1. Record Nr. UNINA9910483892503321

Titolo	Measuring arthropod biodiversity : a handbook of sampling methods / / Jean Carlos Santos, Geraldo Wilson Fernandes, editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] Â©2020
ISBN	3-030-53226-7
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XVII, 600 p. 172 illus., 155 illus. in color.)
Disciplina	591.38
Soggetti	Artròpodes Mostreig mediambiental Ecologia animal Biologia de la conservació Indicadors biològics Animal diversity Arthropoda Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Fungal by-products in Food Technology -- 2. Sampling and Analysis Methods for Ant Diversity Assessment -- 3. Bees - How and Why to Sample Them -- 4. Social Wasp Sampling Methods -- 5. Sampling Methods for Butterflies (Lepidoptera) -- 6. Sampling Methods for Beetles (Coleoptera) -- 7. Arthropods: Why it is so Crucial to Know Their Biodiversity? -- 8. Sampling Methods of True Fruit Flies (Tephritidae) -- 9. Sampling Methods for Dragonflies and Damselflies (Odonata) -- 10. Sampling Methods for Termites (Insecta: Blattaria: Isoptera) -- 11. Measuring Orthoptera Diversity -- 12. Hemiptera Sampling Methods -- 13. Collecting and Sampling Methods for Thrips -- 14. Techniques for Collection and Sampling of Pseudoscorpions (Arthropoda, Arachnida) -- 15. Standardized Sampling Methods and Protocols for Harvestman and Spider Assemblages -- 16. Sampling Galls and Galling Arthropods -- 17. Collecting, Rearing and Preserving Leaf-Mining Insects -- 18. Canopy Insect Sampling -- 19. Sampling

Methods for Soil and Litter Fauna -- 20. Sampling Methods for Aquatic Insects -- 21. Sampling Methods for Blood Feeding Insects Diversity -- Index.

Sommario/riassunto

This book brings together a wide range of sampling methods for investigating different arthropod groups. Each chapter is organised to describe and evaluate the main sampling methods (field methods, materials and supplies, sampling protocols, effort needed, and limitations); in addition, some chapters describe the specimen preparation and conservation, species identification, data collection and management (treatment, statistical analysis, interpretation), and ecological/conservation implications of arthropod communities. The book aims to be a reference for zoologists, entomologists, arachnologists, ecologists, students, researchers, and for those interested in arthropod science and biodiversity. We hope the book will contribute to advance knowledge on field assessments and conservation strategies. Arthropods represent the most speciose group of organisms on Earth, with a remarkable number of species and interactions still to be described. These invertebrates are recognized for playing key ecological roles in terrestrial, freshwater and marine ecosystems. Because of the increasing and relentless threats arthropods are facing lately due to a multitude of human induced drivers, this book represents an important contribution to assess their biodiversity and role in ecosystem functioning and generation of ecosystem services worldwide.