

1. Record Nr.	UNINA9910461807803321
Titolo	Introduction to natural products chemistry / / edited by Rensheng Xu, Yang Ye, Weimin Zhao
Pubbl/distr/stampa	Boca Raton, Fla. : , : CRC Press, , 2012
ISBN	0-429-06598-1 1-283-31173-9 9786613311733 1-4398-6077-7
Descrizione fisica	1 online resource (384 p.) : ill
Altri autori (Persone)	XuRensheng YeYang <1965-> ZhaoWeimin <1966->
Disciplina	547
Soggetti	Natural products - Analysis Biochemistry Electronic books.
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.
Nota di contenuto	Introduction, Ren-Sheng Xu Extraction and Isolation of Natural Products . Ren-Sheng Xu Extraction of Natural Products Separation of Natural Products Concluding Remarks Bibliography References Chemistry of Fungal Products, Zhi-Hong Xu Introduction Bioactive Fungal Metabolites Mycotoxins from Fungi Isolation and Structure Studies of Fungal Products Perspectives References Alkaloids, Ren-Sheng Xu and Yang Ye General Characterization, Identification and Isolation Classification Structural Investigations of Some Alkaloids Bibliography References Sesquiterpenoids, Zhong-Liang Chen Chemical Properties, Isolation and Purification Spectroscopic Analysis of Sesquiterpenes Artemisinin - Chemistry, Pharmacology, and Clinical Uses Recent Progress of Specific Sesquiterpenes References Diterpenes, Zhi-DaMin Main Diterpene Skeletons Biogenesis Labdanes Clerodanes Pimaranes Abietanes Cassanes and Totaranes Taxanes Tigllianes, Ingenanes and Daphnanes Jatrophanes and Lathyrane Myrsinols and Euphorstines Ginkgolides and Pseudolaric Acid References Saponins,

Wei-Min Zhao Introduction Extraction and Isolation of Saponins
Structure Determination of Saponins Biological Activity of Saponins
Triterpenoid Saponin Steroidal Saponins Bibliography References Amino
Acids and Peptides, Chang-Qi Hu and Jie-Cheng Xu Amino Acids
Peptides References Flavonoids, De-Yun Kong Overview Extraction and
Isolation of Flavonoids Identification and Structure Study of Flavonoids
Pharmacological Study of Flavonoids Flavonoids Assay Determination
and Formulation Conclusion References Anthraquinones, Yang Lu
Introduction Physical and Chemical Properties Extraction and Isolation
Spectral Characteristics Examples References Coumarins, Ze-Nai Chen
Introduction Structural Types Physical and Chemical Properties Isolation
Spectroscopic Identification Research Example References Lignans,
Chang-Qi Hu Introduction Structural Types and Characteristics of
Lignans Bioactivities of Lignans References Other Natural Bioactive
Compounds, Ren-Seng Xu Sulfur Compounds Cyanide Compounds
Coixenolide Resveratrol Muscone Cardiac Glycosides Bibliography
References Marine Natural Products, Yue-Wei Guo and Wen Zhang
Introduction Marine Plants Marine Invertebrates Marine Microorganisms
and Phytoplankton Miscellaneous Examples Epilogue (Outlook)
References Structural Modification of Active Principles from TCM, Da-
Yuan Zhu Introduction Anti-malaria Drug Artemether Anti-hepatitis
Drug Bifendate Anti-AD Drug Huperzine A Antiarrhythmia Drug
Changrolin Antineoplastic Drugs Computer-Aided Drug Design
References Chemical Synthesis of Natural Products, Wen-Hu Duan
Alkaloids Terpene Flavonoids Synthesis of Anthraquinones Lignans
Synthesis of Macrolide Antibiotics Bibliography References

Sommario/riassunto

A collection of the most important research results of natural product chemistry in China, this reference covers basic principles of isolation, structure, characteristics, and the current research techniques of structure elucidation with wet chemistry and spectroscopic analyses.
