1. Record Nr. UNINA9910298611603321

Autore	Lei Ting
Titolo	Design, Synthesis, and Structure-Property Relationship Study of Polymer Field-Effect Transistors / / by Ting Lei
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-45667-2
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (124 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	621.381 621.3815284
Soggetti	Optical materials Electronic materials Polymers Electronics Microelectronics Renewable energy resources Optical and Electronic Materials Polymer Sciences Electronics and Microelectronics, Instrumentation Renewable and Green Energy
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	Introduction -- Side Chain Effects and Design of Isoindigo-Based Polymers -- Ambipolar Polymer Field-Effect Transistors Based on Functionalized Isoindigo -- BDOPV-A Strong Electron-Deficient Building Block for Polymer Field-Effect Transistors -- Summary and Outlook.
Sommario/riassunto	The book summarizes Ting Lei’s PhD study on a series of novel conjugated polymers for field-effect transistors (FETs). Studies contain many aspects of polymer FETs, including backbone design, side-chain engineering, property study, conformation effects and device fabrication. The research results have previously scattered in many important journals and conferences worldwide. The book is likely to be

of interest to university researchers, engineers and graduate students in materials sciences and chemistry who wish to learn some principles, strategy, and applications of polymer FETs.