

1. Record Nr.	UNINA9910350342903321
Titolo	Nanowire Electronics [[electronic resource] /] / edited by Guozhen Shen, Yu-Lun Chueh
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-2367-4
Descrizione fisica	1 online resource (396 pages)
Collana	Nanostructure Science and Technology, , 1571-5744
Disciplina	620.5
Soggetti	Nanotechnology Systems engineering Optical materials Energy Storage Electronic Circuits and Devices Circuits and Systems Optical and Electronic Materials Semiconductors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Carbon Nanotubes for Flexible and Transparent Electronics -- Metal Oxide Nanowires for Flexible Electronics -- One-dimensional II-VI Group Semiconductor Nanostructures for Nano-electronics -- Developing Nanowires for Transparent and Flexible Electrodes -- Nanowires for Microelectronics -- Nanowires for Energy -- Wafer-scale Integrated Circuits Based on Aligned Carbon Nanotubes -- Field Emitters with Carbon Nanotubes.
Sommario/riassunto	This book gives a comprehensive overview of recent advances in developing nanowires for building various kinds of electronic devices. Specifically the applications of nanowires in detectors, sensors, circuits, energy storage and conversion, etc., are reviewed in detail by the experts in this field. Growth methods of different kinds of nanowires are also covered when discussing the electronic applications. Through discussing these cutting edge researches, the future directions of nanowire electronics are identified.

