Aldehyde Content on Amphotericin B–Dextran Imine Conjugate Toxicity

Marina Sokolsky-Papkov and Abraham J. Domb,* and Jacob Golenser



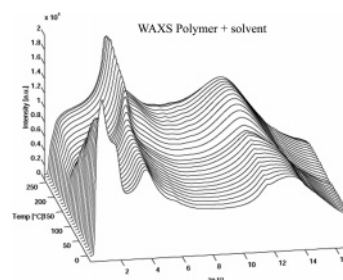
1536 Stereoselective Nitrile Hydrolysis by Immobilized Whole-Cell Biocatalyst

Praveen Kaul, Anirban Banerjee, and Uttam Chand Banerjee*



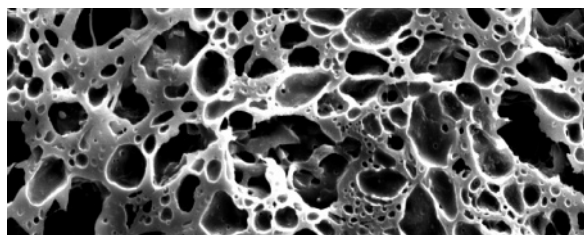
1542 Molecular Blending by Polymerization of Intercalated Solvent. Poly(γ -benzyl-L-glutamate)/Benzyl Methacrylate as a Model System

C. S. J. van Hooy-Corstjens and S. Rastogi*



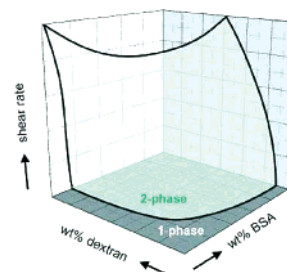
1551 Morphology and Properties of Soy Protein and Polylactide Blends

Jinwen Zhang,* Long Jiang, Linyong Zhu, Jay-lin Jane, and Perminus Mungara



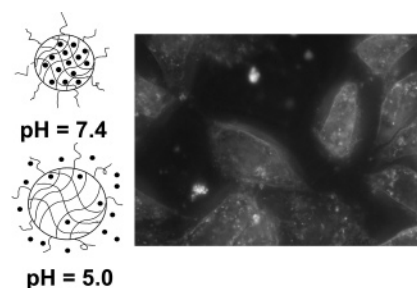
1562 Phase Behavior of Aqueous Solutions of Bovine Serum Albumin in the Presence of Dextran, at Rest, and under Shear

Yurij A. Antonov and Bernhard A. Wolf*



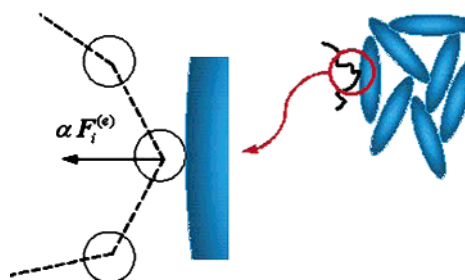
1568 Design of Biocompatible Chitosan Microgels for Targeted pH-Mediated Intracellular Release of Cancer Therapeutics

Hong Zhang, Sawitri Mardiyani, Warren C. W. Chan,* and Eugenia Kumacheva*



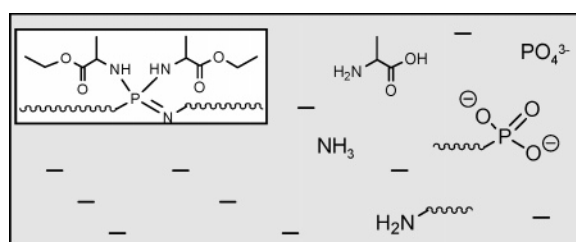
1573 Modeling and Experimental Investigation of Rheological Properties of Injectable Poly(lactide ethylene oxide fumarate)/Hydroxyapatite Nanocomposites

Alireza S. Sarvestani and Esmail Jabbari*



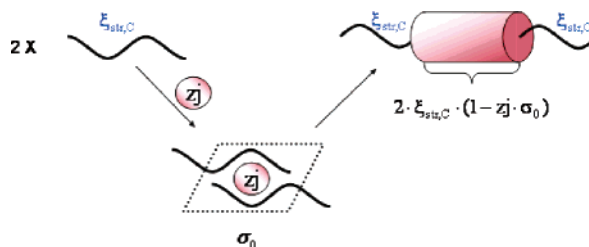
1581 Degradation of Polyaminophosphazenes: Effects of Hydrolytic Environment and Polymer Processing

Alexander K. Andrianov* and Alexander Marin



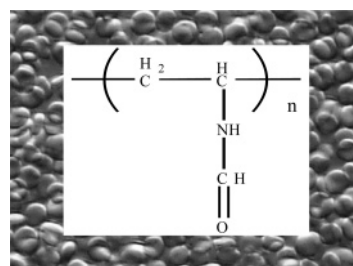
1587 Specific Interactions versus Counterion Condensation. 2. Theoretical Treatment within the Counterion Condensation Theory

Ivan Donati,* Julio C. Benegas,
Attilio Cesàro, and Sergio Paoletti

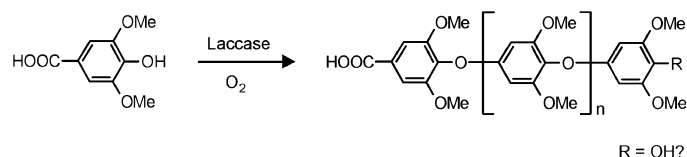


1597 Poly(*N*-vinylformamide)—A Drag-Reducing Polymer for Biomedical Applications

Joie N. Marhefka, Philip J. Marascalco,
Toby M. Chapman, Alan J. Russell, and
Marina V. Kameneva*



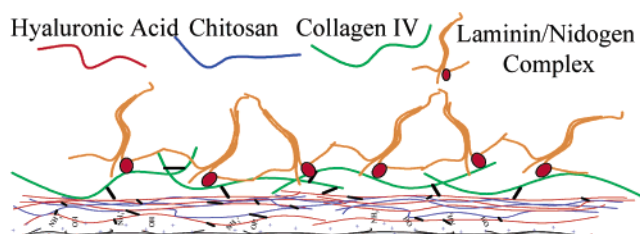
1604 Laccase-Catalyzed Polymerization of Two Phenolic Compounds Studied by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight and Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry with Collision-Induced Dissociation Experiments



Asse Marjasvaara, Mika Torvinen,
Hanne Kinnunen, and Pirjo Vainiotalo*

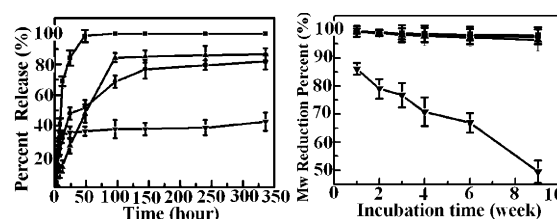
1610 A Blank Slate? Layer-by-Layer Deposition of Hyaluronic Acid and Chitosan onto Various Surfaces

Tristan I. Croll, Andrea J. O'Connor,
Geoffrey W. Stevens, and
Justin J. Cooper-White*



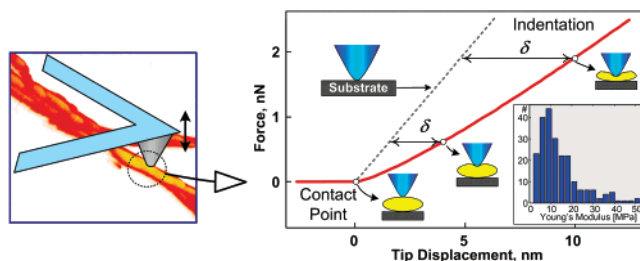
1623 Investigation of Drug Release and Matrix Degradation of Electrospun Poly(DL-lactide) Fibers with Paracetamol Inoculation

Wenguo Cui, Xiaohong Li,* Xinli Zhu, Guo Yu,
Shaobing Zhou, and Jie Weng



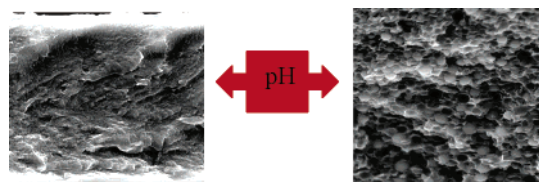
1630 Packing Density and Structural Heterogeneity of Insulin Amyloid Fibrils Measured by AFM Nanoindentation

Senli Guo and Boris B. Akhremitchev*



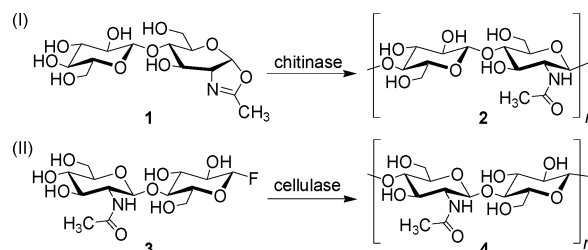
1637 Design of Mucoadhesive Polymeric Films Based on Blends of Poly(acrylic acid) and (Hydroxypropyl)cellulose

Artem V. Dubolazov, Zauresh S. Nurkeeva, Grigoriy A. Mun, and Vitaliy V. Khutoryanskiy*



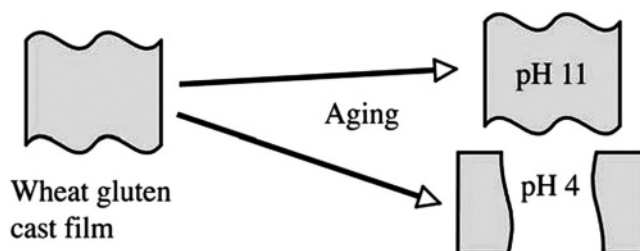
1644 Enzymatic Polymerization to Novel Polysaccharides Having a Glucose-*N*-acetylglucosamine Repeating Unit, a Cellulose–Chitin Hybrid Polysaccharide

Shiro Kobayashi,* Akira Makino, Hironori Matsumoto, Shigeru Kunii, Masashi Ohmae, Toshitsugu Kiyosada, Ken Makiguchi, Akira Matsumoto, Michinobu Horie, and Shin-Ichiro Shoda



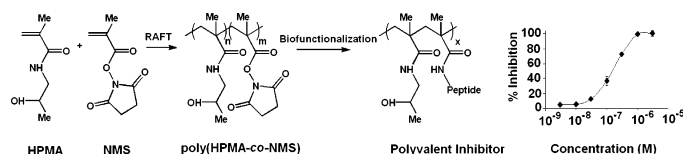
1657 Aging Properties of Films of Plasticized Vital Wheat Gluten Cast from Acidic and Basic Solutions

Idoia Olabarrieta, Sung-Woo Cho, Mikael Gällstedt, Jose-Ramon Sarasua, Eva Johansson, and Mikael S. Hedenqvist*



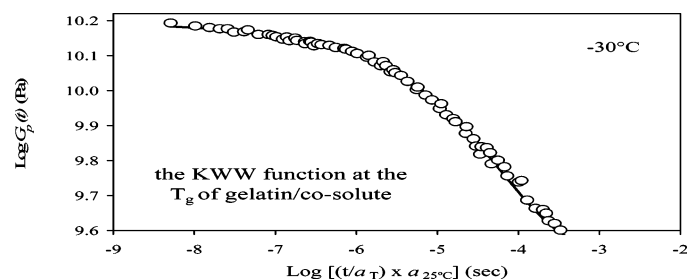
1665 Synthesis of Copolymers Containing an Active Ester of Methacrylic Acid by RAFT: Controlled Molecular Weight Scaffolds for Biofunctionalization

Mallinamadugu J. Yanjarappa, Kunal V. Gujrati, Amit Joshi, Arundhati Saraph, and Ravi S. Kane*



1671 Building on the WLF/Free Volume Framework: Utilization of the Coupling Model in the Relaxation Dynamics of the Gelatin/Cosolute System

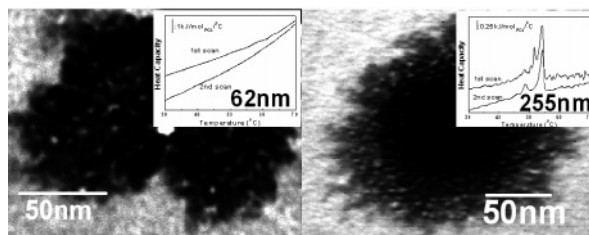
Stefan Kasapis*



Notes

1679 Effect of Particle Size, Composition, and Thermal Treatment on the Crystalline Structure of Polycaprolactone Nanoparticles

Eun Chul Cho,* Kilwon Cho, Jong Kun Ahn, Junoh Kim, and Ih-Seop Chang



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