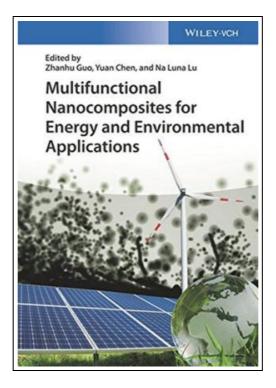
Multifunctional Nanocomposites for Energy and Environmental Applications



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Reviews

The publication is simple in go through preferable to fully grasp. I am quite late in start reading this one, but better then never. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Mrs. Josiane Collins)

MULTIFUNCTIONAL NANOCOMPOSITES FOR ENERGY AND ENVIRONMENTAL APPLICATIONS



Condition: New. Publisher/Verlag: Wiley-VCH | Focusing on real applications of nanocomposites and nanotechnologies for sustainable development, this book shows how nanocomposites can help to solve energy and environmental problems, including a broad overview of energy-related applications and a unique selection of environmental topics. Clearly structured, the first part covers such energy-related applications as lithium ion batteries, solar cells, catalysis, thermoelectric waste heat harvesting and water splitting, while the second part provides unique perspectives on environmental fields, including nuclear waste management and carbon dioxide capture and storage. The result is a successful combination of fundamentals for newcomers to the field and the latest results for experienced scientists, engineers, and industry researchers. | Chapter 1: IntroductionChapter 2: Advanced Nanocomposites Electrodes for Lithium Ion BatteriesChapter 3: Carbon Nanocomposites in Electrochemical Capacitor ApplicantChapter 4: Application in Nanostructure Electrodes in Halide Perovskite Solar Cells and Electrochromic DevicesChapter 5: Perovskite Solar CellChapter 6: Nanocomposite Structures Related to Electrospun Nanofibers for Highly Efficient and Cost Effective Dye SensitizeChapter7: Laser Ablation Based Techniques for Solution-phase SynthesisChapter 8: Thermoelectric Nano Composite for Energy HarvestingChapter 9: Graphene Composite Catalysts for Electrochemical Energy ConversionChapter 10: Electrochromic Materials and Devices Fundamentals and Nanostructuring ApproachesChapter 11: Nanocomposite Photocatalysts for Solar Fuel Production from CO2 and WaterChapter 12: The Application of Nanocomposite Catalysts in Biofuels ProductionChapter 13: Photocatalytic Nanomaterials for Energy and EnvironmentChapter 14: Role of Interfaces at the Nano-architectured Photocatalysts for Hydrogen Production from Water SplittingChapter 15: Nanostructures Catalysts for Small Molecule ConversionChapter 16: Rational Heterostructure Design for Photo Electrochemical Water SplittingChapter 17: Layered Doubled Hydroxides Derived NOx Storage Reduction Catalyst for Vehicle NOx Emission ControlChapter 18: Applications of Nanomaterial in Nuclear Waste ManagementChapter 19: Electromagnetic Interference ShieldingChapter 20: Mussel-inspired Nanocomposites Synthesis and Promising Applications in Environmental Fields | Format: Hardback | Language/Sprache: english | 1648 gr | 252x177x40 mm | 704 pp.

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