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Nota di contenuto	Renewable Polymers: Synthesis, Processing, and Technology; Contents; Preface; List of Contributors; 1. Polymers from Renewable Resources; 1.1 Introduction; 1.2 Naturally Renewable Methylene Butyrolactones; 1.3 Renewable Rosin Acid-Degradable Caprolactone Block Copolymers; 1.4 Plant Oils as Platform Chemicals for Polymer Synthesis; 1.5 Biosourced Stereocontrolled Polytriazoles; 1.6 Polymers from Naturally Occurring Monoterpene; 1.7 Polymerization of Biosourced 2-(Methacryloyloxy)ethyl Tiglate; 1.8 Oxypropylation of Rapeseed Cake Residue; 1.9 Copolymerization of Naturally Occurring Limonene

1.10 Polymerization of Lactides1.11 Nanocomposites Using Renewable Polymers; 1.12 Castor Oil Based Thermosets; References; 2. Design, Synthesis, Property, and Application of Plant Oil Polymers; 2.1 Introduction; 2.2 Triglyceride Polymers; 2.2.1 Formation and Copolymerization of Monoglycerides and Diglycerides; 2.2.2 Copolymerization of Fatty Acids; 2.2.3 Polymerization of Functionalized Triglycerides; 2.3 Summary; References; 3. Advances in Acid Mediated Polymerizations; 3.1 Introduction; 3.2 Problems Inherent to Cationic Olefin Polymerization
3.3 Progress Toward Cleaner Cationic Polymerizations3.3.1 Improvements Resulting from Initiator System Design; 3.3.1.1 Progress in Homogeneous Initiator Systems; 3.3.1.2 Developments in Heterogeneous Initiator Systems; 3.4 Environmental Benefits via New Process Conditions; 3.5 Cationic Polymerization of Monomers Derived from Renewable Resources; 3.6 Sustainable Synthesis of Monomers for Cationic Polymerization; References; 4. Olive Oil Wastewater as a Renewable Resource for Production of Polyhydroxyalkanoates; 4.1 Polyhydroxyalkanoates (PHAs): Structure, Properties, and Applications 4.2 PHA Production Processes Employing Pure Microbial Cultures4.3 PHA Production Processes Employing Mixed Microbial Cultures; 4.3.1 The Acidogenic Fermentation Stage: Key Aspects; 4.3.2 The Mixed Microbial Culture (MMC) Selection Stage; 4.3.3 The PHA Accumulation Stage; 4.4. Olive Oil Mill Effluents (OMEs) as a Possible Feedstock for PHA Production; 4.4.1 Olive Oil Production; 4.4.2 Chemical and Physical Characteristic of OMEs; 4.4.3 Wastewater Treatment and Disposal Alternatives; 4.4.4 Biological Wastewater Treatment; 4.5 OMEs as Feedstock for PHA Production; 4.6 Concluding Remarks References5. Atom Transfer Radical Polymerization (ATRP) for Production of Polymers from Renewable Resources; 5.1 Introduction; 5.2 Atom Transfer Radical Polymerization (ATRP); 5.2.1 General Considerations; 5.2.2 Kinetics of ATRP; 5.2.3 Macromolecular Architecture; 5.2.4 Choice of Reaction Medium; 5.3 Synthetic Strategies to Develop Functional Material Based on Renewable Resources - Composition, Topologies and Functionalities; 5.3.1 Use of Functional Initiators; 5.3.2 Modified Processes; 5.4 Sustainable Sources for Monomers with a Potential for Making Novel Renewable Polymers 5.4.1 Plant Oil Derived Monomers -Fatty Acid Acrylates/Methacrylates

Sommario/riassunto

Presents the synthesis, technology and processing details of a large range of polymers derived from renewable resources It has been a long-term desire to replace polymers from fossil fuels with the more environmentally friendly polymers generated from renewable resources. Now, with the recent advancements in synthesis technologies and the finding of new functional monomers, research in this field has shown strong potential in generating better property polymers from renewable resources. A text describing these advances in synthesis, processing, and technology of such pol

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Autore	Li Huiyun
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Nota di contenuto

-- Consistency Constraints Based Fisheye Visual Inertial Odometry for Wheels Mobile Robots. -- Distortion-free BEV generation method with complete ground information. -- Research on Autonomous Navigation of Unmanned Chassis for Flying Vehicles. -- Segmented Visual Pose Estimation Method for Neural Radiation Field Based on Deep Supervision. -- Energy Management for Hybrid Electric Vehicle using Domain Control under Vehicle-road-cloud Communication Architecture . -- DAB-VIO: Depth Augmented Bio-Visual Inertial Odometry. -- Harmonic Suppression Method of Motor Drive System Based on Full-Order Extended Kalman Filter. -- OFF-CSUNet: Cross-Attention Fusion Network for Unstructured Off-Road Free-Space Detection. -- Research on the Integrated Vehicle-Road-Cloud Dynamic Cognitive Map Model and Key Technologies. -- EA-AKA: An Efficient and Privacy-Preserving Authentication Key Agreement Protocol in VANETs. -- Knowledge Representation and Reasoning Methods for Traffic Management at Road Intersections. -- A Review of Software Defect Prediction in Intelligent Vehicles. -- Charging Voltage Fault Diagnosis Method Based on Vehicle-pile Data Fusion. -- RetroreflectionBA: Leveraging Retroreflection as a Backdoor Attack Trigger for Fooling Pedestrian Detection Models. -- HLM-YOLO:A Lightweight Instance Segmentation Model for Road Potholes. -- End-to-End Autonomous Driving Decision Method Based on Memory Attention Convolutional Neural Networks. -- Active Composite Hierarchical Fault-Tolerant Control for Unmanned Vehicles Against Sensor and Actuator Faults. -- MASTER: Multimodal Segmentation with Text Prompts. -- An EV Charging Scheduling Strategy Considering User Demand of Distribution Networks. -- Prospects of NeRF-based Autonomous Driving Simulation Scene Reconstruction Technology. -- Enhancing LiDAR Localization in Perceptually Degraded Environments through Multi-anchor UWB Integration. -- Critical Scenarios Generation of Pedestrian-Vehicle Interaction for Autonomous Driving Testing. -- Spatio-temporal Encoded Flow Prediction Model with Traffic Event Consideration. -- Advancements in 3D Gaussian Splatting-Based SLAM Technology. -- Indoor Localization Method Based on AMCL and Map Matching for Mobile Robots. -- Visual Navigation and Path Planning Methods for Orchard Intelligent Unmanned Vehicle. -- YOLOv5-LMPD: A Lightweight Road Pothole Detection Model Under Multiple Lighting Conditions. -- A Large Language Model with Ritrival-Augmented Generation for Intelligent Maize Breeding Vehicle. -- Maize Ear Object Detection Method Based on Improved YOLOv8 for Intelligent Breeding Unmanned Vehicle. -- Heterogeneous MARL Framework for Efficient Vehicle Path Planning in Mixed Traffic Scenarios. -- Traffic Subject Semantic Information Interaction Method.

Sommario/riassunto

This book constitutes the refereed proceedings of the Second CCF Intelligent Vehicles Symposium on Intelligent Vehicles, CCF CIVS 2024, held in Wuhan, China, during October 19–20, 2024. The 31 full papers included in this book were carefully reviewed and selected from 60 submissions. The papers contained in these proceedings address challenging issues in autonomous driving, lidar, radar, camera, LLM, battery, motor, electronic control, charging technology, sensing, location, HD Maps, navigation, prediction, planning, control, security, vehicular networking and communication, as well as the fundamentals and applications of computing.