



Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series)

From Cambridge University Press

Download now

Read Online →

Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press

Pigments act as tracers to elucidate the fate of phytoplankton in the world's oceans and are often associated with important biogeochemical cycles related to carbon dynamics in the oceans. They are increasingly used in in situ and remote-sensing applications, detecting algal biomass and major taxa through changes in water colour. This book is a follow-up to the 1997 volume *Phytoplankton Pigments in Oceanography* (UNESCO Press). Since then, there have been many advances concerning phytoplankton pigments. This book includes recent discoveries on several new algal classes particularly for the picoplankton, and on new pigments. It also includes many advances in methodologies, including liquid chromatography-mass spectrometry (LC-MS) and developments and updates on the mathematical methods used to exploit pigment information and extract the composition of phytoplankton communities. The book is invaluable primarily as a reference for students, researchers and professionals in aquatic science, biogeochemistry and remote sensing.

 [Download Phytoplankton Pigments: Characterization, Chemotax ...pdf](#)

 [Read Online Phytoplankton Pigments: Characterization, Chemot ...pdf](#)

Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series)

From Cambridge University Press

Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press

Pigments act as tracers to elucidate the fate of phytoplankton in the world's oceans and are often associated with important biogeochemical cycles related to carbon dynamics in the oceans. They are increasingly used in in situ and remote-sensing applications, detecting algal biomass and major taxa through changes in water colour. This book is a follow-up to the 1997 volume *Phytoplankton Pigments in Oceanography* (UNESCO Press). Since then, there have been many advances concerning phytoplankton pigments. This book includes recent discoveries on several new algal classes particularly for the picoplankton, and on new pigments. It also includes many advances in methodologies, including liquid chromatography-mass spectrometry (LC-MS) and developments and updates on the mathematical methods used to exploit pigment information and extract the composition of phytoplankton communities. The book is invaluable primarily as a reference for students, researchers and professionals in aquatic science, biogeochemistry and remote sensing.

Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press Bibliography

- Sales Rank: #2858744 in Books
- Published on: 2011-12-29
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x 1.81" w x 6.85" l, 3.75 pounds
- Binding: Hardcover
- 890 pages

 [Download Phytoplankton Pigments: Characterization, Chemotax ...pdf](#)

 [Read Online Phytoplankton Pigments: Characterization, Chemot ...pdf](#)

Download and Read Free Online Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press

Editorial Review

Review

"...an outstanding reference book on marine phytoplankton pigments, their analyses and biogeochemistry. It will become the quality bench mark for marine chlorophyll and carotenoid pigments over the next decade." - R. Fauzi C. Mantoura, *Limnology & Oceanography Bulletin* November 2012

"Roy et al. have produced an extremely valuable update to an already classic treatise on phytoplankton pigments. Within the more than 800 pages of text, there is something for everyone engaged in modern phytoplankton pigment research and this edition will certainly serve as a trusty bench pal to all those individuals active in the field. However, do not let the book out of your sight, your colleagues will never return it if borrowed." - Nick Welschmeyer, *Journal of Phycology*

About the Author

Suzanne Roy is a Professor of Biological Oceanography at the Institut des Sciences de la Mer of the Université du Québec ... Rimouski (Canada) and a member of Québec-Ocean. Over the last 20 years, Professor Roy has developed an expertise in the ecology and physiology of marine and estuarine phytoplankton, focusing on various aspects such as population dynamics of harmful algae, environmental impacts of aquaculture and ozone-related ultraviolet radiation effects. She also runs an analytical laboratory for the HPLC determination of algal pigments and UV-screening compounds. Her current research interests include the combined influence of climate warming and enhanced UV on phytoplankton communities, photoprotection and cell mortality in Arctic phytoplankton, and the transport of non-indigenous dinoflagellates in ships' ballast tanks. Several of these projects are part of Canada's major NSERC Research Networks such as CAISN and CFL. Professor Roy is a member of the Scientific Committee for the international Global Ecology and Oceanography of Harmful Algal Blooms (GEOHAB) programme.

Einar Skarstad Egeland is an Associate Professor in the Faculty of Biosciences and Aquaculture at Bodø University College, Norway. He has a broad experience in organic chemical analysis (chromatography and spectroscopy). He is an internationally recognised scientist on carotenoid analysis from natural sources (mostly prasinophyte algae, but also other algal classes). Currently, he is involved in several cross-disciplinary research projects related to marine ecology, aquaculture and seafood quality. He is an active member of the Marine Ecology Group at Bodø University College.

Carole Llewellyn is a microbial biogeochemist at the Plymouth Marine Laboratory, UK. She has experience in phytoplankton pigments and UV absorbing compounds spanning over 20 years. Her research interests are focused on understanding the role of phytoplankton in the ocean and more specifically on microbial and food web dynamics, microbial biodiversity, community composition and photophysiology. At an applied level, her research contributes to eutrophication and pollution studies and links with satellite remote-sensing and bio-optics. More recently she has used her knowledge on algae and pigments to contribute to the rapidly growing area of algal biotechnology.

Geir Johnsen is a Professor of Marine Biology at the Norwegian University of Science and Technology (NTNU), and an Adjunct Professor in marine bio-optics at the University Centre in Svalbard (UNIS). His major interests are the use of bio-optical methods in taxonomy, ecology and physiology of micro- and macroalgae. His main focus in the last 20 years has been on photosynthesis, light harvesting and utilization

in algae and marine invertebrates with photosynthetic endosymbionts. Current interests include new approaches in in situ and remote sensing techniques for monitoring and mapping of planktonic and benthic organisms in the water surface, water column and sea floor.

Users Review

From reader reviews:

Russell Love:

Do you have favorite book? When you have, what is your favorite's book? Publication is very important thing for us to know everything in the world. Each e-book has different aim or even goal; it means that e-book has different type. Some people experience enjoy to spend their time and energy to read a book. They may be reading whatever they have because their hobby is actually reading a book. How about the person who don't like examining a book? Sometime, man or woman feel need book once they found difficult problem or perhaps exercise. Well, probably you will require this *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series).

James Alvarez:

This *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) book is simply not ordinary book, you have after that it the world is in your hands. The benefit you obtain by reading this book will be information inside this book incredible fresh, you will get info which is getting deeper you actually read a lot of information you will get. That *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) without we know teach the one who looking at it become critical in contemplating and analyzing. Don't be worry *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) can bring if you are and not make your carrier space or bookshelves' turn out to be full because you can have it inside your lovely laptop even cell phone. This *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) having great arrangement in word and also layout, so you will not feel uninterested in reading.

Richard Reardon:

Don't be worry if you are afraid that this book will probably filled the space in your house, you could have it in e-book technique, more simple and reachable. This specific *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) can give you a lot of friends because by you considering this one book you have matter that they don't and make you actually more like an interesting person. This particular book can be one of a step for you to get success. This reserve offer you information that might be your friend doesn't realize, by knowing more than additional make you to be great people. So , why hesitate? Let's have *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series).

Cody Chenault:

Many people said that they feel fed up when they reading a e-book. They are directly felt the idea when they get a half elements of the book. You can choose often the book *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) to make your current reading is interesting. Your current skill of reading ability is developing when you such as reading. Try to choose very simple book to make you enjoy to study it and mingle the opinion about book and reading through especially. It is to be very first opinion for you to like to start a book and read it. Beside that the publication *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) can to be your brand-new friend when you're really feel alone and confuse with what must you're doing of this time.

Download and Read Online *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) From Cambridge University Press #HOBG3C5PZRI

Read Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press for online ebook

Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press books to read online.

Online Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press ebook PDF download

Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press Doc

Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press Mobipocket

Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press EPub

HOBG3C5PZRI: Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press