

Advanced Program

The 14th IEEE International Conference on Electron Devices and Solid-State Circuits (EDSSC 2018)

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Noted: All activities are held in/in front of Shanghai Ballroom Marriott Hotel Golden Bay, except the Lunch, Dinner and Beach banquet.

June 5, 2018 Pre-Day1 Tuesday

15:30-17:30 Registration (Shanghai Ballroom)

June 6, 2018 Day1, Wednesday

08:00-09:00 Registration (Shanghai Ballroom)

09:00-10:15 Opening Ceremony and Keynote Lecture1 (Shanghai Ballroom)

Keynote speaker: Prof. T.P. Ma

Title: Opportunities and Challenges for Emerging IC Technology Based on High-Mobility-Channel Transistors

10:15-10:30 Coffee Break

10:30-12:30 Keynote Lecture2&3 (Shanghai Ballroom)

Keynote speaker: Prof. Kin-Leong Pey

Title: New Opportunities and Potential of Advanced Physical Analysis Techniques to Study Nanoscale Semiconductor Devices

Keynote speaker: Dr. Hao Fang

Title: Magnetic Recording: Device and its Circuit considerations

12:30-14:00 Lunch, 1F Golden Bay Kitchen

14:00-15:30 Parallel session W1A, W1B, W1C

Session W1A (Shanghai Ballroom A, Carben Technology)

Time	S-No P-ID	Title	Presenting Author
14:00- 14:30	W1A1- A0445	All-Carbon Interconnects	Invite talk Cary Yang
14:30- 14:45	W1A2- A1188	Carbon Nanotube Lateral Field Emission Device with Embedded Field Effect Transistor	Yang Yang
14:45- 15:00	W1A3- A0586	Synthesis of Carbon Nanotube in Sub-100nm Vias on Ni Silicide	Ying Xiao
15:00-	W1A4-	Impact of CNT Diameter Distribution on CNT	Clarissa

15:15	A0411	filled Via Scaling	Prawoto
15:15- 15:30	W1A5- A0116	Facile Fabrication of Porous Carbon Materials Derived from Pleurotus Eryngii for Supercapacitor Electrodes	Yinchao Zhao

Session W1B (Shanghai Ballroom B, Energy Devices)

Time	S-No P-ID	Title	Presenting Author
14:00- 14:30	W1B1- A1107	Solution Processed Antimony Sulfide-Selenide [Sb ₂ (S,Se) ₃] for High Efficiency Solar Cells	Invite talk Tao Chen
14:30- 14:45	W1B2- A0926	The Investigation of TiO ₂ Nanostructures on Performance of Perovskite Solar Cells	Charles Surya
14:45- 15:00	W1B3- A0918	Novel Cryo-controlled Nucleation Technique for High-efficiency Perovskite Solar Cells	Annie Ng
15:00- 15:15	W1B4- A1078	Large Area Perovskite Solar Cell via Two-step Ultrasonic Spray Deposition	Shizhen Wang
15:15- 15:30	W1B5- A0457	Performance enhancement of perovskite solar cell on AZO substrate via atomic layer deposited TiO ₂ layer	Rong Liu

Session W1C (Shanghai Ballroom C, Biomedical Circuits)

Time	S-No P-ID	Title	Presenting Author
14:00- 14:30	W1C1- A1240	Nanoelectrode Arrays Based on Vertically Aligned Carbon Nanofibers for Dielectrophoretic Capture and Detection of Pathogens	Invite talk Jun Li
14:30- 15:00	W1C2- A1222	T-chip, Electrochemical biosensor platform based on the electron tunneling: effect and role of the back	Invite talk YongJune

		filling material	Park
15:00-15:15	W1C3-A0582	An interface pressure measurement system for medical compression stockings	Wen Jia
15:15-15:30	W1C4-A0151	A Wireless Power-Efficient Charger Chip with Closed-Loop Controlling Mechanism for Implantable Biomedical System	Xingyu Fu

15:30-15:45 Coffee Break

15:45-17:15 Parallel session W2A, W2B, W2C

Session W2A (Shanghai Ballroom A, Memory and Memristor technology)

Time	S-No P-ID	Title	Presenting Author
15:45-16:15	W2A1-A1159	Resistive Switching Memory towards Embedded Application in 28 nm Node and Beyond	Invite talk Ming Liu
16:15-16:30	W2A2-A0320	Optically-Controlled Multifunctional Organic-Inorganic Perovskite Based Electronic Devices	Yang Chai
16:30-16:45	W2A3-A0618	Design of CMOS-memristor Circuits for LSTM architecture	Kamilya Smagulova
16:45-17:00	W2A4-A0546	Back-Propagation Neural Network based on Analog Memristive Synapse	Ruohua Zhu

Session W2B (Shanghai Ballroom B, Modeling Special Session)

Time	S-No P-ID	Title	Presenting Author
15:45-16:00	W2B1-A1209	MEOL Gate-around Parasitic Capacitance Extraction Verification for Design Enablements in	Lijie Sun

		Advanced FinFET Technology	
16:00- 16:15	W2B2- A0394	Analysis of 1/f Noise for Organic TFTs Considering Mobility Power-Law Parameter	Hongyu He
16:15- 16:30	W2B3- A0829	Strain Effect on Electronic Properties of Arsenene/Graphene Heterostructure	Zhen Luo
16:30- 16:45	W2B4- A0040	A simple analytical model of threshold voltage for p-channel double gate junctionless transistor	Md Mohsinur Rahman Adnan
16:45- 17:00	W2B5- A0381	A Co-simulation Method of Power Amplifier for Reliability Optimization	Yuanbo MA

Session W2C (Shanghai Ballroom C, MEMS and Sensors)

Time	S-No P-ID	Title	Presenting Author
15:45- 16:15	W2C1- A1161	Piezoelectric Micromachined Ultrasonic Transducers for Ultrasonic Imaging	Invite talk Tian-Ling Ren
16:15- 16:30	W2C2- A1025	Investigation of the Liquid Loading Effect on the Flexible Acoustic Wave Devices for in-liquid Sensing Applications	Changjian Zhou
16:30- 16:45	W2C3- A0628	An Ultra-Low Power Temperature Sensor Based on Relaxation Oscillator in Standard CMOS	Wendi Yang
16:45- 17:00	W2C4- A0645	Novel Structure of Beam Enhances the Performance of the Shunt Capacitive RF MEMS Switch	Wentao Xiong
17:00- 17:15	W2C5- A0094	Simulation of the Rotated Square Holes Effect on the Shunt Capacitive RF MEMS Switch	Wentao Xiong

17:30-19:00 Dinner, 1F Golden Bay Kitchen

June 7, 2018 Day 2, Thursday

08:30-12:30 Registration (Shanghai Ballroom)

09:00-10:30 Parallel session T1A, T1B, T1C

Session T1A (Shanghai Ballroom A, Frontend Devices)

Time	S-No P-ID	Title	Presenting Author
09:00- 09:30	T1A1- A1143	Ultrahigh-Frequency Characteristics of Single-Electron Transistor	Invite talk Hiroshi Inokawa
09:30- 10:00	T1A2- A0069	High Performance WSe ₂ Transistors with Multilayer Graphene-WSe ₂ Heterostructures	Invited talk Chen-Hsin Lien
10:00- 10:15	T1A3- A0534	Local Modification of Defective Edge Hamiltonian for Graphene Nanoribbon Devices	Shizhuo Ye
10:15- 10:30	T1A4- A1204	First Demonstration of Double-Gate Radio-Frequency Graphene Transistors	Qingguo Gao

Session T1B (Shanghai Ballroom B, OTFT and Flexible Electronics)

Time	S-No P-ID	Title	Presenting Author
09:00- 09:30	T1B1- A1038	Carbon-based Nanostructures for Flexible Electronics	Invite talk Jeongwon Park
09:30- 09:45	T1B2- A0896	Inorganic Hybrid Flexible Oxide Synaptic Transistor	LiQiang Zhu
09:45-	T1B3-	Flexible Solid-state Supercapacitors Using Paper-	Kun Yu

10:00	A0872	based Electrodes for Energy Storage	
10:00-10:15	T1B4-A0725	Hydrogen Sensor Based on Pentacene Organic Thin-Film Transistor for Flexible Applications	Bochang Li
10:15-10:30	T1B5-A0944	Improved Performance of Pentacene OTFT by using Hybrid Oxide of Nd and Hf as Gate Dielectric	YuanXiao Ma

Session T1C (Shanghai Ballroom C, Analog Circuits)

Time	S-No P-ID	Title	Presenting Author
09:00-09:30	T1C1-A0437	Low-power High-speed Dynamic Comparator Using a New Regenerative Stage	Invite talk Yao Wang
09:30-09:45	T1C2-A0036	A 2-Step Complementary-Based-Cross-Coupled Operational Transconductance Amplifier for LCD Column Driver	Yufei Zhang
09:45-10:00	T1C3-A0166	A Reconfigurable Analog Baseband for Ka Band Transmitter	Wei Wang
10:00-10:15	T1C4-A0571	An On-Chip Oscillator with Comparator Offset Cancellation	Dewei Zhang
10:15-10:30	T1C5-A0387	A Double Gain-Boosted Amplifier with Widened Output Swing Based on Signal- and Transient-Current Boosting Technique in CMOS 130-nm Technology	Cheuk Ho Hung

10:30-10:45 Coffee Break (Shanghai Ballroom)

10:45-12:15 Parallel session T2A, T2B, T2C

Session T2A (Shanghai Ballroom A, Emerging Devices)

Time	S-No	Title	Presenting
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	P-ID		Author
10:45- 11:15	T2A1- A1130	The Design of High Performance Si/SiGe-Based Tunneling FET: Strategies and Solutions	Invite talk Steve Chung
11:15- 11:30	T2A2- A0553	Low Temperature Fabrication of n+Si/pGe Heterojunctions by Ribbon Bonding	Chi Liu
11:30- 11:45	T2A3- A1163	The effect of frequency dispersion to the RF performance of dual source Tunneling FETs	Qianwei Kuang
11:45- 12:00	T2A4- A0572	The Performance Investigation of Junctionless Transistor By Considering Different Recessed Gates	Haijun Lou
12:00- 12:15	T2A5- A0697	Strain Consideration of Charge Plasma Structure on Junctionless Transistor With Line Edge Roughness	Wentao Li

Session T2B (Shanghai Ballroom B, Display and Image)

Time	S-No P-ID	Title	Presenting Author
10:45- 11:15	T2B1- A1243	Technology Issues for Self-aligned Top-Gate Amorphous Metal Oxide Thin-Film Transistors	Invite talk Shengdong Zhang
11:15- 11:30	T2B2- A0432	A One-Transistor Active Pixel Sensor Formed by A Vertical Photodiode-Gated Low-Temperature Polysilicon Thin-Film Transistor	Kai Wang
11:30- 11:45	T2B3- A0213	High Performance Graphene/Silicon Photodetectors and Image Sensors	Yang Xu
11:45- 12:00	T2B4- A0777	Photoluminescence of QD-PVA Film for Displays	Miao Zhou
12:00-	T2B5-	An a-IGZO TFT Pixel Circuit for AMOLED Display	Shuiping Yi

12:15	A1023	Systems With Compensation for Mobility and Threshold Voltage Variations	
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Session T2C (Shanghai Ballroom C, Date Conversion Circuits)

Time	S-No P-ID	Title	Presenting Author
10:45- 11:15	T2C1- A1166	High Speed Energy Efficient Optical Receiver	Invite talk Wei-Zen Chen
11:15- 11:45	T2C2- A0828	A Novel Comparator Offset Calibration Technique for SAR ADCs	Invite talk Tang He
11:45- 12:00	T2C3- A1055	Design Technology of High Linearity DAC for Large Array CMOS Image Sensor	Zhongjie Guo

12:15-14:00 Lunch, 1F Golden Bay Kitchen

14:00-15:30 Parallel session T3A, T3B, T3C

Session T3A (Shanghai Ballroom A, Power Devices)

Time	S-No P-ID	Title	Presenting Author
14:00- 14:15	T3A1- A1051	High performance bidirectional IGBT with sandwich super junction structure	Jinping Zhang
14:15- 14:30	T3A2- A1096	A new Integrated MOS-GCT Structure with Dual Gate	Cailin Wan
14:30- 14:45	T3A3- A1010	Substrate thinning and external stress effect on the output characteristics of AlGaN/GaN HEMTs	Xiao Meng
14:45- 15:00	T3A4- A0900	Characterization of Transient Threshold Voltage Shifts in Enhancement- and Depletion-mode AlGaN/GaN Metal-Insulator-Semiconductor (MIS)-HEMTs	Miao Cui

15:00-15:15	T3A5-A0491	Experimentation and Simulation for Cap Gate AlGaIn/GaN HEMT Power Devices	Wenteng Kuang
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Session T3B (Shanghai Ballroom B, Reliability)

Time	S-No P-ID	Title	Presenting Author
14:00-14:30	T3B1-A1031	Thermal Characteristics of ESD Diode in FDSOI Technologies	Invite talk Zhaonian Yang
14:30-15:00	T3B2-A1230	Novel diode-triggered SCR with suppressed multiple triggering for ESD applications	Invite talk Zhiwei Liu
15:00-15:15	T3B3-A0146	A Study about the Different Corrosion Behavior between Cu/Mo Bilayer and Mo/Cu/Mo Three-layer Metal Electrode	Yue Wu
15:15-15:30	T3B4-A0706	Failure Analysis of Multi-layer Ceramic Capacitors under Board Level Shock Environment	Jialu Li

Session T3C (Shanghai Ballroom C, Advanced Circuits)

Time	S-No P-ID	Title	Presenting Author
14:00-14:30	T3C1-A0638	A 2-to-10 GHz 1.4-mW 50% Duty-Cycle Corrector in 40-nm CMOS Process	Invite talk Zhao Zhang
14:30-14:45	T3C2-A0046	Simplified reconfigurable rectifier with consistent input capacitance for wireless power transfer	Xian Tang
14:45-15:00	T3C3-A0167	Short Range LFMCW System for Automobile Reversing Radar	Yixiu Liao
15:00-15:15	T3C4-A0719	A Low Power Signal Acquisition Channel with a Novel Systematic Power Minimization Scheme	Shangzheng Yang

15:15-15:30	T3C5-A0340	A Fully-on-Chip Low-Voltage Low-Dropout Regulator with Negative Charge Pump	Yi Tan
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15:30-15:45 Coffee Break

15:45-17:15 Poster session

S-No	P-ID	Title	Presenting Author
P01	A0090	Design of High Performance XOR and XNOR Logic Gates without MOS Devices	Qiujun Lin
P02	A0121	A Normally-off P-Gate AlGaIn/GaN HEMT for High Power Application	Ninggang Dong
P03	A0214	Simulation of High-Gain Amplifier with Metal Oxide Thin-Film Transistors	Zheng Zhou
P04	A0235	A Low Power High Frequency Quantizer Base on the Time-to-Digital Circuit	Hanyuan Zhang
P04	A0290	Low Voltage Dual-Modulus Frequency Divider Based on Extended True Single-Phase Clock Logic	Wanlu Wang
P06	A0297	A High PSRR Low Drop-out Linear Regulator without Output Capacitor	Yijun Yang
P07	A0318	Design of a Novel Ternary SRAM Cell	Song Jia
P08	A0319	An Improvement of BSIM for Fast Circuit Simulations	Debin Song
P09	A0332	A High Performance Encryption System Based on AES Algorithm with Novel Hardware Implementation	Ye Yuan
P10	A0374	A Low Phase Noise and High Linearity Class-C VCO for FMCW Radar system	Zhiyuan Chen
P11	A0400	High-efficiency CMOS power amplifier with a folded proportional combining structure and adaptive power mode control	Haigang Wu
P12	A0551	An Asynchronous Pipeline based Implementation of Membrane Potential of I&F model	feiyang yu
P13	A0612	An asynchronous and reconfigurable CNN accelerator	Weijia Chen
P14	A0624	A Low Power Low Noise Front End Amplifier for ECG Monitoring	Yi Yang

P15	A0650	Analysis on Transfer Efficiency of Five Different Antenna Configurations in Short-Distance Wireless Power Transfer	Wentao Xiong
P16	A0685	Vertically-oriented Graphene for Field-Effect Transistor Photodetector	Jiawei Yang
P17	A0731	Study of Work-Function Variation Effects in Multigate Tunneling Field Effect Transistors	Liming Gu
P18	A0748	A Novel 2b/cycle Time and Voltage Based Conversion Technique in SAR ADC	Jian Luo
P19	A0798	A current-transient method for identifying the spatial positions of traps in GaN-based HEMTs	Xiang Zheng
P20	A0827	Enhancement of Positive Bias Stress Stability for IGZO TFTs by a CAAC Gd-AZO Bulk Layer	Junchen Dong
P21	A0843	Modified Deep Learning Approach for Layout Hotspot Detection	Yuanhang Zhang
P22	A0855	The MOSFET performance degrading induced by electric heating coupling under electromagnetic pulse environment	Jinfu Lin
P23	A0922	Study of Self-Heating Effects in Silicon Nano-Sheet Transistors	Geetika Chalia
P24	A0940	A High-Efficient, Multi-Phase Charge Pump Scheme	Dewei Zhang
P25	A0946	Vertical Channel ITO-stabilized ZnO Thin-Film Transistors	Xuemei Yin
P26	A0987	Low voltage low power full adder for baseband circuits in wireless systems	Shaoquan Gao
P27	A1021	An AMOLED LTPS-TFT Pixel Circuit Using Mirror Structure to Compensate V_{th} Variation and Voltage Drop	Jixiang Wu
P28	A1059	Research on Current Sharing Method of SiC MOSFET Parallel Modules	hui chengwu
P29	A1068	Effects of High Temperature Treatment on SiO ₂ Patterned Mask on Si Substrate	Kaiwen Hou
P30	A1105	Simulation and mechanism analysis of MOSFET threshold voltage drift induced by manufacturing process	wei gao
P31	A1171	High-Gain and Fast-Setting OTA for high Speed and high Resolution ADC	Yong zhang
P32	A1217	Gait Recognition Based on Graphene Porous Network Structure Pressure Sensors for Rehabilitation Therapy	Song Jiang

17:30-20:00 Beach Banquet, Eastern Lawn

June 8, 2018 Day 3, Friday

08:30-11:00 Registration

09:00-10:30 Parallel session F1A, F1B, F1C

Session F1A (Shanghai Ballroom A, New Material Devices)

Time	S-No P-ID	Title	Presenting Author
09:00- 09:15	F1A1- A0086	Dynamic Threshold Voltage Modulation in Double-Gate Indium-Gallium-Zinc Oxide Thin-Film Transistors: Influence of the Active Layer Thickness	Yang Shao
09:15- 09:30	F1A2- A1271	Current Enhancement of Graphene-Inserted Tunneling Contact IGZO TFT	Xintong Zhang
09:30- 09:45	F1A3- A0230	Ti film thickness influences on the back channel etched amorphous InGaZnO ₄ thin film transistors	Letao Zhang
09:45- 10:00	F1A4- A0659	Degradation Behaviors of Driving Thin-Film Transistors in Active-Matrix Organic Light-Emitting Diode Displays	Meng Zhang
10:00- 10:15	F1A5- A0585	Current Conduction Mechanisms in h-BN as a Dielectric Material	Zichao Ma
10:15- 10:30	F1A6- A0862	Carrier Injection Mechanism of Metal-MoS ₂ Ohmic Contact in MoS ₂ FETs	Wei-Chih Cheng

Session F1B (Shanghai Ballroom B, AI and Neural Network)

Time	S-No P-ID	Title	Presenting Author
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09:00-09:30	F1B1-A1237	Semiconductor Industry Driven by Applications: Artificial Intelligence and Internet-of-Things	Invite talk Meikei Ieong
09:30-09:45	F1B2-A0270	An Energy-Efficient FPGA-Based Embedded System for CNN Application	Wenao Xi
09:45-10:00	F1B3-A0642	A Novel Convolutional Recurrent Neural Network Based Algorithm for Fast Gas Recognition in Electronic Nose System	Haien Zhang
10:00-10:15	F1B4-A0342	A Flexible Artificial Synapse for Neuromorphic System	Kunlong Yang
10:15-10:30	F1B5-A0326	Hardware Implementation of SM4 Based on Composite Filed S-box and It' s Security against Machine Learning Attack	Li Wei

Session F1C (Shanghai Ballroom C, Communication and RF Circuits)

Time	S-No P-ID	Title	Presenting Author
09:00-09:30	F1C1-A1042	Visible Light Communication System-on-a-Chip	Invite talk Albert Wang
09:30-09:45	F1C2-A0182	A Digital Polar Transmitter With Switched Capacitor RF Power Amplifier	Sijia Jiang
09:45-10:00	F1C3-A0873	A Novel Configurable Transceiver for a Hybrid Continuous Waveform Radar	Wei Ma
10:00-10:15	F1C4-A0238	A Novel Power Mixer for NB-IoT Transmitter in 65-nm CMOS	Xiaodong You
10:15-10:30	F1C5-A0242	A Novel Cascode Mixer for NB-IoT Transceiver System in 65nm CMOS	Pengyi Cao

10:30-10:45 Coffee Break (Shanghai Ballroom)

10:45-12:15 Parallel session F2A, F2B, F2C

Session F2A (Shanghai Ballroom A, RF and Microwave Circuits)

Time	S-No P-ID	Title	Presenting Author
10:45- 11:15	F2A1- A0251	A Low-Power Single-Chip Internet of Things Transponder with Energy Harvesting	Invite talk Bing Li
11:15- 11:45	F2A2- A0172	A Novel Low Power Injection-Locked Frequency Divider Based on Current-Reuse Technique	Guo Yingying
11:45- 12:00	F2A3- A0187	A noval fast-locking ADPLL based on Newton' s Method	Huazhang Li
12:00- 12:15	F2A4- A0223	Quadrature Injection Locked Frequency Tripler with Wide Tuning Range and Low Quadrature Error for MM-Wave Applications	Wankai Zheng
12:00- 12:15	F2A5- A0051	Design of low-power high-speed dual-modulus frequency divider with improved MOS current mode logic	Wanlu Wang

Session F2B (Shanghai Ballroom B, Photonic Devices)

Time	S-No P-ID	Title	Presenting Author
10:45- 11:15	F2B1- A1235	Low Noise, High Gain-Bandwidth Photodetectors Using Cycling Exciting Process (CEP) as Amplification Mechanism	Invite talk Yu Hwa Lo
11:15- 11:30	F2B2- A0908	Large-area Visible-blind 4H-SiC Ultraviolet Avalanche Photodiode with High Gain and Low Bias Voltage	Xingye Zhou
11:30-	F2B3-	SOI-based Si Light-emitting device for future On-	Shizhen

11:45	A1048	chip interconnection	Wang
11:45-12:00	F2B4-A0865	Ambipolar solution-processed CH ₃ NH ₃ PbBr ₃ perovskite phototransistors with ultra-thin Al ₂ O ₃ protective layer	Hao Yu
12:00-12:15	F2B5-A0782	Nonalloyed Cr/Au-based Ohmic contacts to n-GaAs of VCSELs	Yanling Guo

Session F2C (Shanghai Ballroom C, Power Management Circuits)

Time	S-No P-ID	Title	Presenting Author
10:45-11:15	F2C1-A0403	Bi-directional Battery-to-Battery Wireless Charging Enabled by Reconfigurable Wireless Power Transceivers	Invite talk Yan Lu
11:15-11:45	F2C2-A0950	An Algorithm for Full-Coverage Voltage-Conversion-Ratio Fibonacci-Like Charge Pump	Binjie Liu
11:45-12:00	F2C3-A0278	Multi-model Fusion Harvested Energy Prediction Method for Energy Harvesting WSN node	Xiangyu Li
12:00-12:15	F2C4-A0788	A Novel Zero Current Detector for Single-Inductor Double-Output DC-DC Converter	Jie Miao
12:00-12:15	F2C5-A0291	A Transient-Improved Dynamic-Replica LDO Regulator with Bulk Modulation	Gangfeng Ma

12:15-14:00 Lunch, 1F Golden Bay Kitchen