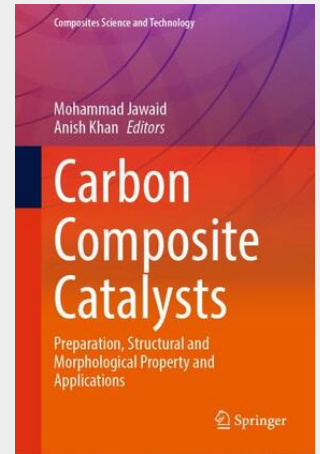


Carbon Composite Catalysts

Preparation, Structural and Morphological Property and Applications

This book provides an overview of the fundamentals and recent advances in the field of carbon composite catalysts, including graphene, carbon nanotubes, mesoporous carbons, graphitic carbon nitrides, and related composites. Special focus is placed on their controllable preparation and applications in the gas phase, liquid phase, electrochemical, and photocatalytic reactions, as well as defect and surface chemistry-related catalytic activities of carbon materials. Some perspectives are highlighted on the development of more efficient carbonaceous catalysts featuring high stability, low cost, optimized structures, and enhanced performance, which are the key factors to accelerate the designed preparation and commercialization of carbon composite catalysts. The book will also present the latest studies of carbon-based composite catalysts for clean energy change and storage, nature protection, and essential industrial production and storage and include the key challenges and future opportunities in this exciting field.

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