

Program for EMN Singapore Meeting 2018		
Monday January 15(14:00-17:00) On-site Registration		
Tuesday January 16 Orchid Room		
09:20-09:25	Opening ceremony	
Session: PV I Chair: Fernando Langa		
09:25-09:50	A01: High-performance hybrid photovoltaic modules using self-assembled Si nanowire arrays	Sylvain G. Cloutier Ecole de Technologie Sup'erieure, Canada
09:50-10:15	A02: Wearable solar thermoelectric generator driven by unprecedentedly high temperature difference	Kyoung-Jin CHOI UNIST, Korea
10:15-10:45	Session Break	
Session: PV II Chair: Sylvain G. Cloutier		
10:45 -11:10	A03: Application of surface-activated bonding technologies for III-V-on-Si hybrid multijunction cells	Naoteru Shigekawa Osaka City University, Japan
11:10-11:35	A04: Tailoring porphyrins for highly efficient (>9%) BHJ solar cells	Fernando Langa Universidad de Castilla-La Mancha, Spain
11:35-12:00	A05: Applications of Expanded Porphyrins as Sensitizers and Hole Transporting Materials	Chen-Hsiung Hung Academia Sinica, Taiwan
12:00	Lunch Break	
Session: PV III Chair: Yutaka Ohno		
14:00-14:25	A06: Electric Energy System using Solar Cells with Hydrogen Storage	Katsushi Fujii RIKEN Center for Advanced Photonics, Japan
14:25 -14:50	A07: High performance isoindigo-quarterthiophene copolymer OPV without thermal annealing and solvent additive	Chin-Ti Chen Institute of Chemistry, Academia Sinica, Taiwan
14:50 -15:15	A08: A comparative study of ligands in Cu ₂ ZnSn(S,Se) ₄ solar cells prepared from nanoparticle inks	Guillaume Zoppi Northumbria University, UK
15:15-16:10	Session Break	
Session: PV IV Chair: Chin-Ti Chen		
16:10-16:35	A09: Structural properties of low-resistance Si/GaAs heterointerfaces fabricated by surface-activated bonding at room temperature	Yutaka Ohno Tohoku University, Japan
16:35-17:00	A10: Dye-sensitized solar cells with improved stability: Carbon hybrid counter electrode and gel electrolyte	Sung Chul Hong Sejong University, South Korea
17:30	Dinner Social	

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**Wednesday January 17
Orchid Room**

Session: PV V Chair:: Jai Singh

09:00-09:25	A11: Progress and Potentiality on TMO / c-Si based PV device	Z.Q.Ma Shanghai University, China
09:25-09:50	A12: Efficient photon recycling and radiation trapping in cesium lead halide perovskite microwire waveguides	Anton V Malko The University of Texas at Dallas, USA
09:50-10:15	A13: Single component OPV device based on oligothiophene-fullerene conjugate	Han Young Woo Korea University, South Korea
10:15-10:45	Session Break	
Session: PV VI Chair: Z.Q.Ma		
10:45 -11:10	A14: From Excitons to charge carrier generation in bulk hetero junction organic solar cells	Jai Singh CHARLES DARWIN UNIVERSITY, Australia
11:10-11:35	A15: Photovoltaic cell for remote laser power transmission	Yong Tak Lee Gwangju Institute of Science and Technology, Korea
11:35-12:00	A16: Underwater Optical Wireless Sensor Network Using Visible-Light Communications	Xin Lin NAKATEN and Nakagawa Laboratories, Inc, Japan
12:00	Lunch Break	

Program for EMN Singapore Meeting 2018		
Wednesday January 17		
Orchid Room		
Session: Superconductivity I Chair: Cheng Zeng		
14:00-14:25	A17: Measurement of surface resistance for high temperature superconducting thin film based on calibration	Cheng Zeng University of Electronic Science and Technology of China, China
14:25 -14:50	A18: Analysis of Macroscopic Electromagnetic Response on a Twisted Superconducting Strip in Constantly Ramping Magnetic Fields	Yoichi Higashi National Institute of Advanced Industrial Science and Technology (AIST), Japan
14:50 -15:15	A19: Superconducting Magnet and RF Technology for Future Particle Accelerator and Physics	Akira Yamamoto High Energy Accelerator Research Organization (KEK), Japan
15:15 -15:40	A20: SQUID Coupled superconductive resonators for quantum simulation at single-photon strong coupling regime	Shirong Bu University of Electronic Science and Technology of China, China
15:40-16:10	Poster Session	
Session: PV VII Chair: Anton V Malko		
16:10-16:35	A21: Electric Field Effects on the Infrared Spectra of 2D and 3D Organic–Inorganic Hybrid Perovskites	Shinsuke Shigeto Kwansei Gakuin University, Japan
16:35-17:00	A22: Pave the way to improve the Si-solar cells efficiencies based on down-conversion effect	Christophe Labbé CIMAP CNRS/CEA/ENSICAEN/Unicaen, France
17:00-17:25	A23: Growth of AlN bulk crystals in Ta crucibles by PVT	Lili Zhao Harbin Institute of Technology, China
17:30	Dinner Social	

Program for EMN Singapore Meeting 2018		
Thursday January 18 Orchid Room		
Session: PV VIII Chair: Weining Wang		
09:00-09:25	A24: Transparent and flexible electrodes prepared by ion plating for flexible perovskite solar cells	Han-Ki Kim Kyung Hee University, Korea
09:25-09:50	A25: Effective phosphosilicate glass passivation for high conversion efficiency black Si solar cells with nanocrystalline Si layer	Kentaro Imamura Osaka University, Japan
09:50-10:15	A26: Enhanced performance of inverted bulk-heterojunction polymer solar cells by introducing doped interfacial layer	Shinuk Cho University of Ulsan, Korea
10:15-10:45	Session Break	
Session: PV IX Chair: Shinuk Cho		
10:45 -11:10	A27: Conducting Polymer as the Back Contact of Cadmium Telluride Solar Cells	Weining Wang Seton Hall University, USA
11:10-11:35	A28: High-efficiency (>17%) Si-PEDOT:PSS hybrid solar cells by concurrent structural, electrical, and interfacial engineering via low temperature processes	Dahl-Young Khang Yonsei University, Korea
11:35-11:50	A29: Hydrophobic and stretchable Ag nanowire network electrode passivated by a sputtered PTFE layer for self-cleaning transparent thin film heater	Sang-Mok Lee Kyung Hee University, Korea
12:00	Lunch Break	
Session: PV X Chair: Dahl-Young Khang		
14:00-14:25	A30: Synthesis of hierarchically porous zinc oxide scaffolds with strong near band edge emissions	Sudhir Kumar Sharma NYU Abu Dhabi, The United Arab Emirates
14:25 -14:50	A31: Reliability of Photovoltaic Modules in Diverse Climates	Mani GovindaSamy TamizhMani Arizona State University, USA
14:50 -15:15	A32: Recent Advances in III-V/Si Tandem Solar Cells	Steven A. Ringel The Ohio State University, USA
15:15-15:45	Session Break	
17:30	Dinner Social	
One-day Excursion on January 19		

Program for EMN Singapore Meeting 2018	
Poster Session	
15:40-16:10 Wednesday January 17	
Poster Session Chair Guillaume Zoppi	
P1: Utilization of polymer electrolytes for polymer solar cells	Joo Hyun Kim Pukyong National University, Korea
P2: Hierarchical 3D TMNs@NG core-shell nanohybrid as efficient counter electrode for high-performance dye-sensitized solar cells	Joong Hee Lee Chonbuk National University, Korea
P3: Fabrication and characterization of CeO ₂ -MnO ₂ /rGO nanocomposite for supercapacitor application	Taewoo Kim Chonbuk National University, Korea
P4: Green synthesis of transparent nanofibers for potential materials as solar cell componen	Dawon Kang Chonbuk National University, Korea
P5: Formation of extra-fine and transparent PAN/PAA composites via electrospinning for optoelectronic devices	Minju Lee Chonbuk National University, Korea
P6: Capacitance of β -MnO ₂ decorated carbon nano-fibers	Seong Min Ji Chonbuk national University, Korea
P7: Atomic-Layer-Deposited TiO ₂ with Vapor-Grown MAPbI _{3-x} Cl _x for Planar Perovskite Solar Cell	Sungjae Na Dankook University, Korea
P8: Organic-Cation-Mixed Perovskite (FA,MA)PbI _{3-x} Cl _x through Sequential Vapor Growth for Efficient Planar Solar Cells	Won-Gyu Choi Dankook University, Korea
P9: All-Inorganic Perovskite CsPbI ₂ Br through Co-Evaporation for Planar Heterojunction Solar Cell	ChanGyu Park Dankook University, Korea
P10: Electrical and optical characterisations of SrVO ₃ thin films grown at low thermal budget for the application as a new transparent conductor: a promising material for photovoltaic applications	Christophe Labbé CIMAP CNRS/CEA/ENSICAEN/Unicaen, France