

会員の皆様

2020 環太平洋国際化学会議 (Pacifichem2020) "(#237) Photocatalytic Carbon dioxide Reduction"の開催をお知らせします。  
是非ご参加ください。

Pacifichem2020 -Photocatalytic Carbon dioxide Reduction (#237)-

日時：口頭：2020/12/15 TUE (AM, PM) - 2020/12/16 WED (AM, PM, 夜)

ポスター：2020/12/17 THU (AM)

場所： Hilton Hawaiian Village Waikiki Beach Resort

Organizers: Sang Ook Kang (Sejong University), Etsuko Fujita (Brookhaven National Laboratory), 石谷 治 (東工大)

発表申込：<https://pacifichem.org/technical-program/abstract-submission/>

#### Description

We human beings are facing three serious problems related to fossil resources, i.e., shortages of energy, carbon resources and the global warming problem. In the biosphere, photosynthesis has been employed for both conversion of CO<sub>2</sub> to organics and conversion of solar energy to chemical energy. However, human activities have used a lot of oil, coal, and natural gas, which were produced by photosynthesis in ancient times, as both major energy resources and chemical resources. These are finally burnt, which releases a tremendous amount of CO<sub>2</sub> to the atmosphere. For solving all three of these problems at once, one of the best solutions is the development of practical systems for converting CO<sub>2</sub> to useful chemicals using solar light, i.e., artificial photosynthesis.

Photocatalysts for CO<sub>2</sub> reduction are one of the most important aspects of artificial photosynthesis. Various types of photocatalysts such as metal complexes, semiconductors, and enzymes have been extensively investigated in this context. In this symposium, we will discuss about the broad issue of CO<sub>2</sub> reduction for renewable fuels and carbon resources.

Invited Speakers: Harry Atwater (Cal Tech) Carlo Nervi (Univ. Turin), Louise A. Berben (UC, Davis), Yutaka Amao (Osaka City Univ.), Sebastiano Campagna (Univ. Messina), Akihiko Kudo (Tokyo Univ. Science), Takeshi Morikawa (Toyota Central R&D Institute), Erwin

Reisner (Univ. Cambridge), Marc Robert (Universite Paris 7 – Denis Diderot), Ken Sakai (Kyushu Univ.), Hitoshi, Ishida, (Kitasato Univ.), Hiroyuki Takeda, (Osaka City Univ.), Yuichiro Himeda, (AIST), Sally Brooker (Univ. Otago), Prof. Haruo Inoue (Tokyo Metropolitan Univ.), Takahiko Kojima (Tsukuba univ.)他