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Song, Bo	Department of Electrical and Computer Engineering, Michigan State
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Jansen, Henri V.	Univ. of Twente, Transducers Science and Tech. Group,
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Arturo, Lousa	Univ. de Barcelona. Dep. Física Aplicada y Óptica, Martí i
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Dong, Lixin	Michigan State Univ.

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Shakouri, Ali	UC Santa Cruz
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Anwar, Sohail		Purdue School of Engineering and Tech. IUPUI
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Lu, Xi		Michigan State Univ.
Peng, Fang Z.		Michigan State Univ.
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Friday, October 15

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Chair: Morris, James E		Portland State Univ.
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Smaili, Sami		Rice Univ.
11:20-11:40		FrA1-1.3
<u>Modeling Thermal Conductivity and CTE for CNT-Cu Composites for 3-D TSV Applications</u> , pp. 262-266.		
Sinha, Arpita		Portland State Univ.
Mihailovic, Jadran		Portland State Univ.
Morris, James E		Portland State Univ.
Lu, Hua		Univ. of Greenwich
Bailey, Chris		GRE
11:40-12:00		FrA1-1.4
<u>A Second Order Approximation for the Quasistatic Properties of a Nanoegg</u> , pp. 267-271.		
Smaili, Sami		Rice Univ.
Massoud, Yehia		Rice Univ.
12:00-12:20		FrA1-1.5
<u>An Equivalent RLC Circuit Model for the Nanoshell Impedance</u> , pp. 272-277.		
Smaili, Sami		Rice Univ.
Massoud, Yehia		Rice Univ.

FrA1-2	Ocean Terrace 2
Field-Effect Devices	
Chair: Ahmed, Shaikh	Southern Illinois Univ. at Carbondale
10:20-10:40	FrA1-2.1
<u>Modeling of Switching Response of Small Diameter Nanowire Field Effect Transistors</u> , pp. 278-281.	
Morusupalli, Subrahmanya	Department of Electrical Engineering and Computer Science, Vande
Verma, Amit	Texas A&M Univ. - Kingsville
Basavaraju, Shreyas	Department of Electrical Engineering and Computer Science, Texas
Nekovei, Reza	Department of Electrical Engineering and Computer Science, Texas
Buin, Andrei	Univ. de Montr'éal
10:40-11:00	FrA1-2.2
<u>Atomistic Modeling of Unintentional Single Charge Effects in Silicon Nanowire FETs</u> , pp. 282-285.	
Hindupur, Ramya	Southern Illinois Univ. at Carbondale
Islam, Sharnali	Southern Illinois Univ. at Carbondale
Ahmed, Shaikh	Southern Illinois Univ. at Carbondale
11:00-11:20	FrA1-2.3
<u>Scalable Embedded Ge-Junction Vertical-Channel Tunneling Field-Effect Transistor for Low-Voltage Operation</u> , pp. 286-290.	
Sun, Min-Chul	Seoul National Univ. and Samsung Electronics Co., Ltd.
Kim, Sang Wan	Seoul National Univ.
Kim, Garam	Seoul National Univ.
Kim, Hyun Woo	Seoul National Univ.
Lee, Jong-Ho	Seoul National Univ.
Shin, Hyungcheol	Seoul National Univ.
Park, Byung-Gook	Seoul National Univ.
11:20-11:40	FrA1-2.4
<u>An Equivalent Circuit Model for High-K/metal Gate Stack MOS Capacitor with Dynamic Leakage</u> , pp. 291-294.	
Sohn, Chang-Woo	Pohang Univ. of Science and Tech.
Jeong, Euiyoung	POSTECH
Sagong, Hyun Chul	Pohang Univ. of Science and Tech.
Choi, Do-Young	POSTECH
Park, Min Sang	POSTECH
Kang, Chang Yong	SEMATECH
Chung, Jinyong	POSTECH
Jeong, Yoon-Ha	POSTECH
11:40-12:00	FrA1-2.5
<u>Low Frequency Drain Current Flicker Noise Model for Pocket Implanted Nano Scale N-MOSFET</u> , pp. 295-299.	
Bhuyan, Muhibul Haque	PhD student, Bangladesh Univ. of Engineering and Tech.
Khosru, Quazi D. M.	Bangladesh Univ. of Engineering and Tech.
12:00-12:20	FrA1-2.6
<u>Single-Electron Memory Based on Floating-Gated Carbon Nanotube Field-Effect Transistors</u> , pp. 300-303.	
Ohuri, Takahiro	Osaka Univ.
Ohno, Yasuhide	Osaka Univ.
Maehashi, Kenzo	Osaka Univ.
Inoue, Koichi	Osaka Univ.
Matsumoto, Kazuhiko	Osaka Univ.
FrP1-1	Ocean Terrace 1
Nanostructure Characterization	
Chair: Nakajima, Masahiro	Nagoya Univ.
14:00-14:20	FrP1-1.1
<u>Reversible Suppression of Coulomb Staircase in InP Nanowires with Light Illumination</u> , pp. 304-305.	
Yamada, Hidenori	UC San Diego
Yamada, Toshishige	Santa Clara Univ.
Lohn, Andrew John	Univ. of California Santa Cruz
Kobayashi, Nobuhiko	Univ. of California Santa Cruz
14:20-14:40	FrP1-1.2
<u>The Effect of Heat Treatment on Flexibility of Silver Nanopaste Circuit Screen-Printed on Polyimide</u> , pp. 306-309.	
Kim, Kwang-Seok	Sungkyunkwan Univ.
Lee, Young-Chul	Sungkyunkwan Univ.
Ahn, Jee-Hyuk	Sungkyunkwan Univ.
Jung, Seung-Boo	Sungkyunkwan Univ.
14:40-15:00	FrP1-1.3
<u>Measuring the Physical Properties of the Lymphoma Cells Using Atomic Force Microscopy</u> , pp. 310-314.	
Li, Mi	Shenyang Inst. of Automation Chinese Acad. of Sciences
Liu, Lianqing	Shenyang Inst. of Automation, Chinese Academy of Sciences
Xi, Ning	Michigan State Univ.
Wang, Yuechao	State Key Lab. of Robotics, Shenyang Institute of Automation
Dong, Zaili	Chinese Acad. of Sciences
Li, Guangyong	Univ. of Pittsburgh
Xiao, Xiubin	Affiliated Hospital of Military Medical Acad. of Sciences

Zhang, Weijing	Affiliated Hospital of Military Medical Acad. of Sciences
15:00-15:20	FrP1-1.4
<u>Biological Specimen Viability Analysis by Hybrid Microscope Combined Optical Microscope and Environmental-SEM</u> , pp. 315-320.	
Nakajima, Masahiro	Nagoya Univ.
Akimoto, Hiroataka	Nagoya Univ.
Hirano, Takanori	Nagoya Univ.
Kojima, Masaru	Nagoya Univ.
Hisamoto, Naoki	Nagoya Univ.
Homma, Michio	Nagoya Univ.
Fukuda, Toshio	Nagoya Univ.
15:20-15:40	FrP1-1.5
<u>An Analysis on Applicability of Ti-Doped ZnO Films As the Channel Layer of TFTs</u> , pp. 321-324.	
Jeong, Kwang Seok	Chung-Nam National Univ.
Kim, Young Su	National Nanofab center
Kim, Yu Mi	Chung-Nam Univ.
Park, Jeong Gyu	Chung-Nam Univ.
Yang, Seung Dong	Chung-nam National Univ.
Yun, Ho Jin	Chung-Nam Univ.
Lee, Hi Deok	Chung-Nam Univ.
Lee, Ga Won	Chung-Nam Univ.
15:40-16:00	FrP1-1.6
<u>Synthesis and Characterizations of Eosin Y Functionalized MWCNT</u> , pp. 325-327.	
Chen, Hung-Hsia	National Taiwan Univ.
Anbarasan, R.	National Taiwan Univ.
Kuo, Long-Sheng	National Taiwan Univ.
Chen, Ping-Hei	National Taiwan Univ.
16:00-16:20	FrP1-1.7
<u>Decoration of Particles by Thin Tantalum Films</u> , pp. 328-331.	
Pandit, Viraj	Novellus Systems Inc.
Prater, Walter	Novellus Systems Inc.
Tran, Natalie	Novellus Systems Inc.
Kothnur, Prashanth	Novellus Systems Inc.
FrP1-2	Ocean Terrance 2
Electric and Optical Devices	
Chair: Yang, Cary Y.	Santa Clara Univ.
14:00-14:30	FrP1-2.1
<u>Contact Resistances of Carbon Nanotubes Grown under Various Conditions (Invited Paper)</u> , pp. 332-333.	
Sun, Xuhui	Soochow Univ.
Li, Ke	Santa Clara Univ.
Wu, Raymond	Santa Clara Univ.
Wilhite, Patrick	Santa Clara Univ.
Yang, Cary Y.	Santa Clara Univ.
14:30-15:00	FrP1-2.2
<u>Modeling and Simulation of Organic Solar Cells (Invited Paper)</u> , pp. 334-338.	
Liu, Liming	Univ. of Pittsburgh
Li, Guangyong	Univ. of Pittsburgh
15:00-15:20	FrP1-2.3
<u>Designing Current Mirror with Nano Wire FET</u> , pp. 339-342.	
Mazidi, Ehsan	Fars Science and Res. branch Islamic Azad Univ.
15:20-15:40	FrP1-2.4
<u>Fabrication of High-Performance Voltage Inverters Based on Carbon Nanotube Field-Effect Transistors</u> , pp. 343-346.	
Maehashi, Kenzo	Osaka Univ.
Kishimoto, Takaomi	Osaka Univ.
Ohno, Yasuhide	Osaka Univ.
Inoue, Koichi	Osaka Univ.
Matsumoto, Kazuhiko	Osaka Univ.
15:40-16:00	FrP1-2.5
<u>Analysis of the Impact of Particle Separation in a Plasmonic Spherical Dimer on the Resonance Wavelength</u> , pp. 347-351.	
Smaili, Sami	Rice Univ.
Massoud, Yehia	Rice Univ.
16:00-16:20	FrP1-2.6
<u>Characterization of Interface Trap Density of In-Rich InGaAs Nmosfets with ALD Al2O3 As Gate Dielectric</u> , pp. 352-355.	
Sharmin, Saima	Undergrad student, EEE, Bangladesh Univ. of Engineering and
Sikder, Urmita	Undergrad student, EEE, Bangladesh Univ. of Engineering and
Ferdous, Rifat	Undergrad student, EEE, Bangladesh Univ. of Engineering and
Khosru, Quazi D. M.	Bangladesh Univ. of Engineering and Tech.

FrP2-1	Ocean Terrace 1
Memory Devices	
Chair: Park, Byung-Gook	Seoul National Univ.
16:40-17:00	FrP2-1.1
<u>Resistive Switching Characteristics of Novel AI-Inserted Resistive Random Access Memory (RRAM)</u> , pp. 356-359.	
Ryoo, Kyung-Chang	Seoul National Univ.
Oh, Jeong-Hoon	Seoul National Univ.
Jung, Sunghun	Seoul National Univ.
Jeong, Hongsik	Samsung electronics
Park, Byung-Gook	Seoul National Univ.
17:00-17:20	FrP2-1.2
<u>Driving Magnetic Cells for Information Storage and Propagation</u> , pp. 360-363.	
Karunaratne, Dinuka	Univ. of South Florida
Pulecio, Javier	Univ. of South Florida
Bhanja, Sanjukta	Univ. of South Florida
17:20-17:40	FrP2-1.3
<u>Improvement of Reliability Characteristics Using the N2 Implantation in SOHOS Flash Memory</u> , pp. 364-367.	
Park, Jeong Gyu	Chung-Nam Univ.
Oh, Jae sub	Chung-Nam Univ.
Yang, Seung Dong	Chung-nam National Univ.
Jeong, Kwang Seok	Chung-Nam National Univ.
Kim, Yu Mi	Chung-Nam Univ.
Yun, Ho Jin	Chung-Nam Univ.
Lee, Hi Deok	Chung-Nam Univ.
Lee, Ga Won	Chung-Nam Univ.
17:40-18:00	FrP2-1.4
<u>Comprehensive Optimization of an XY Nano Positioning Stage with Flexure-Hinges and Lever Mechanisms</u> , pp. 368-373.	
Xiao, Xiaohui	School of Power and Mechanical Engineering, WuhanUniversity
Pan, Lizhi	shanghaijiaotong Univ.
Liu, Pinkuan	shanghai jiao tong Univ.
Tong, Xuemei	wuhan Univ.
Yin, Caiyu	wuhan Univ.
FrP2-2	Ocean Terrace 2
Electric Devices	
Chair: Delgado, Alberto	National Univ. of Colombia
16:40-17:10	FrP2-2.1
<u>Modeling Carbon Nanotube Ultracapacitor (Invited Paper)</u> , pp. 374-375.	
Orphanou, Antonis	Santa Clara Univ.
Yamada, Toshishige	Santa Clara Univ.
Yang, Cary Y.	Santa Clara Univ.
17:10-17:30	FrP2-2.2
<u>The Memristor As Controller</u> , pp. 376-379.	
Delgado, Alberto	National Univ. of Colombia
17:30-17:50	FrP2-2.3
<u>Hydrothermal Growth and Field Emission Properties of ZnO Nanotube Arrays</u> , pp. 380-382.	
Ma, Li-An	Fujian Univ. of Tech.
Guo, T.L	Fuzhou Univ.
17:50-18:10	FrP2-2.4
<u>Three Dimensional Modeling of SOI Four Gate Transistors</u> , pp. 383-388.	
Sayed, Shehrin	Bangladesh Univ. of Engineering and Tech.
Hossain, Md. Iftekhar	Bangladesh Univ. of Engineering and Tech.
Huq, Rezwanul	Bangladesh Univ. of Engineering and Tech.
Khan, M Ziaur Rahman	Bangladesh Univ. of Engineering and Tech.
11:10-11:30	WeA1-2.3
<u>Self-Heating in SOI Nano Devices</u> , pp. 389-394.	
Vasileska, Dragica	Arizona State Univ. Tempe, AZ