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Nota di contenuto	Organic Electronics: Emerging Concepts and Technology; Contents; Preface; List of Contributors; 1 Nanoparticles Based on p-Conjugated Polymers and Oligomers for Optoelectronic, Imaging, and Sensing Applications: The Illustrative Example of Fluorene-Based Polymers and Oligomers; 1.1 Introduction; 1.2 Nanoparticles Based on Fluorene Polymers; 1.2.1 Optoelectronic Applications; 1.2.1.1 Characterization of Nanoparticles; 1.2.1.2 Nanoparticle Film Fabrication and Characterization; 1.2.1.3 OLEDs; 1.2.1.4 Solar Cell Applications; 1.2.2 Imaging and Sensing Applications 1.2.2.1 Characterization of Nanoparticles1.2.2.2 Biosensing; 1.2.2.3 Bioimaging; 1.3 Nanoparticles Based on Fluorene Oligomer; 1.3.1 Characterization; 1.3.2 Nanoparticles for Sensing and Imaging; 1.4 Conclusions and Perspectives; References; 2 Conducting Polymers to Control and Monitor Cells; 2.1 Introduction; 2.2 Conducting Polymers for Biological Applications; 2.2.1 Unique Benefits of Conducting Polymers; 2.2.2 Biocompatibility of Conducting Polymers; 2.2.3 Electrochemical Properties and Tools; 2.3 Conducting Polymers to

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Sommario/riassunto

An overview of the tremendous potential of organic electronics, concentrating on those emerging topics and technologies that will form the focus of research over the next five to ten years. The young and energetic team of editors with an excellent research track record has brought together internationally renowned authors to review up-and-coming topics, some for the first time, such as organic spintronics, iontronics, light emitting transistors, organic sensors and advanced structural analysis. As a result, this book serves the needs of experienced researchers in organic electronics, gradua