

## [TS03W1]

### Nanotechnology for Eco-friendly Energy I

<b>Date &amp; Time</b>	July 3(Wed.), 2024 / 09:00-10:30
<b>Place</b>	Room 209A
<b>Session Chair(s)</b>	Jihun Oh (KAIST)

**TS03W1\_I\_1 \*Invited** 09:00-09:30

**Rational Designs of Metal/Semiconductor Heterojunction Catalysts, Electrocatalysts, and Photoanodes using Multi-Scale Simulations and Machine Learning**

Heechae Choi

*(Xi'an Jiaotong-Liverpool University)*

**TS03W1\_O\_2** 09:30-09:45

**Efficient Electrocatalyst for Hydrogen Evolution on Porous Polymer Support**

Javeed Mahmood

*(KAUST)*

**TS03W1\_O\_3** 09:45-10:00

**Tailoring Schottky Barriers and Active Sites in Bi-Metallic Cluster Mesoporous Carbon Nitride Heterostructures Nanocomposite for Hydrogen Evolution with In-Situ Insights**

V. Navakoteswara Rao<sup>1,2</sup>, Jun-Mo Yang<sup>2</sup>, and Kim Sang-Jae<sup>1</sup>

*(<sup>1</sup>Jeju National University, <sup>2</sup>NNFC)*

**TS03W1\_O\_4** 10:00-10:15

**Stable Hydrogen Evolution Reaction in Perovskite Based Photocathode**

Chang-Seop Jeong, Wooyong Jeong, Juwon Yun, and Jooho Moon

*(Yonsei University)*

**TS03W1\_O\_5** 10:15-10:30

**Hybrid Perovskite-Based Photoelectrochemical Co-Planar Cell for LargeScale Solar Hydrogen Production**

Wooyong Jeong, Gyumin Jang, Juwon Yun, Chang-Seop Jeong, Young Sun Park, Hyungsoo Lee, Jaehyun Son, Chan Uk Lee, Jeongyoub Lee, Junwoo Lee, Seongyeon Yang, Soobin Lee, Subin Moon, and Jooho Moon

*(Yonsei University)*