

1. Record Nr.	UNINA9910460278903321
Autore	Schmitz Oswald J
Titolo	Resolving ecosystem complexity [[electronic resource] /] / Oswald J. Schmitz
Pubbl/distr/stampa	Princeton, N.J., : Princeton University Press, 2010
ISBN	1-282-64173-5 9786612641732 1-4008-3417-1
Edizione	[Course Book]
Descrizione fisica	1 online resource (193 p.)
Collana	Monographs in population biology ; ; 44
Classificazione	WI 2050
Disciplina	577.8/2
Soggetti	Biotic communities Ecosystem management Biodiversity conservation Electronic books.
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 and index.
Nota di contenuto	Frontmatter -- Contents -- List of Illustrations -- List of Tables -- Preface -- CHAPTER 1. Introduction -- CHAPTER 2. Conceptualizing Ecosystem Structure -- CHAPTER 3. Trophic Dynamics: Why Is the World Green? -- CHAPTER 4. The Green World and the Brown Chain -- CHAPTER 5. The Evolutionary Ecology of Trophic Control in Ecosystems -- CHAPTER 6. The Whole and the Parts -- CHAPTER 7. The Ecological Theater and the Evolutionary Ecological Play -- Closing Remarks -- References -- Index -- Monographs in Population Biology
Sommario/riassunto	An ecosystem's complexity develops from the vast numbers of species interacting in ecological communities. The nature of these interactions, in turn, depends on environmental context. How do these components together influence an ecosystem's behavior as a whole? Can ecologists resolve an ecosystem's complexity in order to predict its response to disturbances? Resolving Ecosystem Complexity develops a framework for anticipating the ways environmental context determines the functioning of ecosystems. Oswald Schmitz addresses the critical questions of contemporary ecology: How should an ecosystem be conceptualized to blend its biotic and biophysical components? How

should evolutionary ecological principles be used to derive an operational understanding of complex, adaptive ecosystems? How should the relationship between the functional biotic diversity of ecosystems and their properties be understood? Schmitz begins with the universal concept that ecosystems are comprised of species that consume resources and which are then resources for other consumers. From this, he deduces a fundamental rule or evolutionary ecological mechanism for explaining context dependency: individuals within a species trade off foraging gains against the risk of being consumed by predators. Through empirical examples, Schmitz illustrates how species use evolutionary ecological strategies to negotiate a predator-eat-predator world, and he suggests that the implications of species trade-offs are critical to making ecology a predictive science. Bridging the traditional divides between individuals, populations, and communities in ecology, *Resolving Ecosystem Complexity* builds a systematic foundation for thinking about natural systems.

2. Record Nr.	UNINA9910437822703321
Titolo	Applications of MALDI-TOF Spectroscopy // edited by Zongwei Cai, Shuying Liu
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-35665-6
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (VII, 215 p. 61 illus., 10 illus. in color.)
Collana	Topics in Current Chemistry, , 0340-1022 ; ; 331
Disciplina	572.36
Soggetti	Mass spectrometry Biochemistry Bioorganic chemistry Mass Spectrometry Biochemistry, general Bioorganic Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.

Nota di contenuto

MALDI-ToF Mass Spectrometry for Studying Noncovalent Complexes of Biomolecules, by Stefanie Mädler, Elisabetta Boeri Erba, Renato Zenobi -- Application of MALDI-TOF-Mass Spectrometry to Proteome Analysis Using Stain-Free Gel Electrophoresis, by Iuliana Susnea, Bogdan Bernevic, Michael Wicke, Li Ma, Shuying Liu, Karl Schellander, Michael Przybylski -- MALDI Mass Spectrometry for Nucleic Acid Analysis, by Xiang Gao, Boon-Huan Tan, Richard J. Sugrue, Kai Tang -- Determination of Peptide and Protein Disulfide Linkages by MALDI Mass Spectrometry, by Hongmei Yang, Ning Liu, Shuying Liu -- MALDI In-Source Decay, from Sequencing to Imaging, by Delphine Debois, Nicolas Smargiasso, Kevin Demeure, Daiki Asakawa, Tyler A. Zimmerman, Loïc Quinton, Edwin De Pauw . Advances of MALDI-TOF MS in the Analysis of Traditional Chinese Medicines, by Minghua Lu, Zongwei Cai -- Chemical and Biochemical Applications of MALDI TOF-MS Based on Analyzing the Small Organic Compounds, by Haoyang Wang, Zhixiong Zhao, Yinlong Guo -- Bioinformatic Analysis of Data Generated from MALDI Mass Spectrometry for Biomarker Discovery, by Zengyou He, Robert Z. Qi, Weichuan Yu.

Sommario/riassunto

Stefanie Mädler Elisabetta Boeri Erba Renato Zenobi MALDI-ToF Mass Spectrometry for Studying Noncovalent Complexes of Biomolecules Iuliana Susnea Bogdan Bernevic Michael Wicke Li Ma Shuying Liu Karl Schellander Michael Przybylski Application of MALDI-TOF-Mass Spectrometry to Proteome Analysis Using Stain-Free Gel Electrophoresis Xiang Gao Boon-Huan Tan Richard J. Sugrue Kai Tang MALDI Mass Spectrometry for Nucleic Acid Analysis Hongmei Yang Ning Liu Shuying Liu Determination of Peptide and Protein Disulfide Linkages by MALDI Mass Spectrometry Delphine Debois Nicolas Smargiasso Kevin Demeure Daiki Asakawa Tyler A. Zimmerman Loïc Quinton Edwin De Pauw MALDI In-Source Decay, from Sequencing to Imaging Minghua Lu Zongwei Cai Advances of MALDI-TOF MS in the Analysis of Traditional Chinese Medicines Haoyang Wang Zhixiong Zhao Yinlong Guo Chemical and Biochemical Applications of MALDI TOF-MS Based on Analyzing the Small Organic Compounds Zengyou He Robert Z. Qi Weichuan Yu Bioinformatic Analysis of Data Generated from MALDI Mass Spectrometry for Biomarker Discovery.
