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Autore	Bauman, Zygmunt
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Altri autori (Persone)	Minucci, Sergio
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Lingua di pubblicazione	Italiano
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2. Record Nr.	UNINA9910139397403321
Autore	Yan Donghang
Titolo	Introduction to organic semiconductor heterojunctions [[electronic resource] /] / Donghang Yan, Haibo Wang, Baoxun Du
Pubbl/distr/stampa	Singapore, : Wiley, c2010
ISBN	1-282-81681-0 9786612816819 0-470-82595-2 0-470-82596-0
Descrizione fisica	1 online resource (262 p.)
Altri autori (Persone)	WangHaibo <1978-> DuBaoxun
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Soggetti	Heterojunctions Organic semiconductors
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	INTRODUCTION TO ORGANIC SEMICONDUCTOR HETEROJUNCTIONS; Contents; Foreword; Preface; About the Authors; 1 Organic Heterostructure in Electronic Devices; 1.1 Organic Light-Emitting Diodes; 1.2 Ambipolar Organic Field-Effect Transistors; 1.3 Organic Photovoltaic Cells; 1.4 Parameters in Thin-Film Transistors; References; 2 Weak Epitaxy Growth of Organic Semiconductor Thin Film; 2.1 Fabrication of Organic Ultrathin Film by Vacuum Deposition; 2.1.1 Organic Thin Film of Molecular Beam Epitaxy; 2.1.2 Organic Thin Film of Vapor Deposition; 2.1.3 Oriented Organic Molecular Thin Film 2.1.4 Organic Molecular Thin Film of Vapor Deposition Controlled by Kinetics and Thermodynamics2.2 Vapor-Deposited Thin Film of Rod-Like and Banana-Shaped Organic Molecules; 2.2.1 Vapor-Deposited Thin Film of Pentacene; 2.2.2 Vapor-Deposited Thin Film of - Hexathiophene; 2.2.3 Vapor-Deposited Thin Film of Banana-Shaped Organic Molecule; 2.2.4 Vapor-Deposited Thin Film of Para-Sexiphenyl; 2.3 Heteroepitaxy of Disk-Like Organic Molecule on Para-Sexiphenyl Ultrathin Film by Vapor Deposition; 2.3.1 p-6P and Planar Metal Phthalocyanines; 2.3.2 p-6P and Nonplanar Metal Phthalocyanine

2.3.3 Heteroepitaxy Growth of Perylene Diimide Derivatives on p-6P2.4 Evolution of Film Growth 2,5-Bis (4-Biphenyl) Bithiophene (BP2T); 2.4.1 Growth Behavior of BP2T Thin Films; 2.4.2 Heteroepitaxy Growth of ZnPc on BP2T Thin Films; 2.5 Heteroepitaxy Between Disk-Like Molecules; 2.5.1 Stability of H2Pc Film Fabricated by WEG; 2.5.2 WEG of H2Pc Film by Kinetic Control; 2.5.3 Heteroepitaxy Growth of F16CuPc on H2Pc Thin Film; 2.6 Perspectives; 2.6.1 Nucleation Process of Organic Ultrathin Film; 2.6.2 Contacted and Oriented Process of the Nucleus on the Substrate 2.6.3 Liquid-Crystal-Like Behavior and Flexible Boundary of Organic Ultrathin Film 2.6.4 Extent of Liquid-Crystal-Like Behavior of Organic Ultrathin Film; 2.6.5 Weak Epitaxy Growth of Organic Ultrathin Film; References; 3 Interfacial Electronic Structure in Organic Semiconductor Heterojunctions; 3.1 Ambipolar Organic Transistors and Organic Heterostructures; 3.2 CuPc/F16CuPc Heterojunction Effect; 3.2.1 Normally On Operation Mode of CuPc/F16CuPc Heterojunction Transistors; 3.2.2 Experiment of Planar Heterojunction Diode; 3.2.3 Carrier Accumulation at CuPc/F16CuPc Heterojunction Interface 3.2.4 CuPc/F16CuPc Heterojunction Diodes with Reverse Rectifying Characteristics 3.2.5 Charge Accumulation Thickness in CuPc/F16CuPc Heterojunction Films; 3.2.6 Direct Measurement of CuPc/F16CuPc Interfacial Electronic Structure by UPS; 3.2.7 Difference in UPS Measurement Results; 3.3 Anderson Rule and Ideal Interfacial Electronic Structure of CuPc/F16CuPc Heterojunction; 3.3.1 Anderson Affinity Rule; 3.3.2 Ideal Interfacial Electronic Structure for the CuPc/F16CuPc Heterojunction; 3.4 Organic and Inorganic Semiconductor Heterojunction 3.4.1 Comparison of the Organic Accumulation Heterojunction and Inorganic p-n Homojunction

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#### Sommario/riassunto

It is well known that most important electronic devices use Schottky junctions and heterojunctions. Unfortunately there is not an advanced book introducing heterojunctions systematically. Introduction to Organic Semiconductor Heterojunctions fills the gap. In this book, the authors provide a comprehensive discussion and systematic introduction on the state-of-the-art technologies as well as application of organic semiconductor heterojunctions. First book to systematically introduce organic heterojunctions Arms readers with theoretical, experimental and appl

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3. Record Nr.	UNIORUON00210142
Autore	Genette, Gérard
Titolo	Figure III : discorso del racconto / Gérard Genette ; traduzione di Lina Zecchi
Pubbl/distr/stampa	Torino, : Einaudi, 1976
Descrizione fisica	332 p. ; 18 cm.
Disciplina	801
Soggetti	Critica letteraria - Saggi PROUST MARCEL
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia