

ICAE 2013 Best Poster Awards

No.	Code	Presenter Name	Title
1	EM-0499	Mr. Dong Ju Son	Surface Analysis of Aluminum Wire Bonding Pad in Flash Memory Multi-Chip Package
2	EM-0659	Prof. Sang Heon Lee	Study on the Superconducting Properties of Ceramics Oxides
3	EM-0692	Ms. Ga Hyun Choi	Improvement of Opto-electrical Properties of Transparent Conducting Oxide Lamellar Films
4	EM-2542	Mr. Sang Cheon Park	Selective Electroless Copper Plating on Polyimide Substrate by UV/Ozone Treatment
5	ES-1122	Ms. Yunan Kim	Formation of Artificial Holes by Infiltration of Ag Wires in Melt Growth Processed $Gd_{1.5}Ba_2Cu_3O_{7-x}$ Bulk Superconductors
6	ES-1390	Mr. Chun-young Jung	Amorphous Silicon Nanoparticles synthesized by Inductive Coupled Plasma for Secondary Lithium-ion Battery
7	ES-1487	Mr. Kiyoon Kim	Fabrication and Electrochemical Properties of High Capacity 3-D Structured Thin Film Lithium Batteries
8	ES-2615	Mr. Chek Hai Lim	Improvement of Electrochemical Performance of $Li_3V_2(PO_4)_3$ Cathode Materials by Reduced Graphene Oxide Wrapping
9	ES-3104	Dr. Won Young Chang	Thermal Effects on Surface Structure of Charged Ni-rich Cathode Materials for Li-ion Batteries Studied by TEM-EELS
10	ES-3264	Mr. Jae-Chan Kim	Electrospun Tin-Cobalt-Carbon Nanofibers for High-Performance Lithium Ion Battery Anodes
11	ES-902	Mr. Mansoo Choi	Electrochemical Performances of the Acid-treated $0.3Li_2MnO_3 \cdot 0.7LiMn_0.60Ni_0.25Co_0.15O_2$ Cathode Materials for Li-Ion Batteries
12	FC-1616	Mr. Sung Min Choi	Fabrication of Anode-supported Protonic Ceramic Fuel Cells (PCFCs) with $Ba(Zr_{0.84}Y_{0.15}Cu_{0.01})O_{3-\delta}$ – $Ba(Ce_{0.9}Y_{0.1})O_{3-\delta}$ Dual-layer Electrolyte
13	FC-1861	Ms. Didem C. Dogan	Fabrication of Highly Durable Catalyst Supports for Polymer Electrolyte Fuel Cells
14	FC-2293	Mr. Sung Hoon Hong	Transition Metal Alloy Catalysts for Hydrogen Production via Alkaline Water Electrolysis
15	FC-2573	Mr. Ji-Su Kim	Effect of Copper Alloying on Sulfur Poisoning of Nickel Surfaces via ab-initio Thermodynamics Calculations
16	FC-3591	Ms. Jihui Choi	Electrochemical Reduction of Carbon Dioxide for Fuel Production
17	FC-401	Mr. Quoc Khanh Dang	Nafion Membranes with a Porous Surface for PEMFC Operation at Low Relative Humidity
18	FC-4124	Mr. Young-Jun Byun	Effect of Proton Exchanging Time on Performance of Membrane-electrode Assemblies for Sulfonated Poly(ether ether ketone) Membranes
19	FC-4195	Ms. Min Kyung Cho	Characterization of PEMFC Performance Decay Due to Various Operating Conditions
20	FD-0828	Ms. Na Lee Kim	Generating Characteristics of a Honeycomb Shaped Piezoelectric Energy Harvester
21	FD-1211	Mr. Young Jun Eoh	Dielectric Properties of $CaMgSi_2O_6$ Glass-Ceramics with Cr_2O_3 - Fe_2O_3 - TiO_2
22	FD-1395	Mr. Ju-Hyuck Lee	Highly Stretchable Micro-patterned Piezo-pyroelectric Hybrid Nanogenerator

ICAE 2013 Best Poster Awards

No.	Code	Presenter Name	Title
23	FD-1404	Mr. Myoung Sub Noh	High Performance Planar Type Flexible Piezoelectric Thin Film Energy Harvester
24	FD-1498	Ms. Haena Yim	Synthesis and Dielectric Properties of Copper-substituted Strontium Niobate Ceramics
25	FD-1633	Mr. Dohwan Kim	A Study of Self-compensation Effect in High Performance Insulating and Semiconducting Piezoelectric Nanogenerators
26	FD-2620	Mr. Takahiro Niwa	Micropatterning of Oxide Films by Atmospheric Pressure Plasma Jet assisted Water Lift-off Process
27	FD-3157	Mr. Jinsung Chun	Triboelectric-Effect-Enabled Energy Harvesting with Arrays of Micro-Arch Shapes
28	FD-397	Prof. Tae-Gone Park	Generating Characteristics of a Modified Unimorph-type Piezoelectric Harvester
29	FM-1321	Dr. Byoung-Ho Kang	Interface Engineering between CdSe/ZnS Quantum Dots and ZnO Nanoparticles for Solution Processible Display
30	FM-1550	Mr. Eul-Yong Shin	Molecular Ordering of Organic Semiconductor Layer with Various Surface Alignment Techniques
31	FM-2624	Ms. Jimi Eom	Photonic Sintering Characteristics of Silver Paste on Polymer Substrate
32	FM-962	Dr. Hyunkoo Lee	Enhanced Performances in Inverted Bottom-emission Organic Light-emitting Diodes with KBH4-doped Electron Injection Layer
33	FP-1815	Ms. Dajeong Kim	Piezoelectric and Ferroelectric Properties of Mn Modified BiFeO ₃ -BaTiO ₃ Bulk Ceramics
34	FP-2012	Prof. Seiji Nakashima	Ferroelectric Properties and Current Conduction in Single Domain BiFeO ₃ Thin Films
35	FP-237	Mr. Matias Acosta	Temperature and Frequency Dependent Properties of the Bi _{1/2} Na _{1/2} TiO ₃ -25SrTiO ₃ Lead-free Incipient Piezoceramic
36	FP-2494	Mr. Sung Sik Won	Photovoltaic Effect of PbTiO ₃ /TiO ₂ Heterostructure Nanotube using TiO ₂ Films
37	FP-4083	Prof. Chae Il Cheon	Relaxor Behavior of BiFeO ₃ -(Bi,K)TiO ₃ Ceramics
38	FP-426	Mr. Dong-hwan Lim	Dielectric and Piezoelectric Properties of BiNaKTiO ₃ -BiAlO ₃ /BiNaTiO ₃ Ceramic-ceramic Layered Composites
39	FP-565	Mr. Shun Endo	High-Power Piezoelectric Characteristics of Textured (Sr _{0.7} Ca _{0.3}) ₂ Bi ₄ Ti ₅ O ₁₈ Ceramics
40	KC-1262	Mr. Guoxi Liu	Energy Scavenging from Ambient Low-Frequency Magnetic Field using Ferromagnetic-Elastic-Piezoelectric Composite Cantilever
41	KC-1574	Ms. Huaduo Shi	A Pseudo-Bimorph Actuator for High Temperature Application
42	KC-1643	Ms. You Jeong Eum	Magnetoelectric Properties of CoFe ₂ O ₄ -PZT Composite Thin Films
43	KC-3307	Ms. Ju-Eun Kang	Piezoelectric Single Crystal Fiber/Ni Laminate Composites and Their Magnetoelectric and Magnetic Vibration Energy Harvesting Properties
44	LT-0313	Mr. Dongkyun Shin	OLED Lightings with an Integrated Optical Monitoring System

ICAE 2013 Best Poster Awards

No.	Code	Presenter Name	Title
45	LT-0750	Ms. Eunjin Jung	Effects of Current Crowding on Reliability Characteristics of GaN-Based Light-Emitting Diodes
46	LT-1086	Prof. Tae Geun Kim	Improved Electrical and Optical Properties of Indium Gallium Tin Oxide Films via Hydrogen Post-annealing
47	LT-1230	Mr. Daoheung Bouangeune	Transient Voltage Suppressor Diode Design for The Protection of High Brightness GaN-Based LEDs from Various ESD Shocks
48	LT-2900	Mr. Shuhei Fujioka	Effects of (Al,Ga)Ox/GaN Interface States on GaN-based Schottky-type Light-emitting Diodes
49	LT-3017	Mr. Ryosuke Amiya	Impact of Native Surface Oxide on GaN Layers for their Surface Band Bending
50	LT-3304	Mr. Hae-Dong Yim	Improvement of Heat Conduction of Die Attach Layer for High Power LED Package
51	LT-4217	Mr. Seon-Ho Jang	Metal Contacts to Catalysis-free ZnO Nanorods Grown on p-type GaN using a Thermal Chemical Vapor Deposition
52	NM-1570	Mr. Balasubramaniam Saravanakumar	Fabrication of Piezoelectric ZnO Nanogenerator
53	NM-1654	Ms. Wei Wang	Novel ITO/AgOx/ITO Nanoarray Electrode for Organic Solar Cells
54	NM-2754	Prof. Jung Hoon Park	Preparation and Oxygen Permeation Properties of BaCrOx Coated Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} Tube Type Membrane
55	NM-2974	Mr. Gabseok Seo	Air Stable Inorganic-organic Heterojunction Solar Cells with PbS CQD Treated by Halide Material
56	NM-2984	Ms. Ji Eun Lee	Fabrication and Characterization of Silica Nanotubes using Thermal Treatment
57	NM-3116	Mr. Dohyun Kwak	First Principles Computational Studies of Catalytic Activity and Electrochemical Stability of Pt-Co Alloy Nanoparticles
58	NM-3376	Mr. Kwang-Min Kim	Application of Nano-sized Materials for Highly Improved Conductivities of Solid Polymer Electrolytes
59	NM-3685	Mr. Seong-bong Yim	Synthesis and Characterization of Metal-deposited Composite Nanowires for Solar Cell via Electrospinning and Electroless Deposition
60	NM-3860	Ms. Mi-Ri Joung	Lead Free KNbO ₃ Nanowires based Flexible Nanogenerators
61	NM-820	Dr. Bo Yun Jang	Steam Injection to Liquid Si to Synthesize SiO _x Nanoparticles
62	OS-1406	Ms. Maryane Putri	The Effect of Post-Annealing Treatment on the Structural, Electrical and Optical Properties of Indium Zinc Tin Oxide (IZTO) Thin Films with Reduced Indium Content
63	OS-1820	Mr. Chan-Hwa Hong	Improvement of Index-matched ITO Thin Film on the Flexible Substrates using by Ionized Physical Vapor Deposition
64	OS-2282	Ms. Kyeong-Ah Kim	Fabrication and Characterization of Oxide Semiconductor Thin Film Transistors using Solution-processed Aluminum-zinc-tin Oxide Active Channel
65	OS-2672	Mr. Se-Yun Kim	Growth Mechanism of ZnO Nano-structure by PLD
66	PE-0843	Mr. Jae-Gil Lee	Recessed AlGaIn/GaN Power Transistors and Rectifiers

ICAE 2013 Best Poster Awards

No.	Code	Presenter Name	Title
67	PE-1951	Mr. Daoheung Bouangeune	Effects of Electrostatic Discharge Stress on Current-Voltage and Reverse Recovery Time of Fast Recovery Power Diode
68	PE-2534	Mr. Deok-Hui Nam	Homoepitaxial Growth on 6H-SiC Seed by High Temperature Chemical Vapor Deposition using Tetramethylsilane
69	PE-2790	Mr. Tae Jun Park	The Effect of LiNi _{0.85} Co _{0.10} Al _{0.05} O ₂ Cathodes at 55 °C by Iron-doping for Lithium Ion Batteries
70	PV-2388	Mr. Sang-Woo Song	Effect of Ga-doped ZnO Thin Film with ZTO Buffer Layer by Pulsed DC Magnetron Sputter for Dye-sensitized Solar Cells
71	PV-2484	Ms. Areum Kim	In-Situ AFM Investigation of Mechanical and Thermal Characterization of Electroless Nickel Silicide Contacts for Si-Based Solar Cell
72	PV-2976	Ms. Hyekyoung Choi	Size-dependent Solar Cell Parameters of PbS NQDs in Schottky Solar Cell
73	PV-3088	Mr. Chan Young Im	Graphene-Chromophore Complex Monolayer at the Liquid-Gas Interface for Photovoltaic Applications
74	TF-1358	Mr. Seung Muk Lee	Synthesis of Sol-Gel-Derived Ti-silicate/Si Films and Characterization of their Microstructure, Chemical Structure, Composition, and Consequent Dielectric Properties with Rapid Thermal Process Temperature
75	TF-1522	Dr. Nathaporn Promros	Electrical Properties of Mesa Structural Near-Infrared n-Type Nanocrystalline FeSi ₂ /p-Type Si Heterojunction Photodiodes
76	TF-2100	Mr. Daehong Min	Growth of (11-22) Semipolar In-rich InGa _N Layer on Low Defect GaN Template
77	TF-2564	Mr. Ji-Su Kim	Effect of Amino Ligand Size in Si Precursors on Initial Reaction with an –OH-terminated Si (001) Surface for Atomic Layer Deposition
78	TF-3147	Dr. Cheolhyun Lim	Deposition of Monocrystalline Silicon Thin Films applying for Solar Cells by Atmospheric Plasma Enhanced Chemical Vapor Deposition
79	TF-3180	Dr. Taek Sung Kim	Electroluminescence of p-Ge/i-Ge/n-Si Hetero Junction PIN LED
80	TF-3688	Prof. Kyu Seomoon	Study on the Early Stage of Al Thin Film Synthesis via Metal-organic Chemical Vapor Deposition
81	TF-3873	Dr. Jeffrey De Vero	Growth and Superconducting Properties of Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} Thin Films Incorporated with Iridate Nanoparticles