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Descrizione fisica	1 online resource (XVIII, 1017 p. 247 illus., 125 illus. in color. eReference.) : online resource
Collana	Springer reference
Disciplina	620.116
Soggetti	Optical materials Electrochemistry Condensed matter Medicine - Research Biology - Research Energy storage Surfaces (Physics) Optical Materials Condensed Matter Physics Biomedical Research Mechanical and Thermal Energy Storage Surface and Interface and Thin Film
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	From the Contents: Fabrication -- Formation Survey -- Porosity -- Properties -- Property Survey -- Thermal -- Mechanical -- Transport -- Optical -- Electrical -- Magnetic -- Characterization -- Structural -- Porosity -- Thermal -- Magnetic -- Chemical.- Processessing -- Patterning -- Drying -- Epitaxy -- Thermal -- Impregnation -- Applications -- Application Survey -- Electronic.
Sommario/riassunto	The Handbook of Porous Silicon brings together the expertise of a large, international team of almost 100 academic researchers, engineers, and product developers from industry across electronics, medicine, nutrition and consumer care to summarize the field in its

entirety with 150 chapters and 5000 references. The volume presents 5 parts which cover fabrication techniques, material properties, characterization techniques, processing and applications. Much attention was given in the the past to its luminescent properties, but increasingly it is the biodegradability, mechanical, thermal and sensing capabilities that are attracting attention. The volume is divided into focussed data reviews with, wherever possible, quantitative rather than qualitative descriptions of both properties and performance. The book is targeted at undergraduates, postgraduates, and experienced researchers.
