


Science and Technology in Japan (June 23rd, 2020 - July 2nd, 2020)
Lecturer Profile and Brief Abstract of Lecture & Field Trip

Artificial photosynthesis: Photon energy to chemical energy	
Date: June 25th	Lecturer: IWASE Akihide
<p>Energy and environmental issues are important topics on global scale. To address these issues, there has been an urge to develop an energy system based on Hydrogen (H₂), which is an ultimately clean form of energy. Solar water splitting to produce H₂ will be the ultimate reaction to convert renewable energy to storable chemical energy, in which the reaction is generally grouped as artificial photosynthesis. In this lecture, we are going to learn the basis of artificial photosynthesis and photocatalysis using semiconductor materials.</p>	
<p>Field Trip: The National Museum of Emerging Science and Innovation (Miraikan) https://www.miraikan.jst.go.jp/en/</p>	
	<p>IWASE Akihide, Associate Professor of the Department of Applied Chemistry, School of Science and Technology. He received BSc (2004), MSc (2006), and PhD (2009) degrees from Tokyo University of Science. He worked as a postdoctoral fellow (2009–2012) at The University of New South Wales (Australia) and an assistant professor (2012–2019) at Tokyo University of Science. He joined Meiji University in 2019 as Associate Professor. His main research interests include photocatalytic and photoelectrochemical water splitting.</p>