Poster No.	Abstract Title	Corresponding Author	Primary Topic
P-1	Using Density Functional Theory to Engineer Direct Gap Germanium-Tin Alloy	Christopher Darmody	1) Ab Initio & Density Functional Theory
P-2	The Role of Surface Termination Geometry on the Ground-State and Optical Properties of Silicon Nano-Crystals: A Density Functional Theory Study	Mahdi Pourfath	1) Ab Initio & Density Functional Theory
P-3	Diffusion-Drift Modeling of Carbon-Based Nanowire FETs	Mario Ancona	3) Device Modeling & Simulation
P-4	Advanced TCAD Simulation of Local Mismatch in 14nm CMOS Technology FinFETs	E. M. Bazizi	3) Device Modeling & Simulation
P-5	Impact of Backplane Configuration on the Statistical Variability in 22nm FDSOI CMOS	E. M. Bazizi	3) Device Modeling & Simulation
P-6	Leakage Reduction in Stacked Sub-10nm Double-Gate FinFETs	Woo-Suhl Cho	3) Device Modeling & Simulation
P-7	Multi-Subband Ensemble Monte Carlo Simulation of Si Nanowire MOSFETs	Luca Donetti	3) Device Modeling & Simulation
P-8	Electrical Characteristic of InGaAs Multiple- Gate MOSFET Devices	Cheng-Hao Huang	3) Device Modeling & Simulation
P-9	A Self-Consistent Solution of Poisson, Schrödinger and Boltzmann Equations for GaAs Devices by Deterministic Solver	Zeinab Kargar	3) Device Modeling & Simulation

P-10	Impact of Deep P-Well Structure on Single Event Latchup in Bulk CMOS	Takashi Kato	3) Device Modeling & Simulation
P-11	Layout-induced stress effects on the performance and variation of FinFETs	Choong Mok Lee	3) Device Modeling & Simulation
P-12	Influence of mechanical strain in Si and Ge p- type double-gate MOSFETs	Manel Moussavou	3) Device Modeling & Simulation
P-13	Multi-Subband Interface Roughness Scattering using 3D Finite Element Monte Carlo with 2D Schödinger Equation for Simulations of sub- 16nm FinFETs	Daniel Nagy	3) Device Modeling & Simulation
P-14	Critical Distance Method for the Tail Part of the Threshold Voltage Distribution	Sungman Rhee	3) Device Modeling & Simulation
P-15	Physical Simulation of Si-Based Resistive Random-Access Memory Devices	Toufik Sadi	3) Device Modeling & Simulation
P-16	Computational design of low power consumption FET based on locally strained graphene: interplay between the pseudo magnetic field effect and substrate induced bandgap opening	Satofumi Souma	3) Device Modeling & Simulation
P-17	Integrated Modeling Platform for High- k/Alternate Channel Material Heterostructure Stacks	Dhirendra Vaidya	3) Device Modeling & Simulation
P-18	Bipolar Monte Carlo Simulation of Hot Carriers in III-N LEDs	Pyry Kivisaari	4) Electronic Transport in Semiconductor Materials & Devices
P-19	Simulation of Indirect-Direct Transformation Phenomenon of Germanium under Uniaxial and Biaxial Strain along Arbitrary Orientations	Ziyang Xiao	4) Electronic Transport in Semiconductor Materials & Devices

P-20	Towards atomistic dopant profiling using SCM measurements	Samira Aghaei	5) New Algorithms for Process & Device Modeling
P-21	Numerical Simulation of Percolation Model for Time Dependent Dielectric Breakdown (TDDB) under "Non-uniform" Trap Distribution	Seongwook Choi	5) New Algorithms for Process & Device Modeling
P-22	A moving mesh method for device simulation	Koichi Fukuda	5) New Algorithms for Process & Device Modeling
P-23	Lithography Process Model Building Using Locally Linear Embedding	Pardeep Kumar	5) New Algorithms for Process & Device Modeling
P-24	TCAD Analysis of FinFET Stress Engineering for CMOS Technology Scaling	Amaury Gendron-Hansen	6) Process & Equipment Modeling & Simulation
P-25	Factors that Influence Delamination at the Bottom of Open TSVs	Santo Papaleo	6) Process & Equipment Modeling & Simulation
P-26	Implication of Hysteretic Selector Device on the Biasing Scheme of a Cross-point Memory Array	Ahmedullah Aziz	7) Physical-Level Circuit Simulation
P-27	Intrinsic and Extrinsic Stability of Ovonic- Switching Devices	Massimo Rudan	7) Physical-Level Circuit Simulation
P-28	Power-Performance-Area Engineering of 5nm Nanowire Library Cells	Victor Moroz	8) Simulation of Nano- & Quantum Devices
P-29	Application of Pauli Master Equation to Nanoscale Silicon FinFET Transport under Uniaxial Stress: a Direct Solution Approach	Kai Xiu	8) Simulation of Nano- & Quantum Devices

P-30	Simulation of thermal crosstalk of resistive switching memory in three-dimensional (3D) crossbar structure	Nianduan Lu	9) Simulation of Novel Devices
P-31	Sandwiched-Gate Inverter: Novel Device Structure for Future Logic Gates	Myunghwan Ryu	9) Simulation of Novel Devices
P-32	Improving the Performance of a Non-Volatile Magnetic Flip Flop by Exploiting the Spin Hall Effect	Thomas Windbacher	9) Simulation of Novel Devices
P-33	Kinetic Monte Carlo and Drift-Diffusion simulations to investigate the effects of interfaces in organic photovoltaic cells including a realistic blend morphology	Alessio Gagliardi	10) Simulation of Photovoltaic & Other Green Technologies
P-34	Tuneable enhancement of the thermoelectric Seebeck coefficient in externally gated semiconductor nanomembranes	Adithya Kommini	10) Simulation of Photovoltaic & Other Green Technologies
P-35	TCAD Simulation Methodology for 3-D Electro- Physical and Advanced Optical Analysis	Patrik Príbytný	10) Simulation of Photovoltaic & Other Green Technologies
P-36	Design Optimal Built-in Snubber in Trench Field Plate Power MOSFET for Superior EMI and Efficiency Performance	Jingjing Chen	11) Simulation of Power Devices
P-37	An Enhanced Specialized SiC Power MOSFET Simulation System	Zeynep Dilli	11) Simulation of Power Devices
P-38	Transient 3-D TCAD Simulation of Multiple Snapback Event in Mixed-Mode Test for Mutual Relation between Protection Devices	Hyoungcheol Kwon	11) Simulation of Power Devices
P-39	Mechanical properties of homogeneous and heterogeneous layered 2D materials	Robert Elder	12) Simulation of Sensors Biosensors & Electromechanical System