

Room G #107 13:30-15:30**[Th-G2]** Deposition and Modification Methods for Carbon Materials**Session Chairs:**Yasuharu Ohgoe (Tokyo Denki Univ., Japan),
Kaili Jiang (Tsinghua Univ., China)**Th-G2-1 [Invited]** 13:30-14:00**Functional Modification of Graphene**Martin Kalbac¹, Petr Kovaricek¹, Zdenek Bastl¹, Karolina Drogowska¹, Zuzana Malnikova-Kominkova¹, Michaela Fridrichova¹, Timotheus Verhagen², and Jana Vejpravova²
¹J. Heyrovsky Inst. of Physical Chemistry, Czech, ²Charles Univ., Czech**Th-G2-2 [Keynote]** 14:00-14:30**New Methods for Direct Growth of Graphene on Insulator ~ Paper, Pencil, Carbon Dioxide ~**Satoru Kaneko¹, Shigeo Yasuhara², Tamio Endo³, Rieko Sudo³, Takashi Tokumasu⁴, Kazuo Satoh⁵, Masahito Kurouchi¹, Manabu Yasui¹, Takeshi Rachi¹, Satomi Tanaka¹, Chihiro Kato¹, Akifumi Matsuda⁶, Mamoru Yoshimoto⁶, and Hirifumi Takikawa⁷¹Kanagawa Inst. of Industrial Sci. and Tech., Japan, ²Japan Advanced Chemicals, Japan, ³Sagamihara Surface Laboratory, Japan, ⁴Tohoku Univ., Japan, ⁵Osaka Research Inst. of Industrial Sci. and Tech., Japan, ⁶Tokyo Inst. of Tech., Japan, ⁷Toyohashi Univ., Japan**Th-G2-3 [Invited]** 14:30-15:00**Self-Supporting ta-C Film Consisting of Laminated Layers Prepared using T-shape Filtered Arc Deposition**Toru Harigai¹, Masafumi Yamano¹, Yuki Kondo¹, Fuminori Yoda¹, Satoshi Degai¹, Tsuyoshi Tanimoto¹, Yoshiyuki Suda¹, Hirofumi Takikawa¹, Mamiko Nishiuchi², Hironao Sakaki², Kiminori Kondo², Satoru Kaneko³, and Shinsuke Kunitsugu⁴¹Toyohashi Univ. of Tech., Japan, ²Nat'l Inst. for Quantum and Radiological Sci. and Tech., Japan, ³Kanagawa Inst. of Industrial Sci. and Tech., Japan, ⁴Industrial Tech. Center of Okayama Prefecture, Japan**Room H #108** 13:30-15:30**[Th-H2]** Nanoscale Materials Engineering**Session Chairs:**Jang-Sik Lee (POSTECH, Korea),
Chang-Yong Nam (BNL, USA)**Th-H2-1 [Invited]** 13:30-14:00**Fully CMOS-Compatible Synthesis and Photodetector-Integration of Ultrathin, Parallel-Aligned ZnO Nanowire Arrays by Infiltration Synthesis**Chang-Yong Nam
Brookhaven Nat'l Laboratory, USA**Th-H2-2 [Invited]** 14:00-14:30**Self-Assembled Molecular Monolayer Doping for Single Atom Control**Yaping Dan
Shanghai Jiao Tong Univ., China**Th-H2-3 [Invited]** 14:30-15:00**Electronic Device Applications of Graphene for Future Semiconductor Technology**Byoung Hun Lee, Yunji Kim, Taejin Yoo, Soyoung Kim, Hyunjune Hwang, and Sangkyung Lee
GIST, Korea**Th-H2-4 [Invited]** 15:00-15:30**Hybridization of Multiple Device Functions using Monolithic 3-Dimensional Integration**Rino Choi
Inha Univ., Korea