

Marine Bioenergy: Trends and Developments

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Marine Bioenergy: Trends and Developments features the latest findings of leading scientists from around the world. Addressing the key aspects of marine bioenergy, this state-of-the-art text:

- Offers an introduction to marine bioenergy
- Explores marine algae as a source of bioenergy
- Describes biotechnological techniques for biofuel production
- Explains the production of bioenergy, including bioethanol, biomethane, biomethanol, biohydrogen, and biodiesel
- Covers bioelectricity and marine microbial fuel cell (MFC) production from marine algae and microbes
- Discusses marine waste for bioenergy
- Considers commercialization and the global market

Marine Bioenergy: Trends and Developments provides a valuable springboard for marine bioenergy research and development, making the book a must-have reference for scientists, engineers, and students.

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Marine Bioenergy: Trends and Developments From CRC Press Bibliography

- Sales Rank: #6701701 in Books
- Published on: 2015-05-20
- Original language: English
- Number of items: 1
- Dimensions: 1.50" h x 7.20" w x 10.00" l, .0 pounds
- Binding: Hardcover
- 769 pages

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Editorial Review

Review

"... presents a wide knowledge coverage, from marine biomass, biofuel sources, biotechnological and production techniques in marine bioenergy, marine waste for bioenergy, microbial fuel cells, and bioelectricity to global business. The collection of chapters is a remarkable contribution of various researchers from South Korea, Canada, China, USA, UK, India, Thailand, Turkey, Hong Kong, Japan, and Indonesia. ... The book is a one-stop information resource from molecules to commercialization."

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"This book tempts any reader to own it. The information gathered is up to the minute. ... The contributors use extraordinary style in giving pictorial representations which will enable even the novice readers to understand the subject. ... The book provides a valuable window to marine bioenergy."

?Dr. P.N. Sudha, Thiruvalluvar University, Vellore, India

About the Author

Se-Kwon Kim is a distinguished professor in the Department of Marine-Bio Convergence Science and the director of the Marine Bioprocess Research Center at Pukyong National University, Busan, South Korea. He received his M.Sc and Ph.D from Pukyong National University, and conducted his postdoctoral studies at the Laboratory of Biochemical Engineering, University of Illinois at Urbana–Champaign, USA. He has served as a visiting scientist at the Memorial University of Newfoundland, St. John's, Canada; president of the Korean Society of Chitin and Chitosan and the Korean Society of Marine Biotechnology; chairman of the 7th Asia-Pacific Chitin and Chitosan Symposium; and chief editor at the Korean Society of Fisheries and Aquatic Science. Widely published, Dr. Kim holds 76 patents and is a board member of the International Society of Marine Biotechnology and the International Society of Nutraceuticals and Functional Food.

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