

1. Record Nr.	UNINA9910299620103321
Titolo	Organic and Hybrid Solar Cells // edited by Hui Huang, Jinsong Huang
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-10855-7
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (342 p.)
Disciplina	620.11 621.042 621.3126
Soggetti	Energy storage Energy systems Materials science Energy Storage Energy Systems Characterization and Evaluation of Materials
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 at the end of each chapters.
Nota di contenuto	Introduction to Organic/Hybrid Solar Cells (OSC) -- Charge Transport and Recombination in OSC -- Donor Materials for OSC -- N-type Electron Accepting Materials for OSC -- Interfacial Layers in OSC -- Alternative Electrodes for OSC -- Inverted Organic Solar Cells -- Stability of OSC -- Research Progress and Manufacturing Techniques for Large Area Polymer Solar Cells -- Hybrid Solar Cells.
Sommario/riassunto	This book delivers a comprehensive evaluation of organic and hybrid solar cells and identifies their fundamental principles and numerous applications. Great attention is given to the charge transport mechanism, donor and acceptor materials, interfacial materials, alternative electrodes, device engineering and physics, and device stability. The authors provide an industrial perspective on the future of photovoltaic technologies.