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Soggetti	Nanoscale science Nanoscience Nanostructures Ceramics Glass Composites (Materials) Composite materials Nanotechnology Nanochemistry Polymers Nanoscale Science and Technology Ceramics, Glass, Composites, Natural Materials Nanotechnology and Microengineering Polymer Sciences
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Nota di contenuto	Part 1: Nanomaterials and nanotechnology -- LPG sensing properties of electrospun in-situ polymerized polyaniline/MWCNT composite nanofibers -- Colour tunable photoluminescence from samarium and dysprosium co-doped ZnO nanofibers -- Electromagnetic interference shielding effectiveness of graphene based conducting polymer nanocomposites -- Phase separated structures of mixed carrageenan gels elucidated using particle tracking -- Part 2: Recycle composites --

Synthesis of Na-P zeolite from geothermal sludge -- Green composites based on poly (lactic acid) and bamboo fiber: flame retardancy, thermal, and mechanical properties -- Part 3: Green composites -- Study of Morphology and Environmental Properties of Styrene-Butadiene Rubber-Carbon Black Nanocomposites -- Removal of methyl orange dye from aqueous solution by PANI/TiO2 and PANI/graphene nanocomposites -- Electrospun Eu(TTA)3phen/polymer blend nanofibers for photoluminescent smart fabrics -- Influence of polymer in photoluminescence properties of electrospun Eu3+doped polymer nanofibers -- Part 4: Mechanical materials -- The effect of compressed air pressure and stand-off distance on the twin wire arc spray (TWAS) coating for pump impeller from AISI 304 stainless steel -- An application of high temperature gas nitriding (HTGN) method to improve the quality of implant materials 316L and 316LVM -- Effect of Variable Loading on Very High Cycle Fretting Fatigue of Chromium-Molybdenum Steel.

Sommario/riassunto

This book presents selected articles from the 2nd International Conference on Nanomaterials and Advanced Composites, which brings together leading researchers and professionals from academia and industry to present their findings and provides a platform for the exchange of ideas and future collaboration. The book covers eight topics, including nanomaterials, polymer materials, mechanical materials, materials chemistry, materials physics, ceramics, recycling materials and green composites.