

1. Record Nr.	UNINA9910452923603321
Autore	Dufresne Alain <1962->
Titolo	Nanocellulose [[electronic resource]] : from nature to high performance tailored materials // Alain Dufresne
Pubbl/distr/stampa	Berlin, : De Gruyter, 2012
ISBN	1-68015-203-3 3-11-025460-3
Descrizione fisica	1 online resource (476 p.)
Classificazione	VE 9850
Disciplina	572/.56682
Soggetti	Cellulose - Chemistry Cellulose nanocrystals Cellulose - Mechanical properties 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	Frontmatter -- Preface -- Contents -- 1 Cellulose and potential reinforcement -- 2 Preparation of microfibrillated cellulose -- 3 Preparation of cellulose nanocrystals -- 4 Bacterial cellulose -- 5 Chemical modification of nanocellulose -- 6 Rheological behavior of nanocellulose suspensions and self-assembly -- 7 Processing of nanocellulose-based materials -- 8 Thermal properties -- 9 Mechanical properties of nanocellulose-based nanocomposites -- 10 Swelling and barrier properties -- 11 Other polysaccharide nanocrystals -- 12 Conclusions, applications and likely future trends -- 13 Index
Sommario/riassunto	This specialist monograph provides an overview of the recent research on the fundamental and applied properties of nanoparticles extracted from cellulose, the most abundant polymer on the planet and an essential renewable resource. Given the rapid advancements in the field and the high level of interest within the scientific and industrial communities, this timely book will be required reading for all those working with nanocellulose in the life sciences and bio-based applications, biological, chemical and agricultural engineering, organic chemistry and materials science. The author pioneered the use of cellulose nanoparticles (cellulose nanocrystals or whiskers and cellulose

microfibrils) in nanocomposite applications. The book combines a general introduction to cellulose and basic techniques with more advanced chapters on specific properties and applications of nanocellulose.

2. Record Nr.	UNINA9910706115403321
Titolo	China's evolving surface fleet // Peter A. Dutton and Ryan D. Martinson, editors
Pubbl/distr/stampa	Newport, Rhode Island : , : China Maritime Studies Institute, U.S. Naval War College, , 2017
Edizione	[U.S. Government official edition.]
Descrizione fisica	1 online resource (131 pages) : illustrations ; ; 23 cm
Collana	China maritime studies ; ; no. 14
Disciplina	359.8/30951
Soggetti	Sea-power - China Navies - China
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"July 2017."