Special Issue

Economically and Environmentally Sustainable Algal Production, Harvesting and CO_2 Sequestration

Message from the Guest Editors

Algae, due to its fast growth; independence on arable land; highly efficient utilization of nutrient resources; and richness in proteins, lipids, polysaccharides, and high-value products, has the potential to improve global sustainability and to contribute to global energy and food security. We invite innovative ideas and efforts related to the reduction of overall algal biomass production costs and research related to its negative environmental impacts. In this Special Issue, original research articles and reviews are welcome. Research areas to be considered include (but are not limited to) the following:

- Advanced algal strain screening;
- Molecular engineering in algal strain modification;
- Phototrophic cultivation techniques and advances;
- Heterotrophic cultivation and advances;
- Cultivation system design;
- Algal harvesting;
- Water and nutrient recycling and management;
- AI in algal biotechnology
- Metabolic analysis of algae to support biomass and bioproduct harvesting

Guest Editors

Dr. Zhiying Lu
Dr. Na Pang
Dr. Hesham Abdullah

Deadline for manuscript submissions

closed (31 December 2022)

Phycology

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 5.2

mdpi.com/si/110120

Phycology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
phycology@mdpi.com

mdpi.com/journal/phycology

Phycology

an Open Access Journal by MDPI

Impact Factor 2.9
CiteScore 5.2

mdpi.com/journal/phycology

MDPI

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Peer Schenk

1. Plant-Microbe Interactions Laboratory, School of Agriculture and Food Sustainability, The University of Queensland, Brisbane, QLD 4072, Australia
2. Sustainable Solutions Hub, Global Sustainable Solutions Pty Ltd., Brisbane, QLD 4105, Australia
3. Centre for Bioinnovation, The University of the Sunshine Coast, Sippy Downs, QLD 4556, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

Journal Rank:

JCR - Q1 (Marine and Freshwater Biology) / CiteScore - Q1 (Agricultural and Biological Sciences (miscellaneous))