DESCRIPTION

A guide to environmental fluctuations that examines photosynthesis under both controlled and stressed conditions

Photosynthesis, Productivity and Environmental Stress is a much-needed guide that explores the topics related to photosynthesis (both terrestrial and aquatic) and puts the focus on the basic effect of environmental fluctuations. The authors—noted experts on the topic—discuss photosynthesis under both controlled and stressed conditions and review new techniques for mitigating stressors including methods such as transgeneics, proteomics, genomics, ionomics, metabolomics, micromics, and more.

In order to feed our burgeoning world population, it is vital that we must increase food production. Photosynthesis is directly related to plant growth and crop production and any fluctuation in the photosynthetic activity imposes great threat to crop productivity. Due to the environmental fluctuations plants are often exposed to the different environmental stresses that cause decreased photosynthetic rate and problems in the plant growth and development. This important book addresses this topic and:

• Covers topics related to terrestrial and aquatic photosynthesis

• Highlights the basic effect of environmental fluctuations

• Explores common stressors such as drought, salinity, alkalinity, temperature, UV-radiations, oxygen deficiency, and more

• Contains methods and techniques for improving photosynthetic efficiency for greater crop yield
Written for biologists and environmentalists, *Photosynthesis, Productivity and Environmental Stress* offers an overview of the stressors affecting photosynthesis and includes possible solutions for improved crop production.

---

**ABOUT THE AUTHOR**

**ABOUT THE EDITORS**

**PARVAIZ AHMAD**, Department of Botany and Microbiology, King Saud University, Riyadh, Saudi Arabia, and Department of Botany, S. P. College, Srinagar, Jammu and Kashmir, India.

**MOHAMMAD ABASS AHANGER**, College of Life Science, NorthWest A & F University, Yangling Shaanxi, China.

**MOHAMMED NASSER ALYEMENI**, Department of Botany and Microbiology, King Saud University, Riyadh, Saudi Arabia.

**PRAVEJ ALAM**, Department of Biology, Prince Sattam bin Abdul Aziz University, Alkharaj, Riyadh, Saudi Arabia.

---

For additional product details, please visit [https://www.wiley.com/en-gb](https://www.wiley.com/en-gb)