

Programs for ITC2018

Address: Science and Technology Cultural Exchange Center, North gate of Sun Yat-sen University
Binjiang Dong Road, Haizhu District, Guangzhou, China **Tel:** +86 (020) 89222888

Registration location:

Ground floor, SkyKaiFeng Hotel, Sun Yat-sen University

Registration time:

Feb 27th (Tues): from 5 pm to 9 pm

Feb 28th (Wed): from 8 am to 12 am; 2 pm to 6 pm

Mar 1st (Thurs): from 9 am to 12 am; 2 pm to 6 pm

Presentation time:

Keynote speak (Keyn): 30 min presentation + 5 min Q&A

Invited talks (Inv): 20 min presentation + 3 min Q&A

Contributed talks (Cont): 13 min presentation + 2 min Q&A

Room A: 2nd floor, SkyKaiFeng Hotel, south end (please refer to the notice).

Room B: 3rd floor, SkyKaiFeng Hotel, south part (please refer to the notice).

Feb 28th (Wed), Morning Session, Room A

Start	End	Presenter	Affiliation	Title
Joint Session: Opening & Keynotes (Chair: Prof. Chuan Liu)				
8:30	9:00		Sun Yat-sen University	Opening remarks
9:00	9:35	Ananth Dodabalapur (Reviewing Keyn)	University of Texas at Austin	50 Years of the Thin-Film Transistor and Some Likely Future Directions
9:35	10:10	Hideo Hosono (Keyn)	Tokyo Institute of Technology	Oxide Materials for TFTs and Current Challenge
10:10	10:45	Jin Jang (Keyn)	Kyung Hee University	Oxide TFTs for Displays and Circuits
Session A1: Charge transport in TFTs (Chair: Prof. Haoli Zhang)				
10:55	11:18	Simone Fratini (Inv)	Institut NEEL, CNRS	A map of high-mobility molecular semiconductors
11:18	11:41	Ling Li (Inv)	Academy of Sciences	Seebeck Coefficient Model Based on Hopping Transport
11:41	11:56	Yongjeong Lee (Cont)	Université Paris-Saclay	Physically based contact resistance modeling for coplanar organic field-effect transistors.
11:56	12:11	Chuan Liu (Cont)	Sun Yat-sen University	Transport in disordered OTFTs

Feb 28th (Wed), Morning Session, Room B

Start	End	Presenter	Affiliation	Title
Joint Session: Opening & Keynotes				
8:30	10:45	Go to Room A		
Session B1: Oxide TFTs - Solution process (Chair: Prof. Sang-Hee Ko Park)				
10:55	11:18	Thomas Anthopoulos (Inv)	King Abdullah University of Science and Technology (KAUST)	Solution-processed superlattice-like metal oxide transistors
11:18	11:41	Myung-Gil Kim (Inv)	Chung-Ang University	Solution Processing of High-Performance and Scalable Metal-Chalcogenide Semiconductors
11:41	12:04	Elvira Fortunato (Inv)	FCT-UNL, Portugal	Developments in solution processed low temperature oxide electronics
12:04	12:19	Wangying Xu (Cont)	Shenzhen University	Metal Oxide Thin-Film Transistors from Aqueous Solution

Feb 28th (Wed), Afternoon session, Room A

Start	End	Presenter	Affiliation	Title
Session A2: Organic TFTs - New materials (Chair: Prof. Xugang Guo)				
1:50	2:13	Yanhou Geng (Inv)	Tianjin University	Organic semiconductors for high mobility organic thin-film transistors
2:13	2:36	Haoli Zhang (Inv)	Lanzhou University	Design N-heteroacenes for Ambipolar Organic Thin Film Transistors
2:36	2:51	Guo Han (Cont)	Southern University of Science and Technology	Bithiophene Imide-Based n-Type Polymer Semiconductors for High-Performance Unipolar Organic Thin-Film Transistors
2:51	3:06	Xianhe Zhang (Cont)	Southern University of Science and Technology	Dithienylbenzodiimide: a New Electron-Deficient Unit for Efficient N-type Organic Field-Effect Transistors
3:06	3:21	Yunfeng Deng (Cont)	Tianjin University	Synthesis of quinoid-type compound thiophene-S, S-dioxidized indophenine (IDTO) with single isomer for constructing unipolar n-type conjugated polymer
Session A3: Low power TFTs (Chair: Prof. Hanying Li)				
3:45	4:08	Arokia Nathan (Inv)	Cambridge University	Low-Power Thin-Film Transistors
4:08	4:31	Sungjune Jung (Inv)	Pohang University of Science and Technology	3D integration of printed organic transistors and circuits
4:31	4:46	Xubing Lu (Cont)	South China Normal University	Solution Processable High-K Dielectric Films for Low Voltage Operation of Flexible Organic Thin Film Transistors
4:46	5:09	Gerwin Gelink (Inv)	Holst Center, Netherlands	Atmospheric spatial-ALD of high mobility and low voltage amorphous metal oxide thin film transistors
5:09	5:32	Jin-Seong Park (Inv)	Hanyang University	Recent Strategies of Atomic Layer Deposited Metal-Oxide Semiconductor Thin Film and the Associated Device Application

Feb 28th (Wed), Afternoon session, Room B

Start	End	Presenter	Affiliation	Title
Session B2: Oxide TFTs for Displays (Chair: Prof. Thomas Anthopoulos)				
1:50	2:13	Janglin Chen (inv)	Industrial Technology Research Institute	Technology Advances in Foldable AMOLED Displays
2:13	2:36	Hyun Sik Seo (Inv)	Shenzhen China Star Optoelectronics Technology Co., Ltd	a-IGZO TFT Development for BCE LCDs and Self-Aligned Coplanar OLEDs
2:36	2:51	Yuanfeng Chen(Cont)	Kyung Hee University	Robust and High-Speed Gate Driver using Double-Gated Coplanar a-IGZO TFTs
2:51	3:06	Jiseob Lee(Cont)	Kyung Hee University	Stable Self-Aligned Coplanar a-IGZO TFTs at High Temperature
3:06	3:29	Yen-Yu Huang (Inv)	Advanced Technology Center of Chunghwa Picture Tubes	5.5 inch FFS LCD driven by soluble -metal-oxide and implementation in production line through BCE TFT architecture
Session B3: Oxide TFTs - Fabrications & Reliability (Chair: Prof. Hideya Kumomi)				
3:45	4:08	Sang-Hee Ko Park(Inv)	Korea Advanced Institute of Science and Technology	Control of Carrier Density and Defects in High Mobility Oxide TFT
4:08	4:31	Toshio Kamiya (Inv)	Tokyo Institute of Technology	In-depth analyses of near valence maximum states in amorphous oxide semiconductors
4:31	4:46	Yuzheng Guo (Cont)	Swansea University	Hydrogen and the Light-Induced Bias Instability Mechanism in Amorphous Oxide Semiconductors
4:46	5:09	Linfeng Lan (Inv)	South China University of Technology	Inject-printed oxide TFTs for low-cost AMOLEDs
5:09	5:32	Qun Zhang (Inv)	Fudan University	Investigation on Electrical Stability of the a-IGZO Thin-film Transistors

Mar 1st (Thurs), Morning Session, Room A

Start	End	Presenter	Affiliation	Title
Joint Session: Keynotes & Introduction to ITC2019 (Chair: Prof. Chuan Liu)				
8:30	9:05	Deji Akinwande (Keyn)	University of Texas at Austin	Flexible and Wearable 2D Electronics
9:05	9:25	Takashi Noguchi	University of the Ryukyus	Introduction to next ITC2019 in Okinawa, Japan
Session A4: Flexible TFTs and Applications I (Chair: Prof. Kangjun Baeg)				
9:30	9:53	Chong-an Di (Inv)	Chinese Academy of Sciences	Construction of Organic Thin-film Transistors for Flexible Electronic Applications
9:53	10:08	Sui-Dong Wang (Cont)	Soochow University	Organic nonvolatile memory based on organic thin-film transistors
10:08	10:31	Yongtaek Hong (Inv)	Seoul University	Flexible and Transparent Printed Thin-Film Transistors
Session A5: TFTs for Circuits (Chair: Prof. Ling Li)				
10:50	11:13	Mario Caironi (Inv)	Istituto Italiano di Tecnologia	Printed Polymer Transistors for Low-Voltage Digital Circuits and for High-Frequency Applications
11:13	11:36	Kangjun Baeg (Inv)	Pukyong National University	Molecular Additives in Conjugated Polymer Thin-Films for High Performance Organic and Printed Electronic Circuits
11:36	11:59	Rodrigo Martins (Inv)	Universidade Nova de Lisboa, Portugal	Papertronics: Turn Imagination Reality
11:59	12:14	Yunpeng Li (Cont)	Shandong University	Complementary Integrated Circuits Based on p-type SnO and n-type IGZO Thin-Film Transistors
Committee Session: Committee Lunch from 12:30 to 13:30				

Mar 1st (Thurs), Morning Session, Room B

Start	End	Presenter	Affiliation	Title
Joint Session: Keynotes & Introduction to ITC2019				
8:30	9:25	Go to Room A		
Session B4: Silicon TFTs – Crystallizations (Chair: Prof. Linwei Yu)				
9:30	9:53	Takashi Noguchi (Inv)	University of the Ryukyus	Poly-Crystallization of Semiconductor Thin-Films for Functional TFT System on Panel
9:53	10:16	Hideya Kumomi (Inv)	Tokyo Institute of Technology	Retrospective review to revival of kinetics and location-control of crystallite nucleation in polycrystalline silicon thin films
10:16	10:31	Ryutatsu Mizukami (Cont)	Hiroshima University	Single Crystalline Silicon CMOS Circuit Fabrication on Polyethylene Terephthalate Substrate by Meniscus Force Mediated Layer Transfer Technique
Session B5: Silicon & Oxide TFTs - Flexible devices (Chair: Prof. Takashi Noguchi)				
10:50	11:13	Linwei Yu (Inv)	Nanjing University	In-plane droplet scanning production of programmable silicon nanowire channels for high performance fin-TFTs
11:13	11:36	Seiichiro Higashi (Inv)	Seiichiro Higashi, Hiroshima University	Nitrogen-boosted Atmospheric Pressure Thermal-Plasma-Jet Generation and Its Application to Crystallization of Amorphous Silicon Films on Flexible Glass
11:36	11:59	Mamoru Furuta (Inv)	Kochi University of Technology	Schottky properties in metal-oxide-hetero-interface of AgOx/InGaZnOx and its application to low-temperature-processed MES-FET
11:59	12:14	Tatsuya Okada (Cont)	University of the Ryukyus	Thermal Analysis of Si Films on Polyimide Sheet during ELA
Committee Session: Committee Lunch from 12:30 to 13:30				

Mar 1st (Thurs), Afternoon session, Room A

Start	End	Presenter	Affiliation	Title
Joint Session: Keynotes (Chair: Prof. Yong-Young Noh)				
1:45	2:20	Kilwon Cho (Keyn)	Pohang University of Science and Technology	Molecular Structure Dependent Bias Stress Stability in Organic Thin-Film Transistors
Session A6: Flexible TFTs and Applications II (Chair: Prof. Chongan Di)				
2:25	2:48	Jun Takeya (Inv)	University of Tokyo	Charge and spin dynamics in high-mobility organic transistors
2:48	3:03	Hsinfei Meng (Cont)	National Chiao Tung University	Vertical space-charge-limited transistor
3:03	3:26	MunPyo Hong (inv)	Korea University	Low temperature (under 150°C) processed, high performance oxide TFT technologies, with applications to stretchable AMOLED
Poster Session (Common Area)				
3:26	4:10	Common Area for Posters		
Session A7: TFTs for sensors & detectors (Chair: Prof. Myung-Gil Kim)				
4:10	4:33	Hyun Jae Kim (Inv)	Yonsei University	Various approaches of oxide phototransistors for visible light sensing
4:33	4:48	Kai Wang (Cont)	Sun Yat-sen University	Field-Coupled Thin-Film Transistors for IOTs
4:48	5:03	K. Charith Jayanada (Cont)	University of the Ryukyus	Electron Hall Mobility of Ne and Ar Sputtered InSb films for Advanced Sensor Applications on Glass
5:03	5:26	Hsiaowen Zan (Inv)	National Chiao Tung University	Organic Semiconductor Devices as Gas Sensor and Proximity Sensor
5:26	5:41	Lingyan Liang(Cont)	Chinese Academy of Sciences	Design and application of zinc tin nitride/oxyntiride semiconductor in thin-film phototransistors

Mar 1st (Thurs), Afternoon session, Room B

Start	End	Presenter	Affiliation	Title
Joint Session: Keynotes				
1:45	2:20	Go to Room A		
Session B6: Device structures (Chair: Prof. Arokia Nathan)				
2:25	2:48	Radu A.Sporea (Inv)	University of Surrey	Increased current uniformity by exploiting TFT contact effects
2:48	3:03	Ahmed Rasheed (Cont)	Sun Yat-sen University	Self-Powered and Self-Driven Heart Rate Sensor Based on Mechanical-Field-Coupled Thin-Film Transistor
3:03	3:18	Qian Xin (Cont)	Shandong University	Barrier Height Inhomogeneities in Source-Gated Thin-Film Transistors
Poster Session (Common Area)				
3:18	4:10	Common Area for Posters		
Session B7: Oxide TFTs – Advanced Materials (Chair: Prof. Seiichiro Higashi)				
4:10	4:33	Lei Liao (Inv)	Hunan University	Understand the Role of Hydrogen doping ZnO-based Thin Film Transistors
4:33	4:48	Jiawei Zhang (Cont)	University of Manchester	Low-temperature characteristics of <i>p</i> -SnO TFTs
4:48	5:11	Fukai Shan (Inv)	Qingdao University	Oxide electronics via fibers-to-film process
5:11	5:34	Potsun Liu (Inv)	National Chiao Tung University	Ultra-thin Indium Tungsten Oxide Film Transistors
5:34	5:57	Lei Lu (Inv)	Hong Kong University of Science and Technology	A Study on Self-Aligned Bottom-Gate Elevated-Metal Metal-Oxide Thin-Film Transistors

Mar 2nd (Fri), Morning Session, Room A

Start	End	Presenter	Affiliation	Title
Session A8: Organic TFTs - Crystals and transport (Chair: Prof. Yanhou Geng)				
8:30	8:53	Yong-Young Noh (Inv)	Dongguk University	High performance polymer transistors by controlling charge carrier density
8:53	9:16	Hanying Li (Inv)	Zhejiang University	Electron transport in OFETs based on organic single crystals: effect of hydroxyl groups and solvent residues
9:16	9:39	Qingxin Tang (Inv)	Northeast Normal University	Conformal transistor arrays based on solution-processed organic crystals
9:39	9:54	Yun Li (Cont)	Nanjing University	Solution-processed 2D molecular crystals for transistor applications
Joint Session: Keynotes and Closing (Chair: Prof. Chuan Liu)				
10:10	10:45	Yunqi Liu (Keyn)	Chinese Academy of Science	High-performance thin-film transistors made of polymer semiconductors
10:45	11:20	Henning Sirringhaus (Keyn)	University of Cambridge	Charge transport and device physics of high mobility organic field-effect transistors
11:20	11:45	Closing Remarks & Awards		

Mar 2nd (Fri), Morning Session, Room B

Start	End	Presenter	Affiliation	Title
Session B8: TFTs with Low-dimensional materials (Chair: Prof. Hyun Jae Kim)				
8:30	8:53	Taishi Takenobu (Inv)	Nagoya University	Functional devices of transition metal dichalcogenide monolayers
8:53	9:08	Nianduan Lu (Cont)	Institute of Micro-Electronics of the Chinese Academy of Sciences	Carrier thermoelectric transport in black phosphorus Thin-Film transistors
9:08	9:23	Jun Qian (Cont)	Nanjing University	Unveiling the piezoelectric nature of polar α -phase P(VDF-TrFE) at quasi-two-dimensional limit
9:23	9:38	Feng Zhuang (Cont)	Jinan University	A Physics-Based Drain Current Model for Graphene Field-Effect Transistors
Joint Session: Keynotes and Closing				
10:10	11:45	Go to Room A		

Poster Session (Mar 1st, Thursday afternoon)

No. 01

Photoluminescence study on amorphous In-Ga-Zn-O thin films

Junchen Dong¹, Huijin Li¹, Wen Yu², Zhen Luo¹, Yi Liang¹, Shengdong Zhang², Xing Zhang¹, Dedong Han^{1*}, and Yi Wang^{1*}

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No. 02

Characteristics of ZnO Thin Film Transistors Deposited by Atomic Layer Deposition

Huijin Li¹, Junchen Dong¹, Wen Yu², Zhuang Yi¹, Zhen Luo¹, Yi Liang¹, Shengdong Zhang², Xing Zhang¹, Dedong Han^{1*}, and Yi Wang^{1*}

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No. 03

An Analytical Seebeck Coefficient Model for Organic Semiconductors

Xuewen Shi¹, Ling Li²

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No. 04

2,1,3-Benzothiadiazole-5,6-Dicarboxylicimide-Based Polymer Semiconductors for Organic Thin-Film Transistors

Jianwei Yu,^{†,‡} Joshua Loroña Ornelas,[†] Yumin Tang,[†] Shiming Zhang,[‡] Xugang Guo[†]

[†] Dept. of Materials Science and Engineering, Southern University of Science and Technology, China

[‡] Institute of Advanced Materials (IAM), Nanjing Tech University, China

No. 05

Study on Electrolyte-gating WO₃ transistors

Bing Yu^{1,2}, Ruihui He¹, Zhi Luo², Weiguang Xie¹

¹Siyuan Laboratory, Guangzhou Key Laboratory of Vacuum Coating Technologies and New Energy Materials, Department of Physics and Department of Electronic Engineering, Jinan University, China

²Department of Electronic Engineering, Jinan University, China

No. 06

Gate-modulated graphene ballistic nano-rectifier

Jiawei Zhang¹, Gregory Auton², Aimin Song¹

¹ School of Electrical and Electronic Engineering, University of Manchester, Manchester, UK

² Manchester Centre for Mesoscience and Nanotechnology, University of Manchester, Manchester, UK

No. 07

Low-Voltage Thin-Film Transistors Based on Sputtered Electric Double Layer

Wensi Cai, Jiawei Zhang, Joshua Wilson, Xiaochen Ma and Aimin Song

School of Electrical and Electronic Engineering, University of Manchester, Manchester, UK

No. 08

Effect of mechanical strain for LTPS TFTs on PI substrate

Younghun Jung, Suhui Lee, Seungpyo Hong, and Jin Jang

Advanced Display Research Center, Department of Information Display, Kyung Hee University, Seoul, South Korea

No. 09

Enzyme-modified surface of Schottky-gated IGZO TFT for glucose sensing

Jakub Kaczmarek, Michał Borysiewicz, Eliana Kamińska

Institute of Electron Technology, Poland

No. 10

Stretchable oxide TFT on PDMS using the rigid island structures

Chanju Park, Suhui Lee, and Jin Jang

Advanced Display Research Center, Dept. of Information Display, Kyunghee University, Korea

No. 11

Solution-Processed Organic Thin-Film Transistor Arrays with the Assistance of Laser Ablation

Huihuang Yang, Huipeng Chen

Institute of Optoelectronic Display, National & Local United Engineering Lab of Flat Panel Display Technology, University of Fuzhou, China

No. 12

Controllable Growth of C8-BTBT Single Crystalline Microribbon Arrays by Limited Solvent Vapor-Assisted Crystallization (LSVC) Method

Longfeng Jiang^{1,2}, Jie Liu², Lang Jiang², Junsheng Yu¹, Wenping Hu³

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No. 13

The influence of Si-H bonds in The SiNx passivation layer on The Negative Gate Bias Stress of Back-Channel-Etch

Amorphous InGaZnO Thin-Film Transistors

GongTan Li, Wei Wu, ShiMin Ge, Shan Li

Shenzhen China Star Optoelectronics Technology Co., Ltd, China

No. 14

Characterization of p-channel TFTs with (100)-oriented poly-Si thin film formed by multiline beam continuous-wave laser lateral crystallization

Thi Thuy Nguyen¹ and Shin-Ichiro Kuroki

Research Institute for Nanodevice and Bio Systems, Hiroshima Univ, Japan

No. 15

Improvement of contact resistance for flexible a-IGZO based thin-film transistors by plasma treatment

Stefan Knobelspies, Alain Takabayashi, Alwin Daus, Giuseppe Cantarella and Gerhard Tröster

Electronics Laboratory, Swiss Federal Institute of Technology Zurich (ETH Zurich), Switzerland

No. 16

Organolead halide perovskite phototransistors with inserting ultra-thin Al₂O₃ protective layer

Hao Yu, Renzheng Qiu, Xiaote Xu, Wen Luo, Hang Zhou*

Shenzhen Key Lab of Thin Film Transistor and Advanced Display, Peking University Shenzhen Graduate School

No. 17

Comparative study of metal-oxide precursor conversion applied for metal-oxide thin-film transistors

Ersoy Subaş¹, Maren Kasischke², Duy-Vu Pham³, Shizhou Xiao⁴, Keming Du⁴, Claudia Bock⁵, Andreas Ostendor², Ulrich Kunze¹

¹Electronic Materials and Nanoelectronics, Ruhr-University Bochum, Germany

²Applied Laser Technologies, Ruhr-University Bochum, Germany

³Electronic Solutions, Evonik Resource Efficiency GmbH, Germany

⁴EdgeWave GmbH, Germany

⁵Microsystems Technology, Ruhr-University Bochum, Germany

No. 18

Highly asymmetric transfer characteristics in thin-film transistors with a staggered and a coplanar contact combined in one device

Martin Ellinger¹, Michael P. M. Jank², and Lothar Frey^{1,2}

¹Dept. of Electrical Engineering, University of Erlangen-Nuremberg, Germany

²Fraunhofer Institute for Integrated Systems and Device Technology, Germany

No. 19

Boosting metal-oxide nanofiber electronics via capillary-driven welding process and grain-boundary modulation

You Meng^{1,2}, Fukai Shan^{1,2*}

¹College of Physics, Qingdao University, China

²College of Electronic & Information Engineering, Qingdao University, China

No. 20

Flexible Nonvolatile Transistor Memory Devices Based on Organic Polymer-Electret Memory Devices

Huixin He, Xubing Lu

Institute for Advanced Materials and Guangdong Provincial Laboratory of Quantum Engineering and Quantum Materials, South China Normal University, China

No. 21

High mobility solution-processed C8-BTBT organic thin-film transistors via UV-ozone interface modification

Jiaying Mai, Weiwei Yao, Xubing Lu

Institute for Advanced Materials, Guangdong Provincial Key Laboratory of Quantum Engineering and Materials, South China Normal University, China

No. 22

Lateral Transport of Minority Carrier on Charge Trapping Properties of Organic Polymer-Electret Memory Devices

Wenchao Xu, Huixin He, Xubing Lu

Institute for Advanced Materials and Guangdong Provincial Laboratory of Quantum Engineering and Quantum Materials, South China Normal University, China

No. 23

Speed up Ferroelectric Organic Transistor Memories by Using Two-Dimensional Molecular Crystalline Semiconductors

Lei Song¹, Yun Li,²

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No. 24

Low leakage current IGZO-based Schottky-barrier thin-film transistors with low thermal budget

Quantan Wu^{1,2}, Xuwen Shi^{1,2}, Congyan Lu^{1,2}, Ling Li^{1,2*} and Ming Liu^{1,2*}

¹Institute of Microelectronics of Chinese Academy of Sciences, China

²University of Chinese Academy of Sciences, China

No. 25

Directly writing 2D organic semiconducting crystals for high-performance field-effect transistors

Yujia Zhang, Yu Guo, Xiaomu Wang*, and Yun Li*

National Laboratory of Solid State Microstructures, School of Electronic Science and Engineering, Collaborative Innovation Center of Advanced Microstructures, Nanjing University, China.

No. 26

Flexible Tactile Sensor Based on Mechanical-Field-Coupled TFTs

Weiwei Li¹, Xiao Feng^{1,2}, Ahmed Rasheed¹, Emad Iranmanesh¹, and Kai Wang^{1,2,3*}, Member, IEEE

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No. 27

Design and Simulation of Fingerprint Sensor Integrated AMLCD Array Based on Amorphous Silicon Thin-Film Transistors

Yitong Xu¹, Kai Wang^{1,2}

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² School of Electronics and Information Technology, Sun Yat-sen University, Guangzhou, People's Republic of China

No. 28

Vertically Integrated Active Pixel Sensor with Photoconductive Gain > 1000% and Fill Factor > 70%

Xianda Zhou⁺¹, Meng Zhang⁺², Yitong Xu¹, Wei Zhou², Kai Wang^{*1}, Arokia Nathan^{*3}, Man Wong^{*2}, Hoi Sing Kwok², Hai Ou¹, Jun Chen¹, Shaozhi Deng¹, and Ningsheng Xu¹

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No. 29

Integrating Poly-silicon and InGaZnO (LTPO) TFTs for Inverters towards CMOS applications

Chang-Dong Chen¹, Xing-Yu Zhou², Yuan-Jun Hsu², Yuan-Chun Wu², Po-Yen Lu², Bo-Ru Yang¹, Han-Ping D. Shieh³ and Chuan Liu^{1*}

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No. 30

Unified Understanding of Charge Transport in Organic Semiconductors

Kairong Huang, Chuan Liu^{*}

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No. 31

Low voltage solution-processed thin film transistors with high-k gate dielectric

Qiutan Ke, Qian Wu, Minmin Li, Kairong Huang, Jiwen Zheng, Fuhua Dai, and Chuan Liu*

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No. 32

Precise patterning of Solution-processed Indium Zinc Oxide Thin Film Transistors with high performance and its applications

Minmin Li, Chuan Liu

State Key Lab of Opto-Electronic Materials & Technologies, Guangdong Province Key Lab of Display Material and Technology, School of Electronics and Information Technology, Sun Yat-Sen University, China

No. 33

Extraction method of trap densities for indium zinc oxide thin-film transistors processed by solution method

Xiaoci Liang, Lei Qiang, Yanli Pei, Ruohe Yao, Gang Wang

School of Electronic and Information Technology, Sun Yat-sen University, China

No. 34

Electrolyte-gated In₂O₃ dual-gate thin film transistor driven by low voltage for visible-blind UV detection

Gauangshuo Cai, Gang Wang, Yanli Pei

School of Electronic and Information Technology, Sun Yat-sen University, China

