

**[TS03W2]****Nanotechnology for Eco-friendly Energy 2**

<b>Date &amp; Time</b>	July 3(Wed.), 2024 / 15:40–17:55
<b>Place</b>	Room 209A
<b>Session Chair(s)</b>	Segi Byun (KIER)

**TS03W2\_I\_1 \*Invited 15:40–16:10****Single Atom Catalysts for Efficient and Selective Electrochemical CO<sub>2</sub> Reduction**

Jihun Oh

*(KAIST)***TS03W2\_O\_2 16:10–16:25****Enhancing CO Oxidation Activity through Support Size Modulation of Pt Single Atom Catalysts Supported on Pt–CeO<sub>x</sub>–TiO<sub>2</sub>**

Jieun Yun, Eunji Kang, Hyuk Choi, Ju Hyeok Lee, Hongjin Park, and Hyun You Kim

*(Chungnam National University)***TS03W2\_O\_3 16:25–16:40****Influence of Center Atom of Ionic Liquids on the Performance of the Lithium-Mediated Electrochemical Ammonia Synthesis**

Jinwoo Chu, Sungbin Yang, and Byungha Shin

*(KAIST)***TS03W2\_I\_4 \*Invited 16:40–17:10****Electrochemical Impedance Spectroscopy as Tool for Elucidating Electrocatalytic Reaction Mechanisms for Energy Application**

Hyacinthe Randriamahazaka

*(Université Paris Cité)***TS03W2\_O\_5 17:10–17:25****Green Innovation in Semiconductor Production: Low-Carbon Ozone from PEM Electrolytic Stacking**

Wasim Abbas, Jyun-Wei Yu, and Guo-bin Jung

*(Yuan Ze University)*

TS03W2\_O\_6

17:25–17:40

**Multilayered Thermoelectric Films Derived from Conducting Polymers**

Nicolás Menéndez, Rafael Muñoz–Espí, Andrés Cantarero, Mario Culebras, and Clara M Gómez

*(University of Valencia)*

TS03W2\_O\_7

17:40–17:55

**Lignin–Derived Hydrogels and Membranes for Efficient Energy Harvesting**

Muhammad Muddasar<sup>1,2</sup>, Nicolás Menéndez<sup>2</sup>, Andrés Cantarero<sup>2</sup>, Clara Gómez<sup>2</sup>, Maurice N. Collins<sup>1,4</sup>, and Mario Culebras<sup>2</sup>

*(<sup>1</sup>University of Limerick, <sup>2</sup>University of Valencia, <sup>3</sup>Advanced Materials and BioEngineering Research)*

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Symposium