biomimetics

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Bionic Functional Interfaces and Devices for Low-Carbon Applications

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Message from the Guest Editors

Dear Colleagues,

Nature provides us with different forms of energy sources and various kinds of materials for use in daily life and social developments. However, the consumption of fossil energy also discharges a huge amount of carbon dioxide, resulting in ever-increasing hazards, e.g., extremely high-temperature weather leading to mountain wildfires, glacier melting causing rises in sea level, biological extinction, etc. For these reasons, low-carbon living is attracting increasing attention, and the need for a significant reduction in CO_2 emissions has gradually become a global consensus. Biomimetics can play a significant role in preventing such hazards. Artificial photosynthesis, for example, has made a huge breakthrough in the past two years, making it possible to synthesize proteins and other carbohydrates from CO_2 in the air in the laboratory setting.