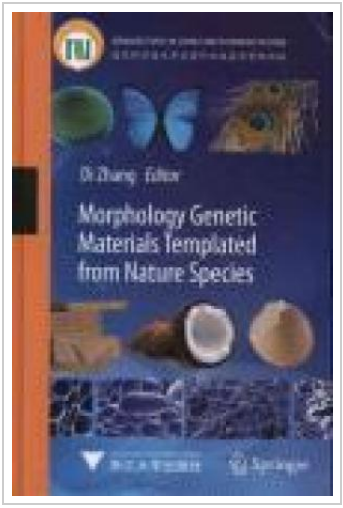

Morphology Genetic Materials Templated from Nature Species

By ZHANG DI

Hardcover. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Hardcover. Pages Number: 250 Publisher: ; 1 (2011111). Contents : 1 Functional Materials Templated from Natural Plants 1.1 Introduction 1.2 Morphogenetic Materials from Natural Plants 1.2.1 Synthesis of (Fe203). Nickel Oxide (NiO) and Zinc Oxide (ZnO) from Natural Plants 1.2.2 Biomorphic A1203 and SnO2 by Using Cotton as BioTemplates 1.2.3 Biomorphic Synthesis of Metal Oxide Doped with Metal(N-TiO2. Ag-A1203) 1.2.4 Biotemplate Fabrication of SnO2 and TiO2 Materials by a Sonochemical Method 1.2.5 Biomorphic Functional Metal Oxides from Plant Leaves 1.3 Applications of the Synthesized Biomorphic Materials 1.3.1 Adsorbents for Copper Ions Removal with Surface Functionalized Soybean Straw 1.3.2 Polymer Functionalized Activated Carbon (from Rice Husk) for Cu2+ Removal 1.3.3 Magnetic Nanoparticles Functionalized Activated Carbon for Dye Removal 1.3.4 TiO2 with Hierarchical Structures Fabricated from Wood for Photocatalyst 1.3.5 Gas Sensing Properties of Wood-Templated Oxides 1.4 Summary References2 Morph-Genetie Materials Inspired from Butterfly Wing Scales 2.1 Introduction 2.2 Synthesis Approaches of Butterfly Wings Replicas 2.2.1 Chemical Solutions Soaking Method 2.2.2 Sonochemical Processing Method 2.2.3 Solvothermal Nano-Complex Processing Method 2.2.4 Summary 2.3 Optical Properties of Butterfly Wings. Hybrids or Replicas 2.3.1 Fabrication...

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