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Nota di contenuto

ADVANCES IN POLYMER CHEMISTRY AND METHODS REPORTED IN RECENT US PATENTS; CONTENTS; Preface; I. ADDITIVES; Controlled Radical Acrylic Copolymer Thickeners; Polymer-Filler Coupling Additives; II. ADHESIVES; (Meth)acrylate Block Copolymer Pressure Sensitive Adhesives; Absorbable -Cyanoacrylate Compositions; Use of Polybenzoxazoles (PBOS) for Adhesion; III. BIOACTIVE; A. Bioabsorbables; Segmented Urea and Siloxane Copolymers and Their Preparation Methods; Functionalized Polymers for Medical Applications; Degradable Polyacetal Polymers; Lactone Bearing Absorbable Polymers; B. Contact Lenses
Low Polydispersity Poly-HEMA CompositionsC. Drug Delivery; Amphiphilic Block Copolymers and Nanoparticles Comprising the Same; Heterofunctional Copolymers of Glycerol and Polyethylene Glycol, Their Conjugates and Compositions; Polyalkylene Glycol Acid Additives; Thermosensitive Biodegradable Copolymer; Polyamide Graft Copolymers; Bioerodible Poly(Ortho Esters) from Dioxane-Based Di (Ketene Acetals) and Block Copolymers Containing Them; Water-Soluble Polymer Alkanals; Biodegradable Aliphatic Polyester Grafted with Poly(Ethylene Glycol) Having Reactive Groups and Preparation Method Thereof
Coumarin End-Capped Absorbable PolymersBlock Copolymers for Multifunctional Self-assembled Systems; Methods of Making Functional Biodegradable Polymers; Monofunctional Polyethylene Glycol Aldehydes; IV. COATINGS; A. Anionic; Glycopolymers and Free Radical Polymerization Methods; B. Aqueous; Method of Making Novel Water-Soluble and Self-doped Polyaniline Graft Copolymers; Oxyfluorination; Aqueous Dispersions of Crystalline Polymers and Uses; C. Fluorine; Multifunctional (Meth)Acrylate Compound, Photocurable Resin Composition and Article; D. Hydrophilic
Polyoxyalkylene Phosphonates and Improved Process for Their SynthesisE. Hydrophobic; Polymers and Polymer Coatings; Photochemical Crosslinkers for Polymer Coatings and Substrate Tie-Layer; Use of Poly(Dimethyl Ketone) to Manufacture Articles in Direct Contact with a Humid or Aqueous Medium; F. Thermally Stable; Polyaryleneetherketone Phosphine Oxide Compositions Incorporating Cycloaliphatic Units for Use as Polymeric Binders in Thermal Control Coatings and Method for Synthesizing Same; G. Vapor Deposition of Polymers; Functionalization of Porous Materials by Vacuum Deposition of Polymers
H. Succinic Anhydride DerivativesLight Absorbent Agent Polymer for Organic Anti-reflective Coating and Preparation Method and Organic Anti-reflective Coating Composition Comprising the Same; V. COSMETICS; Water-Soluble or Water-Dispersible Graft Polymers, Their Preparation and Use; VI. DENTAL; A. Cement; (Meth)Acrylate-Substituted Iminooxidiazine Dione Derivatives; B. Dental Composites; (Meth)Acrylic Ester Compound and Use Thereof; VII. ELECTROACTIVE; A. Charge Transport Materials; Hole Transport Polymers and Devices Made with Such Polymers; Acrylic Polymer and Charge Transport Material
B. Dielectric Materials

Sommario/riassunto

The objective of this book is to convey to academic and industrial researchers and students advances in synthetic and characterization methods in 9 selected areas of polymer chemistry reported in 2007-2008 US Patents. It reviews the impact of newer bulk anionic, cationic, and free radical polymerization methods within selected industrial applications. Bulk and surface crosslinking agents using selected bi- and tri-functional reagents, photochemical methods, or free radical agents are also reviewed. Finally, there is a separate section on cationic and cationic ring opening polymerization reacti