

## Preface

Aquatic Ecology is Aquatic ecology is an extraordinarily broad and interesting field. It investigates the interplay between aquatic organisms and their physical, chemical, and biological environment. Aquatic ecology encompasses all freshwater and marine ecosystems, including streams, rivers, lakes, wetlands, coastal environments, and the vast expanses of the open ocean. Aquatic ecology studies a wide diversity of different organisms, ranging from tiny bacteria to large whales, facing a myriad of different processes such as biogeochemical cycles, genetic differentiation, and climate change. Fundamental research in aquatic ecology adds new discoveries almost every day. Applied research makes major contributions to biotechnology, fisheries, water management, nature conservation, and environmental policy. Reassessments and syntheses in aquatic ecology are stimulating to the discipline as a whole, as well as enormously useful to students and researchers in ecological sciences.<sup>1</sup>

In the present book, fifteen typical literatures about Aquatic Ecology published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on Aquatic Phagotrophic Protists, Aquatic Ecosystem Models, Freshwater Fish, Aquatic Biodiversity, Ecosystem Functioning *ect.* We hope this book can demonstrate advances in Aquatic Ecology as well as give references to the researchers, students and other related people.

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<sup>1</sup> [https://www.springer.com/series/5637?gclid=CjwKCAjwvuGJBhB1EiwACU1AiQ347mtEEsl0THPgLD-Ct9yjlqhNkysHCXkmjIcfWz9-d0TPjQf1bBoCeZ8QAvD\\_BwE](https://www.springer.com/series/5637?gclid=CjwKCAjwvuGJBhB1EiwACU1AiQ347mtEEsl0THPgLD-Ct9yjlqhNkysHCXkmjIcfWz9-d0TPjQf1bBoCeZ8QAvD_BwE)