

The 3rd
Korea-Japan Joint Symposium
for **ARS & ESS**



P R O G R A M

(Nov. 26 Sat.)

Opening		09:30~09:40	Korea : Prof. Soo-gil Park (Chungbuk Nat'l Univ.) Japan : Prof. Habazaki (Hokkaido Univ.)	Chairman
1	Plenary Lecture	09:40~10:05	Global Business of Nippon Chemi-Con Co. Prof. Hideaki Takahashi (Nippon Chemi-Con Co.)	Prof. Habazaki
2	Keynote	10:05~10:30	Graphene for Supercapacitors : Opportunities and Challenges Prof. Kwangbum Kim (Yonsei Univ.)	Prof. Kwangbum Kim
3		10:30~10:55	Functional Optical Devices Based on Anodizing Process Prof. Hideki Masuda (Tokyo Metropolitan Univ.)	Prof. Hideki Masuda
	Break	10:55~11:10	Coffee Break	
4	Invited	11:10~11:30	Modified Self-organized TiO ₂ nanostructures for Hydrogen Production Prof. Kiyong Lee (Kyungbuk Univ.)	
5		11:30~11:50	Metal-Assisted Etching (Electroless Anodizing) of Silicon Prof. Shinji Yae (University of Hyogo)	
	Lunch	11:50~13:00	Lunch (Amorex hall)	
	Poster	13:00~14:00	Poster Presentation	Prof. K.Shimizu
6	Keynote	14:00~14:25	Recent Developments in a Rechargeable Al-Ion Battery Prof. Yongsuk Tak (Inha Univ.)	Prof. Yongsuk Tak
7		14:25~14:50	Factors Controlling Cell Morphology of Porous Anodic Oxide Films Prof. Sachiko Ono (Kogakuin Univ.)	Prof. Sachiko Ono
8		14:50~15:15	PEO Film Formation Behavior on Al and Mg Alloys Ph.D./Prof. Sungmo Moon (KIMS)	
9	Invited	15:15~15:35	Application of Solution Flow Type Micro-Droplet Cell to Form Shape Controlled Porous Alumina Prof. Masatoshi Sakairi (Hokkaido Univ.)	
	Break	15:35~15:40	Coffee Break	
10	Invited	15:40~16:00	Fabrication of Nanostructured Semiconductor Surfaces Using Anodic Porous Alumina and Metal-Assisted Chemical Etching Prof. Hidetaka Asoh (Kogakuin Univ.)	Ph.D./Prof. Sungmo Moon (KIMS)
11		16:00~16:20	Fabrication of Cylindrical Type Supercapacitor using Graphene Electrode Dr. Dalwoo Shin (Korea JCC)	Prof. Masatoshi Sakairi
12		16:20~16:40	High-rate Charging of Zinc Negative Electrodes in Confined Nanopores Prof. Kazuhiro Fukami (Kyoto Univ.)	
13		16:40~17:00	Cerium- and phosphate-based sealing treatments of PEO coated AZ31 Mg Alloy Dr. Nguyen Van Phuong (KIMS)	Prof. Shinji Yae
14		17:00~17:20	Simulation of Electric Properties of Al Electrolytic Capacitors Considering DC Etched Structures Dr. Kazuhiro Nagahara (Nippon Chemi-con)	
	Closing	17:20~17:30	Prof. Ken-ichi Shimizu (Keiyo Univ.), Dr. Dalwoo Shin (Korea JCC)	
	Banquet	18:00~20:30	Banquet (Mansuk Kun seafood)	
	Get together	21:00~23:00	Get together (2 nd floor, pop, Amoureux Hotel)	

(Nov. 27 Sun.)

Technical tour schedule		
9:00	Amoureux Hotel	
10:30~11:30	Smart Grid	Tour (1hr)
12:00~13:30	Woljeongli Beach	Lunch & Break
13:40~14:40	Manjang Cave	Cave Tour
15:40	Jeju Airport	
16:00	Departure	

Poster Presentation

- P1** Fabrication of Porous Alumina Film by Indirect Oxidation.
Mami Ishino, Hideki Hashimoto and Hidetaka Asoh (Kogakuin Univ.)
- P2** Influence of Cell Morphology on Thickness of Barrier Layer of Anodic Porous Alumina
Ayaka Takao, Hideki Hashimoto, Hidetaka Asoh and Sachiko Ono (Kogakuin Univ.)
- P3** Cathodic polarization behavior in aqueous Tb^{3+}/Co^{2+} electrolyte solution using nanoporous electrode.
J. Yasoshima, K. Fukami, A. Kitada and K. Murase (Kyoto Univ.)
- P4** Formation of porous anodic films on stainless steel
Atsushi Kasuga, Takuya Hiraga, Chunyu Zhu, Yoshitaka Aoki, Hiroki Habazaki (Hokkaido Univ.)
- P5** Synthesized the Carbon and Metal Oxide Nanofibers by Anodized Alumina Oxide (AAO) Template
Cheong Kim (Hokkaido Univ.), Soo Gil Park (Chungbuk National Univ.)
- P6** Chemical conversion coatings and E-painting on Mg alloys
Basit Raza Fazal, Sungmo Moon (KIMS)
- P7** Effect of Na_2CO_3 concentration on performance of plasma electrolytic oxidation films formed on AZ31 Mg alloy.
Yeajin Kim, Sungmo Moon and Heoncheol Shin (KIMS)
- P8** PEO treatment of Al alloys
Juseok Kim, Sungmo Moon (KIMS)
- P9** 2D SiO_x Nano Flake Supported on Graphene as an Anode Material for Li-ion Batteries.
Byung-Hoon Park, Jun-Hui Jeong, Suk Woo Lee and Kwang-Bum Kim (Yonsei Univ.)
- P10** One-pot Synthesis of Nano- $Li_4Ti_5O_{12}$ /MWNT-Graphene Microspheres for Ultra High Rate Lithium Ion Batteries.
Geon-Woo Lee, Ha-Gyung Rho, Myeong Seong Kim and Kwang-Bum Kim (Yonsei Univ.)

- P11** Electrochemical characteristics of rechargeable Al-ion battery with surface modified Al anode.
Hyungho Go, Gibaek Lee and Yongsug Tak (Inha Univ.)
- P12** Enhanced the electrochemical performance of Ni-rich NCM by surface coating with organic metal solution.
Chang-Woo lee, Jae-Yoon Park and Jeom-Soo Kim (Donga Univ.)
- P13** Characteristics of NCM cathode materials synthesized with different doping sources.
Dong-Jun Park, Jeom-Soo Kim (Donga Univ.)
- P14** Monolithic Graphene Trees as Anode Material for Hybrid capacitors with high C-Rates.
Sunhye Yang, Seung Yol Jeong, Soonyeon Jeong, Ick Jun Kim (KERI)
- P15** Electrochemical performances of carbon electrode materials depending on electrode density for hybrid capacitors.
Minchul Kim, Sunhye Yang, Ick Jun Kim (KERI)
- P16** Preparation and Electrochemical Properties of the Pouch-type EDLC
Kyoungnam Lee, Sangmin Im (KERI, Donga univ.) Sunhye Yang, Ick Jun Kim (KERI)
- P17** Study on Electrochemical Decomposition of Poly(vinylidene fluoride) Binder for a Graphite Negative Electrode in Lithium Ion Batteries.
MinJi Kim, Mun-Hui Jo, Chang-Hee Lee and Soon-Ki Jeong (Soonchunhyang Univ.)
- P18** Effects of Extruding Temperature on Lithium Metal Electrodes in Lithium Secondary Batteries.
Mun-Hui Jo, Kyoung-Soo Park and Soon-Ki Jeong (Soonchunhyang Univ.)
- P19** Synthesis and Effect of Polyorganosilsesquioxane for Photoresist.
Gunn Jo (Chungbuk National Univ.)