



Chemical Ecology in Aquatic Systems

By Christer Bronmark, Lars-Anders Hansson

Download now

Read Online 

Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson

In recent years it has become increasingly clear that chemical interactions play a fundamental role in aquatic habitats and have far-reaching evolutionary and ecological consequences. A plethora of studies have shown that aquatic organisms from most taxa and functional groups respond to minute concentrations of chemical substances released by other organisms. However, our knowledge of this "chemical network" is still negligible. Chemical interactions can be divided

into two larger sub-areas based on the function of the chemical substance. First, there are interactions where chemical substances are toxic to other organisms and are used as a defence against consumers (including both herbivores and predators) or a weapon against competitors (allelopathy). Second, chemical substances may be used as a source for information of the environment; for example: how can I find the optimal habitat, the best food, the nicest partner, and avoid being eaten? Aquatic organisms are able to detect and respond to extremely low concentrations of chemical cues to answer all these questions. The book aims at connecting these intriguing chemical interactions with traditional knowledge of organism interactions.

Chemical Ecology of Aquatic Systems covers a wide range of studies, both plant and animal, from different geographic regions and habitats - pelagic as well as benthic. Most of the chemical interactions are similar in freshwater and marine habitats and this book therefore strives at integrating work on both systems.



[Download Chemical Ecology in Aquatic Systems ...pdf](#)



[Read Online Chemical Ecology in Aquatic Systems ...pdf](#)

Chemical Ecology in Aquatic Systems

By Christer Bronmark, Lars-Anders Hansson

Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson

In recent years it has become increasingly clear that chemical interactions play a fundamental role in aquatic habitats and have far-reaching evolutionary and ecological consequences. A plethora of studies have shown that aquatic organisms from most taxa and functional groups respond to minute concentrations of chemical substances released by other organisms. However, our knowledge of this "chemical network" is still negligible. Chemical interactions can be divided

into two larger sub-areas based on the function of the chemical substance. First, there are interactions where chemical substances are toxic to other organisms and are used as a defence against consumers (including both herbivores and predators) or a weapon against competitors (allelopathy). Second, chemical substances may be used as a source for information of the environment; for example: how can I find the optimal habitat, the best food, the nicest partner, and avoid being eaten? Aquatic organisms are able to detect and respond to extremely low concentrations of chemical cues to answer all these questions. The book aims at connecting these intriguing chemical interactions with traditional knowledge of organism interactions.

Chemical Ecology of Aquatic Systems covers a wide range of studies, both plant and animal, from different geographic regions and habitats - pelagic as well as benthic. Most of the chemical interactions are similar in freshwater and marine habitats and this book therefore strives at integrating work on both systems.

Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson Bibliography

- Sales Rank: #2779798 in eBooks
- Published on: 2012-03-01
- Released on: 2012-03-01
- Format: Kindle eBook

 [Download Chemical Ecology in Aquatic Systems ...pdf](#)

 [Read Online Chemical Ecology in Aquatic Systems ...pdf](#)

Download and Read Free Online Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson

Editorial Review

Review

This is a multi-authored and ... well edited volume. ... Unlike many such volumes, it is not the result of a workshop, but rather the result of the efforts of hand-picked authors. ... I can recommend this book as a good introduction to newcomers in the field of aquatic chemical ecology. Thomas Kiorboe, National Institute of Aquatic Resources, Technical University of Denmark

About the Author

Christer Bronmark is a professor of Limnology at the Department of Biology/Limnology at Lund University, Sweden. His main research interests resolve around the importance of indirect interactions in freshwater food webs and how these affect the structure and function of lake ecosystems. Here, chemical cues from predators have been shown to affect the behaviour and morphology of their prey and such trait-mediated interactions may in turn affect organisms at lower trophic levels. A spectacular example of an inducible morphological defence was shown in the Crucian carp that responded to diet-related chemical cues from piscivorous fish by increasing their body depth. Bronmark has published more than 80 papers in international, peer-reviewed journals and has published a textbook (The Biology of Lakes and Ponds) at OUP (together with Lars-Anders Hansson). Besides research Bronmark has long experience of teaching at both the undergraduate and the graduate levels.

Lars-Anders Hansson is a professor of Limnology at the Department of Biology/Limnology at Lund University, Sweden. His main research interests includes direct and indirect interactions in freshwater systems, specifically how organisms use plastic traits and chemical cues to simultaneously handle and compromise among multiple threats. He has performed studies on most aquatic organisms, but the main focus has been on free swimming plankton organisms and the mechanisms behind their migration and movements. Within this research area he has introduced nanoparticles as tracking devices, allowing studies on behaviour, responses to chemical cues and migratory patterns of these small organisms. Hansson is also teaching at undergraduate and graduate courses in aquatic ecology and has a long publication record and has, together with Christer Bronmark written a text book in Limnology (The Biology of Lakes and Ponds) and also co-edited a book on Lake restoration (together with Eva Bergman).

Users Review

From reader reviews:

Guadalupe Winn:

Hey guys, do you wants to finds a new book to study? May be the book with the title Chemical Ecology in Aquatic Systems suitable to you? The book was written by popular writer in this era. The actual book untitled Chemical Ecology in Aquatic Systems is one of several books which everyone read now. This kind of book was inspired a number of people in the world. When you read this guide you will enter the new shape that you ever know prior to. The author explained their strategy in the simple way, thus all of people can easily to comprehend the core of this reserve. This book will give you a lot of information about this world now. In order to see the represented of the world with this book.

Edward Lott:

Chemical Ecology in Aquatic Systems can be one of your beginning books that are good idea. We recommend that straight away because this book has good vocabulary that could increase your knowledge in words, easy to understand, bit entertaining but nonetheless delivering the information. The author giving his/her effort to place every word into pleasure arrangement in writing Chemical Ecology in Aquatic Systems however doesn't forget the main level, giving the reader the hottest and based confirm resource information that maybe you can be one among it. This great information can certainly drawn you into completely new stage of crucial considering.

Frances York:

Are you kind of occupied person, only have 10 or perhaps 15 minute in your day time to upgrading your mind talent or thinking skill perhaps analytical thinking? Then you are experiencing problem with the book than can satisfy your short period of time to read it because this all time you only find e-book that need more time to be read. Chemical Ecology in Aquatic Systems can be your answer given it can be read by a person who have those short spare time problems.

Erika Yoon:

Publication is one of source of understanding. We can add our expertise from it. Not only for students but additionally native or citizen will need book to know the up-date information of year to help year. As we know those guides have many advantages. Beside we all add our knowledge, could also bring us to around the world. With the book Chemical Ecology in Aquatic Systems we can consider more advantage. Don't you to be creative people? For being creative person must choose to read a book. Only choose the best book that ideal with your aim. Don't end up being doubt to change your life with that book Chemical Ecology in Aquatic Systems. You can more desirable than now.

**Download and Read Online Chemical Ecology in Aquatic Systems
By Christer Bronmark, Lars-Anders Hansson #LOH7EAC1DQ3**

Read Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson for online ebook

Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson 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 Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson books to read online.

Online Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson ebook PDF download

Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson Doc

Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson MobiPocket

Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson EPub

LOH7EAC1DQ3: Chemical Ecology in Aquatic Systems By Christer Bronmark, Lars-Anders Hansson