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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 Phosphate 1.4.1.2 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 Polypyrrroles 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.

2. Record Nr.	UNINA9910969900503321
Titolo	Edinburgh companion to Scottish romanticism / / edited by Murray Pittock
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Descrizione fisica	1 online resource (265 p.)
Collana	Edinburgh Companions to Scottish Literature
Altri autori (Persone)	PittockMurray
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Soggetti	Romanticism - Scotland Scottish literature - 18th century - History and criticism Scottish literature - 19th century - History and criticism
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Copyright; Contents; Series Editors' Preface; INTRODUCTION What is Scottish Romanticism?; SECTION I The Scottish Public Sphere: Themes, Groups and Identities; CHAPTER ONE Ballads and Chapbooks; CHAPTER TWO Romantic Macpherson; CHAPTER THREE Scottish Song, Lyric Poetry and the Romantic Composer; CHAPTER FOUR Gaelic Literature and Scottish Romanticism; CHAPTER FIVE Travel Writing and the Picturesque; CHAPTER SIX Urban Space and Enlightened Romanticism; CHAPTER SEVEN Periodicals and Public Culture; CHAPTER EIGHT The Scottish National Tale; CHAPTER NINE Religion and Scottish Romanticism SECTION II Authors and TextsCHAPTER TEN Robert Burns and Romanticism in Britain and Ireland; CHAPTER ELEVEN Walter Scott's Romanticism: A Theory of Performance; CHAPTER TWELVE Byron; CHAPTER THIRTEEN John Galt's Fictional and Performative Worlds; CHAPTER FOURTEEN The Private Memoirs and Confessions of a Justified Sinner; CHAPTER FIFTEEN The Function of Linguistic Variety in Walter Scott's The Heart of Midlothian; Endnotes; Further Reading; Notes on

Contributors; Index

Sommario/riassunto

This is the first and only guide to Scottish Romanticism. It captures the best of critical debate as well as presenting exciting new approaches to a distinctively Scottish Romanticism in literary theory, religious studies, music and song and the thematic use of non standard English.