

2016 EMN Beijing Meeting

April 21 – 25, 2016 Xijiao Hotel, Beijing, China

April 21	
14:30 –17:30	On-site Registration

April 22		
	General I	Session Chair: S. Maikap
8:30-8:55	Michel Planat Institut FEMTO-ST, France	Symmetry and contextuality of quantum information
8:55-9:20	Mingfei Shao Beijing University of Chemical Technology, China	Layered double hydroxides-based materials for electrochemical energy storage and conversion
9:20-9:45	Pierre Ruterana CIMAP UMR 6252, France	The structure of InGaN/GaN heterostructure for emission in the visible
9:45-10:10	Guijun Hu Jilin University, China	Few mode FBG and its application for MDM system
10:10-10:30	Session break	
	General II	Session Chair: Mingfei Shao
10:30-10:55	S. Maikap Chang Gung University, Taiwan	Resistive switching memory for new applications
10:55-11:20	Paulo Acioli Northeastern Illinois University, USA	Exciton Mobility in Organic Photovoltaic Materials
11:20-11:45	I-Shyan Hwang Yuan Ze University, Taiwan	SIEPON Based ONU-Initiated TRx Energy-Efficiency Mechanism in EPON
12:10-14:05	Lunch	
	Optoelectronic Materials and Devices I	Session Chair: Kei Hayashi
14:05-14:30	Namjung Kim Korea Military Academy, South Korea	Graphene as a robust, flexible support for optoelectronic devices
14:30-14:55	Takahiro Numai Ritsumeikan University, Japan	Resonance-Shifted DFB-LD for High E/O Conversion Efficiency and Stable Single Longitudinal Mode Operation

14:55-15:20	DeGui Sun University of Ottawa, Canada	A Strategy to Remove the Critic Obstacles from the Road to the Large-Scale Optical Integrated Devices on Silica-PLC Platform: Realization of Low-Loss Signal Sharp-Turning
15:20-15:45	Shigeru Mieda Tohoku University, Japan	Ultra-high-speed semiconductor light source for next-generation optical communication system
15:45-16:10	Tetsuya Mizumoto Tokyo Institute of Technology, Japan	Photonic devices fabricated by direct bonding of magneto-optical garnet
16:10-16:30	Session break	
	Semiconductor Devices I Session Chair: Tetsuya Mizumoto	
16:30-16:55	Jiangwei Liu National Institute for Materials Science (NIMS), Japan	Semiconductor diamond metal-insulator-semiconductor field-effect transistors
16:55-17:20	Kei Hayashi Tohoku University, Japan	Effects of interstitial Mg and secondary phases on thermoelectric properties of Mg ₂ Si
17:20-17:45	Olivier Latry Université de Rouen, France	Physical Schottky parameters extraction using the Lambert function in AlGaIn/GaN HEMT devices with defined conduction phenomena

April 23		
	Optical Fibers I Session Chair: Kazushi Miki	
8:30-8:55	Leszek R. Jaroszewicz Military University of Technology, Poland	Recording of Rotational Events by Fibre-Optic Systems
8:55-9:20	Huilian Ma Zhejiang University, China	Recent Advances in Resonant fiber Optic Gyroscopes
9:20-9:45	Qiang Wu Northumbria University, UK	Tapered optical fibre interferometer sensor
9:45-10:10	Junhe Zhou Tongji University, China	Super-modes for multi-core fibers
10:10-10:30	Session break	
	Nanomaterials for Electrocatalysis and Photoelectrocatalysis Session Chair: Junhe Zhou	

10:30-10:55	Kazushi Miki National Institute for Materials Science , Japan	A Visible Light-driven Plasmonic Catalysys
10:55-11:20	David Kisailus University of California at Riverside, USA	Solution-based Bio-inspired Growth of Photocatalytically Active Nanoporous Membranes and Oriented Nanowires for Water Purification and Splitting
12:10-14:30	Lunch	
Semiconductor Devices II Session Chair: Junhe Zhou		
14:30-14:55	Pey Kin Leong Singapore University of Technology and Design, Singapore	Real time observation of switching mechanisms in MIS devices by TEM/EELS
14:55-15:20	Mohamed Alsharef Ilmenau University of Technology, Germany	Tri-gate GaN HEMTs: Design and Investigations
15:20-16:20	Poster & Discussion Session	

April 24

Optical Fibers II Session Chair: Alex ShklyaeV		
8:30-8:55	João da Silva Pereira Instituto Politécnico de Leiria, Portugal	Tunable Super-Structured Fibre Bragg Gratings with Perfect Sequences
8:55-9:20	Xuewen Shu Huazhong University of Science and Technology, China	Optical fiber gratings written with femtosecond lasers
9:20-9:45	Toshimasa Umezawa NICT, Japan	High speed photonics device technologies for optical fiber communication and radio over fiber networks
9:45-10:10	Luca Belsito Institute of Microelectronics and Microsystems, CNR, Bologna, Italy	Fiber-optic ultrasonic probes based on Micro-Opto-Mechanical technology for applications in biological tissue analysis and acoustic microscopy
10:10-10:30	Session break	
General III Session Chair: João da Silva Pereira		
10:30-10:55	Alexander A. ShklyaeV Rzhanov Institute of Semiconductor Physics, Novosibirsk, Russia	High-temperature structures of Ge on Si and their properties
10:55-11:20	Pham Tien Dat NICT, Japan	Broadband access and mobile backhaul/fronthaul networks: the needs for new technologies and standards

11:20-11:45	Koshi Takenaka Nagoya University, Japan	Magnetovolume Effects and Negative Thermal Expansion of Antiperovskite Manganese Nitrides
11:45-12:10	Khalid Bouziane International University of Rabat, Morocco	Magnetic features and Invar effect in Fe-based alloys : Case of fcc-FeCu system
12: 10-14:30	Lunch	
	Optoelectronic Materials and Devices II Session Chair: Pierre Ruterana	
14:05 - 14:30	Tetsuhiko Miyadera AIST, Japan	Crystallization control and analysis of organolead halide perovskite
14:30-14:55	Dai Xing Universite Paris-Sud XI, France	Flexible Light Emitters based on Nitride Nanowires
14:55-15:20	Abd Rashid Bin Mohd Yusoff Kyung Hee University, South Korea	Novel hole transport material for high performance perovskite solar cells
15:20-15:45	Yuen Hong Tsang The Hong Kong Polytechnic University, Hong Kong	Novel materials based saturable absorber used for mode locking ultrafast laser pulses generation
15:45-16:10	Maojun Zheng Shanghai Jiaotong University, China	The Preparation of Nano-Structural Metal Oxide (α -Fe ₂ O ₃ , ZnO) and Their Photoelectrochemical Performance
16:10-16:30	Session break	
	General IV Session Chair: Pierre Ruterana	
16:30-16:55	Zhenyu Sun Beijing University of Chemical Technology, China	Carbon materials – Dispersion, composite formation and potential applications
16:55-17:20	Jian Wang Huazhong University of Science and Technology, China	Recent Progress in Chip-Scale High-Base Photonic Arithmetic Functions
17:20-17:45	Hassanain Al-Taïy IHF-TU Braunschweig, Germany	Utilization of Polarization Pulling Assisted Stimulated Brillouin Scattering for Frequency Comb Applications

Poster Session		
15:20 – 16:20 pm, April 23		
P1	Feifei Zhang Jilin University, China	Determination of Cu, Ga, In, Se and the Ratio of Cu, Ga, In, Se in CuIn _x Ga (1-x) Se ₂ Thin Film Solar Cells on flexible Ti foil by ICP-OES
P2	Ke Wen Huazhong University of Science & Technology, China	A novel polarization independent single-photodiode coherent receiver technique

P3	Kejun Yang Huazhong University of Science & Technology, China	Optimization of Reflective Semiconductor Optical Amplifier for Data Re-modulation Using Genetic Algorithm
P4	Xie Chao Huazhong University of Science & Technology, China	A novel single-photon detector based on capacitance-balancing technique
P5	Xin Jin Huazhong University of Science & Technology, China	Apodized fully-etched grating couplers using sub-wavelength structures for standard silicon-on-insulator waveguides
P6	Yan Zhang China University of Petroleum, Qingdao, China	Enhanced capacitive performance of N-doped active carbon from petroleum coke by combining ammoxidation with KOH activation