

**Room J #205** 13:30-15:30**[We-J2] Fuel Cell & Electrolyzer Materials III****Session Chairs:**

Jong-Ho Lee (KIST, Korea),
WooChul Jung (KAIST, Korea)

We-J2-1 [Invited] 13:30-14:00**New Materials, Structures and Concepts for Solid Oxide Cells**

John Thomas Sirr Irvine
Univ. of St. Andrews, UK

We-J2-2 [Invited] 14:00-14:30**Excellent Performance and Characteristics of Layered Perovskite Materials for Protonic Ceramic Fuel Cell**

Junyoung Kim and Guntae Kim
UNIST, Korea

We-J2-3 14:30-14:45**Metal-Supported Micro-Tubular Solid Oxide Fuel Cells Made by Aqueous Electrophoretic Deposition**

Jyh-Shiarn Cherng and Leo Chen
Ming Chi Univ. of Tech., Taiwan

We-J2-4 [Invited] 14:45-15:15**Degradation Issues of High Temperature Electrolysis (SOE) and Reversible SOFC (rSOFC)**

Abigail Snowdon, Irving Annan, and Robert Steinberger-Wilckens
Univ. of Birmingham, UK

We-J2-5 15:15-15:30**Assessment of Thermally Self-Sustaining Tubular Solid Oxide Fuel Cells**

Jong-Eun Hong, Mushtaq Usman, Tak-Hyoung Lim, Seung-Bok Lee, Jong-Won Lee, and Rak-Hyun Song
KIER, Korea

Room B #102 16:00-18:00**[We-B3] Emerging Advanced Materials III****Session Chairs:**

Byung-Koog Jang (NIMS, Japan),
Shunkichi Ueno (Nihon Univ., Japan)

We-B3-1 [Invited] 16:00-16:30**Application of Oxide Eutectic for Environmental Barrier Coating**

Shunkichi Ueno¹, Naoto Kanno¹, Kyosuke Seya¹, Yohei Suzuki¹, and Byung-Koog Jang²
¹*Nihon Univ., Japan*, ²*NIMS, Japan*

We-B3-2 [Invited] 16:30-17:00**Thermo-Corrosive Properties by Chemical Corrosion of Re-Doped Silicate Environmental Barrier Coatings**

Byung-Koog Jang¹, Shunkichi Ueno², Kee-Sung Lee³, Seongwon Kim⁴, Yoon-Suk Oh⁴, and Hyung-Tae Kim⁴
¹*NIMS, Japan*, ²*Nihon Univ., Japan*, ³*Kookmin Univ., Korea*, ⁴*KICET, Korea*

We-B3-3 17:00-17:15**Preparation and Properties of Negative Thermal Expansion Materials $Zr_2W_2O_{12}$ and $Zr_2MoP_2O_{12}$**

Toshihiro Isobe, Yuko Hayakawa, Naoto Hotsuki, Takuya Umezome, Sachiko Matsushita, and Akira Nakajima
Tokyo Inst. of Tech., Japan

We-B3-4 17:15-17:30**Effect of Impingement Angle on High Temperature Erosion Behaviour of SiC-WC Composites**

Rohit Malik¹, Young-Wook Kim¹, and B. V. Manoj Kumar²
¹*The Univ. of Seoul, Korea*, ²*Indian Inst. of Tech., India*