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ISBN	3-030-71516-7
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (179 pages)
Collana	Nano-Optics and Nanophotonics, , 2192-1989
Disciplina	621.365
Soggetti	Lasers Nanoscience Quantum optics Microtechnology Microelectromechanical systems Nanochemistry Atomic structure Molecular structure Laser Nanophysics Quantum Optics Microsystems and MEMS Atomic and Molecular Structure and Properties
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Interactions between high-intensity and ultrashort pulsed light and matters; Attosecond science -- Antenna-enhanced high order harmonic generation -- Highly efficient photoreaction systems using a strong coupling between nanocavity and plasmon -- Hot carrier engineering with transition metal nitrides -- Thermoelectric energy harvesting.
Sommario/riassunto	This book focuses on recent interconnected topics in nanophotonics written by scientists at the forefront of these fields. The book presents results of numerical investigations of light-matter interactions at the nanoscale and in the attosecond regime using first-principles

calculations while also discussing recent experimental developments of higher-order harmonic generation for the field of attosecond science. In addition to this, the book reviews recent advances in select topical areas such as highly efficiency solid-state light sources based on nanophotonics, plasmonic photochemical water splitting for efficient energy harvesting, and optical spectroscopy of single-walled carbon nanotubes with quite rich physics for future application in photonics.