

TAYLOR & FRANCIS

Marine & Aquatic Science





Welcome

We are presenting a selection of titles from our subject areas within Marine & Aquatic Science such as Marine Biology, Aquaculture and Oceanography.

For further information on any of these books or collections, please contact your local Taylor & Francis Sales representative.



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Aquatic Plants

Pharmaceutical and Cosmetic Applications

Edited by **Namrita Lall**, University of Pretoria Dept. of Plant Sciences Pretoria, Gauteng, South Africa

Aquatic Plants: Pharmaceutical and Cosmetic Applications provides a concise description of popular aquatic plants found across the globe. The chapters of this beautifully illustrated, full color book focus on the aquatic species native to a specific continent. The book explains the distribution, ethnobotanical uses, genome sequencing, chemical compounds and biological activity of these plants. Written by a global team of experts, it addresses the cultivation and sustainable production of aquatic and wetland plants.

CRC Press

Market: Life Science

July 2020: 254 x 178: 312pp

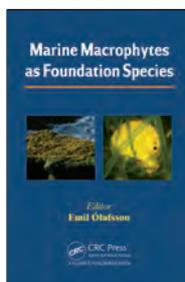
Hb: 978-1-138-36811-8: **£155.00**

Pb: 978-0-367-51846-2: **£61.99**

eBook: 978-0-429-42909-5

* For full contents and more information, visit: www.crcpress.com/9780367518462

Marine Macrophytes as Foundation Species



Edited by **Emil Olafsson**, Spanish Institute of Oceanography (IEO), Palma, Spain

Marine macrophytes (macroalgae, seagrasses, and mangroves) comprise thousands of species distributed in shallow water areas along the world's coastlines. They play a key role in marine ecosystems regarding biodiversity and energy flow. A large proportion of macrophyte species can be characterised as ecosystem engineers—organisms that directly or indirectly affect the availability of resources to other species by modifying, maintaining, and creating habitats. The book is among the first one to concentrate on the value of macrophytes for the well-being of marine habitats. The book is aimed at academics but may be useful for students, policy makers, and laymen alike.

CRC Press

Market: Life Sciences

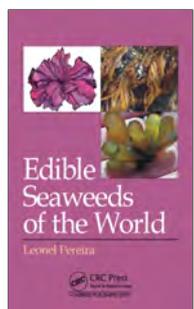
September 2016: 234x156: 285pp

Hb: 978-1-498-72324-4: **£95.00**

eBook: 978-1-498-72326-8

* For full contents and more information, visit: www.crcpress.com/9781498723244

Edible Seaweeds of the World



Leonel Pereira, University of Coimbra, Portugal

Seaweed is used in many countries for very different purposes - directly as food, especially in sushi, as a source of phycocolloids, extraction of compounds with antiviral, antibacterial or antitumor activity and as biofertilizers. About four million tons of seaweed are harvested annually worldwide. Of the various species known, less than 20 account for 90% of the biomass exploited commercially. This book details 147 species of edible seaweed, including scientific name and respective common names, geographic location, nutritional composition, uses and is extensively illustrated.

CRC Press

Market: Life Science

January 2016: 235 x 156: 463pp

Hb: 978-1-498-73047-1: **£165.00**

eBook: 978-0-429-15404-1

* For full contents and more information, visit: www.crcpress.com/9781498730471

Water Hyacinth

Environmental Challenges, Management and Utilization



Edited by **Shaohua Yan**, Jiangsu Academy of Agricultural Sciences, Nanjing, PR of China and **Jun Yao Guo**, Jim Sig-Can Technologies, Ottawa, Canada

The water hyacinth is a disruptive factor in aquatic ecosystem management and ecosystem services, and causes problems in fisheries, transportation waterways, irrigation, hydropower generation, and water resources. To address these concerns, it is necessary to integrate past studies with current research and innovations to identify where the knowledge gap is and to creatively assess and solve the problems in a global context. This book provides comprehensive coverage of new research and technological innovations for the application of controlling, managing, harvesting, postharvest processing and utilizing the water hyacinth.

CRC Press

Market: Life Science

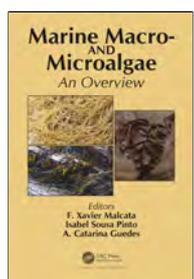
February 2017: 234x156: 345pp

Hb: 978-1-498-74389-1: **£105.00**

eBook: 978-1-498-74390-7

* For full contents and more information, visit: www.crcpress.com/9781498743891

Marine Macro- and Microalgae



Edited by **F. Xavier Malcata**, Universidade do Porto, Matosinhos, Portugal, **Isabel Sousa Pinto**, University of Porto, Portugal and **A. Catarina Guedes**, Centre of Marine & Environmental Research - CIIMAR, Porto, Portugal

The marine environment accounts for most biodiversity on our planet, while offering a huge potential for citizens' health and well-being. Its extensive resources already constitute the basis of many economic activities, but many more are expected in coming years. This book covers current knowledge on uses of marine algae to obtain bulk and fine chemicals, coupled with optimization of the underlying production and purification processes. Major gaps and potential opportunities in this field are discussed in a critical manner.

CRC Press

Market: Life Sciences

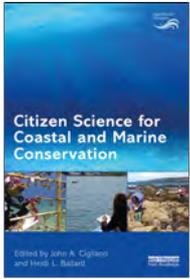
December 2018: 254 x 178: 334pp

Hb: 978-1-498-70533-2: **£135.00**

eBook: 978-1-315-11944-1

* For full contents and more information, visit: www.crcpress.com/9781498705332

Citizen Science for Coastal and Marine Conservation



Edited by **John A. Cigliano**, Cedar Crest College, USA and **Heidi L. Ballard**, University of California, Davis, USA

Series: *Earthscan Oceans*

In recent years citizen science has emerged as a powerful concept to enable the general public, students and volunteers to become involved in scientific research. A prime example is in nature conservation, where data collection and environmental monitoring can be greatly enhanced through citizen participation. This is the first book to provide much needed guidance and case studies from marine and coastal conservation from around the world.

Routledge

Market: Environment & Sustainability / Biology / Education

November 2017: 234x156: 298pp

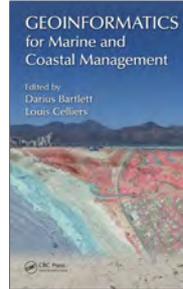
Hb: 978-1-138-19319-2: **£120.00**

Pb: 978-1-138-19322-2: **£39.99**

eBook: 978-1-315-63896-6

* For full contents and more information, visit: www.routledge.com/9781138193222

Geoinformatics for Marine and Coastal Management



Edited by **Darius Bartlett** and **Louis Celliers**

This book provides a timely and valuable assessment of the current state of the art geoinformatics tools and methods for the management of marine systems. This book focuses on the cutting-edge coverage of a wide spectrum of activities and topics such as GIS-based application of drainage basin analysis, contribution of ontology to marine management, geoinformatics in relation to fisheries management, hydrography, indigenous knowledge systems, and marine law enforcement.

CRC Press

Market: Environmental Science

December 2016: 234x156: 414pp

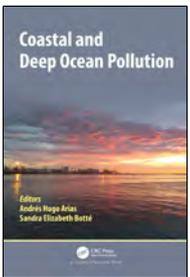
Hb: 978-1-498-73154-6: **£105.00**

Pb: 978-0-367-87368-4: **£54.00**

eBook: 978-1-315-18152-3

* For full contents and more information, visit: www.crcpress.com/9781498731546

Coastal and Deep Ocean Pollution



Edited by **Andres Hugo Arias**, Instituto Argentino de Oceanografía, Bahía Blanca, Argentina and **Sandra Elizabeth Botte**

The ocean, sea and coastal areas show varying degrees of impact from the multiple human activities carried out in the terrestrial as well as in the aquatic environment. For centuries it has been the final reservoir of human garbage; later it became an oil farm with a concomitant increase of coastal population growth and unplanned growth of the fishing industry and the increasing use of sea routes for cargo transport and recreational uses (cruises). All this led to rising contamination with negative effects on biota and even human health. The main purpose of this book, to document at a glance the latest research in the field of ocean

pollution.

CRC Press

Market: Life Science

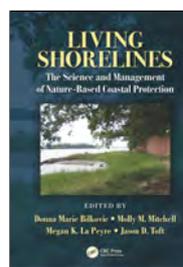
March 2020: 254 x 178: 346pp

Hb: 978-1-138-56939-3: **£155.00**

eBook: 978-0-203-70427-1

* For full contents and more information, visit: www.crcpress.com/9781138569393

Living Shorelines



Edited by **Donna Marie Bilkovic**, Virginia Institute of Marine Science, Gloucester Point, USA, **Molly M. Mitchell**, Virginia Institute of Marine Science, Gloucester Point, USA, **Megan K. La Peyre**, U.S. Geological Survey, Louisiana Cooperative Fish and Wildlife Research Unit, Baton Rouge, USA and **Jason D. Toft**, University of Washington, School of Aquatic and Fishery Sciences, Seattle, USA

Series: *CRC Marine Science*

Estuarine and coastal shorelines were managed primarily to support human infrastructure and economic benefits. As a result, ecosystem function has diminished. Shoreline management is evolving to embrace the use of nature-based shoreline erosion control approaches. This book is a synthesis of recent thinking and results from practitioners and researchers of Living Shorelines, which are intended to restore natural shoreline functions in estuarine, marine, and aquatic systems.

CRC Press

Market: Life Science

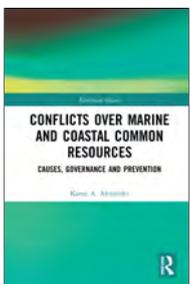
March 2017: 254 x 178: 499pp

Hb: 978-1-498-74002-9: **£75.00**

eBook: 978-1-315-15146-5

* For full contents and more information, visit: www.crcpress.com/9781498740029

Conflicts over Marine and Coastal Common Resources



Karen A. Alexander, University of Tasmania, Australia

Series: *Earthscan Oceans*

This book explores the types of conflicts that occur over marine and coastal resources, the underlying causes, and attempts to prevent them. This book will be of interest to students and researchers of coastal and marine science and environmental management as well as those working in the field of marine resource management, including coastal zone managers and fisheries managers.

Routledge

Market: Marine Science / Environmental Policy / Geography

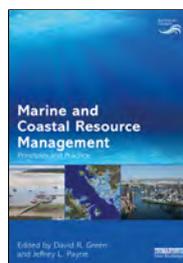
July 2019: 234x156: 164pp

Hb: 978-1-138-63525-8: **£120.00**

eBook: 978-1-315-20642-4

* For full contents and more information, visit: www.routledge.com/9781138635258

Marine and Coastal Resource Management



Edited by **David R. Green**, University of Aberdeen, Scotland, UK and **Jeffrey L. Payne**, Office for Coastal Management, NOAA, USA

Series: *Earthscan Oceans*

In this new and highly original textbook for a range of interdisciplinary courses and degree programmes focusing on marine and coastal resource management, readers are offered an introduction to the subject matter, a broad perspective and understanding, some case study applications, and a reference source. Each chapter is written by an international authority and expert in the respective field, bringing together perspectives from physical and human geography, marine biology and fisheries, planning and surveying, environmental change, engineering and tourism.

Routledge

Market: Environment & Sustainability/Natural Resource Management/Biodiversity & Conservation

September 2017: 246x174: 328pp

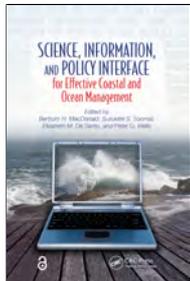
Hb: 978-1-849-71289-7: **£120.00**

Pb: 978-1-849-71290-3: **£43.99**

eBook: 978-0-203-12708-7

* For full contents and more information, visit: www.routledge.com/9781849712903

Science, Information, and Policy Interface for Effective Coastal and Ocean Management



Edited by **Bertrum H. MacDonald**, Dalhousie University, School of Information Management, Halifax, Nova Scotia, Canada, **Suzette S. Soomai**, Dalhousie University, School of Information Management, Halifax, Nova Scotia, Canada, **Elizabeth M. De Santo**, Department of Earth and Environment, Franklin & Marshall College, Lancaster, Pennsylvania, USA and **Peter G. Wells**

A collaborative effort among world experts, this book examines the role of information—particularly scientific information—in the policy-making and decision-making processes in coastal and ocean management. It explores the different types of science–policy interfaces existing within and between different organizations, as well as the various roles that different types of

non-governmental organizations play in producing and disseminating information. Useful to all major groups in the policy-making process, it increases understanding of catalysts and barriers to communicating research findings while pointing to directions for future research.

CRC Press

Market: Environmental Science

May 2016; 235 x 156; 474pp

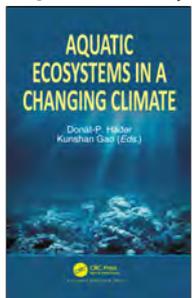
Hb: 978-1-498-73170-6; **£110.00**

Pb: 978-1-138-49083-3; **£50.99**

eBook: 978-0-429-15393-8

* For full contents and more information, visit: www.crcpress.com/9781498731706

Aquatic Ecosystems in a Changing Climate



Donat-P Häder and Kunshan Gao

Global climate change affects productivity and species composition of freshwater and marine aquatic ecosystems by raising temperatures, ocean acidification, excessive solar UV and visible radiation. Effects on bacterioplankton and viruses, phytoplankton and macroalgae have far-reaching consequences for primary consumers such as zooplankton, invertebrates and vertebrates, as well as on human consumption of fish, crustaceans and mollusks. It has affected the habitation of the Arctic and Antarctic oceans the most so far. Increasing pollution from terrestrial runoff, industrial, municipal and household wastes as well as marine transportation and plastic debris also affect aquatic ecosystems.

CRC Press

Market: Life Science

December 2018: 235 x 156: 318pp

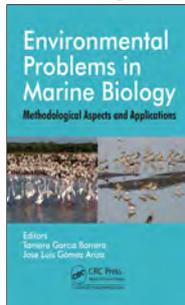
Hb: 978-1-138-35005-2: **£165.00**

eBook: 978-0-429-43613-0

* For full contents and more information, visit: www.crcpress.com/9781138350052

Environmental Problems in Marine Biology

Methodological Aspects and Applications



Edited by **Tamara Garcia Barrera**, University of Huelva, Spain and **Jose Luis Gomez Ariza**, University of Huelva, Spain

Marine environment can be affected by several pollution problems, such as the presence of elements and their chemical species, pharmaceuticals, and nanoparticles. Assessment strategies include proteomics, genomics, chemical speculation analysis, metallomics, and metabolomics. This book serves as a useful methodological tool for researchers and specialists in the fields of analytical chemistry, environmental sciences, biochemistry, genomics, and toxicology. It includes, for the first time, the methodological aspects and applications related to chemical speciation and -omics strategies applied to the marine environment.

CRC Press

Market: Life Science

May 2017: 254x178: 368pp

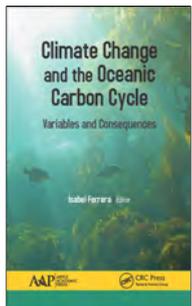
Hb: 978-1-482-26450-0: **£140.00**

eBook: 978-1-315-11911-3

* For full contents and more information, visit: www.crcpress.com/9781482264500

Climate Change and the Oceanic Carbon Cycle

Variables and Consequences



Edited by **Isabel Ferrera**, Marine Sciences Institute, Barcelona, Spain

This title includes a number of Open Access chapters.

This valuable compendium provides an overview of the variables and consequences of oceanic carbon cycling in the context of climate change. The chapters highlight the importance of marine plankton in carbon processing as well as the effects of rising CO₂ and temperature in their functioning. Edited by a researcher with many years of experience and with contributions from scientists from around the world, this volume explores the most important topics on climate change and oceanic carbon cycling.

Apple Academic Press

Market: Environmental Science

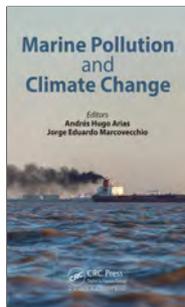
January 2017: 229 x 152: 304pp

Hb: 978-1-771-88536-2: **£105.00**

eBook: 978-1-771-88537-9

* For full contents and more information, visit: www.crcpress.com/9781771885362

Marine Pollution and Climate Change



Edited by **Andres Hugo Arias**, Instituto Argentino de Oceanografía, Bahía Blanca, Argentina and **Jorge Eduardo Marcovecchio**

This book presents a broad overview of pollution issues facing climatic, economic, and legal globalization. Topics include changes in oceans from ancient times to the present, the importance of marine currents and changing climates, marine pollution linked to climate change (fossil fuels, global carbon dioxide, heavy metals, pesticides, plastics, emerging pollutants, and marine debris), global shipping and species invasion, global climate change in the Arctic and Antarctic environments, and regulatory responses to mitigate pollution and climate change in oceans.

CRC Press

Market: Life Science

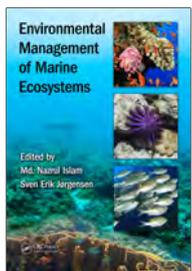
September 2017: 235 x 156: 336pp

Hb: 978-1-482-29943-4: **£125.00**

eBook: 978-1-315-11924-3

* For full contents and more information, visit: www.crcpress.com/9781482299434

Environmental Management of Marine Ecosystems



Edited by **Md. Nazrul Islam**, Jahangirnagar University, Savar, Dhaka, Bangladesh and **Sven Erik Jorgensen**, Copenhagen University, Denmark

Series: *Applied Ecology and Environmental Management*

This book will illustrate the current status, trends and effects of climate, natural disturbances and anthropogenic stressors on marine ecosystems. It shows how to integrate different management tools and models in an up-to-date, multidisciplinary approach to environmental management. Through several case studies, it provides a powerful framework for identifying management tools and their applications in coral reefs, fisheries, migratory species, marine islands and associated ecosystems such as mangroves and sea grass beds, including their ecosystem services, the threats to their sustainability, and the actions needed to protect them.

CRC Press

Market: Environmental Science

March 2018: 254 x 178: 362pp

Hb: 978-1-498-76772-9: **£185.00**

eBook: 978-1-498-76773-6

* For full contents and more information, visit: www.crcpress.com/9781498767729

Membrane Technology for Water and Wastewater Treatment, Energy and Environment



Edited by **A.F. Ismail**, AMTEC Materials and Manufacturing Alliance and **Takeshi Matsuura**, University of Ottawa

Series: *Sustainable Water Developments - Resources, Management, Treatment, Efficiency and Reuse*

Realizing that water, energy and food are the three pillars to sustain the growth of human population in the future, this book deals with all the above aspects with particular emphasis on water and energy. In particular, the book addresses applications of membrane science and technology for water and wastewater treatment, energy and environment. The readers are also offered a glimpse into the rapidly growing R & D activities in the ASEAN and the Middle East regions. This book is useful for all engaged

in the R & D field and for those who are interested in the sustainable development of these geographical regions.

CRC Press

Market: Environmental Technology

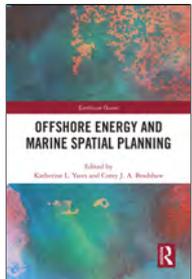
March 2016: 246x174: 330pp

Hb: 978-1-138-02901-9: **£100.00**

eBook: 978-0-429-22567-3

* For full contents and more information, visit: www.crcpress.com/9781138029019

Offshore Energy and Marine Spatial Planning



Edited by **Katherine L. Yates**, Flinders University, Australia and **Corey J. A. Bradshaw**, University of Adelaide, Australia
Series: Earthscan Oceans

Offshore energy generation is a rapidly growing sector, competing for space in an already busy seascape. This book brings together the ecological, economic and social implications of the spatial conflict this growth entails. Covering all energy-generation types (wind, wave, tidal, oil, and gas), it explores the direct and indirect impacts the growth of offshore energy generation has on both the marine environment and the existing uses of marine space.

Routledge

Market: Environment & Sustainability / Energy / Marine Biology

March 2018; 234x156; 300pp

Hb: 978-1-138-95453-3: **£120.00**

Pb: 978-0-367-50850-0: **£36.99**

eBook: 978-1-315-66687-7

* For full contents and more information, visit: www.routledge.com/9781138954533

Particulate Plastics in Terrestrial and Aquatic Environments

Edited by **Nanthi Bolan**, University of Newcastle, Newcastle, NSW, Australia, **M.B. Kirkham**, **Claudia Halsband**, **Dayanthi Nugegoda** and **Yong Sik Ok**

The manufacture of plastic as well as its indiscriminate disposal and destruction by incineration pollutes atmospheric, terrestrial, and aquatic ecosystems. Synthetic plastics do not break down, they accumulate in the environment as macro-, micro-, and nano-plastics. These particulate plastics are a major source of pollutants in soil and marine ecosystems. *Particulate Plastics: Sources and Ecotoxicity in Terrestrial and Aquatic Environments* provides a fundamental understanding of the sources of these plastics and the threats they pose. It demonstrates the ecotoxicity of particulate plastics using case studies and offers management practices to mitigate environmental contamination.

CRC Press

Market: Environmental Science

July 2020; 254 x 178; 392pp

Hb: 978-1-138-54392-8: **£155.00**

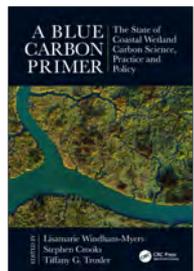
Pb: 978-0-367-51140-1: **£41.99**

eBook: 978-1-003-05307-1

* For full contents and more information, visit: www.crcpress.com/9780367511401

A Blue Carbon Primer

The State of Coastal Wetland Carbon Science, Practice and Policy



Edited by **Lisamarie Windham-Myers**, US Geological Survey, **Stephen Crooks**, Environmental Science Association, San Francisco, California, USA and **Tiffany G. Troxler**, Florida International University, Miami, USA

Series: *CRC Marine Science*

Blue Carbon has emerged as a term that represents the distinctive carbon stocks and fluxes into or out of coastal wetlands such as marshes, mangroves, and seagrasses. The Blue Carbon concept has been rapidly emerging in science literature and is highly relevant politically, as nations and markets are developing blue carbon monitoring and management tools and policies. This book is a comprehensive and current

compendium of the state of the science, the state of maps and mapping protocols, and the state of policy incentives (including economic valuation of blue carbon), with additional sections on operationalizing blue carbon projects and 7 case studies with global relevance.

CRC Press

Market: Life Science

November 2018: 254 x 178: 481pp

Hb: 978-1-498-76909-9: **£155.00**

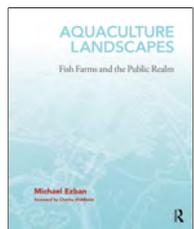
Pb: 978-0-367-89352-1: **£53.99**

eBook: 978-0-429-43536-2

* For full contents and more information, visit: www.crcpress.com/9781498769099

Aquaculture Landscapes

Fish Farms and the Public Realm



Michael Ezban, Virginia Polytechnic and State University, USA

Aquaculture Landscapes explores the landscape architecture of farms, reefs, parks, and cities that are designed to entwine the lives of fish and humans. With over two hundred evocative images, including ninety original drawings by the author, *Aquaculture Landscapes* is a richly illustrated portrayal of aquaculture seen through the disciplinary lens of landscape architecture. As the first book devoted to this topic, *Aquaculture Landscapes* is an original and essential resource for landscape architects, urbanists, animal geographers, aquaculturists, and all

who seek and value multispecies cohabitation of a shared public realm.

Routledge

Market: Landscape Architecture / Environment / Aquaculture

August 2019: 276x219: 252pp

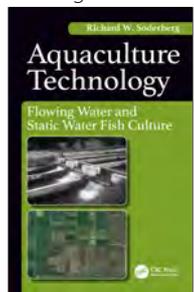
Hb: 978-1-138-21835-2: **£90.00**

eBook: 978-1-315-40478-3

* For full contents and more information, visit: www.routledge.com/9781138218352

Aquaculture Technology

Flowing Water and Static Water Fish Culture



Richard Soderberg W., Fisheries Program, Mansfield University, Mansfield, PA, USA

Aquaculture Technology: Static and Flowing Water Fish Culture will be the first book to provide the skills to raise fish in both a static water and a flowing water aquaculture system with a pragmatic and quantitative approach. Following in the tradition of the author's highly praised book, *Flowing Water Fish Culture*, this work will stand out as one that makes the reader understand the theory of each type of aquaculture system, but more importantly teach "how to think" rather than "what to think" about these systems. It can be used as a valuable reference for setting up aquaculture systems and for how to grow fish to be used in experiments involving nutrition, disease, water quality.

CRC Press

Market: Life Science

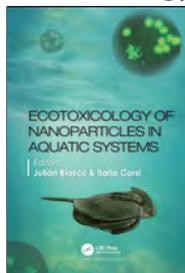
May 2017: 235 x 156: 272pp

Hb: 978-1-498-79884-6: **£85.00**

eBook: 978-1-315-19481-3

* For full contents and more information, visit: www.crcpress.com/9781498798846

Ecotoxicology of Nanoparticles in Aquatic Systems



Edited by **Julian Blasco** and **Ilaria Corsi**

The use of nanoparticles in medicine, industrial, and other applications has triggered an interest in their potential. This book explores the use of nanoparticles related to their occurrence in the environment, their impact on biota in aquatic systems, application of new methodologies, and changes associated with new global scenarios. The book also covers the bioaccumulation and internalization of nanoparticles as key aspects to assess their uptake and discusses the methodologies for testing ENPs ecotoxicity at different trophic levels.

CRC Press

Market: Environmental Science

July 2019: 254 x 178: 280pp

Hb: 978-1-138-06726-4: **£145.00**

eBook: 978-1-315-15876-1

* For full contents and more information, visit: www.crcpress.com/9781138067264

Enzymatic Technologies for Marine Polysaccharides



Edited by **Antonio Trincone**, Istituto di Chimica Biomolecolare, Consiglio Nazionale delle Ricerche, Pozzuoli, Napoli, Italy

This book will provide an overview of recent advances in research and technologies related to marine oligosaccharides and polysaccharides in that these molecules have important applications in biotherapeutics, foods, cosmetics, environmental protection and wastewater management. These are found in seaweed, microalgae, bacteria, and animal fish (shellfish, mollusks, etc.) It will also closely examine all sources and extraction techniques now commonly used and forthcoming within biotechnology and biopharmaceutical enzymatic

production. The latest techniques in biocatalysis of marine enzymes will be discussed.

CRC Press

Market: Biomedical Science

April 2019: 254 x 178: 527pp

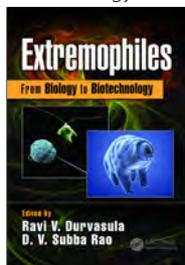
Hb: 978-1-138-10307-8: **£185.00**

eBook: 978-0-429-05865-3

* For full contents and more information, visit: www.crcpress.com/9781138103078

Extremophiles

From Biology to Biotechnology



Edited by **Ravi V. Durvasula**, University of New Mexico, Albuquerque, USA and **D. V. Subba Rao**, University of New Mexico, Albuquerque, USA

Extremophiles are nature's ultimate survivors, thriving in environments ranging from the frozen Antarctic to abyssal hot hydrothermal vents. Their lifeforms span bacteria to fishes, and are categorized as halophiles from hypersaline environments, acidophiles from acidic waters, psychrophiles from cold habitats, and thermophiles from warm waters. *Extremophiles: From Biology to Biotechnology* comprehensively covers the basic biology, physiology, habitats, secondary metabolites for bioprospecting, and biotechnology of these extreme survivors. The chapters

focus on the novel genetic and biochemical traits that lend these organisms to biotechnological applications.

CRC Press

Market: Life Science

January 2018: 254x178: 399pp

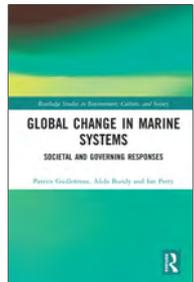
Hb: 978-1-498-77492-5: **£155.00**

eBook: 978-1-315-15469-5

* For full contents and more information, visit: www.crcpress.com/9781498774925

Global Change in Marine Systems

Societal and Governing Responses



Edited by **Patrice Guillotreau**, University of Nantes, France, **Alida Bundy**, Bedford Institute of Oceanography, Canada and **R. Ian Perry**

Series: Routledge Studies in Environment, Culture, and Society

Written by an international group of researchers from the natural and social sciences, Societal and governing responses to Global Change in Marine Systems analyses and appraises societal and governing responses to change, highlighting and explaining similarities and distinctions between successful, and less successful, responses. The authors present "I-ADApT", an analytical framework that enables decision makers to consider possible responses to global change, based on experiences elsewhere. Within this volume, I-ADApT is applied to 20

enlightening case studies covering a wide range of marine systems that have been challenged by critical global change issues around the world.

Routledge

Market: Sociology/Marine Biology/Geography

November 2017: 234x156: 348pp

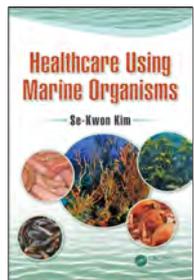
Hb: 978-1-138-05922-1: **£115.00**

Pb: 978-0-367-88651-6: **£36.99**

eBook: 978-1-315-16376-5

* For full contents and more information, visit: www.routledge.com/9781138059221

Healthcare Using Marine Organisms



Edited by **Se-Kwon Kim**, Korea Maritime and Ocean University, Busan, Tajeong ro, South Korea

This book provides a broad range of applications and recent advances in the search for healthcare materials from the sea. A narrative description of fundamentals as well as technological acumen are interesting features of this new work. It discusses in detail various aspects of healthcare products from marine organisms and the potentiality of marine derived substances such as marine algae derived compounds, fish derived materials, chitosan, shell fish compounds, etc., with their promising uses in pharmaceutical, cosmeceuticals and nutraceutical industries. All will be put forth through detailed descriptions related to biotechnological and biomedical applications.

CRC Press

Market: Biomedical Science

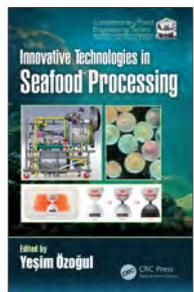
March 2018: 235 x 156: 276pp

Hb: 978-1-138-29538-4: **£160.00**

eBook: 978-1-315-10046-3

* For full contents and more information, visit: www.crcpress.com/9781138295384

Innovative Technologies in Seafood Processing



Edited by **Yesim Ozogul**, Cukurova University, Balcaly, Turkey

Series: Contemporary Food Engineering

Seafood is a very delicate product and deteriorates very quickly. Processing is necessary to prolong its shelf life and assure its safety. Innovative technologies have been developed as a result. This book provides updates on a number of novel process technologies - High-Pressure Processing, Irradiation, Ultrasound, Pulsed Electric Field, Radio-Frequency Processing, Sous-Vide Technology, Nanotechnological Applications) and highlights their effects on product quality and safety of the treated seafood. Two chapters focus on the development of safe, effective natural antimicrobials and additives used to replace synthetic alternatives.

CRC Press

Market: Food & Culinary Science

September 2019: 235 x 156: 376pp

Hb: 978-0-815-36644-7: **£155.00**

eBook: 978-0-429-32755-1

* For full contents and more information, visit: www.crcpress.com/9780815366447

Marine Extremes

Ocean Safety, Marine Health and the Blue Economy



Edited by **Erika Techera**, The University of Western Australia and **Gundula Winter**, The University of Western Australia
Series: Earthscan Oceans

Marine extremes, including climate and pollution, are having noticeable impacts on the world's oceans, coastlines and the people dependent on them. Drawing upon principles from the natural and social sciences, this book provides an interdisciplinary overview of Marine Extremes, assessing the impacts of them on communities, infrastructure and ecosystems. It also reviews forecasting methods to predict marine extremes, monitoring options and management and engineering measures to mitigate the impacts. It will be of interest to researchers of marine science, ocean law and governance and economics.

Routledge

Market: Environment & Sustainability / Geography / Law / Oceanography

January 2019: 234x156: 232pp

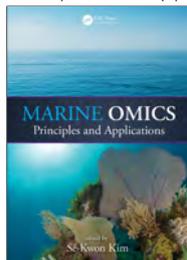
Hb: 978-1-138-59044-1: **£120.00**

eBook: 978-0-429-49102-3

* For full contents and more information, visit: www.routledge.com/9781138590441

Marine OMICS

Principles and Applications



Edited by **Se-Kwon Kim**, Pukyong National University, Busan, South Korea

This book provides comprehensive coverage on current trends in marine omics of various relevant topics such as genomics, lipidomics, proteomics, foodomics, transcriptomics, metabolomics, nutrigenomics, pharmacogenomics and toxicogenomics as related to and applied to marine biotechnology, molecular biology, marine biology, marine microbiology, environmental biotechnology, environmental science, aquaculture, pharmaceutical science and bioprocess engineering.

CRC Press

Market: Biomedical Science

August 2016: 254 x 178: 724pp

Hb: 978-1-482-25820-2: **£175.00**

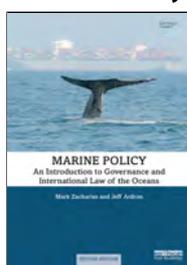
Pb: 978-0-367-87081-2: **£72.99**

eBook: 978-1-315-37230-3

* For full contents and more information, visit: www.crcpress.com/9781482258202

2nd Edition

Marine Policy



Mark Zacharias, Ministry of Environment & Climate Change Strategy, Canada and **Jeff Ardron**, Commonwealth Secretariat, UK

Series: Earthscan Oceans

This textbook provides readers with a foundation in policy development and analysis, describing how policy, including legal mechanisms, are applied to the marine environment. It presents a systematic treatment of all aspects of marine policy, including climate change, energy, environmental protection, fisheries, mining and transportation. Aligned with current course offerings, this textbook is an ideal introduction for undergraduates and graduate students taking marine affairs,

science and policy courses.

Routledge

Market: Environment & Sustainability / Environmental Policy

June 2019: 246x174: 322pp

Hb: 978-0-815-37926-3: **£120.00**

Pb: 978-0-815-37927-0: **£43.99**

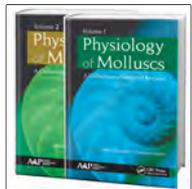
eBook: 978-1-351-21622-7

Prev. Ed Pb: 978-0-415-63308-6

* For full contents and more information, visit: www.routledge.com/9780815379270

Physiology of Molluscs

A Collection of Selected Reviews, Two-Volume Set



Edited by **Saber Saleuddin**, Point Pleasant, New Jersey, USA and **Spencer Mukai**, Point Pleasant, New Jersey, USA

Physiology of Molluscs: A Collection of Selected Reviews is an informative two-volume set that brings together some of the most important recent and unique developments in molluscan physiology. Volume One focuses on shell structure, mineralization, the dynamics of calcium transport, shell drilling, byssus proteins, locomotion, and reproduction. Volume Two

includes reviews on the neural mechanisms of learning, reproductive behavior, responses to environmental stress and hormones, and neurotransmitters.

Apple Academic Press

Market: Marine Science

November 2016: 235 x 156: 932pp

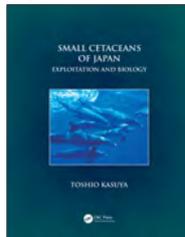
Hb: 978-1-771-88408-2: **£280.00**

eBook: 978-1-771-88409-9

* For full contents and more information, visit: www.crcpress.com/9781771884082

Small Cetaceans of Japan

Exploitation and Biology



Toshio Kasuya and **William Perrin**

This book summarizes and analyzes the biology, ecology, exploitation and management of small cetaceans in Japan. It describes the various types of cetacean fisheries in Japan and their historical development, the life histories and ecologies of the main species involved, and the history and problems of conservation and management. The data show that in some cases the takes and quotas have been in excess of sustainable limits and have led to depletion of populations. The book provides a case study of what can go wrong when the needs of industry and conservation collide. The descriptions of life history

and ecology are relevant to issues of conservation and management around the world.

CRC Press

Market: Life Science

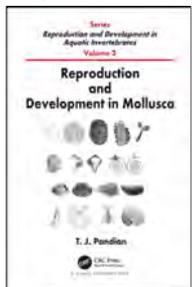
May 2017: 279 x 216: 476pp

Hb: 978-1-498-77900-5: **£165.00**

eBook: 978-1-315-39542-5

* For full contents and more information, visit: www.crcpress.com/9781498779005

Reproduction and Development in Mollusca



T. J. Pandian, Madurai Kamaraj University, Tamilnadu, India

Series: Reproduction and Development in Aquatic Invertebrates

Molluscs are comprised of edible abalones, snails, mussels, oysters, cuttlefish, and squids. Since there are over 100,000 different species of molluscan, it is not surprising that their reproductive processes are extremely varied. With chapters focusing on sexual and asexual reproduction, aestivation, and how to determine sex, *Reproduction and Development in Mollusca* will be a valuable tool for marine biologists studying the endogenous biosynthesis and sexual differentiation of molluscans.

CRC Press

Market: Life Science

August 2017: 235 x 156: 320pp

Hb: 978-1-138-71045-0: **£160.00**

eBook: 978-1-315-20063-7

* For full contents and more information, visit: www.crcpress.com/9781138710450

The Politics of Aquaculture

Sustainability Interdependence, Territory and Regulation in Fish Farming



Caitriona Carter, Irstea, France

Series: Routledge Studies in Environmental Policy

Aquaculture, including fish farming, is an increasingly important component of global fisheries. This book makes the case for treating the governance of this industry as meriting attention in its own right, using case studies of Scottish salmon, Aquitaine trout in France and seabass and seabream in Greece. It is aimed at advanced students, researchers and professionals in aquaculture and fisheries, as well as those in environmental sustainability politics and governance.

Routledge

Market: Environment and Sustainability / Politics / Geography / Agriculture & Food

June 2018: 234x156: 246pp

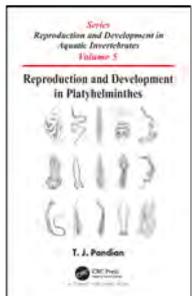
Hb: 978-1-138-49922-5: **£120.00**

Pb: 978-0-367-51096-1: **£36.99**

eBook: 978-1-351-01499-1

* For full contents and more information, visit: www.routledge.com/9781138499225

Reproduction and Development in Platyhelminthes



T. J. Pandian, Madurai Kamaraj University, Tamilnadu, India

Series: Reproduction and Development in Aquatic Invertebrates

Among aquatic invertebrates, Platyhelminthes ranks first, as they are harmful to man and his food basket. The book may also have a relevance for turbellarian stem cells for studies on cancer and senescence as well as that of parasitic trematodes and cestodes on the cost of human health and loss to his food basket from livestock and fishes.

CRC Press

Market: Statistics

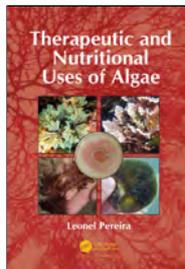
January 2020: 235 x 156: 306pp

Hb: 978-0-367-34805-2: **£126.00**

eBook: 978-0-367-36026-9

* For full contents and more information, visit: www.crcpress.com/9780367348052

Therapeutic and Nutritional Uses of Algae



Leonel Pereira, University of Coimbra, Portugal

Algae has been used since ancient times as food, fodder, fertilizer and medicine. Nowadays, seaweeds represent an unlimited source of raw materials used in pharmaceutical, food industries, medicine, and cosmetics. They are nutritionally valuable and utilized as ingredients in a wide variety of prepared foods. This book will cover the therapeutic and nutritional uses of algae and algal products, such as algal medicines, algotherapy, thalassotherapy, and seaweeds as healthy food.

CRC Press

Market: Life Science

February 2018: 254 x 178: 640pp

Hb: 978-1-498-75538-2: **£170.00**

eBook: 978-1-315-15284-4

* For full contents and more information, visit: www.crcpress.com/9781498755382

Biology and Ecology of Groupers

Edited by **Fabiana Cezar Felix Hackrad**, Universidade Federal de Pernambuco, Recife, Brazil, **Carlos Werner Hackrad**, Universidade Federal da Paraíba, Rio Tinto, Brazil and **Jose Antonio Garcia Charton**, University of Murcia, Spain

The three sections of this book provide an up-to-date review of the most important studies regarding groupers throughout the world. Section I, Biology, includes classification and phylogenetic relationships, geographical distribution and life history. Section II, Ecology, describes how life history characteristics determine patterns of occurrence and abundance in space and time and how this affects population structure and connectivity. Section III, Conservation, covers the major threats faced by groupers, providing case studies and what the future holds for groupers.

CRC Press

Market: Life Science

December 2020: 235 x 156: 425pp

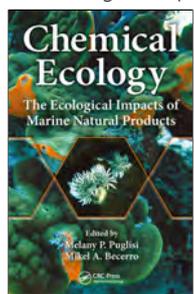
Hb: 978-1-482-25309-2: **£114.00**

eBook: 978-1-315-11887-1

* For full contents and more information, visit: www.crcpress.com/9781482253092

Chemical Ecology

The Ecological Impacts of Marine Natural Products



Edited by **Melany P. Puglisi**, Chicago State University, Illinois, USA and **Mikel A. Becerro**

During the past 20 years, marine chemical ecology has emerged as a respected field of study providing a better understanding of the role natural products play in organisms and their environments. Ample data in this book advocates the conservation of marine environments for future drug discovery efforts while sustaining their overall health. Marine chemical ecology has expanded to include research in the areas of predator-prey interactions, marine microbial chemical ecology, and seasonal and geographical distribution of marine natural products.

CRC Press

Market: Environmental Science

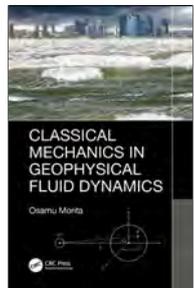
September 2018: 235 x 156: 400pp

Hb: 978-1-482-24880-7: **£170.00**

eBook: 978-0-429-45346-5

* For full contents and more information, visit: www.crcpress.com/9781482248807

Classical Mechanics in Geophysical Fluid Dynamics



Osamu Morita

This textbook for senior undergraduate and graduate students outlines and provides links between classical mechanics and geophysical fluid dynamics. It is particularly suitable for the mechanics and fluids dynamics courses of geophysics, meteorology, or oceanography students as well as serving as a general textbook for a course on geophysical fluid dynamics.

It describes the motions of rigid bodies and shows how classical mechanics has important applications of to geophysics, as in the precession of the earth, oceanic tide, and the retreat of the moon from the earth owing to the tidal friction.

CRC Press

Market: Geophysics

August 2019: 235 x 156: 306pp

Hb: 978-0-367-26649-3: **£76.99**

eBook: 978-0-429-29438-9

* For full contents and more information, visit: www.crcpress.com/9780367266493



Handbook of Algal Technologies and Phytochemicals - Two Volume Set



Edited by **Gokare A. Ravishankar**, Dayananda Sagar Institutions, Bangalore, India and **Ambati Ranga Rao**

This two-volume set explores the aspects of diversity of micro and macro algal forms, their traditional uses; their constituents which are of value for food, feed, specialty chemicals, bioactive compounds for several novel applications and bioenergy molecules. The industrial production systems, downstream processing, utilization of the biomass and the metabolites of importance for various applications are addressed. Innovations in production technologies, coupled with the biological activities

of their novel metabolites and molecules, offer tremendous scope for the exploitation of these micro and macro algal forms through industrial production processes in a sustainable manner.

CRC Press

Market: Life Science

August 2019: 254 x 178: 595pp

Hb: 978-0-367-17837-6: **£156.00**

eBook: 978-0-429-05799-1

* For full contents and more information, visit: www.crcpress.com/9780367178376

Handbook of Algal Technologies and Phytochemicals

Volume I - Food, Health and Nutraceutical Applications



Edited by **Gokare A. Ravishankar**, Dayananda Sagar Institutions, Bangalore, India and **Ranga Rao Ambati**

The first book in this two-volume set explores the diversity of algal constituents for health and disease applications. It looks in detail at algal genomics and metabolomics as well as mass production of microalgae. As a whole, this two-volume set covers all micro and macro algal forms and their traditional uses; their constituents which are of value for food, feed, specialty chemicals, bioactive compounds for novel applications, and bioenergy molecules.

CRC Press

Market: Life Science

July 2019: 279 x 216: 300pp

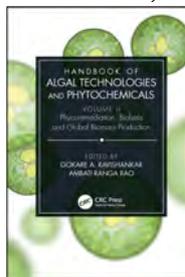
Hb: 978-0-367-14979-6: **£180.00**

eBook: 978-0-429-05424-2

* For full contents and more information, visit: www.crcpress.com/9780367149796

Handbook of Algal Technologies and Phytochemicals

Volume II - Phycoremediation, Biofuels and Global Biomass Production



Edited by **Gokare A. Ravishankar**, Dayananda Sagar Institutions, Bangalore, India and **Ranga Rao Ambati**

The second book in this two-volume set explores phycoremediation applications, and the sustainable use of algae for biofuels and other products of economic value. It also looks at aspects such as macro- and micro algal impact on marine ecosystem and remote sensing of algal blooms. As a whole, the two volumes explore the aspects of diversity of micro and macro algal forms, their traditional uses; their constituents which are of value for food, feed, specialty chemicals, bioactive compounds for novel applications, and bioenergy molecules.

CRC Press

Market: Life Science

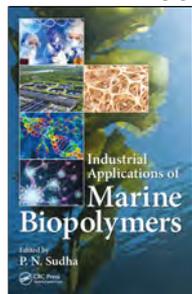
August 2019: 279 x 216: 295pp

Hb: 978-0-367-17819-2: **£140.00**

eBook: 978-0-429-05789-2

* For full contents and more information, visit: www.crcpress.com/9780367178192

Industrial Applications of Marine Biopolymers



Edited by Parappurath Narayanan Sudha

Industrial Applications of Marine Biopolymers presents different classes of marine biopolymers and their industrial applications, demonstrating the precious value of ocean resources to society.

CRC Press

Market: Chemistry

June 2017: 234x156: 608pp

Hb: 978-1-498-73148-5: £160.00

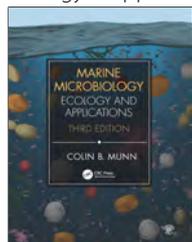
eBook: 978-1-315-31353-5

* For full contents and more information, visit: www.crcpress.com/9781498731485

3rd Edition

Marine Microbiology

Ecology & Applications



Colin B. Munn

The third edition of this bestselling text has been rigorously updated to reflect major new discoveries and concepts since 2011, especially progress due to extensive application of high-throughput sequencing, single cell genomics and analysis of large datasets. Significant advances in understanding the diversity and evolution of bacteria, archaea, fungi, protists, and viruses are discussed and their importance in marine processes is explored in detail. A Companion Website provides extra resources to aid teaching and learning.

CRC Press

Market: Life Science

January 2020: 279 x 216: 418pp

Hb: 978-0-367-18359-2: £119.99

Pb: 978-0-367-18356-1: £59.99

eBook: 978-0-429-06104-2

Prev. Ed Pb: 978-0-815-36517-4

* For full contents and more information, visit: www.crcpress.com/9780367183561



Marine Polysaccharides

Advances and Multifaceted Applications



Edited by Shakeel Ahmed and Aisvarya Soundararajan

This book focuses on marine polysaccharides; their derivatives, blends, composites and hydrogels; and their multifaceted applications in various fields. The book also discusses the various aspects of marine polysaccharides from the point of view of chemistry and related applications. It is an important reference for marine biotechnologists, natural product scientists, students, researchers and academicians working in the area of materials science, marine science and polymer chemistry.

Jenny Stanford Publishing

Market: Chemistry

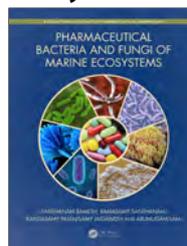
December 2018: 229 x 152: 308pp

Hb: 978-9-814-80049-5: £116.00

eBook: 978-0-429-05892-9

* For full contents and more information, visit: www.crcpress.com/9789814800495

Pharmaceutical Bacteria and Fungi of Marine Ecosystems



Santhanam Ramesh, Nehru College of Pharmacy, Kerala, India, Ramasamy Santhanam, Fisheries College and Research Institute, Tamilnadu, India, Kandasamy Palanisamy Jaiganesh and Arumugam Uma

Series: *Biology and Ecology of Marine Life*

This is the first comprehensive book on pharmaceutically important marine bacteria and fungi, based on a new concept "Marine Biopharmacy". It deals with the different species of bacteria and fungi present in seawater, sediment and in association with the marine fauna and flora; and their secondary metabolites and bioactivities. Microbe-associated infectious diseases remain the second-leading cause of death worldwide during the last 40 years, largely due to the emergence and spread of antimicrobial resistance among bacteria, fungi, virus, and parasites.

CRC Press

Market: Marine Biology

June 2020: 279 x 216: 272pp

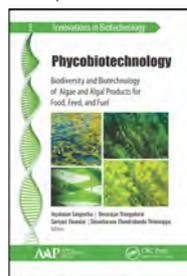
Hb: 978-0-367-36067-2: £185.00

eBook: 978-0-429-34362-9

* For full contents and more information, visit: www.crcpress.com/9780367360672

Phycobiotechnology

Biodiversity and Biotechnology of Algae and Algal Products for Food, Feed, and Fuel



Edited by Jeyabalan Sangeetha, Devarajan Thangadurai, Saniyasi Elumalai and Shivasharana Chandrabanda Thimmappa

Series: *Innovations in Biotechnology*

This volume explores and explains the vast uses and benefits of algae as food, feed, and fuel. It covers the most advanced applications of algae in the food and feed industries and for environmental sustainability. With chapters written by experts and which were extensively reviewed by many well-known subject experts and professionals, *Phycobiotechnology: Biodiversity and Biotechnology of Algae and Algal Products for Food, Feed, and Fuel* provides an abundance of valuable information.

Apple Academic Press

Market: Microbiology

September 2020: 229 x 152: 364pp

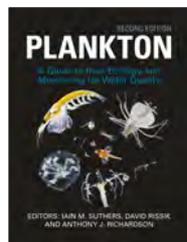
Hb: 978-1-771-88896-7: £139.00

eBook: 978-1-003-01951-0

* For full contents and more information, visit: www.crcpress.com/9781771888967

Plankton

Guide to Their Ecology and Monitoring for Water Quality



Iain Suthers, David Rissik and Anthony Richardson

This practical book provides a comprehensive introduction to the biology and ecology of plankton and describes its use as a tool for monitoring water quality. All the major freshwater and coastal phytoplankton and zooplankton groups are covered and their associated environmental issues are discussed. A chapter on best practice in sampling and monitoring explains how to design, implement and conduct meaningful phytoplankton and zooplankton monitoring programs in marine and freshwater habitats, as well as how to analyse and interpret the results for effective management decision-making. Real-life case studies demonstrate the use of plankton for identifying and monitoring water quality issues.

CRC Press

Market: Life Science

March 2019: 235 x 156: 248pp

Hb: 978-0-367-03016-2: £52.99

* For full contents and more information, visit: www.crcpress.com/9780367030162



Protocols for Macroalgae Research



Edited by **Bénédicte Charrier**, CNRS Station Biologique, France, **Thomas Wichard** and **C R K Reddy**

This book presents a wide range of tested and proven protocols relevant to a number of fields within biotechnology used in laboratory experiments in everyday phycological (seaweed) research. A major focus will be on bioenergy related aspects of this emerging technology. These protocols will be written in a clear and concise manner using simple language permitting even nonspecialist to adequately understand the significance of this research. It will also contain all necessary notes and guidelines for successful execution of these experiments.

CRC Press

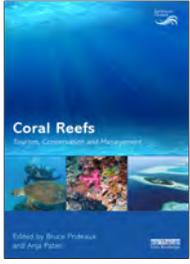
April 2018: 235 x 156: 496pp

Hb: 978-1-498-79642-2: **£165.00**

eBook: 978-1-498-79648-4

* For full contents and more information, visit: www.crcpress.com/9781498796422

Coral Reefs: Tourism, Conservation and Management



Edited by **Bruce Prideaux**, Central Queensland University, Australia and **Anja Pabel**, Central Queensland University, Australia

Series: Earthscan Oceans

Coral reefs are important destinations and resources for tourism and bring various benefits to local communities. However they are under increasing threat from climate change and its related impacts such as coral bleaching and ocean acidification, as well as from human activities. This book adopts a multidisciplinary approach to review these issues as they relate to the sustainable management of coral reefs, with case studies of all of the main coral reef systems of the world.

Routledge

Market: Environment & Sustainability / Tourism / Marine Biology

September 2018: 234x156: 288pp

Hb: 978-1-138-68983-1: **£120.00**

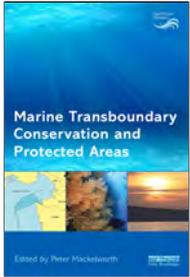
Pb: 978-1-138-49731-3: **£38.99**

eBook: 978-1-315-53732-0

* For **full contents** and more information, visit: www.routledge.com/9781138497313



Marine Transboundary Conservation and Protected Areas



Edited by **Peter Mackelworth**

Series: Earthscan Oceans

The marine environment does not naturally respect arbitrary international boundaries. The establishment and management of transboundary marine protected areas therefore presents major governance challenges. This book analyses a series of marine transboundary conservation initiatives embedded in varying contextual situations to examine the underlying reasons for their success or failure. It provides insights into the development of marine transboundary conservation initiatives looking at the effectiveness of international rules, international norms and discourse, market forces and direct access to policy making.

Routledge

Market: Environment & Sustainability / Marine Studies

May 2016: 234x156: 314pp

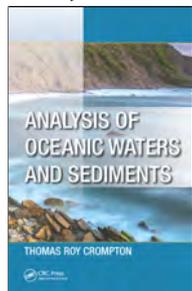
Hb: 978-1-138-85113-9: **£125.00**

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Analysis of Oceanic Waters and Sediments



Thomas Roy Crompton

The presence of concentrations of organic substances and cations in seawater is a matter of increasing concern to the water industry, environmentalists and the general public alike. Until fairly recently, seawater analysis was limited to a number of major constituents such as chloride and alkalinity. This reference draws attention to the methods available for analysing sediments in seawater. It covers classical methods and the most advanced and recently introduced physical techniques as well as their sensitivities and limitations.

CRC Press

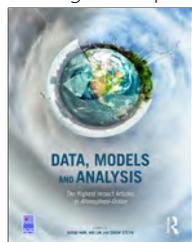
February 2016: 235 x 156: 297pp

Hb: 978-1-498-70152-5: **£155.00**

* For full contents and more information, visit: www.crcpress.com/9781498701525

Data, Models and Analysis

The Highest Impact Articles in 'Atmosphere-Ocean'



Edited by **Guoqi Han**, Fisheries and Oceans Canada, Northwest Atlantic Fisheries Centre, Canada, **Hai Lin**, Canadian Meteorological Centre, Canada and **Douw Steyn**, The University of British Columbia, Canada

This volume contains the ten most cited articles to appear in the journal *Atmosphere-Ocean* since 1995. These articles cover a wide range of topics in meteorology, climatology and oceanography. Modelling work is represented in five papers, and trend analysis work in a further four, with one final article representing field studies. While the modelling studies are global in their application and applicability, the data analysis and field

study papers cover environments that are specifically, but not uniquely, Canadian.

Routledge

Market: Environmental Science / Oceanography

May 2017: 279 x 216: 242pp

Hb: 978-1-138-04765-5: **£115.00**

Pb: 978-0-367-14311-4: **£38.99**

eBook: 978-1-315-17020-6

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Evolution of Extreme Waves and Resonances

Volume I

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Series: *Modeling of Extreme Waves in Technology and Nature*

The theory of waves is generalized on cases of strongly nonlinear waves, multivalued waves and particle-waves. The appearance of these waves in various continuous media and physical fields is explained by resonances and nonlinearity effects. Vast amounts of experimental data and compares them with the results of the developed theory are presented.

The book was written for Master's and Ph.D., students as well as for researchers and engineers in the fields of geophysics, nonlinear wave studies, cosmology, physical oceanography, and ocean and coastal engineering. It is designed as a professional reference for those working in the wave analysis and modeling.

CRC Press

Market: Engineering - Mechanical

June 2020: 235 x 156: 592pp

Hb: 978-0-367-48064-6: **£140.00**

eBook: 978-1-003-03850-4

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Extreme Waves and Shock-Excited Processes in Structures and Space Objects

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The book generalizes theory of waves on cases when waves change medium in which appear and propagate. A reaction of structural elements and space objects to the dynamic actions of the different nature, durations and intensities is studied.

CRC Press

Market: Engineering - Mechanical

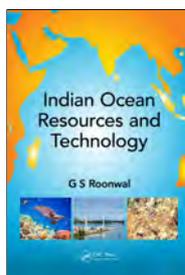
August 2020: 235 x 156: 376pp

Hb: 978-0-367-48065-3: **£140.00**

eBook: 978-1-003-03849-8

* For full contents and more information, visit: www.crcpress.com/9780367480653

Indian Ocean Resources and Technology



Ganpat Singh Roonwal

This title aims to provide comprehensive review of the existing activity and status within the Indian Ocean region with an aim to highlight major problem areas and producing suggestions for tapping huge resource potential in the Indian Ocean region.

CRC Press

Market: Environmental Science

October 2017: 254 x 178: 219pp

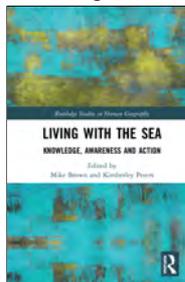
Hb: 978-1-138-09534-2: **£170.00**

eBook: 978-1-315-10569-7

* For full contents and more information, visit: www.crcpress.com/9781138095342

Living with the Sea

Knowledge, Awareness and Action



Edited by **Mike Brown**, Auckland University of Technology, New Zealand and **Kimberley Peters**, University of Liverpool, UK

Series: *Routledge Studies in Human Geography*

An 'oceanic turn' is now taking place across the humanities and social sciences, with a burgeoning of academic work emerging which takes seriously the place of seas and oceans in understanding socio-cultural and political life, past and present. This book asks how a range of engagements with the sea – from spatial planning, architectural design, seascape classification, to educational initiatives and proactive efforts to engage marginalised groups, can help us to better understand human relationships with the seas and oceans, and promote an ethic of care for the future. It brings together an interdisciplinary and international cohort of contributors from within and beyond academia.

Routledge

Market: Geography/Environmental studies

August 2018: 234x156: 244pp

Hb: 978-1-138-06207-8: **£120.00**

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Modeling of Extreme Waves in Technology and Nature, Two Volume Set

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Series: Modeling of Extreme Waves in Technology and Nature

Modeling of Extreme Waves in Technology and Nature presents unified theories of extreme waves, based on conservation and state equations of continuum or multiphase media. Cases of surface waves and waves arising in materials and physical fields under extreme conditions are analyzed, and modeling techniques demonstrated. The text examines natural extreme waves, and those resulting from man-made factors, such as underwater explosions; and connections to ship design are included. The presented theory is based on conservation and state equations of continuum or multiphase media.

CRC Press

Market: Engineering - Mechanical

June 2020: 235 x 156: 968pp

Hb: 978-1-138-47951-7: **£240.00**

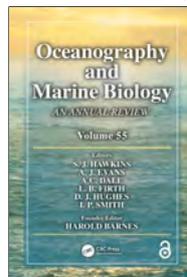
eBook: 978-1-351-05939-8

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Oceanography and Marine Biology

An Annual Review, Volume 55



Edited by **S. J. Hawkins**, University of Southampton, UK, **A. J. Evans**, Institute of Biological, Environmental and Rural Sciences, Aberystwyth University, United Kingdom, **A. C. Dale**, Scottish Association for Marine Science, Argyll, UK, **L. B. Firth**, School of Biological and Marine Sciences, Plymouth University, UK, **D. J. Hughes**, Scottish Association for Marine Science, Argyll, UK and **I. P. Smith**, School of Biological Sciences, University of Aberdeen, U.K.

Series: Oceanography and Marine Biology - An Annual Review

Oceanography and Marine Biology: An Annual Review remains one of the most cited sources in marine science and oceanography. The ever increasing interest in work in oceanography and marine biology and its relevance to global environmental issues, especially global climate change and its impacts, creates a demand for authoritative reviews summarizing the results of recent research.

CRC Press

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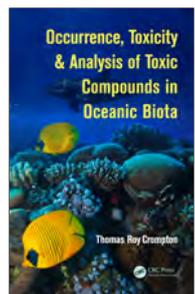
November 2017: 254 x 178: 488pp

Hb: 978-1-138-19786-2: **£160.00**

eBook: 978-1-315-27227-6

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Occurrence, Toxicity & Analysis of Toxic Compounds in Oceanic Biota



Thomas Roy Crompton

Occurrence, Toxicity and Analysis of Marine Biota discusses bioaccumulation in biota as well as occurrence and analysis of toxicants in biota. The main thrust of this book will be a review of the levels of toxicants found in the tissues of fish and invertebrates at various sites throughout the world. In addition, results will be reported on the levels of toxicants found in marine biota enabling ill health or death to occur. This will involve a discussion of toxicity index LC50 and percentile S95 concentration of toxicants and their implications on animal health and mortality, also that of humans who eat these sea creatures.

CRC Press

Market: Chemistry

October 2016: 234x156: 275pp

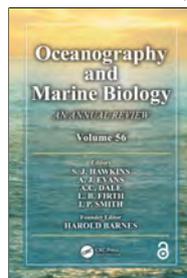
Hb: 978-1-498-70154-9: **£150.00**

eBook: 978-1-315-37188-7

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Oceanography and Marine Biology

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Oceanography and Marine Biology: An Annual Review remains one of the most cited sources in marine science and oceanography. The ever increasing interest in work in oceanography and marine biology and its relevance to global environmental issues, especially global climate change and its impacts, creates a demand for authoritative reviews summarizing the results of recent research.

CRC Press

Market: Life Science

November 2018: 254 x 178: 510pp

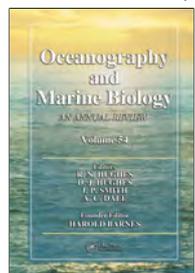
Hb: 978-1-138-31862-5: **£155.00**

eBook: 978-0-429-45445-5

* For full contents and more information, visit: www.crcpress.com/9781138318625

Oceanography and Marine Biology

An Annual Review, Volume 54



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CRC Press

Market: Life Science

December 2016: 254 x 178: 502pp

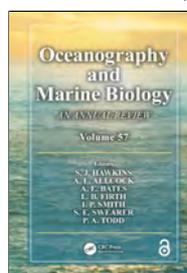
Hb: 978-1-498-74798-1: **£150.00**

eBook: 978-1-315-36859-7

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Oceanography and Marine Biology

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Series: Oceanography and Marine Biology - An Annual Review

Oceanography and Marine Biology: An Annual Review remains one of the most cited sources in marine science and oceanography. This volume covers topics that include resting cysts from coastal marine plankton, facilitation cascades in marine ecosystems, and the way that human activities are rapidly altering the sensory landscape and behaviour of marine

animals.

CRC Press

Market: Life Science

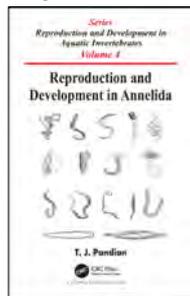
August 2019: 254 x 178: 434pp

Hb: 978-0-367-13415-0: **£163.00**

eBook: 978-0-429-02637-9

* For full contents and more information, visit: www.crcpress.com/9780367134150

Reproduction and Development in Annelida

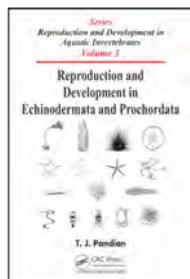


T. J. Pandian, Madurai Kamaraj University, Tamilnadu, India
Series: Reproduction and Development in Aquatic Invertebrates
 Reproduction and Development in Annelida will offer a comprehensive update to our knowledge of the reproduction and development of annelids. It will discuss the subjects of regeneration and asexual reproduction from the point of view of stem cells. The book will include a chapter on epitoky, which is unique to some errant polychaetes and has attracted the attention of a large number of zoologists through the years. Additionally, the book hopes to elevate annelids to an economic importance, not just academic, by devoting a chapter on worm culture.

CRC Press
Market: Life Science
 February 2019: 235 x 156: 278pp
 Hb: 978-0-367-18745-3: **£141.00**
 eBook: 978-0-429-19800-7

* For full contents and more information, visit: www.crcpress.com/9780367187453

Reproduction and Development in Echinodermata and Prochordata



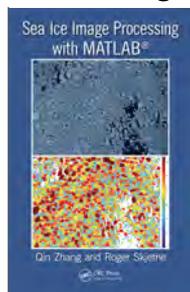
T. J. Pandian, Madurai Kamaraj University, Tamilnadu, India
Series: Reproduction and Development in Aquatic Invertebrates
 Reproduction and Development in Echinodermata and Prochordata focuses on the sexual and asexual modes of reproduction of solitary echinoderms, colonial hemichordates, and ascidians. This book focuses on the study of the primordial and embryonic stem cells found in echinoderms as early models for gene therapy in vertebrates. By studying the reproduction and development of echinoderms, researchers have learned how their genes have an extraordinary potency for regeneration and agametic cloning. These studies on reproduction and development have also led to abandoned coastal shrimp farms being restored for sea cucumber aquaculture, demonstrating

the importance of echinoderms in today's world.

CRC Press
Market: Life Science
 April 2018: 235 x 156: 270pp
 Hb: 978-0-815-36472-6: **£150.00**
 eBook: 978-0-815-36473-3

* For full contents and more information, visit: www.crcpress.com/9780815364726

Sea Ice Image Processing with MATLAB®



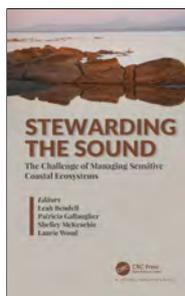
Qin Zhang, Department of Marine Technology, Norwegian University of Science and Technology (NTNU), Trondheim, Norway and **Roger Skjetne**
Series: Signal and Image Processing of Earth Observations
 The ice concentration data on a global scale are available on a daily basis due to microwave satellite sensors. Image processing for sea ice is vital to estimate the sea ice properties and understand the behavior of sea ice especially on a relatively small scale. Currently, sea ice concentration is estimated from lower-resolution passive microwave sensors. This book aims to present the most recent image processing techniques including the so-called gradient vector flow snake algorithm to identify individual ice floes from the ice images. It makes an extensive

use of this powerful technique to extract or estimate the sea-ice parameters and to develop tools useful to scientists and engineers.

CRC Press
Market: Environmental Science
 February 2018: 235 x 156: 242pp
 Hb: 978-1-138-03266-8: **£145.00**
 eBook: 978-1-351-06920-5

* For full contents and more information, visit: www.crcpress.com/9781138032668

Stewarding the Sound



Edited by **Leah Bendell**, Professor; Biological Sciences, Simon Fraser University, Burnaby, British Columbia, Canada, **Patricia Gallagher**, Adjunct Prof., Simon Fraser University, Canada, **Shelley McKeachie**, Professor; Biological Sciences, Simon Fraser University, Canada and **Laurie Wood**, Manager, Community Engagement & Research Initiatives, Faculty of Environment, Simon Fraser University, Burnaby, British Columbia, Canada

Stewarding the Sound uses different perspectives to build awareness of the wealth and fragility of this ecosystem by balancing economic and social needs with conservation. This book, the first ever compilation of the ecological importance of the Sound, demonstrates the cumulative stresses that are now

occurring within the Sound and the impact that these stresses are having on the ecosystem.

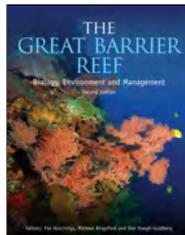
CRC Press
Market: Life Science
 May 2019: 234x156: 148pp
 Hb: 978-0-367-11203-5: **£95.00**
 eBook: 978-0-429-02530-3

* For full contents and more information, visit: www.crcpress.com/9780367112035

2nd Edition

The Great Barrier Reef

Biology, Environment and Management



Edited by **Pat Hutchings**, Australian Museum, Sydney, Australia, **Michael Kingsford**, James Cook University, Townsville, QLD, Australia and **Ove Hoegh-Guldberg**, Centre for Marine Studies, Queensland University, Brisbane, Australia

The iconic and beautiful Great Barrier Reef (GBR) Marine Park is home to one of the most diverse ecosystems in the world. With contributions from international experts, this timely and fully updated second edition of The Great Barrier Reef describes the animals, plants and other organisms of the reef, as well as the biological, chemical and physical processes that influence them. A must-read for the interested reef tourist, student, researcher

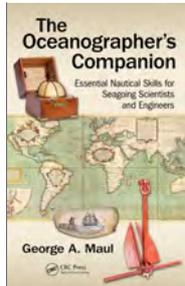
and environmental manager. While it has an Australian focus, it can equally be used as a reference text for most Indo-Pacific coral reefs.

CRC Press
Market: Marine & Aquatic Science
 February 2019: 270 x 210: 472pp
 Pb: 978-0-367-17428-6: **£66.99**

* For full contents and more information, visit: www.crcpress.com/9780367174286

The Oceanographer's Companion

Essential Nautical Skills for Seagoing Scientists and Engineers



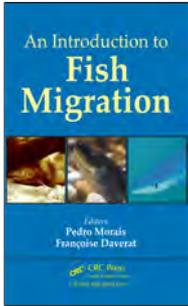
George Maul, Florida Institute of Technology, Melbourne, USA

Scientists and engineers embarking on their first voyage for oceanographic or meteorological research are often unprepared for the experience. Going to sea involves learning a new language – that of the seaman. This is necessary for clear communications, for the safety and well-being of the members of the scientific party and the ship's crew. Oceanographer's Companion is intended to familiarize a student with the basics of navigation, seamanship, marine engineering, communications, safety-of-life-at-sea, shiphandling, knots and splices, first aid, and so much more. The book will have a very practical feel with lots of examples.

CRC Press
Market: Oceanography
 March 2017: 235 x 156: 190pp
 Pb: 978-1-498-77306-5: **£90.00**
 eBook: 978-1-315-16452-6

* For full contents and more information, visit: www.crcpress.com/9781498773065

An Introduction to Fish Migration



Edited by **Pedro Morais**, eCIIMAR, Porto, Portugal and **Françoise Daverat**, Cemagref EPBX Research Unit, Cestas, France

Since the publication of *The Migrations of Fish* by Prof. Alexander Meek in 1916, a number of books have been published on this subject. However, most of these books only cover one type of migratory mechanisms. This book aims to overcome this drawback by presenting a comprehensive coverage of all life history strategies—amphidromy, diadromy, oceanodromy, and potadromy in one book.

CRC Press

Market: Marine Science

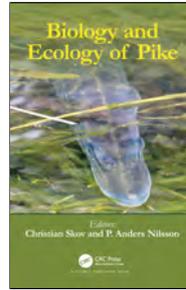
April 2016: 235 x 156: 315pp

Hb: 978-1-498-71873-8: **£105.00**

eBook: 978-0-429-08247-4

* For full contents and more information, visit: www.crcpress.com/9781498718738

Biology and Ecology of Pike



Edited by **Christian Skov**, Technical University of Denmark, Silkeborg and **P. Anders Nilsson**, Lund University, Sweden

This book sets out to bridge the order scales among pike researchers, populations, communities, management, and fisheries. It emphasizes the progress of pike research during the last two decades, during which the order-bridging approach emerged. This framework underpins the text and the message, to convey its importance to pike research and to fish research in general. In addition, a considerable part of the book is devoted to management implications and highlights aspects of human dimensions in recreational fisheries.

CRC Press

Market: Life Science

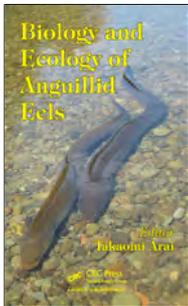
January 2018: 235 x 156: 402pp

Hb: 978-1-482-26290-2: **£170.00**

eBook: 978-1-315-11907-6

* For full contents and more information, visit: www.crcpress.com/9781482262902

Biology and Ecology of Anguillid Eels



Edited by **Takaomi Arai**

Anguillid eels have fascinated biologists for centuries due to their spectacular long-distance migrations between freshwater habitats and their spawning areas far out in the ocean. This book provides a long overdue update on the biology and ecology of anguillid eels and features comprehensive coverage of the key features of the genus *Anguilla*. It covers a broad spectrum of topics on the biology (taxonomy, phylogeny, evolution, reproduction, feeding, salinity adaptation) and ecology (life history, recruitment, migration) of anguillid eels. It also brings together important information on the state of eel fisheries, conservation, exploitation, and management.

CRC Press

Market: Life Science

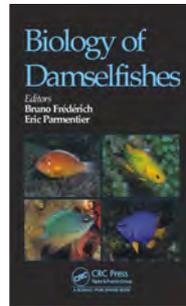
February 2016: 235 x 156: 340pp

Hb: 978-1-482-25515-7: **£150.00**

eBook: 978-0-429-08334-1

* For full contents and more information, visit: www.crcpress.com/9781482255157

Biology of Damselfishes



Edited by **Bruno Frédérich**, University of Liège, Belgium and **Eric Parmentier**, University of Liège, Belgium

Damselfishes (Pomacentridae) are highly conspicuous, diurnal inhabitants of mainly reef areas, capturing the attention of many scientists. Their high diversity and the many interesting characteristics dealing with their way of life (sound production, breeding biology, sex change, farming and gregarious behavior, settlement, diet, habitat) easily explain how this group is continually kept in the limelight and is the subject of numerous studies. This book gathers the data dealing with damselfish morphology, physiology, behavior, ecology and phylogeny. It contains 14 chapters written by renowned scientists.

CRC Press

Market: Life Science

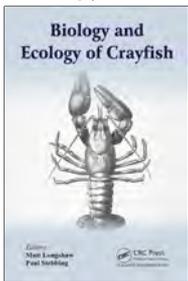
July 2016: 234x156: 340pp

Hb: 978-1-482-21209-9: **£105.00**

eBook: 978-1-482-21210-5

* For full contents and more information, visit: www.crcpress.com/9781482212099

Biology and Ecology of Crayfish



Edited by **Matt Longshaw**, FishVet Group, Inverness, UK and **Paul Stebbing**, Centre for Environment Fisheries and Aquaculture Science (CEFAS), Weymouth, UK

Written by world experts in astacology, this book covers a range of aspects of the biology and ecology of freshwater crayfish. With a strong focus on wild crayfish, the book studies the taxonomy and genetics of this interesting group of animals. Under examination also are crayfish growth and reproduction, with detailed illustrations; behavior and chemical ecology of crayfish; diseases of crayfish; holistic understanding of drivers for crayfish population success; and methods for the control of non-native crayfish.

CRC Press

Market: Marine Biology

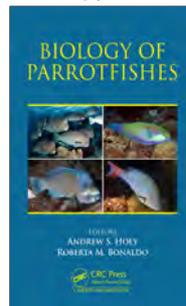
May 2016: 254 x 178: 375pp

Hb: 978-1-498-76732-3: **£165.00**

eBook: 978-0-429-08391-4

* For full contents and more information, visit: www.crcpress.com/9781498767323

Biology of Parrotfishes



Edited by **Andrew S. Hoey**, James Cook University, Townsville, Australia and **Roberta M. Bonaldo**, Universidade de São Paulo, Brazil

Parrotfishes (subfamily Scarinae, family Labridae), named for their brightly colored bodies and beaklike jaw, are a unique group of marine fishes that have captured the attention of researchers, conservationists and the general public worldwide. This book brings together the world's leading authorities on the evolution, biology, ecology, fisheries and conservation of parrotfishes. In doing so, it provides a comprehensive summary of the research conducted on this unique group of fishes and highlights emerging topics and future direction.

CRC Press

Market: Life Science

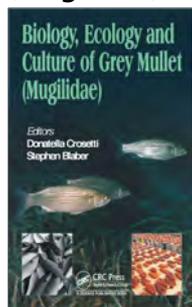
March 2018: 254 x 178: 420pp

Hb: 978-1-482-22401-6: **£170.00**

eBook: 978-1-315-11807-9

* For full contents and more information, visit: www.crcpress.com/9781482224016

Biology, Ecology and Culture of Grey Mulletts (Mugilidae)



Edited by **Donatella Crosetti**, ISPRA, Roma, Italy and **Stephen J.M. Blaber**, CSIRO Marine & Atmospheric Research, Brisbane, Australia

Mulletts (grey mulletts) are a family (*Mugilidae*) and order of ray-finned fish found in temperate and tropical waters worldwide. There are approximately 80 species of mullet; these fish have been considered an important food source in Mediterranean Europe since Roman times. This book provides a long overdue update on the biology and ecology of mulletts and features comprehensive coverage of the key features of the *Mugilidae* family, such as recent DNA evidence and morphological data that challenge the traditional taxonomy.

CRC Press

Market: Life Science

January 2016: 254 x 178: 539pp

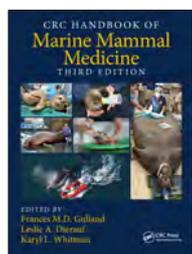
Hb: 978-1-482-25212-5: £125.00

eBook: 978-0-429-17475-9

* For full contents and more information, visit: www.crcpress.com/9781482252125

3rd Edition

CRC Handbook of Marine Mammal Medicine



Edited by **Frances M.D. Gulland**, Marine Mammal Center, Sausalito, California, USA, **Leslie A. Dierauf**, Seattle, Washington, USA and **Karyl L. Whitman**

The new edition of the CRC Handbook of Marine Mammal Medicine provides a thorough and international approach to the husbandry, diseases, and environmental and political issues relating to marine mammal health and well-being. It covers all aspects of disease and health in cetaceans, pinnipeds, manatees, sea otters, and polar bears. In addition to the documented data on anatomy, physiology, infectious diseases, surgery, pathology, diagnostic imaging, and tagging and tracking, there are sections on marine mammals as sentinels of ocean health, strandings

and rehabilitation, emerging diseases and public health considerations, legislative and regulatory issues, and careers in the field.

CRC Press

Market: Life Science

May 2018: 279 x 216: 1124pp

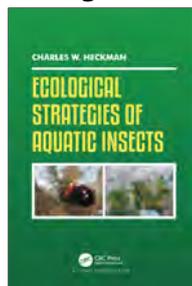
Hb: 978-1-498-79687-3: £140.00

eBook: 978-1-315-14493-1

Prev. Ed Hb: 978-0-849-30839-0

* For full contents and more information, visit: www.crcpress.com/9781498796873

Ecological Strategies of Aquatic Insects



Charles W. Heckman

This book recounts the habits of many interesting and unusual exceptions to the rule that insects are typically terrestrial forms of life. It examines the different ways that groups of species have developed modes of existence in or on the surface of water, and gives reasons why the gross morphology of insects is not favorable for life in or near bodies of water, such as wings that fail to function after coming into contact with water, rendering them useless.

CRC Press

Market: Life Science

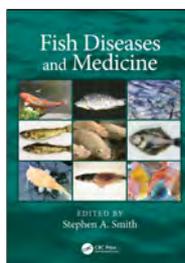
June 2018: 235 x 156: 346pp

Hb: 978-1-498-71922-3: £130.00

eBook: 978-1-315-11989-2

* For full contents and more information, visit: www.crcpress.com/9781498719223

Fish Diseases and Medicine



Edited by **Stephen A. Smith**, Virginia-Maryland College of Veterinary Medicine, USA

This comprehensive text provides an overview of fish medicine and the diseases and disorders of tropical, ornamental, bait and food fish from the freshwater, brackish and marine environments. The book is organized by body systems, an approach consistent with how a practitioner examines a diseased animal. Nineteen chapters by expert contributors offer an international perspective, exploring the problems affecting fish in various regions of the world.

CRC Press

Market: Veterinary Medicine

April 2019: 261 x 194: 398pp

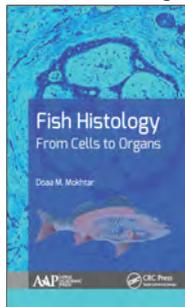
Hb: 978-1-498-72786-0: £80.00

eBook: 978-0-429-19525-9

* For full contents and more information, visit: www.crcpress.com/9781498727860

Fish Histology

From Cells to Organs



Doaa M. Mokhtar, Assiut University, Egypt

This new volume provides up-to-date information that emphasizes the relationships and concepts by which cell and tissue structures of fish are inextricably linked with their function. The book also describes the most recent development in the sciences of fish histology. Covers the normal histology of six fish species, the book provides detailed information on the histology of all organs of teleosts and includes 130 original photomicrographs, tables, updated terminology, and expanded information, with over 100 in color.

Apple Academic Press

Market: Marine & Aquatic Science

January 2018: 229 x 152: 264pp

Hb: 978-1-771-88589-8: £135.00

eBook: 978-1-315-20577-9

* For full contents and more information, visit: www.crcpress.com/9781771885898

Fishes Out of Water

Biology and Ecology of Mudskippers



Edited by **Zeehan Jaafar**, National University of Singapore and **Edward O. Murdy**, George Washington University, Washington DC, USA

Series: *CRC Marine Science*

Mudskipper fish are native to mangroves and mudflats of the Indo-West Pacific, with one representative in tropical west Africa. Many species emerge to forage and find mates during low tide, and are able to tolerate prolonged periods out of water. These habits, together with the speed and agility they travel on the muddy, exposed littoral surfaces, thus earned them the common name 'mudskippers'. They are equipped with both mechanical and physiological adaptations to traverse freely between aquatic

and terrestrial habitats and are thus the subjects of many studies spanning from physiology to behavior.

CRC Press

Market: Life Science

June 2017: 254 x 178: 390pp

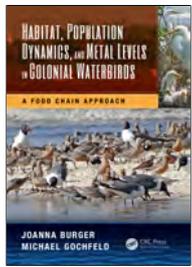
Hb: 978-1-498-71787-8: £100.00

eBook: 978-1-315-11986-1

* For full contents and more information, visit: www.crcpress.com/9781498717878

Habitat, Population Dynamics, and Metal Levels in Colonial Waterbirds

A Food Chain Approach



Joanna Burger, Rutgers University, Piscataway, New Jersey, USA and Michael Gochfeld, Rutgers University, Piscataway, New Jersey, USA

Series: *CRC Marine Science*

Based on longitudinal studies—some into their fifth decade—of colonial waterbirds, this book provides a clear picture of the corrosive effects of heavy metals in the aquatic environment today. Colonial-nesting birds can serve as excellent bioindicators and sentinels for both human and ecological health. This book takes a food-web, ecosystem approach to contaminants, using population dynamics, habitat selection, and inputs to the bay to examine metal levels. It includes the human dimension,

discusses what metals in birds tell us about human exposure, and describes stakeholder involvement in these issues.

CRC Press

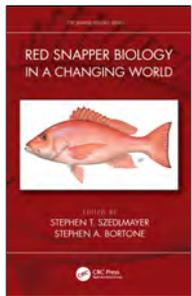
Market: Marine & Aquatic Science

June 2016: 254 x 178: 565pp

Hb: 978-1-482-25112-8: £110.00

* For full contents and more information, visit: www.crcpress.com/9781482251128

Red Snapper Biology in a Changing World



Edited by Stephen T. Szedlmayer, School of Fisheries, Aquaculture, and Aquatic Sciences, Auburn University, Fairhope, Alabama, USA and Stephen A. Bortone

Series: *CRC Marine Biology Series*

The book will provide a better understanding of Red Snapper population fluctuations that will subsequently allow for better management decisions and more informed user groups in their efforts to maintain a sustainable fishery. It explores the responses Red Snapper have made, and are making, relative to their life history attributes such as early life history and adult ecology, especially attributes associated with population distribution and abundance, movement patterns, fish health issues and management success.

CRC Press

Market: Life Science

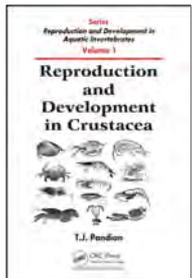
December 2019: 235 x 156: 290pp

Hb: 978-0-815-37406-0: £155.00

eBook: 978-1-351-24277-6

* For full contents and more information, visit: www.crcpress.com/9780815374060

Reproduction and Development in Crustacea



T. J. Pandian, Madurai Kamaraj University, Tamilnadu, India

Series: *Reproduction and Development in Aquatic Invertebrates*

Dating back to the early Cambrian period, crustaceans had ample time to undertake endless experimentation with form and function. Today, no other group of plants or animals on the planet exhibit the range of morphological diversity seen among extant Crustacea. With more than 52,000 species, they are placed fourth in terms of overall species diversity. This book comprehensively elucidates the reproduction and development of all the taxonomic groups of Crustacea and bridges the gap between conventional zoologists and molecular biologists. Reproductive modes from the point of embryonic stem cells and primordial germ cells is discussed with a special section on

cysts.

CRC Press

Market: Life Science

April 2016: 235 x 156: 315pp

Hb: 978-1-498-74828-5: £150.00

eBook: 978-0-429-19285-2

* For full contents and more information, visit: www.crcpress.com/9781498748285

Shark Research

Emerging Technologies and Applications for the Field and Laboratory



Edited by Jeffrey C. Carrier, Albion College, Michigan, USA, Michael R. Heithaus, Florida International University, Miami, Florida, USA and Colin A. Simpfendorfer

Series: *CRC Marine Biology Series*

The study of shark biology has benefited from the development, refinement, and rapid expansion of novel techniques and advances in technology. These have given new insight into shark genetics, feeding, foraging, bioenergetics, imaging, age and growth, movement, migration, habitat preference, and habitat use. This pioneering book, written by experts in shark biology, examines technologies such as autonomous vehicle tracking, underwater video approaches, molecular genetics techniques, and accelerometry, among many others. Each detailed chapter offers new insights and promises for future studies of elasmobranch biology and provides an overview of appropriate uses of each technique.

CRC Press

Market: Life Science

September 2018: 279 x 216: 392pp

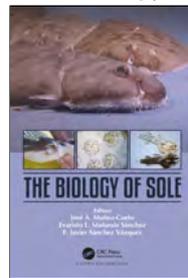
Hb: 978-1-138-03292-7: £155.00

Pb: 978-0-367-89343-9: £41.99

eBook: 978-1-315-31712-0

* For full contents and more information, visit: www.crcpress.com/9781138032927

The Biology of Sole



Edited by José A. Muñoz-Cueto, University of Cadiz, Spain, Evaristo Mañanós-Sánchez, Institute of Aquaculture of Torre de la Sal, CSIC, Spain and F. Javier Sánchez-Vázquez, University of Murcia, Spain

This book reviews up-to-date knowledge on the biology of sole (*Solea senegalensis* and *S. solea*). These flatfish species are increasingly important in Europe both from the ecological and production point of view. This book is divided into two sections: A. general fisheries, aquaculture and engineering overviews; B. physiological, developmental, rhythmic, welfare and genetic aspects with great interest for the aquaculture industry. Experts, from both academia and research institutes, provide their expertise on sole biology.

CRC Press

Market: Life Science

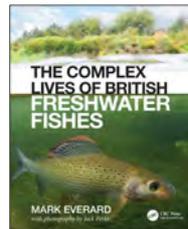
May 2019: 254x178: 396pp

Hb: 978-1-498-72783-9: £170.00

eBook: 978-1-315-12039-3

* For full contents and more information, visit: www.crcpress.com/9781498727839

The Complex Lives of British Freshwater Fishes



Mark Everard, University of the West of England, UK and Jack Perks

This stunningly illustrated book explores the fascinating life histories of Britain's freshwater fishes, a group of animals which, despite their importance and ubiquity in our diverse waters, has before now been rarely regarded and respected as 'wildlife'. It shows how freshwater fish provide food, ornamentation, sport and cultural identity, and highlights their huge importance for conservation. Featuring over 100 full-colour photographs by renowned photographer Jack Perks, this will appeal to conservationists, marine biology students, the

conservation-minded public, the angling community, and our nation of wildlife enthusiasts.

CRC Press

Market: Wildlife

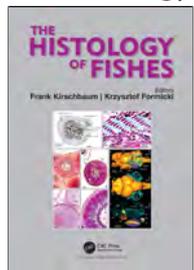
June 2020: 235 x 191: 352pp

Hb: 978-0-367-44032-9: £29.99

eBook: 978-1-003-00760-9

* For full contents and more information, visit: www.crcpress.com/9780367440329

The Histology of Fishes



Edited by **Krzysztof Formicki**, Westpomeranian University of Technology, Szczecin, Poland and **Frank Kirschbaum**, Humboldt University, Berlin, Germany

The book is a multi-authored book of 18 chapters comprising the state of the art work of all relevant topics on modern fish histology from 28 authors from ten countries. The topics include Introduction to Histological Techniques, Integument, Fish Skeletal Tissues, Muscular System, Structure and Function of Electric Organs, Digestive System, Glands of the Digestive Tract, Swim Bladder, Kidney, Ovaries and Eggs, Egg Envelopes, Testis Structure, Spermatogenesis, and Spermatozoa in Teleost Fishes, Cardiovascular System and Blood, Immune System of Fish, Gills: Respiration and Ionic-Osmoregulation, Sensory Organs, Morphology and Ecomorphology of the Fish Brain, and Endocrine System.

CRC Press

Market: Life Science

October 2019: 254 x 178: 448pp

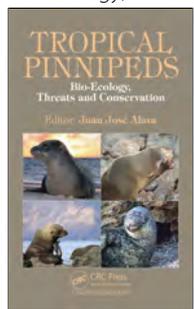
Hb: 978-1-498-78447-4: **£127.00**

eBook: 978-0-429-11358-1

* For full contents and more information, visit: www.crcpress.com/9781498784474

Tropical Pinnipeds

Bio-Ecology, Threats and Conservation



Edited by **Juan J. Alava**, Simon Fraser University, Burnaby, Canada

Pinnipeds are a fascinating group of marine mammals that play a crucial role as apex predators and sentinels of the functioning and health of marine ecosystems. They are found in the most extreme environments from the Polar regions to the tropics. Pinnipeds are comprised of about 34 species, and of those at least 25% live permanently in tropical zones. This book reviews and updates current research on the biology, marine ecology, bio-monitoring, and conservation of tropical pinniped populations, including their behavior, anthropogenic stressors, and health. It also looks at challenges to be faced for the conservation of tropical pinnipeds, many of which are threatened species.

CRC Press

Market: Life Science

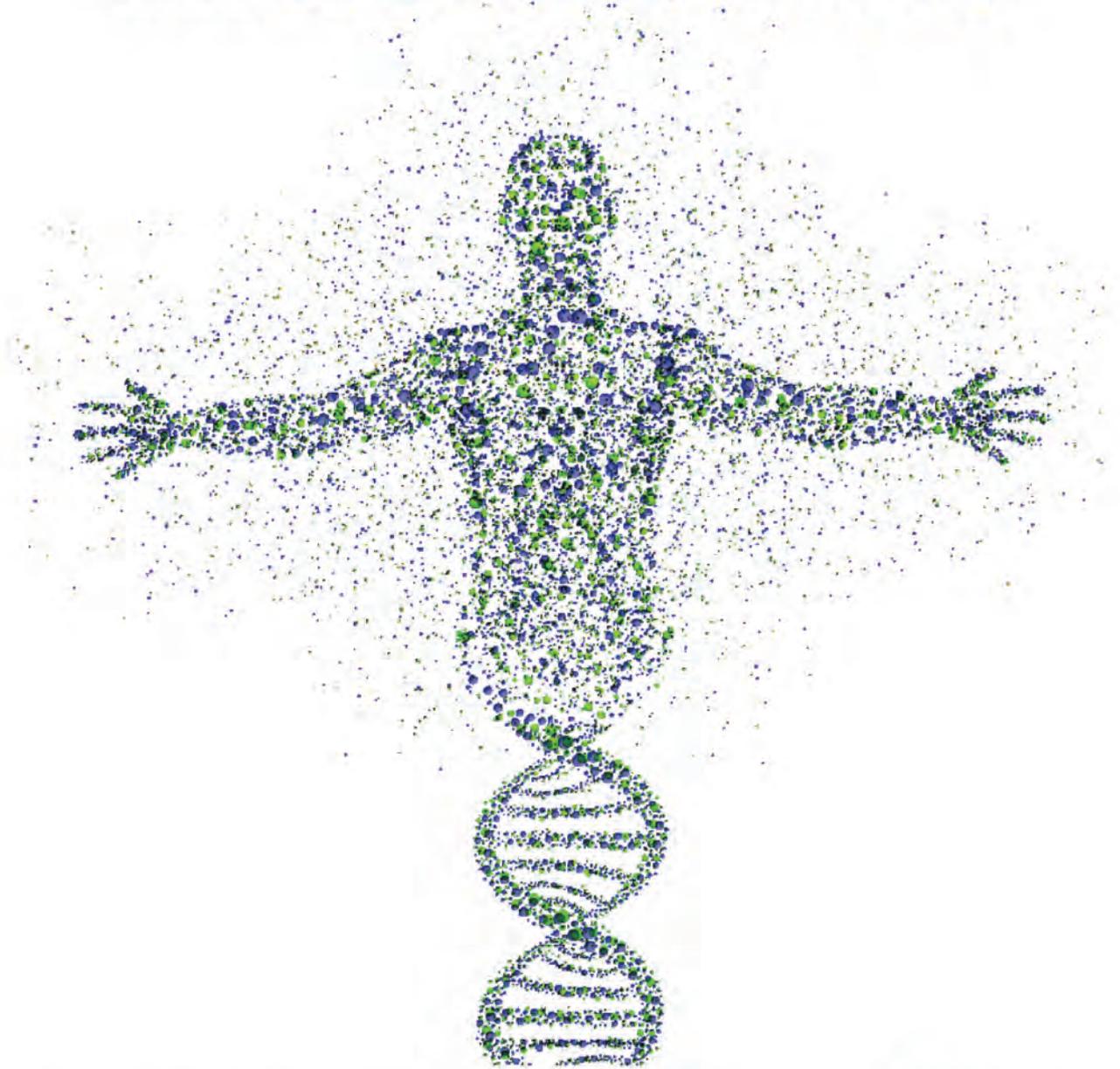
April 2017: 234x156: 325pp

Hb: 978-1-498-74139-2: **£140.00**

eBook: 978-1-315-15158-8

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