

**Room D #104** 16:00-18:00**[Mo-D3]** Functional Nanomaterials for
Biomedical Applications**Session Chairs:**

Wooyoung Shim (Yonsei Univ., Korea)

Mo-D3-1 16:00-16:15**DNA-Guided Plasmonic Nanogap Engineering for
Optical Analysis of Biomaterials**

Jeong-Wook Oh and Jwa-Min Nam

*Seoul Nat'l Univ., Korea***Mo-D3-2** 16:15-16:30**Functional Nanocomposites Scaffold for Tissue
Regeneration Applications**

Chang Du

*South China Univ. of Tech., China***Mo-D3-3** 16:30-16:45**Preparation of Drug-Doped Nanopump Pressed by
Temperature Control**

Seong Yeol Kim

*Lucky Industry Co., Ltd., Korea***Mo-D3-4** 16:45-17:00**Advanced Dental Cleaning Technique by Nanobubbles
Generated from Piezoelectric Materials**Panpan Li, Chungik Oh, Melodie Chen-Glasser, and Seung-
bum Hong*KAIST, Korea***Mo-D3-5** 17:00-17:15**Design and Development of Bioactive α -Hydroxy
Carboxylate Group Modified $MnFe_2O_4$ Nanoparticle:
Comparative Fluorescence, Magnetism and DNA
Interaction Study**Indranil Chakraborty¹, Urmila Saha², Rupali Rakshit¹,
Souvanik Talukdar¹, Gopinatha Suresh Kumar², and
Kalyan Mandal¹¹S. N. Bose Nat'l Centre for Basic Sci., India, ²Indian Inst.
of Chemical Biology, India**Mo-D3-6** 17:15-17:30**Synthesis and Characterization of Boron-Containing
Thermoresponsive Polymer Nanomicelle**

Shuichiro Yoneoka and Takehiko Tsukahara

*Tokyo Tech., Japan***Room E #105** 16:00-18:00**[Mo-E3]** 2D Materials Growth & Characterization**Session Chairs:**

Woong Choi (Kookmin Univ., Korea),

Dongzhi Chi (IMRE, Singapore)

Mo-E3-1 [Keynote] 16:00-16:30**Why Soft Processing(=Low-Energy Production) of
Advanced Materials is Difficult but Necessary for
Sustainable Society**YOSHIMURA Masahiro^{1,2}¹Nat'l Cheng Kung Univ., Taiwan, ²Tokyo Inst. of Tech.,
Japan**Mo-E3-2 [Invited]** 16:30-17:00**Growth and Processing of 2D TMDCs for Future
Electronic Applications**Swee-Liang Wong, Weifeng Yang, Shijie Wang, and
Dongzhi Chi*IMRE, Singapore***Mo-E3-3 [Invited]** 17:00-17:30**Synthesis of Wafer-Scale 2-Dimensional Metal
Chalcogenide Films**

Changgu Lee

*Sungkyunkwan Univ., Korea***Mo-E3-4** 17:30-17:45**Wafer-Scale MoS_2 Monolayer Grown on SiO_2/Si
Substrate by Modified Atomic Layer Deposition**Dae Hyun Kim, Dae Woong Kim, Tea Jun Seok, Hyun Soo
Jin, and Tae Joo Park*Hanyang Univ., Korea***Mo-E3-5** 17:45-18:00**Crystallization of Amorphous Carbon to Synthesize
Graphene through Thermal Annealing**Hanchao Li^{1,2}, Jing Wei¹, and Aiyang Wang¹¹CAS, China, ²ShanghaiTech Univ., China