

1. Record Nr.	UNINA9910822409403321
Titolo	Responsive materials and methods : state-of-the-art stimuli-responsive materials and their applications // edited by Ashutosh Tiwari and Hisatoshi Kobayashi
Pubbl/distr/stampa	Hoboken, New Jersey : , : Scrivener Publishing : , : John Wiley & Sons, Inc, , [2014] ©2014
ISBN	1-118-84290-1 1-118-84284-7 1-118-84296-0
Descrizione fisica	1 online resource (460 p.)
Collana	Advance materials series
Classificazione	TEC021000
Altri autori (Persone)	TiwariAshutosh KobayashiHisayoshi
Disciplina	620.1/92
Soggetti	Smart materials Polymers Nanostructured materials
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	part 1. Stimuli-responsive polymeric materials -- part 2. Smart nano-engineered materials -- part 3. Smart biosystems engineering -- part 4. Theory and modeling.
Sommario/riassunto	"The development of finely-tuned materials that adjust in a predictable manner by specific environment change is the recent arena of materials research. It is a newly emerging supra-disciplinary field with huge commercial potential. Stimuli-responsive materials answer by a considerable change in their properties to small changes in their environment. Responsive materials are becoming increasingly more prevalent as scientists learn about the chemistry and triggers that induce conformational changes in materials structures and devise ways to take advantage of and control them. Responsive Materials and Method offers state-of-the-art of the stimuli-responsive materials and their potential applications.This collection brings together novel methodologies and strategies adopted in the research and development

