

1. Record Nr.	UNINA9911031639603321
Autore	Ravindran Prasanth
Titolo	Photon to Power : Harvesting the Sun // edited by Prasanth Ravindran, Deepa K. G., Adersh Asok, Durga Shankar, Al Jumlat Ahmed
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9659-14-0
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (782 pages)
Collana	Progress in Optical Science and Photonics, , 2363-510X ; ; 32
Altri autori (Persone)	K. GDeepa AsokAdersh ShankarDurga AhmedAl Jumlat
Disciplina	621.36
Soggetti	Optics Materials Photonics Solar energy Physics Surfaces (Physics) Applied Optics Photonic Devices Solar Thermal Energy Applied and Technical Physics Surface and Interface and Thin Film
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Fundamentals of Photovoltaic Technologies -- 2. Silicon-Based Technologies for Solar to Photovoltaic Conversion -- 3. Thin-Film Solar Cells: An Overview of Materials and Fabrication Methods -- 4. Principles and Applications of Concentrated Solar Power Systems -- 5. Design and Optimization of Solar Thermal Collectors.
Sommario/riassunto	This book comprehensively explores the multifaceted realm of solar energy conversion, delving into various cutting-edge technologies and methodologies spanning photovoltaics, thermal energy conversion, electrochemical energy conversion, innovative approaches, and solar

optics. It provides a thorough understanding of the principles, advancements, and challenges across these domains, catering to researchers, practitioners, and academics in the field of optical sciences and photonics.
