

Poster Session

Date: Thursday, November 21st / 13:30-15:00

Place: Exhibition Room

P-01★	Synthesis of Flexible Oxide Solid Electrolyte Composite Film by Adding Plasticizer <u>Munehiko SHIMA</u> ¹ , Jeevan Kumar PADARTI ¹ , Takahiko KAWAGUCHI ¹ , Naonori SAKAMOTO ² , Naoki WAKIYA ² , Shigeto HIRAI ³ , Tomoya OHNO ³ , Hisao SUZUKI ² (1.Graduate School of Engineering, Shizuoka University, 2.Research Institute of Electronics, Shizuoka University, 3.Faculty of Engineering, Kitami Institute of Technology)
P-02★	Water-proofing Oxide Solid Electrolyte Fine Powders by Nanocoating of Amorphous LiNbO₃ from Sol-gel Precursor <u>Hayato ITO</u> ¹ , Jeevan Kumar PADARTI ¹ , Takahiko KAWAGUCHI ¹ , Naonori SAKAMOTO ² , Naoki WAKIYA ² , Hisao SUZUKI ² (1.Graduate School of Engineering, Shizuoka University, 2.Research Institute of Electronics, Shizuoka University)
P-03	Effect of Tellurite Glass Frits on Silver Front Contact for Si Solar Cells Yurian KIM ¹ , Sunghwan CHO ¹ , <u>Hyungsun KIM</u> ¹ (1.Inha University)
P-04★	Tailoring Hydrogen Storage Properties of Complex Borohydrides via Nanoconfinement for Mobile and Stationary Applications <u>Qiwen LAI</u> ^{1,2} , Hirohige MATSUMOTO ¹ , Kondo-Francois AGUEY-ZINSOU ² (1.International Institute for Carbon-Neutral Energy Research (WPI-I2CNER), Kyushu University, 2.MERLin, School of Chemical Engineering, The University of New South Wales)
P-05★	Ionic Conductivity of Layered Protonated Titanate in Water and Application to Water Electrolysis <u>Veeramani VEDIYAPPAN</u> ³ , Nomura MUNEMITSU ¹ , Shoichi FURUKAWA ¹ , Terayama YUKI ¹ , Eguchi HIROTO ² , Yamauchi MIHO ³ , Sone YOSHITSUGU ⁴ , Hirohige MATSUMOTO ³ (1.Graduate School of Engineering, Kyushu University, 2.Graduate School of Science, Kyushu University, 3.International Institute for Carbon-Neutral Energy Research (WPI-I2CNER), Kyushu University, 4.Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency (JAXA))
P-06★	High Electrocatalytic Performance of Pt-Cu Alloy Support on Ceramic for Oxygen Reduction Reaction <u>Hanseul KIM</u> ^{1,2} , Taeho SHIN ¹ , Youngwook LEE ¹ (1.Korea Institute of Ceramic Engineering and Technology, 2.Pusan National University, Nanofusion Technology)
P-07★	Fabrication of Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ Solid Electrolytes by Sol-gel Method <u>Youngseon PARK</u> ¹ , Eunjeong YI ¹ , Haejin HWANG ¹ (1.Inha University)
P-08★	Fabrication of La and Ni doped SrTiO₃-Gadolinium Doped Ceria Composite Anodes for Solid Oxide Fuel Cells (SOFC). <u>JaeU JEONG</u> ¹ , Haejin HWANG ¹ (1.Inha University)
P-09★	Low Temperature Operative Catalytic Combustion-type Methane Gas Sensor Based on Gadolinium Silicate <u>Wonjoon LEE</u> ¹ , Shinji TAMURA ¹ , Nobuhito IMANAKA ¹ (1.Osaka University)

P-10★	In Situ Strained ZnO Nanorods Array Structure for Enhanced Electromechanical Energy Harvesting <u>Hong Je CHOI</u> ¹ , <u>Ye Seul JUNG</u> ¹ , <u>Ju HAN</u> ¹ , <u>Yong Soo CHO</u> ¹ (1.Yonsei University)
P-11★	Synthesis and Characterization of $(\text{Li}_{1-x}\text{Na}_x)_2\text{MnO}_3$ as Environmentally Friendly Red Pigments <u>Kohei KUSUKAMI</u> ¹ , <u>Ryohei OKA</u> ¹ , <u>Toshiyuki MASUI</u> ¹ (1.Tottori University)
P-12★	Novel Inorganic Orange Pigments Based on BiFeWO₆ <u>Akari TAKEMURA</u> ¹ , <u>Yusuke SHOBU</u> ¹ , <u>Ryohei OKA</u> ¹ , <u>Toshiyuki MASUI</u> ¹ (1.Tottori University)
P-13★	Synthesis and Characterization of $\text{Zn}_{1-x}\text{Mg}_x\text{O}$ Fine Particles for Sunscreen <u>Nao KATAOKA</u> ¹ , <u>Taichi YONEZAWA</u> ¹ , <u>Mizuki WATANABE</u> ¹ , <u>Toshiyuki MASUI</u> ¹ (1.Tottori University)
P-14★	Synthesis and Color Evaluation of Ta⁵⁺-doped Bi₂O₃ <u>Yusuke SHOBU</u> ¹ , <u>Ryohei OKA</u> ¹ , <u>Toshiyuki MASUI</u> ¹ (1.Tottori University)
P-15	Silicon Carbide Coating on a Porous Carbon by Infiltration <u>Kyoungjin LEE</u> ¹ , <u>Yangkoo KANG</u> ¹ , <u>Jaehun CHUNG</u> ¹ , <u>Haejin HWANG</u> ¹ (1.Inha University)
P-16	Cyanosilylation of Benzaldehyde with TMSCN over Perovskite-type Oxide Prepared by Thermal Decomposition of Metal Cyano Complex Precursors <u>Syuhei YAMAGUCHI</u> ¹ , <u>Hiroki WADA</u> ¹ , <u>Makoto FUKUOKA</u> ¹ , <u>Hidenori YAHIRO</u> ¹ (1.Ehime University)
P-17★	Analysis of Antiferromagnetic CrN Finite Cluster Models by First Principle Calculation <u>Hideaki OKAMOTO</u> ¹ , <u>Kei INUMARU</u> ¹ (1.Hiroshima University)
P-18	Sealing Properties of SiO₂-B₂O₃-BaO Glasses Varying Al₂O₃ Content for High Temperature Reversible Solid Oxide Cells <u>Woo Sik KIM</u> ¹ , <u>Hansol LEE</u> ¹ , <u>Woon jin CHUNG</u> ¹ (1.Div. of Advanced Materials Eng., Kongju National University)
P-19★	Effect of Transition Metal Ions on the colorization of High Refractive Index Glass <u>Junghee LEE</u> ¹ , <u>In Gun KIM</u> ¹ , <u>Hansol LEE</u> ¹ , <u>Yong Gyu CHOI</u> ¹ , <u>Woon Jin CHUNG</u> ¹ (1.Div. of Advanced Materials Eng., Kongju National University)
P-20★	Local Structure of Molybdenum in Sodium Borate Glass <u>Haizhi HUANG</u> ¹ , <u>Tokuro NANBA</u> ¹ , <u>Yasuhiko BENINO</u> ¹ , <u>Shinichi SAKIDA</u> ¹ (1.Okayama University)
P-21★	Effect of Coating Process on Microstructure of Barium Titanate Nano-Coated Silica Nano-Particles <u>Takahiro MARUYAMA</u> ¹ , <u>Hokuto SUZUKI</u> ¹ , <u>Shigeto HIRAI</u> ¹ , <u>Takeshi MATSUDA</u> ¹ , <u>Naonori SAKAMOTO</u> ² , <u>Hisao SUZUKI</u> ² , <u>Tomoya OHNO</u> ¹ (1.Kitami Institute of Technology, 2.Shizuoka University)

P-22★	Effect of the Microstructure Control of Air Electrode Using $Mn_{2.1}Co_{0.9}O_4$ on the Catalyst Activity for Oxygen Evolution Reaction <u>Kotono IWASE</u> ¹ , Ren UEMURA ¹ , Masaya FURUNAKA ¹ , Shigeto HIRAI ¹ , Takeshi MATSUDA ¹ , Hisao SUZUKI ² , Tomoya OHNO ¹ (1.Kitami Institute of Technology, 2.Shizuoka University)
P-23★	Microstructure Control of Porous Silicon and Preparation of Through-Hole-Type Porous Silicon <u>Hiroki NAKANE</u> ¹ , Takahiko KAWAGUCHI ¹ , Naonori SAKAMOTO ¹ , Kazuo SHINOZAKI ² , Hisao SUZUKI ¹ , Naoki WAKIYA ¹ (1.Department of Electronics Science, Shizuoka University, 2.Tokyo Institute of Technology)
P-24	Fabrication of Ferroelectric Gate Transistors on Paper Substrates Using Sol-gel Method Byung Eun PARK ¹ , <u>Min Gee KIM</u> ¹ (1.University of Seoul)
P-25★	Electrical Properties of the Strained $(1-x)(K_{0.5},Na_{0.5})NbO_3-x(Bi_{0.5},Na_{0.5})ZrO_3$ Thin Films by Chemical Solution Deposition <u>Sadaaki TANAKA</u> ¹ , Kazuki YOSHIDA ¹ , Shigeto HIRAI ¹ , Takeshi MATSUDA ¹ , Naonori SAKAMOTO ² , Hisao SUZUKI ² , Takahisa SHIRAISHI ³ , Takanori KIGUCHI ³ , Toyohiko KONNO ³ , Tomoya OHNO ¹ (1.Kitami Institute of Technology, 2.Shizuoka University, 3.Tohoku University)
P-26★	Influence of Molecular-design and Buffer Layers on Low Temperature Deposition of CSD-derived PZT Thin Films <u>Ayako HAKAMADA</u> ¹ , Takahiko KAWAGUCHI ¹ , Naonori SAKAMOTO ² , Naoki WAKIYA ² , Hisao SUZUKI ² (1.Graduate School of Integrated Science and Technology Department of Engineering, Shizuoka University, 2.Research Institute of Electrons, Shizuoka University)
P-27★	Epitaxial Growth of Perovskite Calcium Tantalate Thin Films by Dynamic Aurora PLD <u>Mayuko SUGITA</u> ¹ , Takahiko KAWAGUCHI ¹ , Naonori SAKAMOTO ¹ , Hisao SUZUKI ¹ , Naoki WAKIYA ¹ (1.Shizuoka University)
P-28	Direct Writing of Copper Fine Wire on Glass and Polyimide Substrate in Air Using Glyoxylic Acid Copper Complex and Laser Irradiation <u>Tomoji OHISHI</u> ¹ , Akira UETSUKI ¹ (1.Shibaura Institute of Technology, Department of Applied Chemistry)
P-29★	Simple Synthesis of Layered Double Hydroxide (LDH) Film on Aluminum Surface and its Hydrophilic Property <u>Yuta TOMOSUGI</u> ¹ , Yoshiteru ITAGAKI ¹ , Hiromichi AONO ¹ , Satoru FUKUGAICHI ² (1.Graduate School of Science and Engineering Ehime University , 2.Paper Industry Innovation Center Ehime University)
P-30★	Formation and Crystal Structure of $CaCr_2O_4$ <u>Jin-ho SHIN</u> ¹ , Seung-joo KIM ¹ (1.Ajou University)
P-31★	Synthesis and Crystal Structure of a New Fast Lithium-ion Conductor, $LiTa_2PO_8$ <u>Minseong KIM</u> ¹ , Jaegyeom KIM ¹ , Seung-Joo KIM ¹ (1.Ajou University)

★ Candidate for Young Ceramist Best Poster Award