

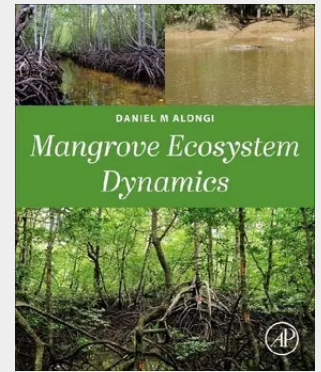
Mangrove Ecosystem Dynamics

Mangrove Ecosystem Dynamics presents a comprehensive account of the various functions of mangrove habitats, from spatial dynamics of intertidal ecosystems to nutrient and biogeochemical cycling in sediments, tidal and coastal waters, and dependent species. This process-oriented approach is necessary to further understand the role of these dynamic habitats in the coastal ocean, and as a next step towards developing adequate strategies for mangrove conservation, management, and sustainable use. Written by a leading expert in mangrove biology and tropical marine ecology, this book takes an energetics approach to summarize the latest developments and knowledge in the field of mangrove ecology. Initial chapters discuss the fundamentals of intertidal environments and the spatial and temporal dynamics of mangrove habitats. Latter chapters address recent advances in food web energetics in tidal waters, exploring benthic invertebrate, planktonic, fish, and arboreal food webs. Final sections detail decomposition of organic matter, nutrient cycling, and carbon sequestration. Mangrove Ecosystem Dynamics addresses rapidly emerging and vital issues of climate change, blue carbon, sustainable management and restoration, and the connectivity and interdependence between mangroves and other coastal habitats and species. This new work offers a comprehensive functional view of the current and future state of mangrove ecosystems that will greatly benefit coastal and marine biologists, resource managers, conservationists, and students alike.

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194,50 €

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vorbestellbar, Erscheinungstermin ca. Juni 2026

Artikelnummer: 9780443238215

Medium: Buch

ISBN: 978-0-443-23821-5

Verlag: Elsevier Science Publishing Co Inc

Erscheinungstermin: 01.06.2026

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2026

Produktform: Kartoniert

Gewicht: 450 g

Seiten: 580

Format (B x H): 191 x 235 mm

