1. Record Nr. UNINA9910132050703321

Autore	Schulman Stephen G (Stephen Gregory), <1940->
Titolo	Fluorescence and phosphorescence spectroscopy : physicochemical principles and practice / / Stephen G. Schulman
Pubbl/distr/stampa	Oxford : , : Pergamon Press, , 1979 ©1977
Edizione	[1st ed.]
Descrizione fisica	1 online resource (x, 288 pages)
Collana	International Series in Analytical Chemistry ; ; Volume 59
Disciplina	543/.085
Soggetti	Fluorescence spectroscopy Phosphorescence spectroscopy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.

2. Record Nr. UNINA9910337890603321

Titolo	Basic and Applied Phytoplankton Biology / / edited by Perumal Santhanam, Ajima Begum, Perumal Pachiappan
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-10-7938-2
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (X, 336 p. 154 illus., 58 illus. in color.)
Disciplina	363.7394 363.73946
Soggetti	Water - Pollution Marine sciences Fresh water Oceanography Botany Zoology Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution Marine & Freshwater Sciences Plant Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	An introduction to Plankton -- Methods of Collection, Preservation and Taxonomic Identification of Marine Phytoplankton -- Study on Molecular Taxonomy and Phylogenetic Analysis of Phytoplankton -- Replacement of Fishmeal with Arthospira (Spirulina) platensis and its Use in Freshwater Prawn Macrobrachium rosenbergii Juvenile Production -- A Method of Bio-Efficacy Potential of Microalgae (Phytoplankton) for the Control of Vector Mosquitoes -- Isolation, Culture and Application of Marine Microalga Dunaliella salina (Volvocales, Chlorophyceae) as an Aqua Feed Additive -- Strain Selection and Lipid Characterization of Marine Diatoms with Potential for Biodiesel Production -- Bioremediation of Wastewater using A Novel Method of Microalgae Immobilized on Twin Layer Recirculation System -- The techniques in microalgae bioremediation and algal co-product

development -- Detection of Cyanotoxins of Cyanobacterial (Microcystis aeruginosa) Strain Using Microtox® Bioluminescence Bioassay -- A method of analysis of pigments in phytoplankton -- Surface bioengineering of diatom by amine and phosphate groups for efficient drug delivery -- A study on the impact of acidification on morphometry, photosynthesis and biochemical composition of phytoplankton -- Distribution of Phytoplankton in Selected Salt Pans of Tamil Nadu, Southeast coast of India -- A study of carbon sequestration by phytoplankton -- Mass Scale Culture and Preparation of Microalgal Paste -- An estimation of antimicrobial and antioxidant activity of microalgae -- A method of extraction, purification, characterization and application of bioactive compounds from phytoplankton -- Potential Harmful Microalgae in Muttukkadu Backwater, Southeast Coast of India.

Sommario/riassunto

This book presents the latest developments and recent research trends in the field of plankton, highlighting the potential ecological and biotechnological applications. It critically and comprehensively discusses strain selection, growth characteristics, large-scale culturing, and biomass harvesting, focusing on the screening and production of high-value products from algae, and evaluating carbon dioxide sequestration from fuel gas as a climate change mitigation strategy. The latter areas of research are clearly central to the sustainable development approach that is currently attracting global attention. Over the decades, much of the literature on has focused on the biological and ecological aspects of phytoplankton found in freshwater, marine and brackish water environments. However, these organisms are known to also inhabit various other environments. More recently, there has been a substantial shift toward the concept of sustainable development and the “green economy” with emphasis on exploiting biological systems for the benefit of mankind. The significance of these plankton cannot be underestimated as they contribute approximately 40% of the oxygen in the atmosphere. Therefore, there is potential for exploitation of this invaluable biomass source that could lead to significant environmental and economic benefits for man. Providing a comprehensive outline of the most recent developments and advances in the field of industrial applications of these plankton, this book is an excellent reference resource for researchers and practitioners.