1. Record Nr. UNINA9910464975003321

Titolo	Defects and diffusion in carbon nanotubes
Pubbl/distr/stampa	[Zurich, Switzerland] : , : [Trans Tech Publications], , [2014] ©[2014]
ISBN	3-03826-602-7
Descrizione fisica	1 online resource (176 p.)
Collana	Defect and Diffusion Forum ; ; Volume 356
Disciplina	620.11299
Soggetti	Nanotubes Carbon Nanostructured materials Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Defects and Diffusion in Carbon Nanotubes; Table of Contents; Abstracts
Sommario/riassunto	Carbon nanotubes are one of the newest materials to be discovered, being barely 20 years old. They are also the most promising one, with one particular sample of multi-walled nanotube attaining a tensile strength of 63GPa, and with carbon nanotubes in general having a specific strength of up to 48000kNm/kg: effectively a direct exploitation of the covalent sp 2 bonding between carbon atoms. Plastic deformation begins at about 5% strain. The nanotubes can be produced in lengths of up to 550mm, and thicknesses as small as 4.3A; making them perfect reinforcement fibres for composites. They also h

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Record Nr.	UNINA9910144697103321
Titolo	Plant desiccation tolerance [[electronic resource] /] / editors, Matthew A. Jenks, Andrew J. Wood
Pubbl/distr/stampa	Ames, Iowa, : Blackwell Pub., 2007
ISBN	1-281-38204-3 9786611382049 0-470-37688-0 0-470-37665-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (339 p.)
Altri autori (Persone)	JenksMatthew A WoodAndrew J
Disciplina	581.4
Soggetti	Plant-water relationships Plants - Drought tolerance Plants - Adaptation 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	Plant desiccation tolerance : diversity, distribution, and real-world applications / Andrew J. Wood and Matthew A. Jenks -- Lessons on dehydration tolerance from desiccation-tolerant plants / Melvin J. Oliver -- Mechanisms of desiccation tolerance in Angiosperm resurrection plants / Jill M. Farrant -- Desiccation tolerance in lichens / Richard P. Beckett and Farida V. Minibayeva -- Desiccation tolerance : gene expression, pathways and regulation of gene expression / Dorothea Bartels, Jonathan Phillips, and John Chandler -- Seed desiccation-tolerance mechanisms / Patricia Berjak, Jill M. Farrant, and Norman W. Pammenter -- The glassy state in dry seeds and pollen / Olivier Leprince and Julia Buitink -- DNA structure and seed desiccation tolerance / Ivan Broubriak, Shirley McCready, and Daphne J. Osborne -- Structural dynamics and desiccation damage in plant reproductive organs / Christina Walters and Karen L. Koster -- XvSap1, a desiccation tolerance associated gene with potential for crop improvement / Revel Iyer ... [et al.].

Sommario/riassunto

Plant desiccation tolerance is of great basic and applied scientific interest. Understanding plant responses and adaptations to severe desiccation is key to applying desiccation tolerance research to the improvement of economically important crops. Plant Desiccation Tolerance brings together a field of international researchers to provide a current review of the advances in plant desiccation tolerance research. The book is broken up into three sections: Vegetative Desiccation Tolerance; Desiccation Tolerance of Pollen, Spores, and Seeds; and Applications of Desiccation Tolerance Researc