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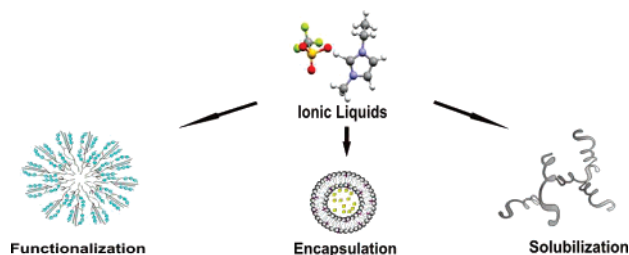
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Reviews

2629 Applications of Ionic Liquids in ■ Carbohydrate Chemistry: A Window of Opportunities

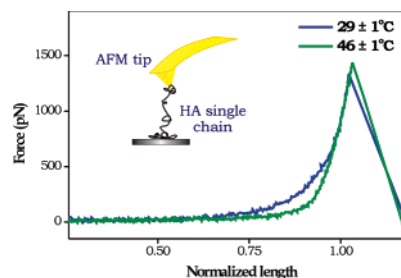
Omar A. El Seoud,* Andreas Koschella,
Ludmila C. Fidale, Susann Dorn, and
Thomas Heinze



Communications

2648 Force Spectroscopy of Hyaluronan by Atomic Force Microscopy: From Hydrogen-Bonded Networks toward Single-Chain Behavior

Marina I. Giannotti, Marguerite Rinaudo,* and
G. Julius Vancso*

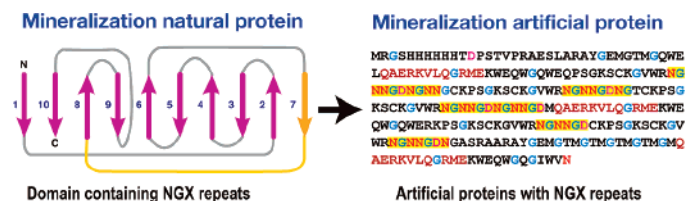


2653 Efficient Synthesis of Linear Multifunctional Poly(ethylene glycol) by Copper(I)-Catalyzed Huisgen 1,3-Dipolar Cycloaddition



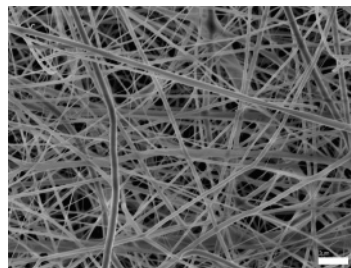
Xin-Ming Liu, Ashish Thakur, and Dong Wang*

2659 A Synthesis Approach to Understanding Repeated Peptides Conserved in Mineralization Proteins



Kiyotaka Shiba* and Tamiko Minamisawa

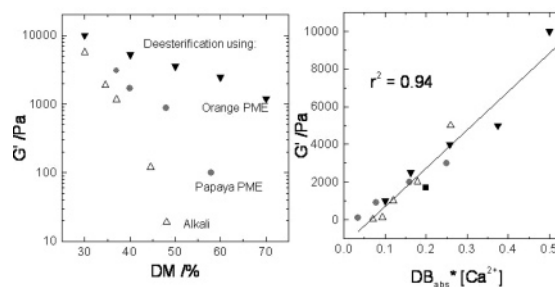
2665 One-Step Electrospinning of Cross-Linked Chitosan Fibers



Jessica D. Schiffman and Caroline L. Schauer*

Articles

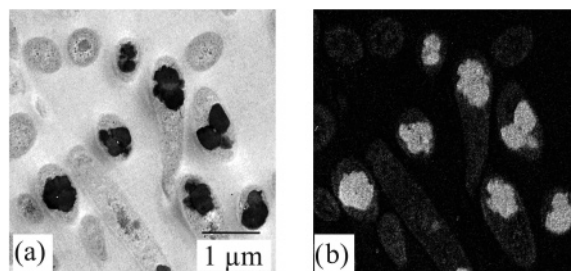
2668 Influence of Pectin Fine Structure on the Mechanical Properties of Calcium–Pectin and Acid–Pectin Gels



Anna Ström,* Pascual Ribelles, Leif Lundin, Ian Norton, Edwin R. Morris, and Martin A. K. Williams

2675 Identification and Localization of Cyanophycin in Bacteria Cells via Imaging of the Nitrogen Distribution Using Energy-Filtering Transmission Electron Microscopy

Anne Koop, Ingo Voss, Andreas Thesing, Helmut Kohl, Rudolf Reichelt, and Alexander Steinbüchel*



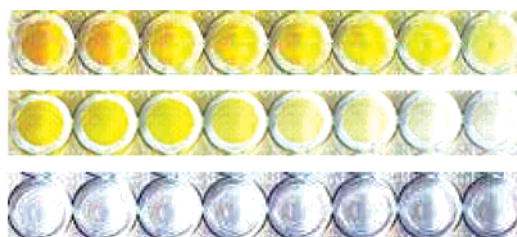
2684 Novel Enzymatic Properties of DNA–Pt Complexes

Yuki Matsuoka, Toru Onodera, Toshinori Kojima, Yung Chang, Wen-Yih Chen, Takanobu Imanaka, Hisashi Fukushima, and Akon Higuchi*

HRP

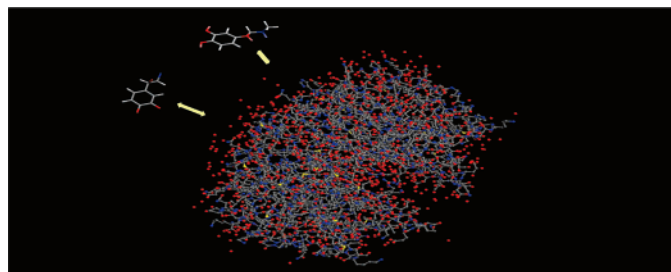
DNA-Pt

DNA



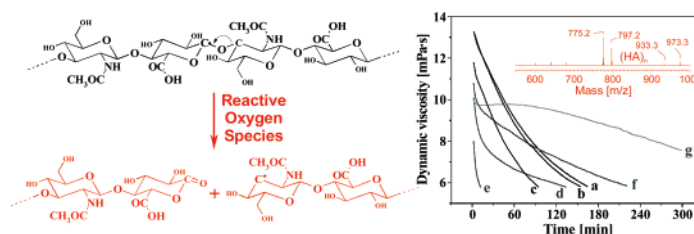
2689 Fibrinogen–Catecholamine Interaction as Observed by NMR and Fourier Transform Infrared Spectroscopy

Silvia Martini, Marco Consumi, Claudia Bonechi, Claudio Rossi, and Agnese Magnani*



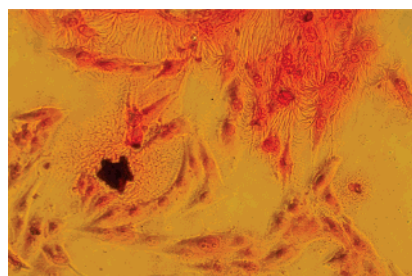
2697 Degradation of High-Molar-Mass Hyaluronan and Characterization of Fragments

L. Šoltés, G. Kogan,* M. Stankovská, R. Mendíchi, J. Rychlý, J. Schiller, and P. Gemeiner



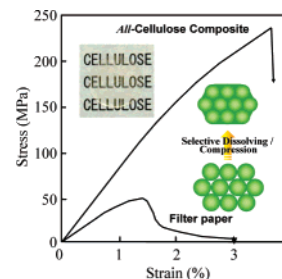
2706 A New Class of Bioactive and Biodegradable Soybean-Based Bone Fillers

Matteo Santin,* Christopher Morris, Guy Standen, Luigi Nicolais, and Luigi Ambrosio



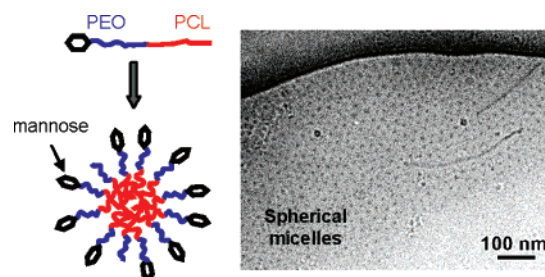
2712 All-Cellulose Composite Prepared by Selective Dissolving of Fiber Surface

Takashi Nishino* and Noriko Arimoto



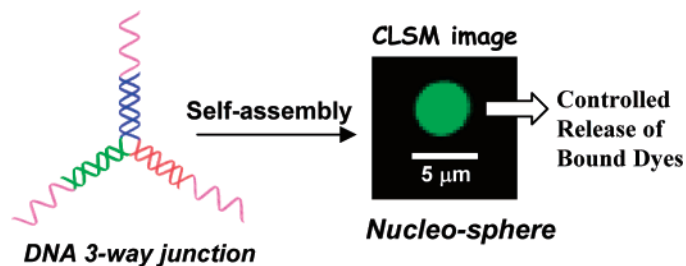
2717 Mannosylated Poly(ethylene oxide)-*b*-Poly(ϵ -caprolactone) Diblock Copolymers: Synthesis, Characterization, and Interaction with a Bacterial Lectin

Jutta Rieger, Francois Stoffelbach, Di Cui, Anne Imbert, Emilie Lameignere, Jean-Luc Putaux, Robert Jérôme, Christine Jérôme, and Rachel Auzély-Velty*



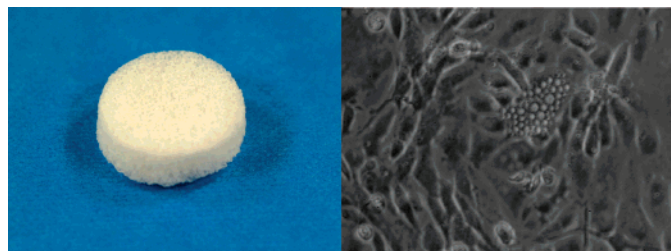
2726 In Situ Observation of Spherical DNA Assembly in Water and the Controlled Release of Bound Dyes

Kazunori Matsuura,* Kouzo Masumoto, Yuuko Igami, Tatsuro Fujioka, and Nobuo Kimizuka



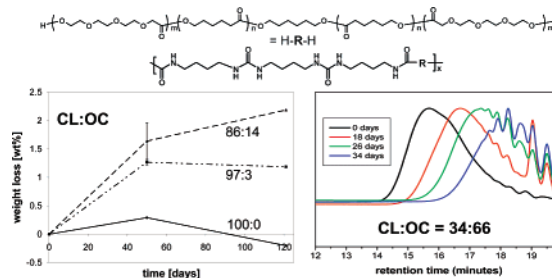
2733 Analysis of the Cellular Infiltration of Benzyl-Esterified Hyaluronan Sponges Implanted in Rats

Nicholas P. Rhodes,* Chiara Di Bartolo, and John A. Hunt



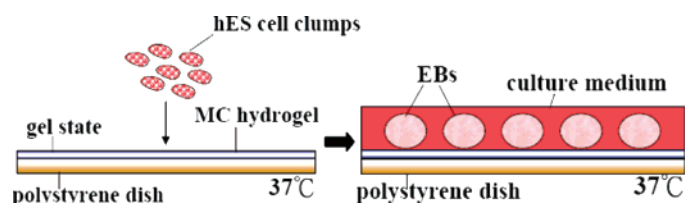
2739 Poly(caprolactone-co-oxo-crown ether)-Based Poly(urethane)urea for Soft Tissue Engineering Applications

Eva Wisse, Raymond A. E. Renken, Jorg R. Roosma, Anja R. A. Palmans, and E. W. Meijer*



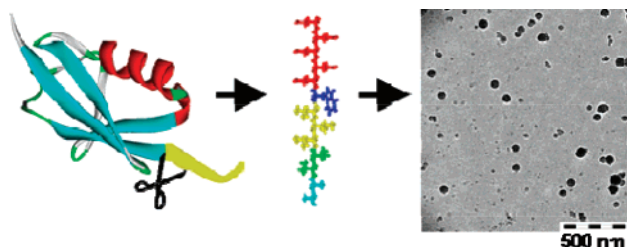
2746 Novel Method of Forming Human Embryoid Bodies in a Polystyrene Dish Surface-Coated with a Temperature-Responsive Methylcellulose Hydrogel

Mei-Ju Yang, Chun-Hung Chen, Pei-Ju Lin, Chih-Hao Huang, Wannhsin Chen,* and Hsing-Wen Sung*



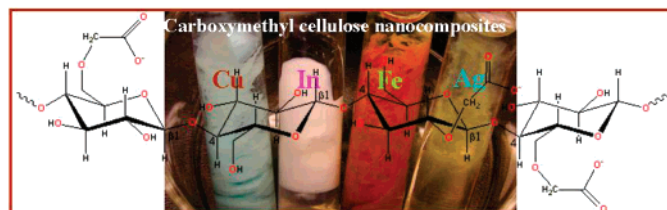
2753 Self-Assembly of Recombinant Amphiphilic Oligopeptides into Vesicles

Albert J. van Hell, Cristina I. C. A. Costa, Frits M. Flesch, Marc Sutter, Wim Jiskoot, Daan J. A. Crommelin, Wim E. Hennink, and Enrico Mastrobattista*



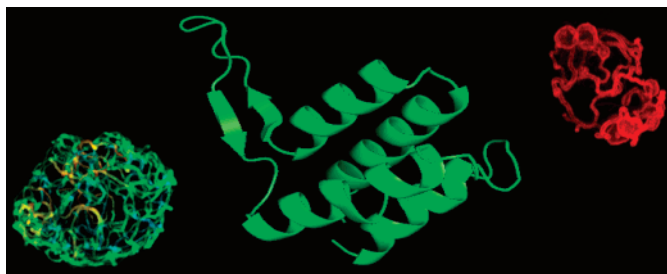
2762 Synthesis of Thermally Stable Carboxymethyl Cellulose/Metal Biodegradable Nanocomposites for Potential Biological Applications

Mallikarjuna N. Nadagouda and Rajender S. Varma*



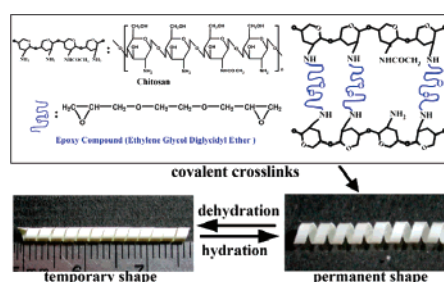
2768 A Model for the Structure of the C-Terminal Domain of Dragline Spider Silk and the Role of Its Conserved Cysteine

Shmulik Ittah, Amit Michaeli, Amiram Goldblum, and Uri Gat*



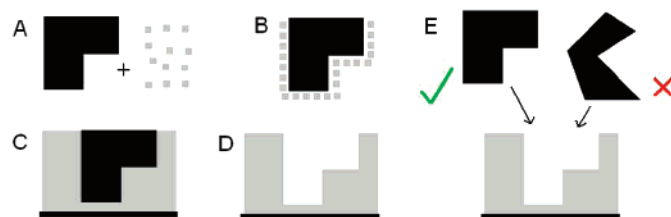
2774 Rapidly Self-Expandable Polymeric Stents with a Shape-Memory Property

Mei-Chin Chen, Hung-Wen Tsai, Yen Chang, Wei-Yun Lai, Fwu-Long Mi, Chin-Tang Liu, Hen-Sheng Wong, and Hsing-Wen Sung*

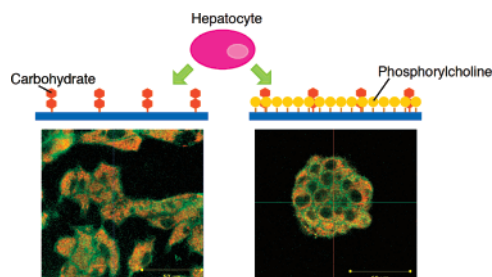


2781 Recognition of Conformational Changes in β -Lactoglobulin by Molecularly Imprinted Thin Films

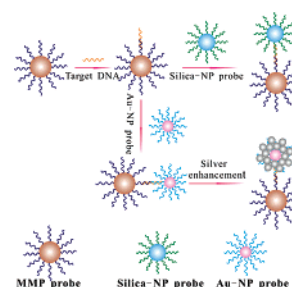
Nicholas W. Turner, Xiao Liu, Sergey A. Piletsky, Vladimir Hlady,* and David W. Britt*


2788 Selective Biorecognition and Preservation of Cell Function on Carbohydrate-Immobilized Phosphorylcholine Polymers

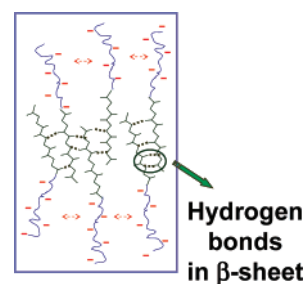
Yasuhiko Iwasaki,* Utae Takami, Yurika Shinohara, Kimio Kurita, and Kazunari Akiyoshi


2795 A Nanoparticle-Based Solution DNA Sandwich Assay Using ICP-AES for Readout

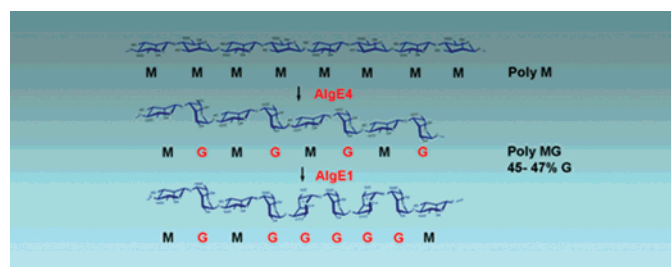
Linlin Wu, Liwen Qiu, Chunsheng Shi, and Jin Zhu*


2801 Poly(acrylic acid)-*block*-poly(L-valine): Evaluation of β -Sheet Formation and Its Stability Using Circular Dichroism Technique

A. Sinaga, T. A. Hatton, and K. C. Tam*

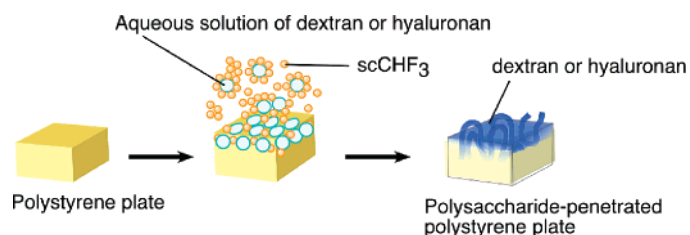

2809 Molecular Engineering as an Approach to Design New Functional Properties of Alginate

Ý. A. Mørch,* I. Donati, B. L. Strand, and G. Skjåk-Bræk



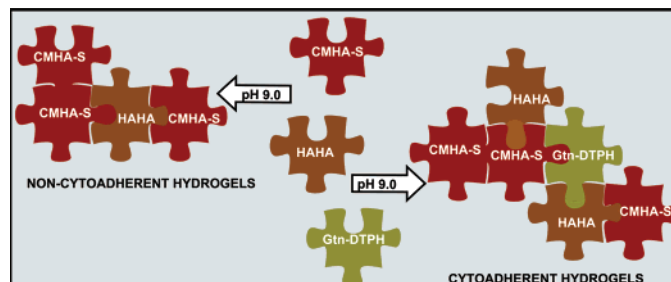
2815 Nanometer-Scale Immobilization of Polysaccharides on Hydrophobic Polymer Plates in Supercritical Fluoroform/Water Emulsions

Toshiaki Mori, Yoshimi Sekine, Mirei Hasegawa, and Yoshio Okahata*



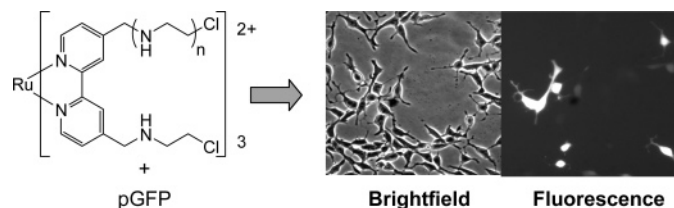
2821 Synthesis of Hyaluronan Haloacetates and Biology of Novel Cross-Linker-Free Synthetic Extracellular Matrix Hydrogels

Monica A. Serban and Glenn D. Prestwich*



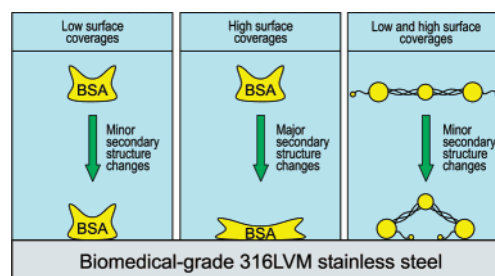
2829 Ruthenium(II) Tris(bipyridine)-Centered Poly(ethylenimine) for Gene Delivery

Gina L. Fiore, James M. Edwards, Sarah J. Payne, Jessica L. Klinkenberg, Daniel G. Gioeli, J. N. Demas, and Cassandra L. Fraser*



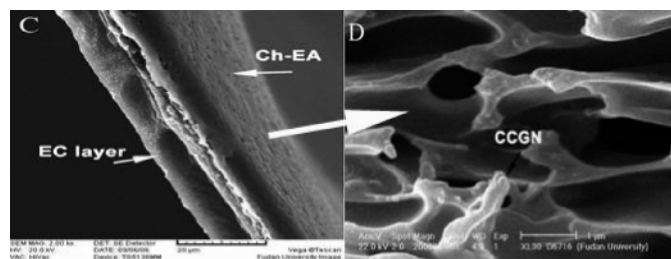
2836 PM-IRRAS Investigation of the Interaction of Serum Albumin and Fibrinogen with a Biomedical-Grade Stainless Steel 316LVM Surface

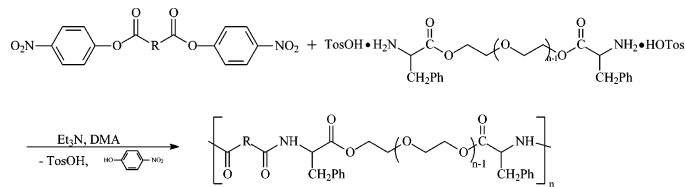
Marie J. Desroches, Nida Chaudhary, and Sasha Omanovic*



2845 Nanoparticles Incorporated in Bilaminated Films: A Smart Drug Delivery System for Oral Formulations

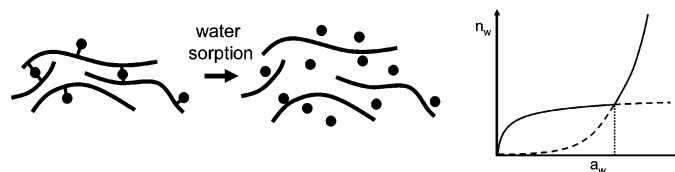
Fuying Cui, Chunbai He, Lichen Yin, Feng Qian, Miao He, Cui Tang, and Chunhua Yin*



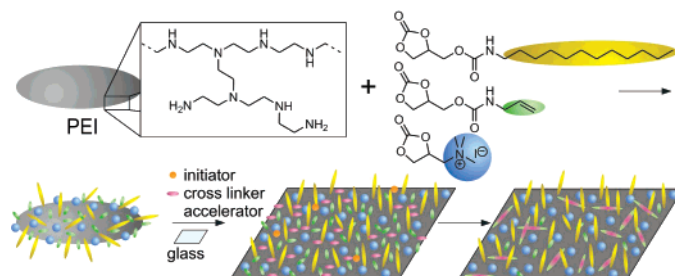
2851 Synthesis, Characterization, and Biodegradation of Novel Poly(ether ester amide)s Based on L-Phenylalanine and Oligoethylene Glycol


When R is (C₂H₄)₂, AP2EG (n=2); AP3EG (n=3); AP4EG (n=4)
 When R is (C₂H₄)₄, SP2EG (n=2); SP3EG (n=3); SP4EG (n=4)
 When R is (C₂H₂)₄, FP2EG (n=2); FP3EG (n=3); FP4EG (n=4)

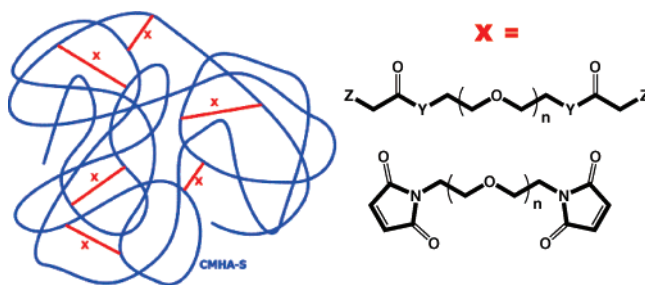
Kai Guo and C. C. Chu*

2862 Sorption of Water by Bidisperse Mixtures of Carbohydrates in Glassy and Rubbery States


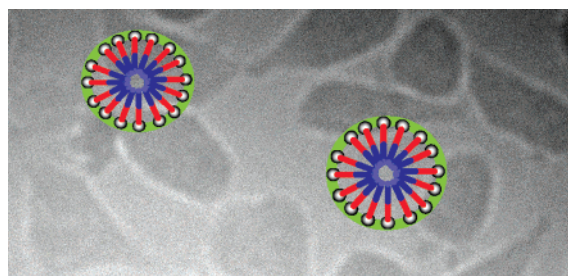
Job Ubbink,* Maria-Isabelle Giardiello, and Hans-Jörg Limbach

2874 From Multifunctionalized Poly(ethylene imine)s toward Antimicrobial Coatings


Nicolas Pasquier, Helmut Keul, Elisabeth Heine, and Martin Moeller*

2883 Synthesis and Characterization of Novel Thiol-Reactive Poly(ethylene glycol) Cross-Linkers for Extracellular-Matrix-Mimetic Biomaterials


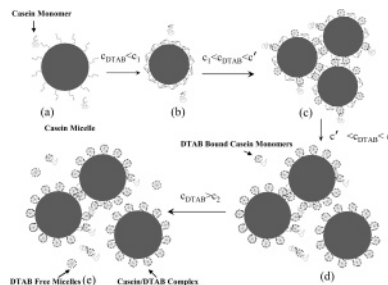
Janssen L. Vanderhooft, Brenda K. Mann, and Glenn D. Prestwich*

2890 Shell-Cross-Linked Micelles Containing Cationic Polymers Synthesized via the RAFT Process: Toward a More Biocompatible Gene Delivery System


Ling Zhang, T. L. Uyen Nguyen, Julien Bernard, Thomas P. Davis, Christopher Barner-Kowollik, and Martina H. Stenzel*

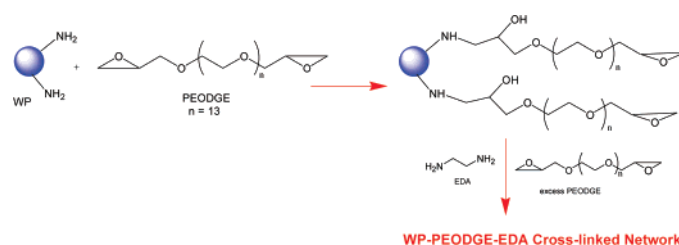
2902 Interaction between Casein and the Oppositely Charged Surfactant

Yan Liu and Rong Guo*



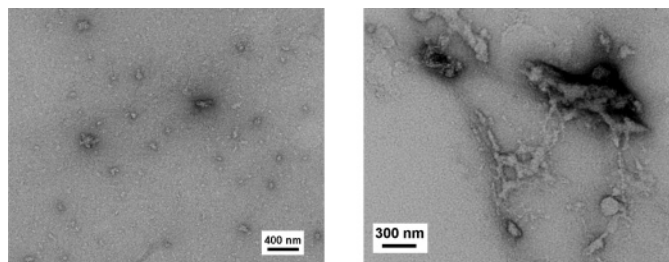
2909 Chemical Modification of Wheat Protein-Based Natural Polymers: Grafting and Cross-Linking Reactions with Poly(ethylene oxide) Diglycidyl Ether and Ethyl Diamine

Lusiana Kurniawan, Greg G. Qiao,* and Xiaoqing Zhang*



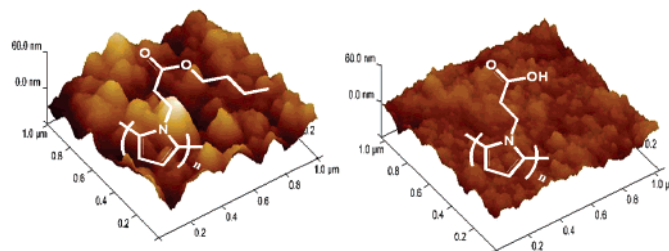
2916 Polymer Grafting onto Starch Nanocrystals

Marianne Labet, Wim Thielemans, and Alain Dufresne*



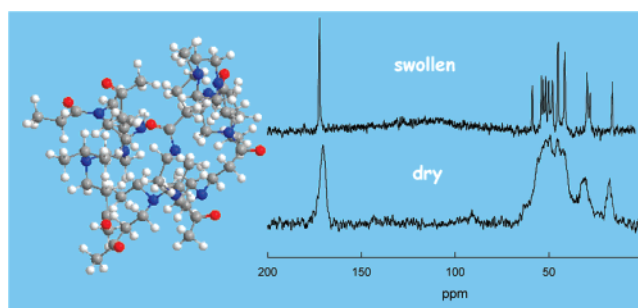
2928 Electrochemical Formation and Characterization of Copolymers Based on N-Pyrrole Derivatives

Regina Okner, Abraham J. Domb, and Daniel Mandler*

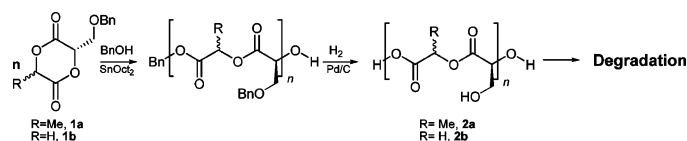


2936 Water/Polymer Interactions in a Poly(amidoamine) Hydrogel Studied by NMR Spectroscopy

Lucia Calucci, Claudia Forte,* and Elisabetta Ranucci

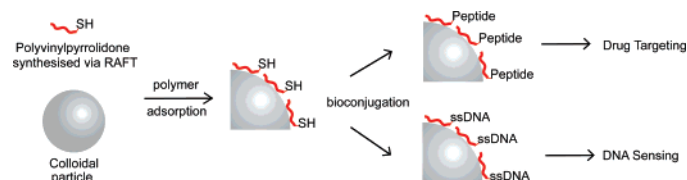


2943 In Vitro Hydrolytic Degradation of Hydroxyl-Functionalized Poly(α -hydroxy acid)s



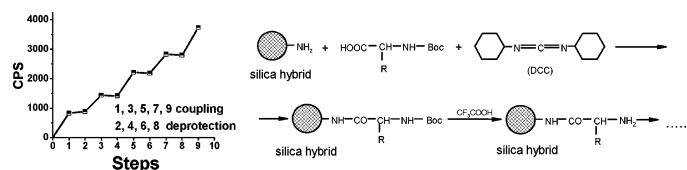
Mark Leemhuis, John A. W. Kruijter,
Cornelus F. van Nostrum, and
Wim E. Hennink*

2950 Poly(vinylpyrrolidone) for Bioconjugation and Surface Ligand Immobilization



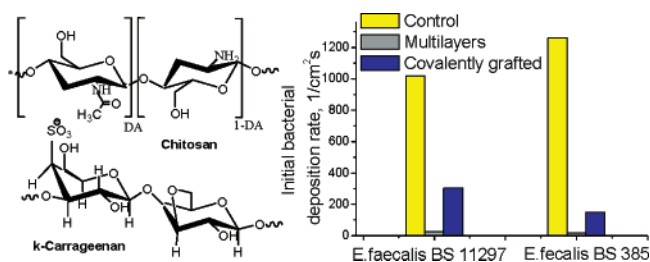
Alexander N. Zelikin,* Georgina K. Such,
Almar Postma, and Frank Caruso

2954 Synthesis and Characterization of Novel Organic/Inorganic Hybrid Material with Short Peptide Brushes Generated on the Surface



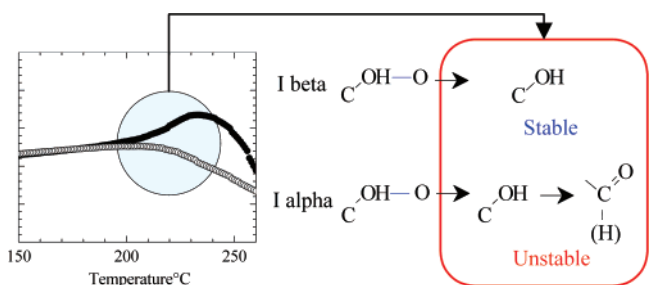
Florin Bucatariu, Ecaterina Stela Dragan,* and
Frank Simon

2960 Adhesion and Viability of Two Enterococcal Strains on Covalently Grafted Chitosan and Chitosan/ κ -Carrageenan Multilayers



S. Bratskaya,* D. Marinin, F. Simon,
A. Synytska, S. Zschoche, H. J. Busscher,
D. Jager, and H. C. van der Mei

2969 Temperature-Dependent Changes in Hydrogen Bonds in Cellulose I α Studied by Infrared Spectroscopy in Combination with Perturbation-Correlation Moving-Window Two-Dimensional Correlation Spectroscopy: Comparison with Cellulose I β



Akihiko Watanabe, Shigeaki Morita, and
Yukihiro Ozaki*

Notes

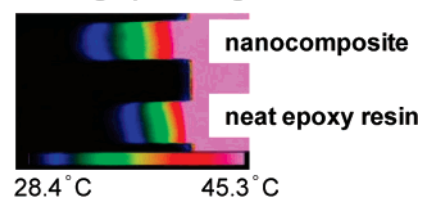
2976 Excellent Thermal Conductivity of Transparent Cellulose Nanofiber/Epoxy Resin Nanocomposites

Yuzuru Shimazaki,* Yasuo Miyazaki, Yoshitaka Takezawa, Masaya Nogi, Kentaro Abe, Shinsuke Ifuku, and Hiroyuki Yano

Top-View Picture

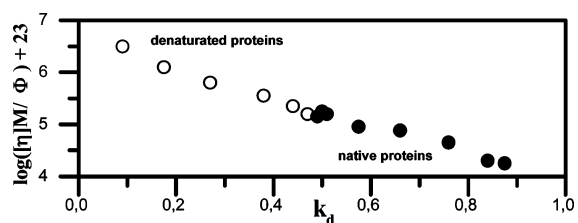


Thermographic Image



2979 Determination of Flory's Parameter Φ for Proteins Based on the Modified Universal Calibration of the Gel Permeation Chromatography

Anastasios Dondos



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* In papers with more than one author, the asterisk indicates the name of the author to whom inquiries about the paper should be addressed.