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Reviews

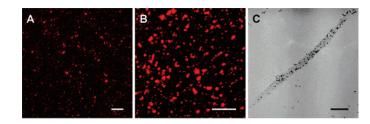
2249 Polyhydroxyalkanoate (PHA)/Inorganic Phase Composites for Tissue Engineering Applications



Superb K. Misra, Sabeel P. Valappil, Ipsita Roy, and Aldo R. Boccaccini*

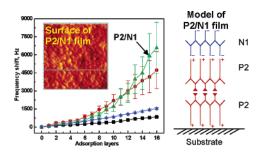
Communications

2259 Full-Length Single-Walled Carbon Nanotubes Decorated with Streptavidin-Conjugated Quantum Dots as Multivalent Intracellular Fluorescent Nanoprobes



Massimo Bottini,* Fabio Cerignoli, Marcia I. Dawson, Andrea Magrini, Nicola Rosato, and Tomas Mustelin

Donald T. Haynie,* Ling Zhang, Wanhua Zhao, and Justin M. Smith

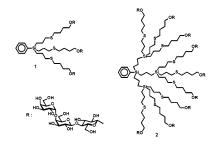


Articles

2269 Enzymatic Synthesis and Characterization of Novel Biodegradable Copolymers of 5-Benzyloxy-trimethylene Carbonate with 1,4-Dioxan-2-one

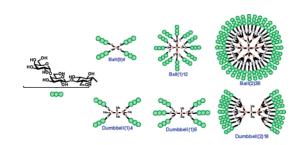
Feng He,* Hua-Li Jia, Gang Liu, Yan-Ping Wang, Jun Feng, and Ren-Xi Zhuo

2274 Carbosilane Dendrimers Bearing Globotriaoses: Syntheses of Globotrioasyl Derivative and Introduction into Carbosilane **Dendrimers**

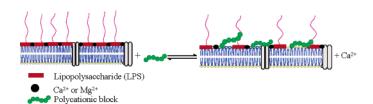


Koji Matsuoka,* Mikiko Terabatake, Atsushi Umino, Yasuaki Esumi, Ken Hatano, Daiyo Terunuma, and Hiroyoshi Kuzuhara

2284 Carbosilane Dendrimers Bearing Globotriaoses: Construction of a Series of **Carbosilane Dendrimers Bearing Globotriaoses**



Koji Matsuoka,* Mikiko Terabatake, Yasuaki Esumi, Ken Hatano, Daiyo Terunuma, and Hiroyoshi Kuzuhara



Sandrine Lenoir, Christophe Pagnoulle, Moreno Galleni, Philippe Compère, Robert Jérôme,* and Christophe Detrembleur

2297 Biotinylated Glycopolymers Synthesized by ■ Atom Transfer Radical Polymerization

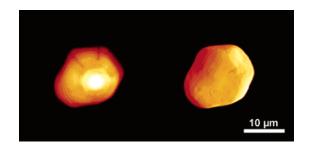


Vimary Vázquez-Dorbatt and Heather D. Maynard*

2303 γ -Radiation Induced Changes in the Physical and Chemical Properties of Lignocellulose

Ferdous Khan, S. R. Ahmad,* and E. Kronfli

2310 Genotype-Specific Spatial Distribution of Starch Molecules in the Starch Granule: A Combined CLSM and SEM Approach



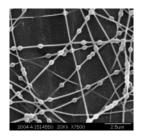
Mikkel A. Glaring, Christian B. Koch, and Andreas Blennow*

2321 X-ray Diffraction Study into the Effects of Liming on the Structure of Collagen



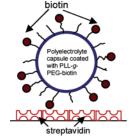
Clark A. Maxwell,* Tim J. Wess, and Craig J. Kennedy

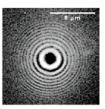
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Hongxu Qi, Ping Hu,* Jun Xu, and Aijun Wang

2331 Adhesion of Polyelectrolyte Microcapsules through Biotin-Streptavidin Specific Interaction

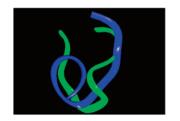




A. M. Raichur, J. Vörös, M. Textor, and A. Fery*

RICM image

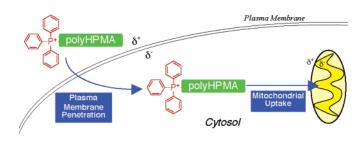
2337 Solution Structures of Two Structural ■ Isoforms of CMrVIA $\chi l \lambda$ -Conotoxin





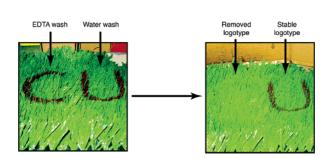
Tse Siang Kang, Seetharama D. S. Jois, and R. Manjunatha Kini*

2347 Semitelechelic HPMA Copolymers Functionalized with Triphenylphosphonium as Drug Carriers for Membrane Transduction and Mitochondrial Localization



Jon Callahan and Jindřich Kopeček*

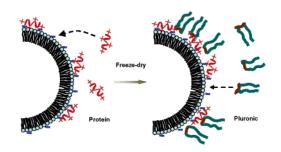
2357 Removable Colored Coatings Based on Calcium Alginate Hydrogels



Muris Kobašlija and D. Tyler McQuade*

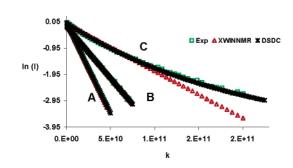
2362 Core/Shell Nanoparticles with Lecithin Lipid Cores for Protein Delivery

Keun Sang Oh, Sung Kyun Han, Hyun Suk Lee, Hyoung Mo Koo, Ree Sun Kim, Kyung Eun Lee, Sung Sik Han, Sun Hang Cho, and Soon Hong Yuk*



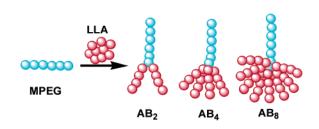
2368 Immunostimulatory Polysaccharides from Chlorella pyrenoidosa. A New Galactofuranan. Measurement of Molecular Weight and Molecular Weight Dispersion by **DOSY NMR**

Erick Reyes Suárez, Raymond Syvitski, Jaroslav A. Kralovec, Miguel D. Noseda, Colin J. Barrow, H. Stephen Ewart, Michael D. Lumsden, and T. Bruce Grindley*



2377 New Asymmetric AB_n-Shaped Amphiphilic Poly(ethylene glycol)-b-[Poly(L-lactide)]_n (n = 2, 4, 8) Bridged with Dendritic Ester Linkages: I. Syntheses and Their Characterization

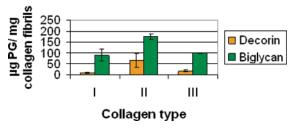
Qiaobo Li, Faxue Li, Lin Jia, Yang Li, Yanchun Liu, Jianyong Yu, Qiang Fang, and Amin Cao*



2388 Fibrillogenesis of Collagen Types I, II, and III with Small Leucine-Rich Proteoglycans **Decorin and Biglycan**

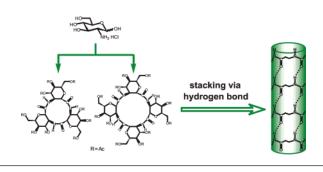
Timothy Douglas,* Sascha Heinemann, Susanne Bierbaum, Dieter Scharnweber, and Hartmut Worch

Bound Decorin, Biglycan



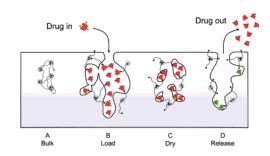
2394 Columnar Assembly of Cyclic β -Amino Acid **Functionalized with Pyranose Rings**

Futoshi Fujimura, Tatsuya Hirata, Tomoyuki Morita, Shunsaku Kimura,* Yoshiki Horikawa, and Junji Sugiyama



2401 Synthetic Biodegradable lonomers that ■ Engulf, Store, and Deliver Intact Proteins

Björn Atthoff, Fredrik Nederberg, Lennart Söderberg, Jöns Hilborn,* and Tim Bowden*



2407 pH-Responsive Poly(styrene-*alt*-maleic anhydride) Alkylamide Copolymers for Intracellular Drug Delivery

Scott M. Henry, Mohamed E. H. El-Sayed, Christopher M. Pirie, Allan S. Hoffman, and Patrick S. Stayton*

2415 Synthesis and Characterization of Multiblock Copolymers Based on Spider Dragline Silk Proteins

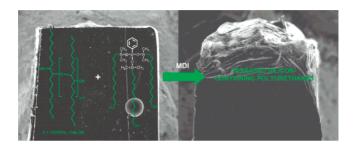
Chuncai Zhou, Boxun Leng, Jinrong Yao, Jie Qian, Xin Chen, Ping Zhou, David P. Knight, and Zhengzhong Shao*

$$-\underbrace{\begin{pmatrix} CH_2\text{-}CH \end{pmatrix}_n & \begin{pmatrix} H_3C & Q & Q & CH_3 \\ NH\text{-}CH\text{-}C \end{pmatrix}_5 & \begin{pmatrix} C\text{-}CH\text{-}NH \end{pmatrix}_5}_{\text{In}}$$

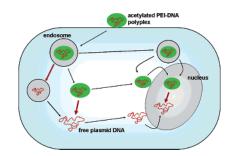
$$C\text{-}CH_3 & CH_2 & \text{Soft} & \text{Hard}$$

2420 Novel Silicon-Containing Polyurethanes from Vegetable Oils as Renewable Resources. Synthesis and Properties

Gerard Lligadas, Juan C. Ronda,* Marina Galià, and Virginia Cádiz



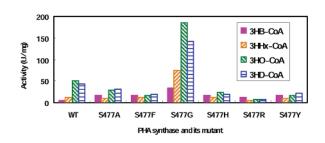
2427 Acetylation of Polyethylenimine Enhances Gene Delivery via Weakened Polymer/DNA Interactions



Nathan P. Gabrielson and Daniel W. Pack*

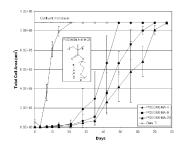
2436 In Vivo and in Vitro Characterization of Ser477X Mutations in Polyhydroxyalkanoate (PHA) Synthase 1 from *Pseudomonas* sp. 61-3: Effects of Beneficial Mutations on Enzymatic Activity, Substrate Specificity, and Molecular Weight of PHA

Ken'ichiro Matsumoto, Emi Aoki, Kazuma Takase, Yoshiharu Doi, and Seiichi Taguchi*



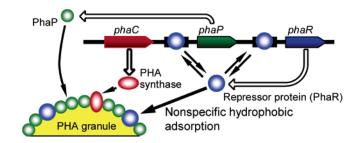
2443 Cell Fouling Resistance of Polymer Brushes Grafted from Ti Substrates by Surface-Initiated Polymerization: Effect of Ethylene Glycol Side Chain Length

Xiaowu Fan, Lijun Lin, and Phillip B. Messersmith*



2449 Nonspecific Hydrophobic Interactions of a Repressor Protein, PhaR, with Poly[(R)-3-hydroxybutyrate] Film Studied with a Quartz Crystal Microbalance

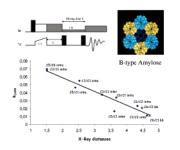
> Koichi Yamashita,* Miwa Yamada, Keiji Numata, and Seiichi Taguchi*



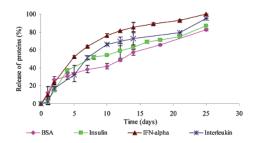
Notes

2455 High-Resolution Solid-State NMR of B-Type Amylose

C. Rondeau-Mouro,* G. Veronese, and A. Buleon



2461 Protein and Peptide Release from in Situ Gelling Polymer



Michal Y. Krasko, Neeraj Kumar, and Abraham J. Domb*

[■] Supporting Information is available free of charge via the Internet at http://pubs.acs.org.

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