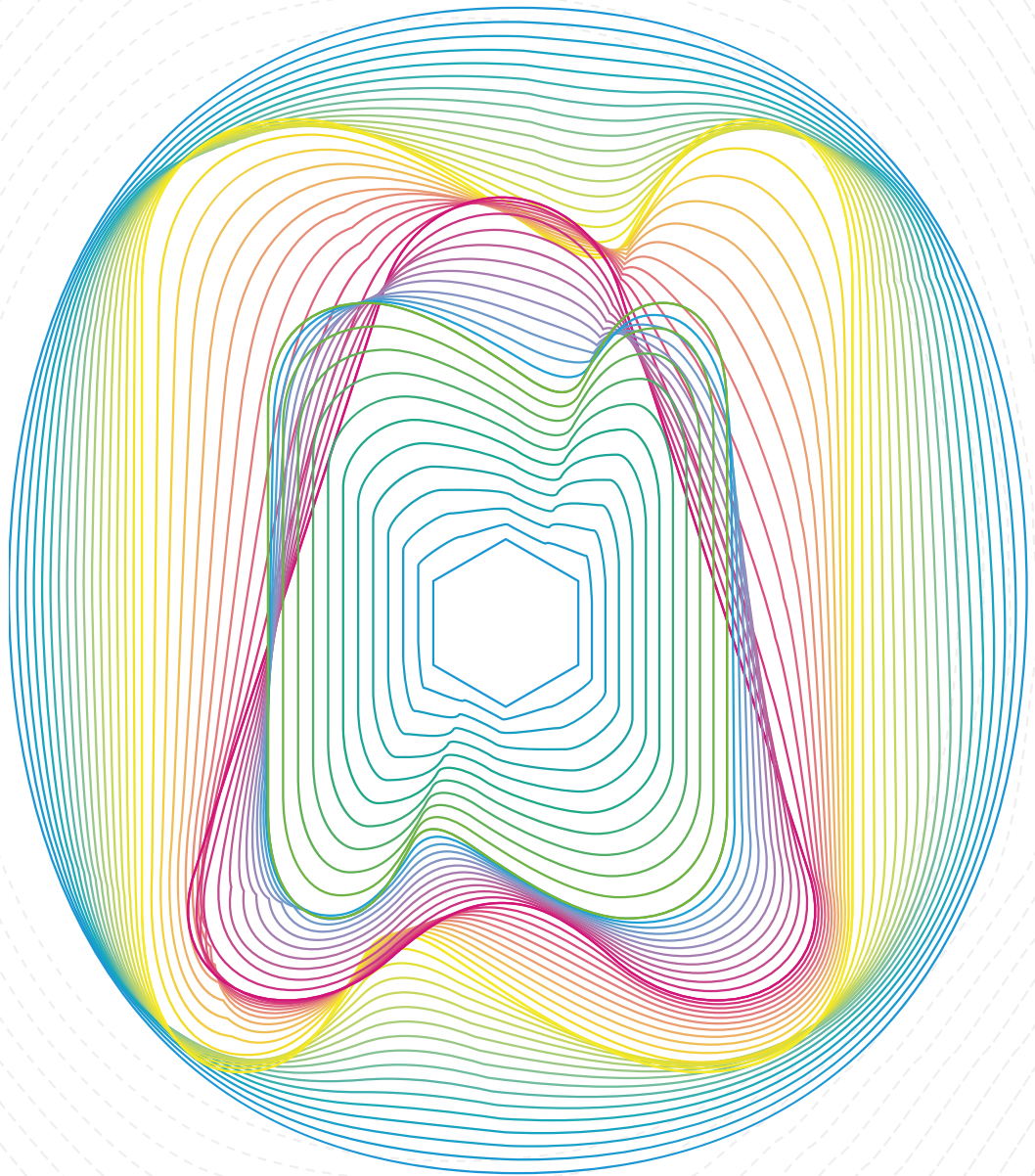


NANO KOREA 2021

The 19th International Nanotech Symposium

July 7~9, 2021 / KINTEX, Korea



Hosted by



Ministry of Science and ICT



Ministry of Trade,
Industry and Energy

Organized by



KoNTRS
Korea Nanotechnology Research Society



**Nano Technology
Research Association**

Sponsored by



**KOREA
TOURISM
ORGANIZATION**



**GYEONGGI TOURISM
ORGANIZATION**

- P21TS07_0537 **Local chemical modification of MoS₂ layer using AFM lithography**
DaYea Oh (Konkuk University) / Duk Hyun Lee (Korea Research Institute of Standards and Science) / Won Dong Kim (Korea Research Institute of Standards and Science) / Bae Ho Park (Konkuk University)
- P21TS07_0586 **Plasma Etching process for improve defect with ultra-thin PR**
Jihun Park (Sungkyunkwan University) / Seulgi Kim (Samsung Electronics) / Geunyoung Yeom (Sungkyunkwan University)
- P21TS07_0616 **Investigation into Effect of High-k Spacer Materials on Device Reliability in Gate-All-Around MOSFET**
Young Suh Song (Korea Military Academy) / Jang Hyun Kim (Pukyong National University)
- P21TS07_0648 **Improvement in Turn-off Loss Characteristic for The Super Junction IGBT with Separated n-Buffer Layers**
Joo Seok Noh (Pukyong National University) / Kang Lee (Pukyong National University) / Sung Ho Park (Pukyong National University) / Min Gyu Jeon (Pukyong National University) / Tae Young Yoo (Pukyong National University) / Jang Hyun Kim (Pukyong National University)
- P21TS07_0661 **Field-Effect Transistors and Ternary Inverters using WSe₂/MoS₂ Heterostructures with Polymer Acid Treatment**
Jun Young Kim (Korea University) / Sang-hun Lee (Korea University) / Jeongyong Kim (Sungkyunkwan University) / Jinsoo Joo (Korea University)
- P21TS07_0662 **Field-effect and optoelectronic characteristics of donor-acceptor heterojunction macromolecular systems**
Dong Il Kim (Korea University) / Nayeon Kwon (Korea University) / Dong Hoon Choi (Korea University) / Jinsoo Joo (Korea University)
- P21TS07_0704 **SiGe layer under CS layer for further Reinforcing Conductivity Modulation of Trench Insulated Gate Bipolar Transistor**
Tae Young Yoon (Pukyong National University) / Sung Ho Park(Pukyong National University) / Kang Lee(Pukyong National University) / Min Gyu Jeon(Pukyong National University) / Joo Seok Noh(Pukyong National University) / Jang Hyun Kim(Pukyong National University)
- P21TS07_0727 **Highly conductive and thermally stable doped MWCNTs synthesized by arc discharge and their superior field emission properties**
Syed Muhammad Zain Mehdi (Sejong University) / Naesung Lee (Sejong University)
- P21TS07_0737 **Current Modulation of HfS₂ Thin Film Transistor (TFT) by Argon and Oxygen Plasma Treatment**
Kil-Su Jung (Sungkyunkwan University) / Jin-Hong Park (Sungkyunkwan University)
- P21TS07_0755 **Analysis of Self Heating Effects in Junctionless MOSFETs**
Sung Ho Park (Pukyong National University) / Tae Young Yoon (Pukyong National University) / Kang Lee (Pukyong National University) / Min Gyu Jeon (Pukyong National University) / Joo Seok Noh (Pukyong National University) / Jang Hyun Kim (Pukyong National University) / Young Suh Song (Pukyong National University)
- P21TS07_0761 **Linking Between Switching Parameters and Electrical Characteristics of HfO₂ based RRAM for Storage Class Memory and Neuromorphic Synapse**
Heebum Kang (Kyungpook National University) / Minjoon Ahn (Kyungpook National University) / Sol Jin (Kyungpook National University) / Hyunwook Kim (Kyungpook National University) / Dokyung Lee (Kyungpook National University) / Jinah Park (Kyungpook National University) / Jiyong Woo (Kyungpook National University)
- P21TS07_0762 **Improved Field Emission Performance of CNT Paste Emitters with Their Cohesion and Adhesion Enhanced by Metal Silicide Reaction**
Naesung Lee(Sejong University)