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Titolo	Nanocomposites [[electronic resource]] : preparation, properties, and performance / / Lorenzo H. Mancini and Christian L. Esposito, editors
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2008
ISBN	1-61668-086-5
Descrizione fisica	1 online resource (286 p.)
Altri autori (Persone)	ManciniLorenzo H EspositoChristian L
Disciplina	620.1/18
Soggetti	Nanostructured materials Engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""NANOCOMPOSITES: PREPARATION, PROPERTIES AND PERFORMANCE""; ""NOTICE TO THE READER""; ""CONTENTS""; ""PREFACE""; ""ENCAPSULATING MODIFICATION OF TITANIA/TITANIUM NANOTUBE COMPOSITES FOR ELECTROCHEMICAL AND PHOTOCHEMICAL APPLICATIONS""; ""ABSTRACT""; ""1. INTRODUCTION""; ""2. EXPERIMENTAL PROCEDURE""; ""2.1. Synthesis Procedure""; ""2.2. Characterization and Measurement""; ""3. EXPERIMENTAL RESULTS""; ""3.1. Preparation of Nanotube Composites""; ""3.2. Morphology and Microstructure Characterization""; ""3.3. EDX Analysis""; ""3.4. XRD Analysis""; ""3.5. UV-Visible Spectrum Analysis of POW-TiO ₂ "" ""3.6. Encapsulation Structure Stability of POW-TiO ₂ """"3.7. Electrochemical Properties of NiO-TiO ₂ /Ti""; ""3.8. Photoelectrochemical Properties of POW-TiO ₂ /Ti""; ""3.9. Supercapacitor Application of NiO-TiO ₂ /Ti""; ""3.10. Photocatalysis/Photoelectrocatalysis Application of POW-TiO ₂ /Ti""; ""CONCLUSION""; ""REFERENCES""; ""FABRICATION AND APPLICATIONS OF NANOCOMPOSITE COATINGS""; ""ABSTRACT""; ""1. INTRODUCTION""; ""2. THE PREPARATION OF NANOCOMPOSITE COATINGS""; ""2.1. Electroless Technique""; ""2.2. Electroplating Technique""; ""3. THE EFFECT OF OPERATING CONDITION"" ""3.1. The Effect of Electrolyte pH and Particle Charge""""3.2. The Effect

of Particle Shape and Concentration"'; "'3.3. The Effect of Current Density"'; "'3.4. The Effect of Surfactant"'; "'3.5. The Effect of Ultrasonic Treatment"'; "'4. THE APPLICATION OF NANOCOMPOSITE COATINGS"'; "'4.1. Improvement of Surface Characteristics"'; "'4.2. The Environmental Applications"'; "'4.3. Fuel Cell Applications"'; "'CONCLUSION"'; "'ACKNOWLEDGMENTS"'; "'REFERENCES"'; "'PREPARATION AND MECHANICAL PERFORMANCE OF RUBBER-MODIFIED THERMOPLASTIC POLYMER-CLAY NANOCOMPOSITES"'; "'ABSTRACT"'; "'INTRODUCTION'"
"'RUBBER TOUGHENING EFFECT'" "'POLYAMIDE-RUBBER/CLAY NANOCOMPOSITES"'; "'POLYOLEFIN-RUBBER/CLAY NANOCOMPOSITES"'; "'CONCLUSION"'; "'REFERENCES"'; "'NANOCOMPOSITES: PREPARATION, PROPERTIES AND PERFORMANCE"'; "'1. INTRODUCTION"'; "'2. PREPARATION, PROPERTIES AND PERFORMANCE OF FUNCTIONAL NANOCOMPOSITES"'; "'2.1. Electropolymerization Nanocomposites"'; "'2.2. Sol-Gel Nanocomposites"'; "'2.3. Nanozeolite-Derived Nanocomposites"'; "'2.4. Protein Entrapped Nanoporous Films"'; "'2.5. CNT-Derived Nanocomposites"'; "'2.6. Metal Nanoparticles-Derived Nanocomposites"'; "'2.7. Magnetic Nanocomposites'"
"'CONCLUSIONS'" "'ACKNOWLEDGEMENTS"'; "'REFERENCES"'; "'BIODEGRADABLE NANOCOMPOSITES BASED ON STARCH, PCL AND THEIR BLENDS"'; "'ABSTRACT"'; "'1. RAW MATERIALS"'; "'1.1. Starch"'; "'1.2. Polycaprolactone"'; "'1.3. Starch-Based PCL Blends"'; "'1.4. Clay"'; "'2. PROCESSING TECHNIQUES"'; "'2.1. Casting"'; "'2.2. Intensive Mixing"'; "'2.3. In Situ Polymerization"'; "'3. CHARACTERIZATION TECHNIQUES"'; "'3.1. DRX"'; "'3.2. TEM"'; "'4. MECHANICAL PROPERTIES"'; "'4.1. Starch-Clay Nanocomposites (Table 4)"'; "'4.2. PCL a€? Clay Nanocomposites (Table 5)'"
"'4.3. Starch/PCL Blends-Clay Nanocomposites (Table 7)'"

2. Record Nr.	UNINA9910970270603321
Autore	Egan Michael <1974->
Titolo	Barry Commoner and the science of survival : the remaking of American environmentalism / Michael Egan
Pubbl/distr/stampa	Cambridge, Mass., : MIT, c2007
ISBN	9786612098925 9781282098923 1282098926 9780262272179 0262272172 9781429477116 1429477113
Edizione	[1st ed.]
Descrizione fisica	xi, 283 p., [8] p. of plates : ill
Collana	Urban and industrial environments
Disciplina	363.70973
Soggetti	Environmentalism - United States - History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. [249]-275) and index.
Nota di contenuto	Preface -- Introduction : The new apparatus -- 1. In the thunderclaps wake -- 2. Guarding the public -- 3. The new jeremiad -- 4. When scientists disagree -- 5. Biological capital -- 6. The other environmentalism -- Conclusion : If we would know life -- Notes -- Bibliography -- Index.
Sommario/riassunto	"For over half a century, the biologist Barry Commoner has been one of the most prominent and charismatic defenders of the American environment, appearing on the cover of Time magazine in 1970 as the standard-bearer of "the emerging science of survival." In Barry Commoner and the Science of Survival, Michael Egan examines Commoner's social and scientific activism and charts an important shift in American environmental values since World War II." "Throughout his career, Commoner believed that scientists had a social responsibility, and that one of their most important obligations was to provide citizens with accessible scientific information so they could be included in public debates that concerned them. Egan shows how Commoner moved naturally from calling attention to the hazards of nuclear fallout

to raising public awareness of the environmental dangers posed by the petrochemical industry. He argues that Commoner's belief in the importance of dissent, the dissemination of scientific information, and the need for citizen empowerment were critical planks in the remaking of American environmentalism." "Commoner's activist career can be defined as an attempt to weave together a larger vision of social justice. Since the 1960s, he has called attention to parallels between the environmental, civil rights, labor, and peace movements, and connected environmental decline with poverty, injustice, exploitation, and war, arguing that the root cause of environmental problems was the American economic system and its manifestations. He was instrumental in pointing out that there was a direct association between socioeconomic standing and exposure to environmental pollutants and that economics, not social responsibility, was guiding technological decision making. Egan argues that careful study of Commoner's career could help reinvigorate the contemporary environmental movement at a point when the environmental stakes have never been so high."--
Jacket.
