Record Nr.	UNINA9910254042903321
Autore	Ouyang Jianyong
Titolo	Emerging Resistive Switching Memories / / by Jianyong Ouyang
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-31572-2
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (VIII, 93 p. 73 illus., 41 illus. in color.)
Collana	SpringerBriefs in Materials, , 2192-1091
Disciplina	621.39732
Soggetti	Nanotechnology
	Electronic circuits
	Electronics
	Computer memory systems Electronic Circuits and Devices
	Electronics and Microelectronics, Instrumentation
	Memory Structures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di bibliografia Nota di contenuto	Includes bibliographical references at the end of each chapters. Introduction to history of memory devices and the present memory devices Introduction of resistive switches memory devices with nanoparticles Structure, fabrication and operation of devices with a triple-layer structure sandwiched between two electrode Structure, fabrication and operation of devices with a single layer structure sandwiched between two electrode Resistive switching devices exploiting the charge transfer between metal electrode and metal nanoparticles Mechanisms for resistive switches Application of the resistive switching devices with nanoparticles.

1.