

1. Record Nr.	UNINA9910962139203321
Autore	Yupapin Preecha P
Titolo	Small scale optics // Preecha Yupapin, Jalil Ali
Pubbl/distr/stampa	Boca Raton, : Taylor & Francis, CRC Press, 2014
ISBN	9781040213018 1040213014 9780429168567 042916856X 9781628707557 1628707550 9781466592346 1466592346
Edizione	[1st ed.]
Descrizione fisica	1 online resource (180 p.)
Altri autori (Persone)	AliJalil
Disciplina	621.36/93
Soggetti	Photonics Integrated optics
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.
Nota di contenuto	Front Cover; Contents; Preface; Authors; Chapter 1 - Nonlinear PANDA Ring; Chapter 2 - Optical Bistability; Chapter 3 - Fast, Slow, Stopping, and Storing Light; Chapter 4 - Optical Spin; Chapter 5 - Nano-Antennas; Chapter 6 - Optical Mesh Network; Chapter 7 - Micro-Optical Gyroscope; Chapter 8 - Spin Transport Networks; Chapter 9 - Molecular Motor for Drug Delivery; Chapter 10 - Cancer Cell Treatment by Short Pulse Laser; Chapter 11 - Microsurgery; Chapter 12 - Radiotherapy Using Nano-Antennas; Chapter 13 - Neuron Cell Communications; Chapter 14 - Future Challenges; Back Cover
Sommario/riassunto	The behavior of light in small scale optics or nano/micro optical devices has shown promising results, which can be used for basic and applied research, especially in nanoelectronics. Small Scale Optics presents the use of optical nonlinear behaviors for spins, antennae, and whispering gallery modes within micro/nano devices and circuits, which can be used in many applications. This book proposes a new

design for a small scale optical device-a microring resonator device.
Most chapters are based on the proposed device, which uses a
configuration know as a PANDA ring resonator. Analytical and nu
