

1. Record Nr.	UNINA9910451411703321
Titolo	Nanoscale science [[electronic resource]] : activities for grades 6-12 / / M. Gail Jones ... [et al.]
Pubbl/distr/stampa	Arlington, VA, : NSTA Press, c2007
ISBN	1-281-75820-5 9786611758202 1-933531-75-4
Descrizione fisica	1 online resource (171 p.)
Altri autori (Persone)	JonesM. Gail <1955->
Disciplina	620/.5
Soggetti	Nanoscience Nanostructures Nanotechnology Science - Study and teaching (Secondary) - Activity programs Technology - Study and teaching (Higher) - Activity programs 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 (p. 149-151) and index.
Nota di contenuto	Size and scale -- That's huge! -- One in a billion -- Nano shapes -- Biological nanomachines -- Tools and techniques -- What's in your bag? -- Nanomagnets -- Scanning probe microscopy -- Unique properties and behaviors -- It's a small world after all -- Biomimicry -- How nature builds itself -- Physics changes with scale -- Shrinking cups-- Limits to size -- Nanotechnology applications -- Nanomaterials -- Nanotech, Inc. -- Nanomedicine -- Building small -- Societal implications -- Too little privacy -- Promise or peril -- Appendix.
Sommario/riassunto	Futurists predict that nanotechnology will be the next major scientific revolution-one with an even greater impact than the Industrial Revolution. Nanoscale Science will help your middle and high school students understand the big implications of tiny technology. Using guided inquiry with open-ended exploration where possible, the book's 20 investigations teach students about the unique properties and behavior of materials at the nanoscale-one-billionth of the size of a meter.

