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Advances in Photosynthesis and Bioenergy

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Message from the Guest Editor

Biological photovoltaics uses oxygenic photoautotrophic organisms, or portions therefrom, to harvest light energy and produce electrical power, and it is an energy-generating technology. Currently, the share of fossil fuel use is nearly 88% of total energy demand. Ultimately, this causes an increase in CO_2 and greenhouse gas emissions at an alarming rate. The increased use of bioenergy and biofuel would help to mitigate climate change, as it is a clean fuel source. To understand an efficient design method to produce bioenergy- and biomass-derived high-value products, we need a deeper understanding of the photosynthesis process. Photosynthesis is the transformation of light energy to the chemical energy of green plants and other certain organisms. Therefore, it is very important to understand the advantages in photosynthesis, as it is a precondition for applying innovative biotechnologies.

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Message from the Editor-in-Chief

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