

持続可能な社会の実現を目指した太陽光エネルギー利用研究の現状と課題

～次世代放射光に期待する役割～

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**Chemical Conversion of Solar Energy for Realizing Sustainable  
World ~Scientific Needs for Next-Generation Synchrotron Sources~**

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**<Synopsis>**

Global needs and scientific challenges to store solar-converted energy in the form of chemical bonds, i.e. artificial photosynthesis, will be presented. Next-generation synchrotron sources will be a powerful tool for developing artificial photosynthetic systems.