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Titolo	Handbook of Halophytes [[electronic resource]] : From Molecules to Ecosystems towards Biosaline Agriculture / / edited by Marius-Nicusor Grigore
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-17854-4
Descrizione fisica	1 online resource (X, 1190 p. 20 illus., 10 illus. in color.)
Disciplina	571.2
Soggetti	Plant physiology Plant ecology Agriculture Plant anatomy Plant development Climate change Ecosystems Plant Physiology Plant Ecology Plant Anatomy/Development Climate Change/Climate Change Impacts Halòfits Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Dealing with Halophytes as an ecological group of plants. Their Definition and classification -- A botanical history of Halophytes. From Theophrastus to nowadays -- An ecological overview of halophytes from Pakistan (Thar, Cholistan deserts) -- Biodiversity of halophytes of the Arctic zone - circumpolar -- Halophytes: A glimpse of Indian Sundarbans - a world heritage site, its existing status and sustainability -- Coastal salt marshes: structure and function of plant communities -- Halophytic vegetation in Bulgaria -- An ecological overview of

halophytes from arid inland environments of Argentina -- Bulgarian flora is related only to some species from Chenopodiaceae -- Halophytic vegetation in the Pannonian basin: syntaxonomy, threat and conservation -- Mediterranean halophytic flora and vegetation in the Iberian Peninsula (Spain and Portugal) -- Halophytes of central Argentina: diversity and ecology -- Armeria maritima (Mill.) Willd. in Romania's flora -- An ecological overview of halophytes from the Aralkum area -- An ecological overview of halophytes from inland areas in Central Europe -- A tentative list of Romanian halophytes: taxonomy, distribution, ecology -- Behavior of the invasive alien flora subjected to saline influence on coastal Mediterranean habitats -- Competition between halophytes and invasive species: Dittrichia viscosa and Inula crithmoides, a study case from the Valencian salt marshes -- Structure and conservation strategies of the littoral salt marshes vegetation at the East of Spain -- Endangered halophytes and its conservation: Lessons from Eastern Spain -- Relationships between communities of halophytes and soil in different areas of southeastern Spain -- Spartina genus in the Valencian litoral (Spain) -- Management and ecosystem services of halophytic vegetation -- Diversity of halophytes at the plant species and community level in Greece -- An overview on halophytes of Sudan and Horn of Africa -- Diversity and conservation of halophilous vegetation in W-Romania protected areas.

Sommario/riassunto

PRELIMINARY This handbook covers all important topics related to halophyte biology: definition, classification, morphology, anatomy, ultrastructure, physiology and ecophysiology, photosynthesis, biochemistry, genetics and genomics, saline environments and the rhizosphere, ecology, mangroves, biosaline agriculture and potential use of halophytes. Each topic is explained in detail and examined from various angles in order to offer a comprehensive view on this fascinating group of plants. The idea and the vision of this handbook are born from a need for having a treatise – in its encyclopaedic sense – that gathers all relevant knowledge about halophytes, which may play a key-role in an anxious scenarios regarding salinity threat in agriculture and food crisis.