

ITC 2020 16th International Thin-Film Transistor Conference

第16届国际薄膜晶体管会议

March 5th-7th, 2020

Guanghua Building, Fudan University, Shanghai, China

<https://www.itc2020.cn>

2020/03/04 Registration (Lobby, Shanghai Fuxuan Hotel)			
2020/03/05 Thursday Day 1 (1/3)			
08:30 – 08:40	Opening (Room 102)		
08:40 – 10:00	Plenary Session (Room 102)		
08:40 - 09:20	Progress and issues in transparent TFTs	Hideo Hosono	Tokyo Institute of Technology, Japan
09:20 - 10:00	High performance oxide TFT for large size AMOLED display	Weiran Cao	TCL-CSOT, China
Coffee Break			
10:20 – 12:00	Session 1: Oxide TFTs (Room 103)	10:20 – 12:05	Session 2: Organic TFT Sensors (1) (Room 102)
10:20 – 10:45 Invited	Oxide devices based on semiconductors and semi-metals Aimin Song Shandong University, China	10:20 – 10:45 Invited	Flexible photosensors based on organic transistors Yunlong Guo Institute of Chemistry, CAS, China
10:45 – 11:10 Invited	Low-volt operation of IGZO TFT with an anodic Al ₂ O ₃ gate dielectric for flexible devices Mamoru Furuta Kochi University of Technology, Japan	10:45 – 11:10 Invited	Dual-gate low-voltage organic FET for pressure sensing Heisuke Sakai Kokushikan University, Japan
11:10 – 11:35 Invited	Double layer oxide transistor Lei Liao Hunan University, China	11:10 – 11:35 Invited	Impact of Aggregation of High-Mobility Semiconducting Polymers on Optoelectronic Devices Mengmeng Li Institute of Microelectronics, CAS, China
11:35 – 12:00 Invited	Low-temperature, high-performance bilayer metal oxide TFT Fukai Shang Qingdao University, China	11:35 – 11:50	Selective light monitoring based on OFET memories Xu Gao Soochow University, China
		11:50 – 12:05	Organic phototransistors for indirect particles detectors Matteo Rapisarda CNR-IMM, Italy
Lunch (Dan Yuan Restaurant)			
14:00 – 15:45	Session 3: Processing Techniques (Room 103)	14:00 – 15:45	Session 4: Device Physics and Reliability (Room 101)
14:00 – 14:25 Invited	Micro-chevron laser beam scanning for single grain Si stripe formation and its application to TFTs	14:00 – 14:25 Invited	Recent understanding of defects in amorphous oxide semiconductors

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	Wenchang Yeh Shimane University, Japan		Keisuke Ide Tokyo Institute of Technology, Japan
14:25 – 14:50 Invited	Scalable integration of silicon nanowire array for flexible TFTs in planar and three-dimensional architectures Linwei Yu Nanjing University, China	14:25 – 14:50 Invited	A unified degradation model for NBS and NBIS of a-InGaZnO TFTs Mingxiang Wang Soochow University, China
14:50 – 15:15 Invited	IGZO TFTs: from deposition process to device performance Junjun Jia Waseda University, Japan	14:50 – 15:15 Invited	Reliability of organic TFTs Luigi Mariucci CNR-IMM, Italy
15:15 – 15:30	Polymer-assisted deposition of gallium oxide for oxide electronics Wangying Xu Shenzhen University, China	15:15 – 15:30	Highly stable amorphous In-Ga-Sn-O TFT under blue light illumination stress Jiseob Lee Kyung Hee University, South Korea
15:30 – 15:45	High mobility LTPS TFT with 150 nm poly-Si by blue laser annealing Seongbok Kang Kyung Hee University, South Korea		
Coffee Break			
16:05 – 17:45	Session 5: Organic TFTs (Room 103)	16:05 – 17:45	Session 6: Oxide/Nano-material TFT Sensors (Room 101)
16:05 – 16:30 Invited	High mobility polymer semiconductors and FETs Huanli Dong Institute of Chemistry, CAS, China	16:05 – 16:30 Invited	Newly-designed high performance photosensing TFTs Hongtao Cao NIMTE, CAS, China
16:30 – 16:55 Invited	Crystalline organic heterojunctions and integrated microscale FETs Feng Zhu Changchun Institute of Applied Chemistry, CAS, China	16:30 – 16:55 Invited	Transparent thermal transducers: thin film fabricated using metal oxide thin film Yukiharu Uraoka Nara Institute of Science and Technology, Japan
16:55 – 17:20 Invited	Contact resistance issue in organic FETs Paddy Chan Hong Kong University, China	16:55 – 17:20 Invited	Carbon nanotube TFT and its application Xuelei Liang Peking University, China
17:20 – 17:45 Invited	Tuning the electrical properties of OTFT by doping Yuanyuan Hu Hunan University, China	17:20 – 17:45 Invited	Two dimensional FET sensors Dacheng Wei Fudan University, China
18:00-20:30	Poster session and reception (Shanghai Fuxuan Hotel)		

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2020/03/06 Friday Day 2 (2/3)			
08:30-10:15	Session 7: New Materials (Room 103)	08:30-10:15	Session 8: Memory and Synapse (Room 101)
08:30 - 08:55 Invited	Strategies for improving the performance of p-type metal oxide transistors Jae Kyeng Jeong Hanyang University, South Korea	08:30 - 08:55 Invited	New computing and memory architecture based on 2D materials Peng Zhou Fudan University, China
08:55 - 09:20 Invited	Wafer-scale TFT fabrication and circuit design based on 2D transition metal dichalcogenides Wenzhong Bao Fudan University, China	08:55 - 09:20 Invited	Flexible oxide-based TFTs: new structures and new-concept applications Qing Wan Nanjing University, China
09:20 - 09:45 Invited	FETs based on Two-Dimensional Perovskite Crystal Chao Jiang, National Centre for Nanoscience and Technology, CAS, China	09:20 - 09:45 Invited	Organic thin-film memtransistors Sui-Dong Wang Soochow University, China
09:45 - 10:00	Solution-processed CuI for p-type transparent electronics Myung-Gil Kim Sungkyunkwan University, South Korea	09:45 - 10:00	Light-adaptable optoelectronic metal-oxide TFT circuits for artificial visual perception system Sung Min Kwon Chung-Ang University, South Korea
10:00 - 10:15	Functional carbon quantum dots towards highly sensitive flexible graphene FETs for Cu²⁺ detection Jinhua Li Hubei University, China	10:00 - 10:15	Broadband optoelectronic synaptic devices using amorphous oxide semiconductors Lingyan Liang NIMTE, CAS, China
Coffee Break			
10:35-12:15	Session 9: Solution Processed TFTs (Room 103)	10:35-12:15	Session 10: Photo Sensor Array and Imaging (Room 101)
10:35 - 11:00 Invited	Material, process, and structure engineering for low-temperature solution-processed oxide TFTs Hyun Jae Kim Yonsei University, South Korea	10:35 - 11:00 Invited	Large-area flexible photodetector arrays using oxide transistors Gerwin Gelinck TNO/Holst Centre, Netherland
11:00 - 11:25 Invited	Inkjet-printed oxide TFT backplanes for active-matrix displays	11:00 - 11:25 Invited	Advanced pixel technology for large area imaging Kai Wang Sun Yat-sen University, China

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	Linfeng Lan South China University of Technology, China		
11:25 – 11:50 Invited	All-carbon flexible and stretchable TFTs for integration Min Zhang Shenzhen Graduate School, Peking University, China	11:25 – 11:50 Invited	Application of TFT for fingerprint-on-display Qijun Yao Tianma Microelectronics, China
11:50 – 12:15 Invited	Inkjet-printed high-performance metal oxide bilayer heterojunction TFTs and NMOS inverters Jianwen Zhao SINANO, CAS, China	11:50 – 12:15 Invited	Integration of halide perovskite with IGZO transistors for photodetection and imaging application Hang Zhou Shenzhen Graduate School, Peking University, China
12:15 – 12:30	A strategy of anion doping to improve the stability of solution-processed metal oxide TFTs Jun Li Shanghai University, China	12:15 – 12:40 Invited	Silicon Nanomembrane-Based Flexible Phototransistors for Sensing and Transient Electronics Yongfeng Mei Fudan University, China
Lunch (Dan Yuan Restaurant)			
14:30 – 17:50	Tutorials (Room 102)		
14:30 – 15:15 Invited	LTPS technology: effective crystallization for high performance Si TFTs Takashi Noguchi University of the Ryukyus, Japan		
15:15 – 16:00 Invited	Oxide TFTs for display application Jin Jang Kyung Hee University, South Korea		
Coffee Break			
16:20 – 17:05	Device physics of new material TFTs Ananth Dodabalapur University of Texas at Austin, USA		
17:05 – 17:50	TFT as self-amplifier sensor Tayeb Mohammed-Brahim University of Rennes 1, France		
18:30-20:30	Banquet (Shanghai Fuxuan Hotel)		

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2020/03/07 Saturday Day 3 (3/3)			
08:30 – 09:50	Plenary Session (Room 102)		
08:30 - 09:10	Organic and hybrid organic-inorganic FETs for applications in large area electronics	Henning Sirringhaus	University of Cambridge, UK
09:10 - 09:50	Importance of TFT technology innovation in emerging display and more than display applications	Guangcai Yuan	BOE, China
Coffee Break			
10:10 – 11:50	Session 11: New Structure and Integration (Room 103)	10:10 – 11:40	Session 12: Organic TFT Sensors (2) (Room 102)
10:10 – 10:35 Invited	Vertical Oxide TFT for the Ultra-high resolution display Sang-Hee Ko Park KAIST, South Korea	10:10 – 10:35 Invited	Flexible organic transistors for highly sensitive biosensors Feng Yan Hong Kong Polytechnic University, China
10:35 – 11:00 Invited	Integration of photo detector and QLED by vertical TFT Wei Lei Southeast University, China	10:35 – 11:00 Invited	Organic TFTs for flexible sensing applications Chong-an Di Institute of Chemistry, CAS, China
11:00 – 11:25 Invited	Source barrier engineering for optimal source-gated transistor design Radu A. Sporea University of Surrey, UK	11:00 – 11:25 Invited	Sensors based on conjugated molecules and transistors Jia Huang Tongji University, China
11:25 – 11:50 Invited	Vertical organic FET based electronic devices Huipeng Chen Fuzhou University, China	11:25 – 11:40	Low voltage organic FET miRNA sensor Wei Tang Shanghai Jiao Tong University, China
		11:40 – 11:55	Solar-blind deep UV light photodetectors based on organic transistor Longzhen Qiu Hefei University of Technology, China
Lunch			
14:00 – 16:05	Industry Session (Room 102)		
14:00 – 14:25 Invited	Trend of mobile display technologies Yojiro Matsueda Tianma Japan, Ltd.		
14:25 – 14:50	High mobility oxide TFT with good light stability		

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Invited	Lei Wang Guangzhou New Vision Optoelectronic Tech., China
14:50 – 15:15 Invited	Study on TFT properties for AMOLED display performance improvement Dongfang Zhao Visionox, China
15:15 – 15:40 Invited	High stability OTFT: organic materials and low temperature processes for low cost, large area flexible displays Paul Cain FlexEnable, UK
15:40 – 16:05 Invited	OTFTs for beyond-display applications: sensors and IoT Linrun Feng LinkZill, China
Coffee Break	
16:25 – 18:00	Industry-Academia Cooperation Meeting (invited only)
18:30-20:30	Farewell Dinner (invited only)