

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

[TP1] Poster 1

Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)

- TP1-1 Intercalation of CVD Graphene for interconnects**
저자: 최동철, 박재현, 김혜지, 이원준, 정종완
소속: 세종대학교 나노신소재공학과
- TP1-2 Development of Post-CMP Cleaning Solution for Interconnect Application**
저자: Young-Gil Seo¹, Byoung-Jun Cho², Manivannan Ramachandran¹, and Jin-Goo Park^{1,2}
소속: ¹Department of Materials Engineering, Hanyang University, ²Department of Bio-Nano Technology, Hanyang University
- TP1-3 Performance Enhancement for Ag Nanowire-Based Transparent Conductor using TiO₂:Cs Sol-Gel**
저자: Sunho Kim¹, Sekwo Na¹, Jun-gu Kang¹, Haekyoung Kim², and Hoo-Jeong Lee¹
소속: ¹School of Advanced Materials Science and Engineering, SungKyunKwan University, ²School of Materials Science and Engineering, Yeungnam University
- TP1-4 Chemical Vapor Deposition of Molybdenum Thin Film for Copper Interconnect**
저자: Jae-Min Park¹, Clement Lansalot-Matras², and Won-Jun Lee¹
소속: ¹Faculty of Nanotechnology and Advanced Materials Engineering, Sejong University, ²Air Liquide Laboratories Korea
- TP1-5 Atomic Layer Deposition of Highly Conformal and Amorphous W-Si-N Thin Films using a Novel Metallorganic Precursor and Application to a Diffusion Barrier for Advanced Cu Interconnects**
저자: Jae-Hun Jung¹, Taek Mo Jung², Chang Gyun Kim², So Jeong Yeo², Taehoon Cheon^{1,3}, Sang-Kyung Choi⁴, and Soo-Hyun Kim¹
소속: ¹School of Materials Science and Engineering, Yeungnam University, ²Advanced Materials Division, Korea Research Institute of Chemical Technology, ³Center for Core Research Facilities, Deagu Gyeonbuk institute of Science & Technology, ⁴Center for Research Facilities, Chungnam National University
- TP1-6 Enhancement of Thermal Stability of Ytterbium Silicide by Alloying with Molybdenum**
저자: Jun-Gu Kang, Sekwon Na, Juyun Choi, Hyungsub Kim, and Hoo-Jeong Lee
소속: School of Advanced Materials Science and Engineering, Sungkyunkwan University
- TP1-7 Cu Electroless Deposition on the Ta Substrate Through Pd Activation Assisted by Ultrasound**
저자: Kanghoon Kim¹, Taeho Lim², Kwang Hwan Kim², Hyunjoon Lee¹, Jae Jeong Kim², and Oh Joong Kwon¹
소속: ¹Department of Energy and Chemical Engineering, Incheon National University, ²School of Chemical and Biological Engineering, Seoul National University

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

[TP1] Poster 1

Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)

- TP1-8 Effect of Complexing Agents on Internal Stress and Electrical Resistivity of Electroless Copper Layer**
저자: Chang-myeon Lee, Jun-Mi Jeon, and Hong-kee Lee
소속: Incheon Regional Division, Korea Institute of Industrial Technology
- TP1-9 A Study on the Improvement of Adhesion for the Direct Electroless Copper Plating**
저자: Jin-Young Hur, Chang-Myeon Lee, Ho-Nyun Lee, and Hong-Kee Lee
소속: Heat Treatment & Plating Technology Center, Korea Institute of Industrial Technology
- TP1-10 Verilog-A를 이용한 STT-MRAM 셀의 매크로 모델링**
저자: 김경민, 유창식
소속: 한양대학교 전자컴퓨터통신공학과
- TP1-11 Study on Physical Mechanism on the Positive Bias Stress-Induced Degradation of Amorphous InGaZnO Thin-Film Transistors with Density-of-States Based Characterization**
저자: Chunhyung Jo, Hyeongjung Kim, Sungwoo Jun, Dong Jae Shin, Kyung Min Lee, Jaeman Jang, Jaewook Lee, Juntae Jang, Sungju Choi, Sung-Jin Choi, Dong Myong Kim, and Dae Hwan Kim
소속: School of Electrical Engineering, Kookmin University
- TP1-12 Degradation and Breakdown of MgO Magnetic Tunnel Junction**
저자: Jungmin Lee, Chulmin Choi, Kyuhyun Gil, and Yunheub Song
소속: Department of Electronic Engineering, Hanyang University
- TP1-13 Substrate Doping Concentration Dependence of Electron Mobility Enhancement in Uniaxial Strained (110)/<110> nMOSFETs**
저자: Wookyung Sun, Sujin Choi, and Hyungsoon Shin
소속: Department of Electronics Engineering, Ewha Womans University
- TP1-14 Influence of the Poly-Si/SiO₂ Interface Traps on the Program/Erase Characteristics of 3D SONOS NAND Flash Memories**
저자: Jeongsu Lee¹, Seonjun Choi², and Seung-Beck Lee^{1,2,3}
소속: ¹Department of Nanoscale Semiconductor Engineering, Hanyang University, ²Department of Electronic Engineering, Hanyang University, ³Institute of Nano Science and Technology, Hanyang University
- TP1-15 Electrical Characteristic Variations of FinFETs Dependent on the Fin Shape**
저자: Ju Tae Ryu and Tae Whan Kim
소속: Department of Electronics and Computer Engineering, Hanyang University
- TP1-16 Demonstration of Neuron Spike Model using Memristive MTJ Element**
저자: Sungmin Hwang, Dong Ik Suh, Junwoo Lee, and Wanjun Park
소속: Department of Electronic Engineering, Hanyang University

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

[TP1] Poster 1

Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)

- TP1-17 Device Design of Short Channel Tunneling Field-Effect Transistor for Low Standby Power Application**
저자: Hye Rim Eun¹, Young Jun Yoon¹, Jae Hwa Seo¹, Hee-Sung Kang¹, Eou-Sik Cho², Seongjae Cho², Jung-Hee Lee¹, and In Man Kang¹
소속: ¹School of Electronics Engineering, Kyungpook National University, ²Department of Electronics Engineering, Gachon University
- TP1-18 Simulation of the Installation Process of Solid-State Drives to Improve Their Mechanical Reliability**
저자: Jinwoo Jang, Yusuf Cinar, Juyub Lee, and Gunhee Jang
소속: Department of Mechanical Engineering, Hanyang University
- TP1-19 Theoretical Study on Organic Light Emitting Diodes with Micro-Cavity Structure**
저자: Young-Wook Hwang, Hyeon-Gi Lee, and Tae-Young Won
소속: Department of Electrical Engineering, Inha University
- TP1-20 The Enlargement of Process Window by using Source Optimization**
저자: Du Hyun Beak, Jin Phil Choi, Tony Park, Young Seog Kang, and Hun Hwan Ha
소속: Samsung Electronics Co., Ltd.
- TP1-21 Computational Study on Behaviors of Carrier in OLED Devices with Thin CuPc Layer**
저자: Hyeonggi Lee, Youngwook Hwang, and Taeyoung Won
소속: Department of Electrical Engineering, Inha University
- TP1-22 Constant Current Stress-Induced Instability of the Top-Gate IZO TFTs for AMOLED Displays**
저자: Sungju Choi, Jaeman Jang, Hyeongjung Kim, Juntae Jang, Jaewook Lee, Chunhyung Jo, Sungwoo Jun, Kyung Min Lee, Dong Jae Shin, Sung-Jin Choi, Dong Myong Kim, and Dae Hwan Kim
소속: School of Electrical Engineering, Kookmin University
- TP1-23 다층 PCB 휨 거동 예측을 위한 패턴 모델링 및 해석기법 개발**
저자: 김도형¹, 주성준¹, 이준희², 광동욱², 김학성^{1,3}
소속: ¹Department of Mechanical Engineering, Hanyang University, ²Memory Division, Samsung Electronics Co., Ltd ³Institute of Nano Science and Tehcnology, Hanyang University
- TP1-24 Design and Analysis of Gate-Recessed Double Heterojunction AlGaIn/GaN Field-Effect Transistor**
저자: Hye Su Kang¹, Jae Hwa Seo¹, Young Jun Yoon¹, Hwan Gi Lee¹, Gwan Min Yoo¹, Young Jae Kim¹, Sung Yoon Kim¹, Sung Yun Woo¹, Hee Bum Roh¹, Hye Rim Eun¹, Seongjae Cho², Jung-Hee Lee¹, and In Man Kang¹
소속: ¹School of Electronics Engineering, Kyungpook National University, ²Department of Electronics Engineering, Gachon University

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

[TP1] Poster 1

Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)

- TP1-26 Pixel Circuit with a-IGZO TFT for AMOLED**
저자: Jae-Pyo Lee¹, Kyeong-Min Yu¹, Jin Nyoung Jang², Moon Pyo Hong², and Byung Seong Bae¹
소속: ¹Department of Display Engineering, Hoseo University, ²Department of Display and Semiconductor Physics, Korea University
- TP1-27 Effect of Gate/Drain Voltage Configuration on Electrical Degradation of the Bottom-Gate In-Ga-Zn-O Thin-Film Transistors Driving AMOLED Displays**
저자: Hyeongjung Kim, Jaeman Jang, Jaewook Lee, Chunhyung Jo, Sungwoo Jun, Kyung Min Lee, Dong Jae Shin, Juntae Jang, Sungju Choi, Sung-Jin Choi, Dong Myung Kim, and Dae Hwan Kim
소속: School of Electrical Engineering, Kookmin University
- TP1-28 A Two-Step Set Operation for Reliability of ReRAM with Triple-Layer ReRAM**
저자: Sangheon Lee, Daeseok Lee, Jiyong Woo, Euijun Cha, and Hyunsang Hwang
소속: Department of Materials Science and Engineering, Pohang University of Science and Technology
- TP1-29 Investigation of the Deposition of Sb-Te Phase Change Film inside the Trench Structure by the Screen Remote Plasma-Enhanced Atomic Vapor Deposition**
저자: Jin Hwan Jeong, Su Bin An, and Doo Jin Choi
소속: Department of Material Science and Engineering, Yonsei University
- TP1-30 Bipolar Resistive Switching of Ge₂Sb₂Te₅ and Ge₂Sb₂Te₇ Thin Films without Involving Obvious Phase Change**
저자: Sijung Yoo, Taeyong Eom, Taehong Gwon, and Cheol Seong Hwang
소속: Department of Materials Science and Engineering, Kyung Hee University
- TP1-31 Improvement of Unipolar Resistive Switching Characteristics in Al/Ge_{0.5}Se_{0.5}/Pt Structure by using Ag Nanocrystals**
저자: Jang-Han Kim, Ki-Hyun Nam, Won-Ju Cho, and Hong-Bay Chung
소속: Department of Electronic Materials Engineering, Kwangwoon University
- TP1-32 Fabrication of Solution Processed Al-Doped HfO_x ReRAM**
저자: Jung-Hoon Park, Jang-Han Kim, and Won-ju Cho
소속: Department of Electronic Materials Engineering, Kwangwoon University
- TP1-33 Characteristics of Resistive Switching Depending on Localized Conducting Filaments**
저자: Yeon Soo Kim, Sangik Lee, Jihoon Jeon, Chansoo Yoon, Taejun Oh, Keundong Lee, YoonSeung Nam, and Bae Ho Park
소속: Department of Physics, Konkuk University

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

[TP1] Poster 1

Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)

- TP1-34 Switchable Schottky Diode and Resistive Switching Characteristics in Mn-Doped ZnO Thin Films**
저자: YoonSeung Nam, ChanSoo Yoon, JiHoon Jun, SangIk Lee, KeunDong Lee, TaeJoon Oh, GwangTaek Oh, and Bae Ho Park
소속: Department of Division of Quantum Phases and Devices, Konkuk University
- TP1-35 Effect of Non-Lattice Oxygen Concentration on Non-Linear Resistive Switching Characteristic of HfO₂ Films**
저자: Jonggi Kim, Yongjae Kim, Kyumin Lee, and Hyunchul Sohn
소속: Department of Materials Science & Engineering, Yonsei University
- TP1-36 Non-Linear Resistive Switching Characteristic Based on ZnSe Selector for Eliminating Sneak Current in Cross-Bar ReRAM Device**
저자: Youngjae Kim, Jonggi Kim, Yoonki Min, and Hyunchul Sohn
소속: Department of Materials Science & Engineering, Yonsei University
- TP1-37 Influence of Trap States on Transport and Photoresponse of Resistive Switching Pt/Nb:STO Schottky Junctions**
저자: Yoonjung Kim, Haeri Kim, and Dong-Wook Kim
소속: Department of Physics, Ewha Womans University
- TP1-38 Non-Lattice Oxygen Ion Driven Negative Differential Resistance Behavior for the Future ReRAM Applications**
저자: Yoon Cheol Bae¹, Ah Rahm Lee¹, Gwang Ho Baek¹, Je Bock Chung¹, Won Bae Koo², and Jin Pyo Hong²
소속: ¹Division of Nano-Scale Semiconductor Engineering, Hanyang University, ²Department of Physics, Hanyang University
- TP1-39 TiO_xN_y Electrode Interface-Driven Dual-Resistive Switching Behaviors of Pt/Ta₂O_{5-x}/TiO_xN_y Cell for the Future ReRAM Applications**
저자: Ah Rahm Lee¹, Yoon Cheol Bae¹, Gwang Ho Baek¹, Je Bock Chung¹, and Jin Pyo Hong^{1,2}
소속: ¹Division of Nano-Scale Semiconductor Engineering, Hanyang University, ²Department of Physics, Hanyang University
- TP1-40 Area-Efficient, Power-Efficient Program Voltage Generator for 3D Solid State Drive with NAND Flash Memories**
저자: Youngil Kim¹, Sungwook Choi², and Sangsun Lee¹
소속: ¹Depart. Nanoscale Semiconductor Engineering, Hanyang University, ²Flash Development Division, SK Hynix
- TP1-41 Selective Etching of MTJ Materials using CO/NH₃ Gas Mixture in Pulse-biased Inductively Coupled Plasmas**
저자: Minhwan Jeon and Geunyoung Yeom
소속: Advanced Institute of Nano Technology, Sungkyunkwan University

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

[TP1] Poster 1

Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)

- TP1-42 The Study of Scalable Three-Dimensional NAND Flash Structure using Edge Fringing Field**
저자: Hyungjun Yang, Gaehun Lee, and Yunheub Song
소속: Department of Electronic Engineering, Hanyang University
- TP1-43 Current-Induced Synchronized Switching of Magnetization**
저자: Soo-Man Seo¹, Jung-Hwan Moon¹, Seung-Jae Lee¹, and Kyung-Jin Lee^{1,2}
소속: ¹Department of materials science and engineering, Korea University, ²KU-KIST Graduate school of converging science and technology, Korea University
- TP1-44 Ge 기판의 S 처리를 이용한 Charge –Trapping Type 소자의 메모리 특성 연구**
저자: Myungwan Lee, Yong Chan Jung, Sejong Seong, In-Sung Park, and Jinho Ahn
소속: Department of Materials Science and Engineering, Hanyang University
- TP1-45 Improved Reliability of RRAM by Optimizing Pulse Shape to Minimize Current Overshoot**
저자: Jeonghwan Song, Daeseok Lee, Jiyong Woo, and Hyunsang Hwang
소속: Department of Materials Science and Engineering, Pohang University of Science and Technology
- TP1-46 Real-Time PRBS Chaser**
저자: Seok-Min Ye and Deog Kyoong Jeong
소속: Department of Electrical and Computer Engineering, Seoul National University
- TP1-47 An Active Switching DC-DC Converter for Wireless Energy Harvester**
저자: Wonjae Jung, Sangkyu Kim, Hyobin Jung, Jihoon Lee, Yongki Hur, and Junseok Park
소속: School of Electronical Engineering, Kookmin University
- TP1-48 A Design of High Efficiency Microwave Wireless Power Acceptor IC**
저자: Wonjae Jung, Sangkyu Kim, Hyobin Jung, and Junseok Park
소속: School of Electronical Engineering, Kookmin University
- TP1-49 Oscillation RF-DC Converter for Wireless Energy Harvesting**
저자: Wonjae Jung, Sangkyu Kim, Hyobin Jung, Jihoon Lee, and Junseok Park
소속: School of Electronical Engineering, Kookmin University
- TP1-50 16-Channel LED Driver IC for Full-Color LED Display**
저자: Sang-Kyu Kim and Jun-Seok Park
소속: School of Electronical Engineering, Kookmin University
- TP1-51 A Design of Wideband Programmable Gain Amplifier(PGA) for LTE Repeater System**
저자: Hyo-Bin Jung and Jun-Seok Park
소속: School of Electrical Engineering, Kookmin University

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

[TP1] Poster 1

Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)

- TP1-52 High-Accuracy Differential Voltage Amplifier Operating At Wide DC Input Voltage**
저자: Tae-Ho Kim, Jae-Mun Oh, Jong-Hyun Yoon, Jin-Won Mok, Jong-Ho Park, Jae-Hyun Shim, Seong-Yong Kim, and Byung-Do Yang
소속: Graduated School of Semiconductor Engineering, Chungbuk University
- TP1-53 Circuit for Preventing Negative Oscillation of Power-Switch with Wide DC Input Voltage**
저자: Seong-Yong Kim, Jae-Mun Oh, Jong-Hyun Yoon, Jin-Won Mok, Jong-Ho Park, Jae-Hyun Shim, Tae-ho Kim, and Byung-Do Yang
소속: Graduated School of Semiconductor Engineering, Chungbuk University
- TP1-54 Dual-Mode CMOS Image Sensors for Depth Acquisition and Motion Detection**
저자: Kwang-Hyun Lee¹, Yibing M. Wang², Hongyu Wang², Seunghoon Lee¹, Dong-Ki Min¹, Seokyoung Hong¹, Sung-Jae Byun¹, Hyunil Byun¹, Jungbin Yun¹, Deokha Shin¹, Yohwan Noh¹, Wanghyun Kim¹, Ilia Ovsianikov², and Taechan Kim¹
소속: ¹Image Development Team, System LSI, SEC ²Samsung Semiconductor, Inc.
- TP1-55 A Replica-Driving Technique for High Performance SC Circuits**
저자: Chang-kyo Lee¹, Wan Kim², Hyun-wook Kang², Jung-hwan Choi¹, and Seung-Tak Ryu²
소속: ¹Memory Division, Samsung Electronics Co., Ltd., ²Department of Electrical Engineering, KAIST
- TP1-56 A High Gain and Small Size Comparator Array for Laser Radar Receiver**
저자: Jongsun An^{1,2}, Joo-Young Choi², Bongki Mheen², and Choul-Young Kim¹
소속: ¹Department of Electronics, Chungnam National University, ²Electronics and Telecommunication Research Institute
- TP1-57 A 16-channel CMOS Transimpedance Amplifier Array for PSL Systems**
저자: Xiao Ying, Hanbyul Choi, Seung-Hoon Kim, and Sung Min Park
소속: Department of Electronics Engineering, Ewha Womans University
- TP1-58 LED구동 회로용 온도 히스테리시스를 갖고 있는 고온 탐지기 회로**
저자: 김영기, 황재연
소속: 안양대학교 정보통신공학과 대학원
- TP1-59 Cu₂Te as Back Contact Layer in CdS/CdTe Solar Cell**
저자: ShinHaeng Cho, SangSu Kim, MinHyuk Park, and JinKi Hong
소속: Department of Applied Physics, Korea University
- TP1-60 Photovoltaic and Electrical Characterization of Cu(In,Ga)Se₂ Thin Film Solar Cells**
저자: Ji Eun Kim, Yunae Cho, and Dong-Wook Kim
소속: Department of Physics, Ewha Womans University

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

[TP1] Poster 1

Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)

- TP1-61 Flat and Thin Heat Dissipation Method for High Power Device**
저자: Seok-Hwan Moon¹, Kyu-Ho Lee¹, Soo-Hyun Hong¹, Sang-Choon Ko¹, Chi-Hoon Jun¹, Jae-Kyoung Mun¹, and Hyung-Man Lee²
소속: ¹GaN Power Device Research Department, Electronics and Telecommunications Research Institute, ²Korea Electronics Technology Institute
- TP1-62 Photo-Thermal Current in SrRuO₃ Thin Film Device**
저자: Ji Ho Sung, Jin Hong Lee, and Moon-Ho Jo
소속: Advanced Materials Science, Pohang University of Science and Technology
- TP1-63 Estimating Electrical and Optical Properties of 1D Metal Grid Transparent Electrode on SiO₂ Substrate**
저자: Kilbock Lee, Jinho Ahn
소속: Department of Material Science & Engineering, Hanyang University
- TP1-64 Characterization of Degradation in Cu(In,Ga)Se₂ Photovoltaic Modules under Accelerated Damp Heat**
저자: Dong-Won Lee^{1,2}, Yong-Nam Kim², Chi-Hong Park³, Kyung-Eun Park³, and Won-Ju Cho¹
소속: ¹Department of Electronic Materials Engineering, Kwangwoon University, ²Material Testing Center, Korea Testing Laboratory, ³Solar Cell Laboratory, LG Innotek Co., Ltd.
- TP1-65 Changes in the Characteristics of Cu(In,Ga)Se₂ Photovoltaic Modules under Various Accelerated Environmental Tests**
저자: Dong-Won Lee^{1,2}, Yong-Nam Kim², Chi-Hong Park³, Kyung-Eun Park³, and Won-Ju Cho¹
소속: ¹Department of Electronic Materials Engineering, Kwangwoon University, ²Material Testing Center, Korea Testing Laboratory, ³Solar Cell Laboratory, LG Innotek Co., Ltd.
- TP1-66 Ga-Doped ZnO Nanorods using an Aqueous Solution Method for a Piezoelectric Nanogenerator**
저자: Su-HyunYoon and Sang-Woo Kim
소속: School of Advanced Materials Science and Engineering, Sungkyunkwan University
- TP1-67 High-Performance of P-Type Polymer Hybridized ZnO Thin Film Piezoelectric Nanogenerator**
저자: Sung-Soo Kwak¹, Keun Young Lee¹, and Sang-Woo Kim^{1,2}
소속: ¹School of Advanced Materials Science and Engineering, Sungkyunkwan University, ²School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT)

The 21st Korean Conference on Semiconductors
제21회 한국반도체학술대회
February 24–26, 2014 / Hanyang University, Seoul, Korea

[TP1] Poster 1

Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)

- TP1-68 Two-Dimensional Vanadium-Doped ZnO Nanosheet-Based Flexible Direct Current Nanogenerator**
저자: Tae Yun Kim, Manoj K Gupta, and Sang-Woo Kim
소속: Advanced Institute of Nanotechnology, Sungkyunkwan University
- TP1-69 Stretchable Piezoelectric-Pyroelectric Hybrid Energy Harvester Based on P(VDF-TrFE)**
저자: HongJoon Yoon¹, SangWoo Kim^{1, 2}
소속: ¹School of Advanced Materials Science and Engineering, Sungkyunkwan University, ²School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT)
- TP1-70 Microstructure and Electrical Property of Si/Carbon Fiber Hybrid Structure**
저자: Eulyong Chae, Heedo Na, and Hyunchul Sohn
소속: Department of Materials Science and Engineering, Yonsei University