

## 세미나 초록

<b>발표주제</b>	Solar Light Energy Conversion
<b>발표내용</b>	<p>Through the rapid increase in population and fast development of industries in the past few decades, energy shortage and environmental pollution have become coinstantaneous major problems. In this context, it is important to note that solar light-driven energy conversion can be an ideal platform technology to generate a variety of renewable energy such as green hydrogen and electricity, which might be able to address the complicated global issues including carbon neutrality, climate change, and environmental pollution.</p> <p>In this lecture, we will learn a fundamental mechanism on solar light conversion with a understanding of semiconducting materials and photoelectrochemical (PEC) process. Also, solar-to-hydrogen (STH) and solar-to-electricity (STE) conversion processes will be presented through solar fuel and solar cell applications with the integrated solar-driven clean energy technologies.</p> <p>By this lecture, it is expected to learn how solar light-driven energy conversion approaches can contribute to addressing various global issues that we currently are facing.</p>