

Room I #204 10:30-12:30**[Mo-I1]** Hybrid Materials and Processing Technologies I**Session Chairs:**

Soong Ju Oh (Korea Univ., Korea),
Jae Won Jeong (KIMS, Korea)

Mo-I1-1 [Invited] 10:30-11:00**Nanocrystal based Electronic Devices and Wearable Sensors**

Soong Ju Oh
Korea Univ., Korea

Mo-I1-2 11:00-11:15**Study on Functional Hybrid Structures based on Transition Metal Dichalcogenides and π -Conjugated Organic Materials**

Young Ki Hong and Sunkook Kim
Sungkyunkwan Univ., Korea

Mo-I1-3 11:15-11:30**Improved Degassing Process during Uranium Zirconium Alloying via Induction Heating Casting**

Seoungwoo Kuk, SungChan Park, YoungMo Ko, and Jeong-Yong Park
KAERI, Korea

Mo-I1-4 [Invited] 11:30-12:00**Thermal Plasma Nanofabrication: A Universal Fabrication Process for Highly Functional Nanomaterials**

Jae Won Jeong, Mise Chang, Sansun Yang, and Yongjin Kim
KIMS, Korea

Mo-I1-5 12:00-12:15**Multifunctional Nanoparticle Array on Nitrogen-Doped Graphene for Heterogeneous Catalysts**

SangRim Shin¹, JungHyo Park², Kyung Min Choi³, and Jeung Ku Kang¹
¹KAIST, Korea, ²Agency for Defense Development, Korea, ³Sookmyung Women's Univ., Korea

Mo-I1-6 12:15-12:30**Developments of Nanostructured Metal Oxide Thin Films as Photoanodes for Water Splitting**

Susanta Bera¹, and Se-Hun Kwon^{1,2}
¹Global Frontier R&D Center, Korea, ²Korea Univ., Korea

Room J #205 10:30-12:30**[Mo-J1]** Solar Fuels**Session Chairs:**

Byungha Shin (KAIST, Korea),
Jihun Oh (KAIST, Korea)

Mo-J1-1 [Keynote] 10:30-11:00**Materials for Solar Fuels: Coupling Efficient Water Splitting Catalysts and High-Performance Photovoltaics by Atomic Layer Deposition**

Paul (Cameron) McIntyre
Stanford Univ., USA

Mo-J1-2 [Invited] 11:00-11:30**Photoelectrochemical Water Splitting and CO₂ Reduction**

Joel W. Ager
Univ. of California Berkeley, USA

Mo-J1-3 11:30-11:45**Reduced Graphene Oxide as a Catalyst Binder: Extended Photoelectrochemical Stability of Cu(In,Ga)Se₂ Photocathode for Solar Water Splitting**

Bonhyeong Koo¹, Segi Byun¹, Sung-Wook Nam², Song-Yi Moon^{1,3}, Suncheul Kim⁴, Jeong Young Park^{1,3}, Byung Tae Ahn¹, and Byungha Shin¹
¹KAIST, Korea, ²Kyungpook Nat'l Univ., Korea, ³IBS, Korea, ⁴Samsung Electronics, Korea

Mo-J1-4 11:45-12:00**Solution Aging of Vanadyl Acetylacetonate in Methanol and their Effects on the Material and Photoelectrochemical Properties of the Solution Processed-BiVO₄ Photoanodes**

Segi Byun, Gihun Jung, and Byungha Shin
KAIST, Korea

Mo-J1-5 12:00-12:15**Direct Chemical Bath Deposition of Mo:BiVO₄ Photoanode with Controllable Morphology and Texture for Photoelectrochemical Water-Oxidation**

Bit Na Kim¹, Hyun Woo Lim¹, Hyun Soo Han², and In Sun Cho¹
¹Ajou Univ., Korea, ²Stanford Univ., USA