Record Nr. UNINA9910815032603321 **Titolo** Nanofibers: fabrication, performance, and applications / / W.N. Chang, editor Pubbl/distr/stampa New York,: Nova Science, c2009 **ISBN** 1-61668-288-4 Edizione [1st ed.] 1 online resource (465 p.) Descrizione fisica Collana Nanotechnology science and technology series Altri autori (Persone) ChangW. N 620/.5 Disciplina Soggetti **Nanofibers** Nanofibers - Design and construction 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 ""NANOFIBERS: FABRICATION, PERFORMANCE, AND APPLICATIONS"": ""NANOFIBERS: FABRICATION, PERFORMANCE, AND APPLICATIONS""; ""CONTENTS""; ""PREFACE ""; ""SYNTHESIS AND ELECTRON FIELD EMISSION FROM DIFFERENT MORPHOLOGY CARBON NANOFIBERS "": ""1. INTRODUCTION"": ""2. SYNTHESIS AND GROWTH MECHANISM OF CARBON NANOTUBE AND CARBON NANOFIBER BY DIFFERENT PROCESS""; ""3. BASIC THEORY OF ELECTRON FIELD EMISSION""; ""4. FIELD EMISSION FROM CARBON BASED MATERIALS"": ""5. SYNTHESIS AND FIELD EMISSION PROPERTY OF DIFFERENT CARBON NANOSTRUCTURE"" ""6. EFFECT OF TEMPERATURE ON THE ELECTRON FIELD EMISSION FROM VERTICALLY ALIGNED CARBON NANOFIBERS AND MWCNTS """"7. APPLICATION OF CARBON NANOFIBER AND CARBON NANOTUBE"": ""REFERENCES ""; ""PERMEABILITY STUDIES OF ELECTROSPUN CHITIN AND CHITOSAN NANOFIBROUS MEMBRANES""; ""1. ABSTRACT ""; ""2. INTRODUCTION ""; ""3. RESEARCH RESULTS""; ""4. APPLICATIONS OUTLOOK""; ""5. CONCLUSION""; ""REFERENCES ""; ""NOVEL CHITOSAN CONTAINING MICRO- AND NANOFIBROUS MATERIALS BY ELECTROSPINNING: PREPARATION AND BIOMEDICAL APPLICATION "": ""2. ELECTROSPINNING """"3. CHITOSAN a€? A VERSATILE POLYMER "": ""4. CHITOSAN-CONTAINING NANOFIBERS ""; ""5. CHITOSAN

DERIVATIVES-CONTAINING NANOFIBERS ""; "" 6. REACTIVE

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ELECTROSPINNING OF CHITOSAN AND CHITOSAN DERIVATIVES "": ""7.
CONCLUSION "": ""ACKNOWLEDGEMENTS"": ""REFERENCES "": ""A NOVEL
APPROACH FOR ANALYSIS OF PROCESSING PARAMETERS IN
ELECTROSPINNING OF NANOFIBERS""; ""ABSTRACT ""; ""INTRODUCTION
""; ""EXPERIMENTAL""; ""CHOICE OF PARAMETERS AND RANGE "";
""EXPERIMENTAL DESIGN ""; ""RESPONSE SURFACE METHODOLOGY "";
""RESULTS AND DISCUSSION ""
""RESPONSE SURFACES FOR MEAN FIBER DIAMETER"""RESPONSE
SURFACES FOR STANDARD DEVIATION OF FIBER DIAMETER "":
""CONCLUSION ""; ""APPENDIX ""; ""REFERENCES ""; ""CARBON NANO-
FIBERS AND THEIR APPLICATIONS: DERIVED FROM ELECTROSPINNING
AND VAPOR GROWN PROCESSES "": ""ABBREVIATIONS "": ""1.
INTRODUCTION ""; ""2. ELECTROSPINNING PROCESS ""; ""3.
PARAMETERS AFFECTING ON FIBER FORMATION "": ""4. THERMO-
OXIDATIVE STABILIZATION "": ""5. CARBONIZATION OF THE
ELECTROSPUN NANOFIBERS ""; ""6. VAPOR GROWN CARBON
NANOFIBERS (VGCFS) ""; ""7. COMPARISON BETWEEN E-SPUN AND
VAPOR GROWN FIBERS ""
""8. APPLICATIONS OF CARBON NANOFIBERS """"8.1. CNFS IN
ELECTRONIC AND ELECTROCHEMICAL DEVICES""; ""9. RECYCLING OF
CARBON MATERIALS ""; ""10. FUTURE PROSPECTS ""; ""REFERENCES "";
""CARBON NANOFIBERS AS SENSORS ""; ""ABSTRACT ""; ""INTRODUCTION
""; ""SYNTHESIS OF CARBON NANOFIBERS ""; ""SURFACE MODIFICATION
OF CARBON NANOFIBERS ""; ""CARBON NANOFIBER SENSORS"": ""GAS
SENSORS "": ""BIOSENSORS "": ""MECHANICAL SENSORS "":
""CONCLUSION "": ""ACKNOWLEDGEMENTS "": ""REFERENCES "":
""PROCESSING-STRUCTURE RELATIONSHIPS OF ELECTROSPUN
NANOFIBERS "": ""ABSTRACT "": ""1. INTRODUCTION ""
""2. PROCESSING-STRUCTURE RELATIONSHIPS OF POLYMER NANOFIBERS
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