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Nota di contenuto	Discovering the Future of Molecular Sciences; Contents; Preface; List of Contributors; Part I Advanced Methodologies; Chapter 1 Supramolecular Receptors for the Recognition of Bioanalytes; 1.1 Introduction; 1.2 Bioanalytes; 1.3 Metal Complexes as Receptors for Biological Phosphates; 1.3.1 Fluorescent Zn(II) Based Metal Complexes and Their Applications in Live Cell Imaging; 1.3.2 Chromogenic Zn(II)-Based Metal Receptors and Their Applications in Biological Cell Staining; 1.4 Functionalized Vesicles for the Recognition of Bioanalytes; 1.4.1 Polydiacetylene Based Chromatic Vesicles 1.4.1.1 PDA Based Receptors for Biological Phosphate1.4.1.2 PDA Based Receptors for Lipopolysaccharide; 1.4.1.3 PDA Based Receptors for Oligonucleotides and Nucleic Acids; 1.5 Boronic Acid Receptors for Diol-Containing Bioanalytes; 1.6 Conclusion and Outlook; Acknowledgment; References; Chapter 2 Methods of DNA Recognition; 2.1 Introduction; 2.2 Historical Outline: The Central Dogma; 2.3 Intermolecular Interaction between the Transcription Factors and the DNA; 2.3.1 The Structure of DNA and Its Role in the Recognition; 2.3.2 DNA Binding Domains of the TF

2.3.3 General Aspects of the Intermolecular Interactions between the TFs and the DNA2.4 Miniature Versions of Transcription Factors; 2.4.1 Synthetic Modification of bZIP Transcription Factors; 2.4.2 Residue Grafting; 2.4.3 Conjugation in Order to Develop DNA Binding Peptides; 2.5 Intermolecular Interaction Between Small Molecules and the DNA; 2.5.1 General Concepts; 2.5.2 Metallo-DNA Binders: From Cisplatin to Rh Metallo-Insertors; 2.5.3 Polypyrroles and Bis(benzamidine) Minor Groove Binders and Their Use as Specific dsDNA Sensors; 2.6 Outlook; Acknowledgments; References
Chapter 3 Structural Analysis of Complex Molecular Systems by High-Resolution and Tandem Mass Spectrometry3.1 Dissecting Molecular Complexity with Mass Spectrometry; 3.2 Advances in Fourier Transform Mass Spectrometry; 3.3 Advances in Mass Analyzers for FT-ICR MS; 3.4 Advances in Mass Analyzers for Orbitrap FTMS; 3.5 Applications of High-Resolution Mass Spectrometry; 3.6 Advances in Tandem Mass Spectrometry; 3.7 Outlook: Quo vadis FTMS?; 3.8 Summary and Future Issues; Acknowledgments; References
Chapter 4 Coherent Electronic Energy Transfer in Biological and Artificial Multichromophoric Systems4.1 Introduction to Electronic Energy Transfer in Complex Systems; 4.2 The Meaning of Electronic Coherence in Energy Transfer; 4.3 Energy Migration in Terms of Occupation Probability: a Unified Approach; 4.4 Experimental Detection of Quantum Coherence; 4.5 Electronic Coherence Measured by Two-Dimensional Photon Echo; 4.6 Future Perspectives and Conclusive Remarks; Acknowledgments; References; Chapter 5 Ultrafast Studies of Carrier Dynamics in Quantum Dots for Next Generation Photovoltaics 5.1 Introduction

Sommario/riassunto

A glimpse into the future of the European chemistry research landscape. Fifteen top contributions have been selected for this single volume covering areas of chemistry and materials science. The broad range is presented in an approachable and readable manner equally appropriate for non-specialists on the topic. The overview of intriguing topics includes chemical synthesis and advanced methodologies as well as materials, nanoscience and nanotechnologies.

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