台積電2025年產學合作計畫 題目



- Al-Driven Adaptive Power Planning from Floorplan to ECO
- 2 Compute-in-Memory Compilation Toolchain in a Multi-Core Architecture
- 3 Advancing In-Memory P-bits with SOT/STT Magnetic Tunnel Junction Technology
- 4 Analysis of Contact Engineering of P-type SnO Transistors for BEOL Application
- 5 Advanced magnetic materials for millimeter-Wave inductor
- 6 Conductive PO basefilm formulation and film property verification
- 7 Establish a Simulator and Al Model to Predict Thermosetting Material Flowability

- 8 Thin film interface characterization numerical and experimental methodology
- 9 Advanced wafer-level thermal solution for SoIC technology
- 10 Through controlling phase shift and inverse design to achieve mode-controllable miniaturized mode division multiplexing devices
- 11 Emerging CMP Technology for Advanced Interconnects
- 12 Novel Materials with Anisotropic Conduction for Low-R Interconnect
- 13 Dirac source MOSFET with steep subthreshold slope
- 14 Smallest Thermal Strain Geometry Structure of CNT Networks

- 15 Machine-Learning-Assisted CFET MOL Layout Pattern Generation for Interconnect Resistance/Capacitance Modeling
- 16 Compact Modeling for Layout-Dependent Thermal Behavior of Circuits
- 17 Evaluation of Neural-Network-Based and Equation-Based Approaches for Predictive IV/CV Models of 2-D Devices
- 18 Epitaxial nanosheet-structure to boost device in GAAFET technology
- 19 Study of new optical methods to provide distinct signals for different dielectric materials by using nonlinear optical effects
- 20 To simulate small trench and nano-sheet, WET chemical clean and lateral etch behavior (MG loop, H2O2/NH4OH, TIN ALO)
- 21 二氧化碳再利用關鍵催化劑材料和轉換機制研究

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