



# 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](#)

## **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:**

#### **Donald Hamann:**

The book *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) can give more knowledge and also the precise product information about everything you want. Why then must we leave a very important thing like a book *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series)? Wide variety you have a different opinion about book. But one aim this book can give many information for us. It is absolutely appropriate. Right now, try to closer with your book. Knowledge or details that you take for that, you may give for each other; you may share all of these. Book *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) has simple shape but you know: it has great and big function for you. You can search the enormous world by open up and read a e-book. So it is very wonderful.

#### **Dane People:**

People live in this new day time of lifestyle always attempt to and must have the time or they will get large amount of stress from both daily life and work. So , once we ask do people have extra time, we will say absolutely of course. People is human not a robot. Then we request again, what kind of activity do you have when the spare time coming to you of course your answer may unlimited right. Then ever try this one, reading guides. It can be your alternative with spending your spare time, the particular book you have read is *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series).

#### **Johnnie Gonzales:**

Do you one of the book lovers? If yes, do you ever feeling doubt when you find yourself in the book store? Try to pick one book that you never know the inside because don't determine book by its deal with may doesn't work is difficult job because you are scared that the inside maybe not as fantastic as in the outside appear likes. Maybe you answer can be *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) why because the amazing cover that make you consider with regards to the content will not disappoint an individual. The inside or content is usually fantastic as the outside or perhaps cover. Your reading 6th sense will directly assist you to pick up this book.

#### **Marion Driskell:**

Do you like reading a publication? Confuse to looking for your favorite book? Or your book ended up being

rare? Why so many question for the book? But any people feel that they enjoy to get reading. Some people likes reading through, not only science book but in addition novel and *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) or perhaps others sources were given knowledge for you. After you know how the fantastic a book, you feel would like to read more and more. Science reserve was created for teacher or maybe students especially. Those ebooks are helping them to increase their knowledge. In other case, beside science book, any other book likes *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) to make your spare time a lot more colorful. Many types of book like this one.

**Download and Read Online *Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography* (Cambridge Environmental Chemistry Series) From Cambridge University Press #DGM3E4RCUIF**

# **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**

**DGM3E4RCUIF: Phytoplankton Pigments: Characterization, Chemotaxonomy and Applications in Oceanography (Cambridge Environmental Chemistry Series) From Cambridge University Press**