

**Room E #105** 16:00-18:00**[We-E3] Optics and Mechanics of 2D Materials
Session Chairs:**

Yu-Lun Chueh (Tsing Hua Univ., Taiwan),
Kosuke Nagashio (The Univ. of Tokyo, Japan)

We-E3-1 [Invited] 16:00-16:30**CVD WS₂ on Graphene: A Scalable Van Der Waals
Heterostack for Optoelectronics**

Camilla Coletti
Inst. Italiano di Tech., Italy

We-E3-2 [Invited] 16:30-17:00**Mechanical Instability-Driven Architecturing of
Atomically-Thin Materials**

SungWoo Nam
Univ. of Illinois at Urbana-Champaign, USA

We-E3-3 [Invited] 17:00-17:30**Directly Synthesized Nonlinear Graphene on Ultrafast
Optical Devices**

Yong-Won Song
KIST, Korea

We-E3-4 17:30-17:45**A Quasi-Two-Dimensional Heterojunction of Graphene/
β-Ga₂O₃ for UV Photodetection**

Suhyun Kim, Geonyeop Lee, and Jihyun Kim
Korea Univ., Korea

We-E3-5 17:45-18:00**Magnetic Dipole Resonance and Coupling Effects
Directly Enhance the Raman Signals of as-Grown
Graphene on Copper Foil**

Yi-Chuan Tseng, Tzu-Yao Lin, Yang-Chun Lee, Che-Kuei Ku,
Chun-Wei Chen, and Hsuen-Li Chen
Nat'l Taiwan Univ., Taiwan

Room G #107 16:00-18:00**[We-G3] Nano Structure/Surface Engineering III
Session Chairs:**

Myoung-Woon Moon (KIST, Korea),
Sung Hoon Kang (Johns Hopkins Univ., USA)

We-G3-1 [Invited] 16:00-16:30**Roll-based Transfer Technology of CVD-Graphene and
its Applications**

Jae-Hyun Kim, Yun Hwangbo, Bongkyun Jang, Kyung-Shik
Kim, Seung-Mo Lee, Hyun-Sung Park, Hak-Joo Lee,
Byung-Ik Choi, Sang-Rok Lee, Sejeong Won, and Kwang-
Seop Kim
KIMM, Korea

We-G3-2 [Invited] 16:30-17:00**Nanocrystal based Metamaterials Perfect Absorber
for Vis-NIR Wavelength**

Sung-Hoon Hong¹, Mi-Hyun Kim¹, Hye-Won Yun¹, and
Soo-Jung Kim²
¹ETRI, Korea, ²Korea Univ., Korea

We-G3-3 17:00-17:15**Complex-Shaped Niobium Oxide Nanoparticles for
Lithium Ion Battery**

Teruaki Fuchigami, Ryosuke Kimata, and Ken-Ichi Kakimoto
Nagoya Inst. of Tech., Japan

We-G3-4 17:15-17:30**Improvement of Low Temperature CO Oxidation
Activity by Raspberry-Structure of Co₃O₄ Nanocrystals**

Ryosuke Kimata, Teruaki Fuchigami, Masaaki Haneda,
and Ken-ichi Kakimoto
Nagoya Inst. of Tech., Japan

We-G3-5 17:30-17:45**Magnetic Properties of FeCo Nanoparticles by
Chemical Reduction Method**

Jong-Hwan Park, Ho-Jun Choi, Se-Hee Shin, Jung-Woo
Lee, Young-il Na, Sun-Woo Kim, Hyun-Jun Kwon,
Dae-Seok Seo, Han-Young Jung, and Su-Jeong Suh
Sungkyunkwan Univ., Korea

We-G3-6 17:45-18:00**Chemical and Thermal Modifications for Polyethylene
Glycol (PEG) by using Multi Walled Carbon Nanotubes
(MWCNTs) as Reinforcement**

Sameer Awad and Eman Khalaf
Univ. of Anbar, Iraq