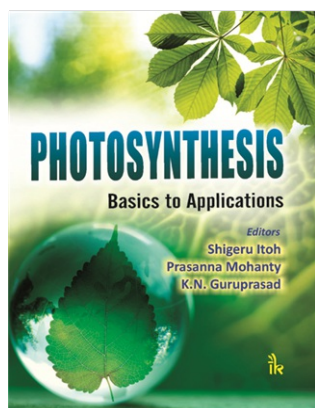


Photosynthesis: Basics to Applications, 1/e

Shigeru Itoh, K.N. Guruprasad & Prasanna Mohanty



2015	308 pp	Hardback	ISBN: 9789384588540	Price: 2,225.00
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About the Book

This book contains selected overviews on several important aspects of photosynthesis, and provides both tutorial content and critical insight into the future of photosynthesis research. Photosynthesis has been a challenging scientific topic, which involves a complex biochemical and biophysical process. Deeper and greater understanding of this process holds a promise for a sustainable Earth, with a pollution-free environment necessitating advent of newer technologies for food and cleaner energy. There have been global efforts to mimic the photosynthetic process to meet the needs of the future. This book, with 19 articles, provides not only the basics of the process and its applications, but it also gives a glimpse of the recent progress and future perspective on photosynthesis. With its unique coverage and emphasis, this book will be useful for not only researchers, but teachers and students as well. It can be used both as a reference as well as a text book for courses in Plant Biology, Environmental Biology, and Agriculture.

Salient Features

- ▶ High quality peer-reviewed articles, accompanied by in-text citation of milestone research, with full references at the end of each article
- ▶ Contribution by sixty four eminent researchers and academicians from Asia, Europe, USA, Canada, and Russia
- ▶ One of the rare unifying themes under photosynthesis research, which is "regulation of photosynthesis by various limiting/stress factors"
- ▶ State-of-the-art analytical techniques, well-laid-out results and findings, and pictures and diagrams (many in color)

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About the Author

Shigeru Itoh :- Shigeru Itoh is Professor Emeritus at the Center for Gene Research, Nagoya University, Japan; earlier, he was professor in Physics, in the Division of Materials Science, at Nagoya University. He has a 1974 Doctor of Science in Biochemistry from the University of Tokyo, Japan. Itoh has also held academic positions at University of Illinois at Urbana-Champaign, USA; National Institute for Basic Biology, Okazaki, Japan; Kyushu University, Japan; and University of Bristol, UK. He is an international authority in the area of Biophysics and Biochemistry of Photosynthesis; he works with photosynthetic bacteria, cyanobacteria, lichens, mosses, and higher plants.

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