

2020 年智慧半導體奈米系統技術研究中心線上研究成果發表會議程

No.	Nov. 25,	Title
0	10:30~10:40	Opening (胡正明 院士)
1	10:40~11:20	Crystal-Orientation-Tolerant Voltage Regulator using Monolithic 3D BEOL FinFETs in Single-Crystal Islands for On-Chip Power Delivery Network (黃柏蒼教授)
2	11:20~12:00	STM Characterizations of 2D Materials and Devices (林俊良教授)
3	12:00~12:30	Understanding the ferroelectric Hf _{0.5} Zr _{0.5} O ₂ formation based on kinetic model (張書睿 助理研究員)
4	13:30~14:00	Phase Diagram of HZO on TiN Substrates - First-Principles Study (陳韻文博士)
5	14:00~14:30	Two Strategies for Decreasing Contact Resistance Between TMD and Metal Leads: A First Principles Study(林耿民博士)
6	14:30~15:00	Interface Engineering of ALD AlN on WS ₂ FETs (王信淵)
7	15:00~15:30	First-principles Quantum-transport Calculations of TMD/Metal Contact (楊琮甫)
8	15:30~16:00	Enhancing Thermal Stability of Ultrathin GeO _x Films by Ti Doping (Pratyay Amrit)
16:00~17:00		Live Q/A with additional MP4 papers authors (#1~#9)
No.	Nov.26	Title
9	10:30~11:00	Steep subthreshold-swing InGaAs FETs Using Ferroelectric Materials (柯驊倫)
10	11:00~11:30	Exploring the High Mobility Performance via Gate-Dielectric Engineering of MoS ₂ Channel (塗浩瑋)
11	11:30~12:00	Enhancement on the bonding strength of Cu-Cu joints by 2-step annealing. (王家俊)
12	12:00~12:30	Impacts of Nitridation on Ferroelectric HfZrO ₂ Crystal Structures (林逸然)
13	13:30~14:00	Metal Electrode-induced Phase Uniformity on Hf _{0.5} Zr _{0.5} O ₂ Thin Film (鄧智宇)
14	14:00~14:30	Phase Transformation of the Hf _{0.5} Zr _{0.5} O ₂ Affected by Pulse Electric Field During Thermal Annealing (鄭佳杰)
15	14:30~15:00	Single-Crystal-Islands Technique of Si for Monolithic 3D BEOL FinFET Circuits (鍾昊東)
16	15:00~15:30	Visualizing Self-Recovery of PtTe ₂ Surfaces (陳琬忻)
17	15:30~16:00	S-curve Engineering for ON-state Performance using Anti-ferroelectric/Ferroelectric Stack Negative-Capacitance FinFET (黃士恩)
16:00~17:00		Live Q/A with additional MP4 papers authors (#10~#18)