

The Ceramic Society of Japan Annual Meeting 2015 Program

General (Presentation 10 min. Discussion 4 min. Alternation 1 min.)
Award/Invited (Presentation 25 min. Discussion 4 min. Alternation 1 min.)

★★ March 18 (Wed) (Room A) ★★

Glass and photonic materials / 構造解析・ガラス形成

(13 : 00) (Chairman 増野敦信)

- 1A17 Structure of $\text{Bi}_2\text{O}_3\text{-GeO}_2$ glasses
(Japan Synchrotron Radiation Research Institute) ○Shinji Kohara · Koji Ohara · Akihiko Fujiwara · (Okayama University) Yasuhiko Benino
- 1A18 Functional Complex Point Defect Structure in a Huge Size Mismatch System
(University of Tokyo) ○Ryo Ishikawa · Naoya Shibata · Yuichi Ikuhara · (Kyoto University) Fumiyasu Oba · Isao Tanaka · (NIMS) Takashi Taniguchi · (Monash University) Scott D. Findlay

(13 : 30) (Chairman 小原慎司)

- 1A19 Containerless solidification of undercooled $\text{SrO-Al}_2\text{O}_3$ binary melts
(The University of Tokyo) ○Atsunobu Masuno · Katsuyoshi Kato · Hiroyuki Inoue
- 1A20 Fabrication of dense sintered body from low-melting $\text{Na}_2\text{O-Al}_2\text{O}_3\text{-P}_2\text{O}_5$ glass powder through oxygen-supplied hot isostatic pressing and its evaluation
(Sophia University) ○Shiori Hirano · (Delft University of Technology) Hubertus T. Hintzen · (Sophia University) Kiyoshi Itatani
- 1A21 Thermal stability and chemical durability of $\text{BaO-FeO}_x\text{-P}_2\text{O}_5$ glasses
(Ehime University) ○Naoto Kitamura · Akira Saitoh · Hiromichi Takebe · (Japan Atomic Energy Agency) Ipepei Amamoto · Hidekazu Kobayashi · (Central Glass Co., Ltd.) Tatsuya Tsuzuki · Naoki Mitamura

Glass and photonic materials / 熱特性・拡散

(14 : 15) (Chairman 北村直之)

- 1A22 High-temperature heat capacity of alumino-silicate melts
(Akita University) ○Toru Sugawara
- 1A23 Thermal conductivity of oxide glasses containing 13 group elements
(The University of Siga Prefecture) ○Mao Fujino · Akitaka Yamada · Satoshi Yoshida · Jun Matsuoka
- 1A24 Soret effect of alkali borate glass melts
(Kyoto University) ○Daisuke Hanakawa · Masahiro Shimizu · Masayuki Nishi · Koji Nagashima · Kazuyuki Hirao

★★ March 18 (Wed) (Room B) ★★

Glass and photonic materials / アップコンバージョン

(13 : 00) (Chairman 瀬川浩代)

- 1B17 Power density dependent energy transfer between Tm^{3+} and Tb^{3+} in NaYF_4 upconversion phosphors
(Toyota Technological Institute) ○Xiaojie Xue · Takenobu Suzuki · Yasutake Ohishi
- 1B18 Synthesis of up-conversion phosphors with tunnel structure for high brightness
(Tokai University) ○Sayaka Tamura · Koji Tomita · (Hiroshima University) Kiyofumi Katagiri · (Tohoku University) Masato Kakhiana
- 1B19 Synthesis and up-conversion properties of ZnO-TiO_2 : Ho, Yb
(The University of Saga) ○Shingo Hiramatsu · Takanori Watari · Mitsunori Yada · Toshio Torikai

Glass and photonic materials / 紫外蛍光体

(13 : 45) (Chairman 鈴木健伸)

- 1B20 Synthesis of Gd^{3+} doped and $\text{Gd}^{3+}\text{-Pr}^{3+}$ co-doped AScO_3 (A=Y, La) and evaluation of Gd^{3+} ultraviolet emission.
(Kyushu Institute of Technology) ○Akito Takiguchi · Yuhei Shimizu · Takuma Aoki · Kazushige Ueda
- 1B21 Ultraviolet Cathodoluminescence of Gd^{3+} Doped and $\text{Gd}^{3+}\text{-Pr}^{3+}$ Co-doped YAlO_3 Epitaxial Thin Films Grown by PLD Method
(Kyushu Institute of Technology) ○Yuhei Shimizu · Kazushige Ueda · (National Institute of Advanced Industrial Science and Technology) Hiroshi Takashima · (Gakushuin University) Yoshiyuki Inaguma
- 1B22 Preparation of inorganic electroluminescent devices using $\text{La}_2\text{Ti}_2\text{O}_7\text{:Pr}$ oxide phosphor and their luminescence properties
(Gunma University) ○Toru Kyomen · Shido Saito · Minoru Hanaya · (AIST) Hiroshi Takashima

Glass and photonic materials / 白色LED用蛍光体

(14 : 30) (Chairman 植田和茂)

- 1B23 Fabrication of sodium borosilicate glass- SiAlON composites for white LED
(NIMS) ○Hiroyo Segawa · Naoto Hiroasaki
- 1B24 Temperature dependence of Ce:YAG single-crystal phosphors for high-brightness white LED/LD
(National Institute for Materials Science · Waseda University) ○Stelian Arjoca · (National Institute for Materials Science) Encarnación G. Villora · (Tamura Co., Ltd. · Koha Co., Ltd.) Daisuke Inomata · (Koha Co., Ltd.) Kazuo Aoki · (Waseda University) Yoshiyuki Sugahara · (National Institute for Materials Science · Waseda University) Kiyoshi Shimamura

★★ March 18 (Wed) (Room C) ★★

Engineering ceramics / コーティング・皮膜物性

(13 : 00) (Chairman 武藤浩行)

- 1C17 Mass Transfer Mechanism of Polycrystalline Mullite under Oxygen Potential Gradients at High Temperatures
(JFCC) ○Tsuneki Matsudaira · Naoki Kawashima · Satoshi Kitaoka

- 1C18 Mass transfer mechanism in $Y_2Ti_2O_7$ under oxygen potential gradient at high temperatures
(JFCC) ○Makoto Tanaka · Tsuneaki Matsudaira · Satoshi Kitaoka · (Kyoto University) Tsubasa Nakagawa ·
(The University of Tokyo) Naoya Shibata · Yuichi Ikuhara · (Gifu University) Takuma Sassa · Osamu Sakurada ·
(The University of Tokyo) Yutaka Kagawa
- 1C19 Development of stable and tough Si base bond coat layer EBCs for SiC/SiC components
(The University of Tokyo) ○Shohei Magata · Takaho Kuribara · Yutaro Arai · Yutaka Kagawa · (JFCC) Naoki Kawashima · Satoshi Kitaoka
- 1C20 Fabrication of $HfO_2-Al_2O_3$ Eutectic EBC by Optical Zone Melting Method
(Nihon University) Kyosuke Seya · Yuki Fukawa · ○Shunkichi Ueno · (National Institute for Materials Science) Byung-koog Jang

Engineering ceramics / コーティング・プロセス

(14 : 00) (Chairman 桐原聡秀)

- 1C21 Preparation of Yb-Si-O films by laser chemical vapor deposition (Tohoku University) ○Akihiko Ito · Takashi Goto
- 1C22 Microstructure of SiC-Ti(C,N) composite films prepared by laser chemical vapor deposition
(Tohoku University) Hitoshi Kanno · ○Akihiko Ito · Takashi Goto
- 1C23 Fabrication of Composite Thick Film by Aerosol Deposition Technique
(Toyohashi University of Technology) Shun Ueyama · Yuichi Nakamura · Go Kawamura · Atsunori Matsuda · ○Hiroyuki Muto
- 1C24 Development of Al_2O_3 coatings by the sol-gel method
(Mitsubishi Materials Corporation) ○Hiroaki Kakinuma · Akira Osada · (Shizuoka University) Naoki Wakiya ·
Hisao Suzuki · (Mitsubishi Materials Corporation · JAXA) Hidemitsu Takaoka ·

★★ March 18 (Wed) (Room D) ★★

Characterization / 粒界構造

(13 : 00) (Chairman 山根久典)

- 1D17 Stable structures of heterointerfaces in superconductor multilayers
(JFCC) ○C. A. J. Fisher · Takeharu Kato · Tsukasa Hirayama · (International Superconductivity Technology Center) Takahiro Taneda ·
Teruo Izumi · Yu Shiohara · (Kyushu University) Takanobu Kiss
- 1D18 Grain boundary chemistry in yttria-stabilized zirconia investigated by STEM-EDS
(The University of Tokyo) ○Bin Feng · Nathan Lugg · Akihito Kumamoto · Naoya Shibata ·
(The University of Tokyo · JFCC · Tohoku University) Yuichi Ikuhara
- 1D19 First principles calculation of atomic diffusion behavior in $\alpha-Al_2O_3$ grain boundary
(The University of Tokyo) ○Tetsuya Tohei · Yuito Watanabe · Naoya Shibata · Yuichi Ikuhara

Characterization / 結晶構造

(13 : 45) (Chairman 森大輔)

- 1D20 Structural Origin of the Anisotropic Thermal Expansion of K_2NiF_4 -Type Oxides (1): Structural Origins of Anisotropic Thermal Expansion of $LaSrAlO_4$
and of Isotropic Thermal Expansion of Sr_2TiO_4
(Tokyo Institute of Technology) ○Masatomo Yashima · Keishi Kawamura · Kotaro Fujii · Kazuki Omoto · Keisuke Hibino ·
Shuntaro Yamada · (ANSTO) James R. Hester · Maxim Avdeev · (KEK) Ping Miao · Shuki Torii · Takashi Kamiyama
- 1D21 Structural Origin of the Anisotropic Thermal Expansion of K_2NiF_4 -Type Oxides
(Tokyo Institute of Technology) ○Keishi Kawamura · Kotaro Fujii · Masatomo Yashima
- 1D22 Structure stability and cation distribution of pseudobrookite-type oxides (Gifu University) ○Yutaka Ohya · Yukihiko Kawauchi · Takayuki Ban
- 1D23 Crystal structure and thermoelectric properties of an intermetallic compound in Na-Ga-Sn system
(Tohoku University) ○Takahiro Yamada · Hisanori Yamane · (National Institute of Advanced Industrial Science and Technology) Hideaki Nagai

★★ March 18 (Wed) (Room E) ★★

Energy reference material / 湿式太陽電池

(13 : 15) (Chairman 中島章)

- 1E18 Formation of nano-structure on the surface of Ti electrode by surface treatment
(Chubu University) ○Hiroaki Takadama · Seiji Yamaguchi · Tomiharu Matsushita · Yoshinori Naruta
- 1E19 Synthesis of needle-like shaped anatase-type TiO_2 with different length for dye-sensitized solar cells
(Tokai University) ○Takahiro Kikuchi · Miwako Furue · Koji Tomita · Yuki Shimoyama · Yoshihito Kunugi ·
(Waseda University) Shinjiro Umezu · (Tohoku University) Masato Kakihana
- 1E20 Preparation of buffer layers for dye-sensitized solar cells by water-soluble titanium complexes
(Tokai University) ○Ryogo Tsubota · Takahiro Kikuchi · Mwako Furue · Koji Tomita · Kazuhide Kondo ·
Yuki Shimoyama · Yoshihito Kunugi · (Tohoku University) Masato Kakihana
- 1E21 Photoelectrochemical properties of porous CuO films prepared by sol-gel method
(Kansai University) ○Kouta Isobe · Hiroaki Uchiyama · Hiromitsu Kozuka
- 1E22 Characterization of ZnO Particles Prepared by Photocatalytic Reaction (The University of Shinshu) ○Naoya Harata · Hiromasa Nishikiori

Energy reference material / 受賞講演

(14 : 30) (Chairman 金村聖志)

- 1E23A **[The 69th CerSJ Awards]** Atomic-Configuration Analysis on Ion-Conducting Oxide by Diffraction Method and Theoretical Calculation
(Tokyo University of Science) ○Naoto Kitamura

★★ March 18 (Wed) (Room F) ★★

Bioceramics / 企業研究フロンティア

(13 : 00) (Chairman 早川聡)

- 1F17F **[Frontiers]** Development of artificial joint with bone-like bio-function (Nakashima medical Co., Ltd.) ○Hidetsugu Fukuda

Bioceramics / 生物学的評価

(13 : 30) (Chairman 早川聡)

- 1F19 Evaluation of Zn-containing bone like apatite cement from amorphous calcium phosphate in bone metabolism condition
(Nihon University) ○Tomohiro Uchino · Ryota Shimizu · Koho Abe
- 1F20 Promotion of bone regeneration by the administration of collagen-derived tripeptide
(Yamagata University) ○Hidero Unuma · Toshitake Furusawa · (Jellice Co., Ltd.) Yasuo Sakai
- (14 : 15) (Chairman 本田みちよ)
- 1F22 Cell-mediated Stimulation of Osteoclast Differentiation without Any Differentiation Factors on Carbonated Apatite
(Tokyo Medical and Dental University) ○Miho Nakamura · (University of Turku) Teuvo Hentunen · Jukka Salonen ·
(Tokyo Medical and Dental University) Naoko Hori · Kimihiro Yamahita
- 1F23 Osteoblastic cellular responses to ionic products derived from magnesium- and siloxane-containing vaterite
(Nagoya Institute of Technology) ○Shinya Yamada · Hirota Maeda · Akiko Obata · Toshihiro Kasuga ·
(Yabashi Industries Co., Ltd.) Yoshio Ota
- 1F24 Investigation into the mechanism of intracellular proteins' expression on polarized HAP
(Tokyo Medical and Dental University) ○Takaaki Masutani · Kosuke Nozaki · Naohiro Horiuchi ·
Miho Nakamura · Kimihiro Yamashita · Akiko Nagai

★★ March 18 (Wed) (Room G) ★★**Environment and energy related material / 機能性表面**

(13 : 00) (Chairman 吉岡朋彦)

- 1G17 Wetting behaviors on snail's shells with different surface morphologies
(Nagoya Institute of Technology) ○Ryota Yamagishi · Hirota Maeda · Toshihiro Kasuga
- 1G18 Characterization of α -alumina powders activated by mechanochemical method
(Nagoya Institute of Technology) ○Ryosuke Goto · Chika Takai · Takashi Shirai · Masayoshi Fuji
- 1G19 Development of Plating-substitute Chromium Film for Low Temperature and Low Environment Impact by Using Nanoparticles
(Tohoku University) ○Yamato Hayashi · Masamichi Koide · Jun Fukushima · Hitosugu Takizawa · (Spec Co., Ltd) Dai Itoh · Akinari Takada ·
Katsumi Oyamada · (Toyota Motor East Japan, Inc.) Iwao Mitsuhashi · Takashi Hatakeyama · Hiroyuki Ushioda · Tohru Sasaki · Yoichi Matsui

Environment and energy related material / ペロブスカイト

(13 : 45) (Chairman 白井孝)

- 1G20 Preparation and nitrogen monoxide adsorption of BaTiO₃
(Tokyo University of Science) ○Yuma Watanabe · Yuki Yamaguchi · Shigeru Ito · Kenjiro Fujimoto
- 1G21 Response characteristics of NOx sensors with porous (La_{0.8}Sr_{0.2})MnO₃ sensing electrode
(JFCC) ○Satoshi Suehiro · Hajime Okawa · Teiichi Kimura · Seiji Takahashi · (Nagasaki University) Taro Ueda

Environment and energy related material / 触媒

(14 : 15) (Chairman 白井孝)

- 1G22 Development of biogas reforming catalysts using lanthanum aluminate based perovskite compounds
(Okayama University) ○Kazuhito Iwamoto · Yoshikazu Kameshima · Shunnsuke Nishimoto · Michihiro Miyake
- 1G23 Catalysis for ammonia decomposition of nickel nanoparticles with high thermal stability
(Hiroshima University) ○Hitoshi Inokawa · Hiroki Miyaoka · Takayuki Ichikawa · Yoshitsugu Kojima

★★ March 18 (Wed) (Room H) ★★**Dielectric material / MLCC・ナノ誘電体**

(13 : 00) (Chairman 鶴見敬章)

- 1H17A **[The 69th CerSJ Awards]** Microstructure and reliability improvement study of dielectric ceramics for MLCC
(Murata Manufacturing Co., Ltd.) ○Noriyuki Inoue
- 1H19 Micro-patterning of barium titanate nanocube assemblies
(National Institute of Advanced Industrial Science and Technology) ○Ken-ichi Mimura · Kazumi Kato

Dielectric material / 絶縁破壊・コンデンサ

(13 : 45) (Chairman 加藤一美)

- 1H20 Mechanism and Mn addition effect of dielectric breakdown for CaTiO₃ ceramics
(Tokyo Institute of Technology) ○Mikio Yamazaki · Tatsuya Izumi · Takuya Hoshina · Hiroaki Takeda · Takaaki Tsurumi
- 1H21 Measurement of dielectric property and thermal expansion coefficient for ZrTiO₄-SrTiO₃ composite material
(Tokyo Institute of Technology) ○Mikio Yamazaki · Takuya Hoshina · Hiroaki Takeda · Takaaki Tsurumi
- 1H22 Fabrication and dielectric properties of grain boundary barrier layer capacitor material using sub-micron sized SrTiO₃-based particles
(Tokyo Institute of Technology) ○Ryouma Ishikawa · Takuya Hoshina · Hiroaki Takeda · Takaaki Tsurumi · Yukio Sakabe
- 1H23 Dielectric Properties of Metal/Insulator Composite Capacitor with Boundary-Layer Capacitor-Like Structures
(University of Yamanashi) ○Shintaro Ueno · Yasunao Sakamoto · Hiroya Taguchi · Kouichi Nakashima · Satoshi Wada

★★ March 18 (Wed) (Room I) ★★**Electroconductive material / 半導体セラミックス**

(13 : 00) (Chairman 濱上寿一)

- 1I17 Reliability estimation in development of lead free PTC ceramic
(Hitachi Metals) ○Takeshi Shimada · Kentaro Ino · Itaru Ueda · Yutaro Terakado · Shigeo Fujii
- 1I18 A mechanism of property appearance in PTC ceramics in BaTiO₃-(Bi_{1/2}Na_{1/2})TiO₃ system
(Hitachi Metals Co., Ltd.) ○Itaru Ueda · Takeshi Shimada · Yutaro Terakado · Kentaro Ino · Shigeo Fujii
- 1I19 PTCR properties of BaTiO₃ semiconductors fabricated under various cooling conditions
(Kyoto Institute of Technology) ○Nobuyuki Takeuchi · Kazuki Yamamoto · Hisayoshi Kobayashi

1I20 Composition Dependence of Property and Conductivity for (Ca,Sr)(Nb,V)O₃
(Tokyo University of Science) ○Yoshiki Mori · Naoya Ishida · Naoto Kitamura · Yasushi Idemoto

Electroconductive material / センサー材料

(14 : 00) (Chairman 竹内信行)

- 1I21 In-situ DRIFT studies of Au, Pt, and Pd loaded metal oxide catalysts and CO sensing properties of their catalysts as thermoelectric gas sensor
(National Institute of Advanced Industrial Science and Technology) ○Tomoyo Goto · Toshio Itoh · Takafumi Akamatsu · Noriya Izu · Woosuck Shin
- 1I22 CH₃SH, H₂S gas sensing properties of V₂O₅/WO₃/TiO₂ gas sensor
(National Institute of Advanced Industrial Science and Technology) ○Takafumi Akamatsu · Toshio Itoh · Noriya Izu · Woosuck Shin
- 1I23 Graphene/Tungsten Bronze Type M_xWO₃ (M=Na, K) Nanohybrids with Excellent Electrical Properties
(IMRAM · Tohoku University · Lanzhou University) ○Bin Liu · (IMRAM · Tohoku University) Shu Yin · Tsugio Sato
- 1I24 Fabrication and structure evaluation of ceramic-carbon composite by gel-casting method
(Nagoya Institute of Technology) ○Ibuki Shinkai · T. Kumazawa · T. Shirai · M. Fuji · C. Takai

★★ March 18 (Wed) (Room K) ★★

Liquid phase process / 高次構造制御プロセス

(13 : 00) (Chairman 幸塚広光)

- 1K17A [The 69th CerSJ Awards] Control of Hierarchical Structures and Morphologies of Inorganic Nanospace Materials by Utilizing Colloidal Assemblies
(Waseda Institute for Advanced Study) ○Yoshiyuki Kuroda
- 1K19 Electroless growth of Ag nanostructures on FIB-irradiated silicon and its control using the ink-jet technique
(Kyoto University) ○Marie Morikawa · Masayuki Nishi · Hiroki Itasaka · Masahiro Shimizu · Kazuyuki Hirao
- 1K20 Chemical synthesis of porous barium titanate thin films with organic template — an enhancement in ferro(piezo)electricity by pore-induced strains —
(National Institute for Materials Science) ○Norihiko Suzuki · Minoru Osada · Yusuke Yamauchi

Liquid phase process / 薄膜形成プロセス

(14 : 00) (Chairman 西正之)

- 1K21 Water-repellency and hardness of transparent polyfluorocarbon-silica hybrid thin films prepared using polysilazane as silica source
(Kansai University) Hiromitsu Kozuka · ○Koji Taira · Hiroaki Uchiyama
- 1K22 Correlation of pK_a value and ionic-exchanging property in nanosheet fabrication process from lepidocrocite-type layered titanate
(Tokyo University of Science) ○Yoshiharu Hada · Yuki Yamaguchi · Shigeru Ito · Kenjiro Fujimoto
- 1K23 Low-Temperature Preparation of Pd-Loaded Titania Coating and the Optical H₂ Gas Sensing Property
(Kanto Gakuin University) ○Jun-ichi Hamagami
- 1K24 Influence of UV irradiation on conductivity of solution processed ZnO films
(Tokyo Institute of Technology) ○JeongSoo Hong · (Shinshu university) Hajime Wagata ·
(Tokyo Institute of Technology) Ken-ichi Katsumata · Kiyoshi Okada · Nobuhiro Matsushita
- 1K25 Low-temperature synthesis of perovskite oxide powder by using the transition metal oxide gel as starting materials
(Tokyo University of Science) ○Minoru Fukushima · Yuki Yamaguchi · Shigeru Ito · Kenjiro Fujimoto

★★ March 18 (Wed) (Room L) ★★

Liquid phase process / 微粒子

(13 : 00) (Chairman 小島隆)

- 1L17 Synthesis of bismuth particles by polyol process and the magnetic property of the particle
(Kansai University) ○Naoki Hirao · (National Institute of Advanced Industrial Science and Technology) Naoyuki Kitamura · Kohei Fukumi ·
(Kansai University) Hiroaki Uchiyama · Hiromitsu Kozuka
- 1L18 Preparation of Palladium Composite Catalysts with Ceria Nanocrystals
(Nagoya University) ○Katsutoshi Kobayashi · (Nagoya Institute of Technology) Kiyotaka Kato · Masaaki Haneda ·
(Nagoya University) Masakuni Ozawa

(13 : 30) (Chairman 石垣隆正)

- 1L19 Synthesis and characterization of layered titanate particles by hydrolysis of alkoxide with sugar derivative
(Chiba University) ○Naofumi Uekawa · Yutaka Ono · Chunming Wen · Takashi Kojima
- 1L20 Synthesis of Lithium Iron Phosphate Prepared from the Iron Phosphate Produced by Iron-Reducing Bacteria and Its Electrochemical Properties
(Keio University) ○Hiroyuki Kageyama · Yasuo Hashimoto · Yuya Oaki · (Osaka Prefecture University) Yasuhiro Konishi ·
(Aisin Seiki) Shiro Saito · (Keio University) Hiroaki Imai

Liquid phase process / 微粒子蛍光体

(14 : 00) (Chairman 石垣隆正)

- 1L21 Coprecipitation synthesis and characterization of Eu doped Zn₂Ti_xSn_{1-x}O₄:Eu phosphor
(Gunma National College of Technology) ○Nobuyuki Taira · Takanori Mimura · Kisho Nakamura · Ryota Suzuki ·
(Toyoashi University of Technology) Hiromi Nakano
- (14 : 15) (Chairman 小林克敏)
- 1L22 Preparation and Addition of Aqueous Dispersibility of Oleate-Modified Nanoparticles for Biomedical Applications
(Hiroshima University) ○Takahiro Sugino · Takuya Sakata · Kiyofumi Katagiri · Kei Inumaru

Liquid phase process / 微粒子合成

(14 : 30) (Chairman 小林克敏)

- 1L23 Synthesis of Fe and Al-doped ZnO Powders by a Homogeneous Precipitation Method
(Hosei University) ○Michiko Nori · Takamasa Ishigaki · (NIMS) Tetsuo Uchikoshi
- 1L24 Preparation of hollow titania particles by the interface reaction method
(Yamagata University) Eiji Yamazaki · ○Hidero Unuma

★★ March 18 (Wed) (Room P) ★★

15 : 30~17 : 30

Engineering ceramics

- 1P001 A new optics for high speed & low background x-ray powder diffraction measurements and its application on a variety of powder sample
(Spectris co., Ltd.) Koichi Seo · ○Isao Yamaji · (PANalytical B.V.) Marco Sommariva · Fabio Masiello · Natalia Dadivanyan · Olga Nrygina · Detlef Beckers · Martijn Fransen
- 1P002 Development of Highly Durable Tantalum Carbide Coatings on Graphite Substrates
(Toyota Central R&D Labs., Inc.) ○Keisuke Shigetoh · Daisuke Nakamura · Akitoshi Suzumura
- 1P003 Development of flexible substrate using organic-inorganic hybrid resin and ultra-thin glass and easy color filter preparation method using soluble cobalt phthalocyanine complex having axial ligand
(Shibaura Institute of Technology) ○Hiroaki Kawada · Tomoji Ooishi
- 1P004 Microstructure development of mica/zirconia composites fabricated using fine and thin mica
(Shinshu University) ○Shunya Iwasawa · Tomohiro Yamaguchi · Seiichi Taruta
- 1P005 Microstructure development of CNFs/alumina composites fabricated using γ -alumina as alumina raw powder
(Shinshu University) ○Syouta Nishio · Tomohiro Yamaguchi · Naoto Saito · Seiichi Taruta
- 1P006 Ultra-low temperature sintering of Aluminum Nitride by Spark Plasma Sintering
(Tokyo City University) ○Ryota Kobayashi · Yoshihiro Nakajima · Kenji Mochizuki · (Tohoku University) Koichi Harata · Takashi Goto
- 1P007 Development of Thermal Conductive Polymer Composite with High Thermal Conductive pass of plate-like h-BN particles
(Toyoashi University of Technology) ○Yuichi Araki · Naoto Kimura · Go Kawamura · Atsunori Matsuda · Hiroyuki Muto
- 1P008 Influence of pore structure on the compressive strength of porous ceramics
(Nagaoka University of Technology) ○Harunobu Kamikawa · Zenji Kato · Satoshi Tanaka
- 1P009 Elucidation of the growth mechanism of coarse pores during the sample after de-binder made of alumina granules using X-ray computed tomography
(Nagaoka University of Technology) ○Tsuoyoshi Hondo · Zenji Kato · Satoshi Tanaka
- 1P010 Effect of the Couette flow on particles motion in high-concentration slurries
(Nagaoka University of Technology) ○Yoshihiro Nagasawa · Zenji Kato · Satoshi Tanaka
- 1P011 Influence of secondary phase on the volume resistivity of Si_3N_4 ceramics with Yb_2O_3
(Yokohama National University) ○Daisuke Kawai · Junichi Tatami · Motoyuki Iijima · (Kanagawa Academy of Science and Technology) Takuma Takahashi
- 1P012 Effect of surface morphology on the dynamic wetting of water on Si_3N_4 ceramics
(Yokohama National University) ○Saho Fujita · Junichi Tatami · Motoyuki Iijima
- 1P013 The highly-efficient synthesis of Aluminum nitride whiskers with high thermal conductivity
(Nagoya University) ○Masaki Matsumoto · Mingyu Chen · Masashi Nagaya · Shota Watanabe · Yukihisa Takeuchi · Shunta Harada · Miho Tagawa · Toru Ujihara · (Toray Research Center) Ryo Endoh
- 1P014 Fabrication of high electrically resistive zirconium non-oxides with low temperature dependence of resistivity like metals
(Kagawa University) ○Kentaro Yamamoto · Takafumi Kusunose · (Osaka University) Tohru Sekino
- 1P015 Synthesis of polycrystalline AlN with high thickness by efficient method
(Nagoya University) ○Pradip Ghosh · Kohei Mizuno · Makoto Hayashi · Yukihisa Takeuchi · (DENSO CORPORATION) Yuichi Aoki · Susumu Sobue · Yasuo Kitou · Jun Hasegawa · (Nagoya University) Makoto Kobashi · Toru Ujihara

Dielectric material

- 1P016 Optimization of Polling Process for Various BT-BMT-BF Piezoelectric Ceramics
(University of Yamanashi) ○Ryo Iizuka · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada · (Ryukoku University) Ichiro Fujii
- 1P017 Fundamental study on $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ - $\text{Pb}(\text{Mn}_{1/3}\text{Sb}_{2/3})\text{O}_3$ - $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ solid solutions for high-power piezoelectric applications
(University of Hyogo) ○Mizuyo Yamaguchi · Masafumi Kobune · Hiroshi Nishioka · Takeyuki Kikuchi
- 1P018 Interface Structure of Niobium-Based Perovskite Nanocomposite Ceramics Fabricated by Solvothermal Solidification Method and Their Dielectric and Piezoelectric Properties
(University of Yamanashi) ○Kazuki Fukasawa · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada
- 1P019 Preparation of DC-bias-free Dielectric Material by Nano-Domain Engineering and Their Dielectric Properties
(University of Yamanashi) ○Haruki Maruyama · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada
- 1P020 Fabrication of lead-free piezoelectric $(\text{Na}_{0.50}\text{K}_{0.45}\text{Li}_{0.05})\text{NbO}_3$ powders and solid solutions using a malic acid complex as a precursor
(University of Hyogo) ○Tomoaki Nakai · Masafumi Kobune · Hiroshi Nishioka · Takeyuki Kikuchi · Hirokazu Matsumoto · Takeru Nagamoto
- 1P021S Effects of sputtering-gas pressure on characteristics of $(\text{Bi}_{3.25}\text{Nd}_{0.65}\text{Eu}_{0.10})\text{Ti}_3\text{O}_{12}$ nanoplates
(The University of Hyogo) ○Ryosuke Furotani · Masafumi Kobune · Takuya Kugimiya · Satoshi Ueshima · Tomoyuki Kuriyama · Hiroshi Nishioka · Takeyuki Kikuchi · Hironori Fujisawa · Seiji Nakashima · Masaru Shimizu · Naoki Fukumuro
- 1P022 Micron-patterning of $\text{Pb}(\text{Zr,Ti})\text{O}_3$ thick film by water lift off process using the deliquescence of amorphous CaO
(Kanazawa University) Sadamune Watanabe · Shunta Higashiura · Takahiro Niwa · ○Takeshi Kawae · Akiharu Morimoto
- 1P023 Tunable property of the cation defects loaded $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ ceramics
(Okayama University) ○Riku Kanemoto · Takashi Teranishi · Hidetaka Hayashi · Akira Kishimoto
- 1P024 Dielectric properties of Nb loaded $\text{Ba}(\text{Zr, Ti})\text{O}_3$ film prepared by sol-gel method
(Okayama University) ○Shin Kajiyama · Takashi Teranishi · Hidetaka Hayashi · Akira Kishimoto
- 1P025 Ferroelectric BaTiO_3 - LiCoO_2 composite cathode for high-rate Li ion battery
(Okayama University) ○Yumi Yoshikawa · Ryo Sakuma · Hideki Hashimoto · Takashi Teranishi · Hidetaka Hayashi · Tatsuo Fuji · Akira Kishimoto
- 1P026 High-frequency tunable property of nonstoichiometric $\text{Ba}_{0.8}\text{Sr}_{0.2}\text{TiO}_{3-\delta}$
(Okayama University) ○Koji Osaki · Takashi Teranishi · Hidetaka Hayashi · Akira Kishimoto
- 1P027 Fabrication of KNbO_3 - BaTiO_3 Complex Ceramics for Introduction of Internal Electric Field
(University of Yamanashi) ○Yuichi Endo · Kazuki Fukasawa · Hideto Kawashima · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada

- 1P028 Fabrication of tetragonal $\text{Pb}(\text{Zr,Ti})\text{O}_3$ nanorods by focused ion beam and characterization of the domain structure
(Nagoya University) ○Daisuke Ito · (Nagoya University · JST-PRESTO) Tomoaki Yamada · (National Institute for Materials Science · Tokyo Institute of Technology) Osami Sakata · (University of Hyogo) Junki Kuroishi · Takahiro Namazu · (Tokyo Institute of Technology) Takahisa Shiraishi · Takao Shimizu · Hiroshi Funakubo · (Nagoya University) Masahito Yoshino · Takanori Nagasaki
- 1P029 Synthesis of Sn^{2+} loaded ferroelectric $(\text{Sr, Ba})\text{Nb}_2\text{O}_6$ and their dielectric properties
(Okayama University) ○Kazumasa Yamamoto · Takashi Teranishi · Hidetaka Hayashi · Akira Kishimoto
- 1P030 Fabrication of $(\text{Li,Na,K})\text{NbO}_3$ ceramics by colloidal processing in magnetic field
(Nagaoka University of Technology) ○Yuki Ono · Satoshi Tanaka · (Taiyo Yuden Co. Ltd) Tomohiro Harada · Hiroyuki Simizu · Yutaka Doshida
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(Tokyo University of Science) ○Yu Onodera · Naoya Ishida · Naoto Kitamura · Yasushi Idemoto
- 1P032 Investigation of ferroelectric characteristics and crystal structure of $(\text{K,Na})(\text{Nb,W})\text{O}_3$ -based ferroelectric ceramics sintered by Spark Plasma Sintering
(Tokyo University of Science) ○Kentarō Nakajima · Naoya Ishida · Naoto Kitamura · Yasushi Idemoto
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(Shizuoka Institute of Science and Technology) ○Kiyotaka Tanaka · Yoshinori Tsukamoto · Yutaka Yoshida · (Tokyo University of Science) Soichiro Okamura
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(The University of Yamanashi) ○Yasunao Sakamoto · Shintaro Ueno · Hideto Kawashima · Kouichi Nakashima · Satoshi Wada
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(Nagoya Institute of technology) ○Hiroki Iwamizu · Isao Kagomiya · Ken-ichi Kakimoto
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(The University of Okayama) ○Tomoya Numata · Makoto Nakanishi · Jun Kano · Tatsuo Fujii · Naoshi Ikeda
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(Doshisha University) Takashi Kishimoto · ○Takumi Nomura · Yuuki Sato · Shinzou Yoshikado
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(Tokyo Institute of Technology) ○Yosuke Hamasaki · Takao Shimizu · Shintaro Yasui · Tomoyasu Taniyama · Mitsuru Itoh
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(Meijo University) ○Akinori Kan · Susumu Takahashi · Ryosuke Hirabayashi · Hirotaka Ogawa
- 1P040 High-temperature impedance measurement of lead-free alkali niobate piezoceramics (Nagoya Institute of Technology) ○Junki Kato · K. Kakimoto
- 1P041 Fabrication and electrical properties of Mn doped $(\text{K, Li})\text{NbO}_3$ solid solution ceramics
(Tokyo University of Science) ○Tomoya Hase · Hajime Nagata · Tadashi Takenaka

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(Nagoya Institute of Technology) ○Ryo Hasegawa · Momoko Okabe · Toru Asaka · Nobuo Isizawa · Koichiro Fukuda
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(Shibaura Institute of Technology) ○Masatoshi Chindo · Naoto Yahata · Hajime Kiyono · (Nagaoka University of Technology) Daisuke Maruoka · Makoto Nanko
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(University of Hyogo) ○Kazuya Tokubo · Atsushi Mineshige · Tetsuo Yazawa
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(Doshisha University) ○Tomihei Hamaguchi · Yuuki Sato · Shinzo Yoshikado
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(Meijo University) ○Aoi Takayasu · Yumiko Ikebe · Eriko Ban
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(The University of Tokushima) ○Kotaro Yoshioka · Kei-ichiro Murai · Toshihiro Moriga · Koichi Nakamura
- 1P050 Electrical characteristics of SrCoO_3 -added zinc oxide varistors
(Doshisha University) Kazuki Kurokawa · ○Keisuke Kadota · Yuuki Sato · Shinzo Yoshikado
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(Tokyo City University) ○Kento Ishii · Harue Suzuki · (National Institute for Materials Science) Chika Matsunaga · Tetsuo Uchikoshi · (Tokyo City University) Fumio Munakata
- 1P053 Fabrication of Nb-doped Titanium Dioxide Thin Films by Aerosol Deposition
(Doshisha University) Hironori Kanai · ○Yutaka Hasegawa · Yuuki Sato · Shinzo Yoshikado
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(Meijo University) Kohei Nishimoto · Yuki Yokoyama · ○Akinori Kan · (Aichi Center for Industry and Science Technology) Masashi Suzuki · Junji Umeda · (Meijo University) Hirotaka Ogawa

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(Okayama University) ○Kohei Watanabe · Makoto Nakanishi · Jun Kano · Tatsuo Fujii
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(Okayama University) ○Saori Ono · Makoto Nakanishi · Jun Kano · Tatsuo Fujii
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(Okayama University) ○Daichi Fukutomi · Tatsuki Matsumoto · Hideki Hashimoto · Makoto Nakanishi · Jun Kano · Tatsuo Fujii

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(University of Hyogo) ○Takeyuki Kikuchi · Masafumi Kobune · (Okayama University) Makoto Nakanishi · Tatsuo Fujii
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(National Defense Academy) ○Sho Hamada · Hiroaki Kishimura · Kannta Watanabe · Atsushi Aruga · Hitoshi Matsumoto
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(University of Hyogo) ○Yuri Shibuya · Atsushi Mineshige · Tetsuo Yazawa · (National Institute of Advanced Industrial Science and Technology) Tomoyo Ochiishi · Tetsuro Jun
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(Nagoya Institute of Technology) ○Hiroaki Ichioka · (Shimane University) Hidetoshi Miyazaki · (Shizuoka University) Hisao Suzuki · (Nagoya Institute of Technology) Toshitaka Ota · Koichiro Fukuda · Toru Asaka
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(Nagoya Institute of Technology) ○Hiroaki Ichioka · (Toyohashi University of Technology) Shohei Furuya · Hiromi Nakano · (Nagoya Institute of Technology) Toru Asaka · Koichiro Fukuda
- 1P063 Thermo- and photo-stimulated luminescence properties of Eu^{2+} -doped SiO_2 glass
(Tohoku University) ○Yutaka Fujimoto · Masanori Koshimizu · Keisuke Asai · (Kyushu Institute of Technology) Takayuki Yanagida
- 1P064 Preparation of Nd^{3+} , Cr^{3+} co-doped LaGaO_3 single crystals for efficient solar pumped lasers
(Toyota Technological Institute) ○Seina Nakamura · Takenobu Suzuki · Yasutake Ohishi
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(Toyohashi University of Technology) Shiho Suehiro · ○Shohei Furuya · Hiromi Nakano · (KRI, Inc.) Hiroyuki Hayashi
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(University of Hyogo) ○Ryota Hida · Atsushi Mineshige · Tetsuo Yazawa
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(Muroran Institute of Technology) ○Yuya Yamamoto · Naoya Sawaguchi · Makoto Sasaki
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(Nagaoka University of Technology) ○Takuya Obigane · Kenji Shinozaki · Tsuyoshi Honma · Takayuki Komatsu
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(Tohoku University) ○Yohei Takeda · Hideki Kato · Makoto Kobayashi · Masato Kakihana
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(National Institute of Technology, Niihama College) ○Susumu Nakayama · (Yamagata University) Masatomi Sakamoto
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(National Institute of Technology, Niihama College) ○Susumu Nakayama · (Yamagata University) Masatomi Sakamoto
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(National Institute of Technology, Suzuka College) ○Mikiya Furukawa · Noriyuki Wada · (Ritsumeikan University) Kazuo Kojima
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(Kanagawa Academy of Science and Technology) ○Takuma Takahashi · (Yokohama National University) Yuki Sano · Junichi Tatami · Motoyuki Iijima · (Kanagawa Industrial Technology Center) Masahiro Yokouchi
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(Yamagata University) Tomoki Satoh · ○Yuta Matsushima
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(Tohoku University) ○Hironori Tanaka · Yutaka Fujimoto · Masanori Koshimizu · Keisuke Asai ·
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(Nagaoka University of Technology) ○Tadashi Yamaguchi · (Gifu National College of Technology) Satoshi Motozuka ·
(National Institute for Materials Science) Kota Shiba · (Hiroshima University) Zheng Xu ·
(Nagaoka University of Technology) Yuichi Otsuka · Kiyoshi Ohnuma · Motohiro Tagaya
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(Nagaoka University of Technology) ○Tadashi Yamaguchi · Tkaomi Kobayashi · Motohiro Tagaya
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(Chubu University · National Institute of Advanced Industrial Science and Technology) ○Toshio Nagasaki ·
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(Mie University) ○Ryouichi Hikosaka · Kazuma Nakanishi · Masahiro Tomita ·
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- 1P096 Protein adsorption behavior of magnesium ion-doped tobermorite
(Nagoya Institute of Technology) ○Takayuki Ishikawa · Hirotaka Maeda · Toshihiro Kasuga ·
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- 1P097 One-pot synthesis of calcium phosphate spheres encapsulating magnetite nanoparticles by pulsed laser melting in liquid
(National Institute of Advanced Industrial Science and Technology) ○Maki Nakamura · Ayako Oyane ·
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(Chiba Institute of Technology) ○Yoshinobu Iizuka · (Chiba Institute of Technology · Tokyo University of Science) Hirobumi Shibata ·
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(Kinki University) ○Takayuki Makino · Naoki Fujita · Takaya Inagaki · Yasuhiro Sakoishi · Katuya Asano · Masanobu Kusunoki
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(The University of Tokyo) Tsuguyuki Saitou · Akira Isogai · (Sophia University) Kiyoshi Itatani
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(Tokyo Institute of Technology) ○Ryota Murai · Jeffrey S. Cross · Tomoaki Sugiyama · Toshiyuki Ikoma · Junzo Tanaka
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(Tokyo Institute of Technology) ○Ryo Matsudo · Eri Takematsu · Ken-ichi Katsumata · Toshiyuki Ikoma · Junzo Tanaka ·
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(University of Tsukuba) ○Yuta Nakagoshi · Yoshikazu Suzuki
- 1P111 Synthetic process of zeolite from LCD panel glass
(Sharp Corporation) ○Masato Tsujiguchi · Keiji Takeda · Tadashi Kobashi · Yasuhiko Utsumi · Nobuaki Kakimori ·
(Osaka Prefecture University) Atsushi Nakahira

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(Tokyo Institute of Technology) ○Remi Tanimoto · (Tokyo University of Science, Yamaguchi) Munetoshi Sakai ·
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(Tokyo City University) ○Atsushi Ono · Hiromi Eba
- 1P119 Synthesis of large scorodite particles using ultrasound irradiation (Akita University) ○Yuya Kitamura · Hirokazu Okawa · Katsuyasu Sugawara
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(Waseda University) Yoshiyuki Sugawara
- 1P123 Synthesis of new Nb₂O₅-based materials by the hydrothermal treatment of a layered niobate K₄Nb₆O₁₇ · 3H₂O
(Waseda University) ○Wataru Shirae · (Waseda University · National Institute for Materials Science) Yusuke Ide ·
(Waseda University) Yoshiyuki Sugahara

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- 1P124 Microstructure of sintered Mg₂Si irradiated by fiber laser (Osaka Municipal Technical Research Institute) ○Junichi Tani · Hiroyasu Kido
- 1P125 Informatics-aided DFT Study on the Li ion Transport in Tavorite-type LiMTO₄F(M³⁺-T⁵⁺, M²⁺-T⁶⁺)
(Nagoya Institute of Technology) ○Mayumi Kimura · (Nagoya Institute of Technology · Kyoto University) Randy Jalem ·
(Nagoya Institute of Technology · Kyoto University · JST-PRESTO) Masanobu Nakayama · (Nagoya Institute of Technology) toshihiro Kasuga
- 1P126 Preparation of TiO₂ hollow spheres and application for dye-sensitized solar cells
(University of Tsukuba) ○Takayuki Okano · Yuji Okamoto · Yoshikazu Suzuki · (Osaka University) Hiroya Abe
- 1P127 Synthesis of LiMPO₄ crystals (M=Fe,Mn) using glass-crystal mixed powders and their electrochemical properties
(Nagaoka University of Technology) ○Takuya Togashi · Tatsuya Nakamaru · Kenzi Shinozaki · Tsuyoshi Honma · Takayuki Komatsu
- 1P128 Crystal Growth and Study of Thermoelectric Properties of YB₄₈:YB₁₂ Crystal
(University of Yamanashi) ○Md Anwar Hossain · Isao Tanaka · (National Institute for Material Science) Tanaka Takaho · Mori Takao
- 1P129 Preparation of Composite Positive Electrode Sheet using Fine Solid Electrolyte and Their Application to All-Solid-State Lithium Secondary Batteries
(Osaka Municipal Technical Research Institute) ○Masanari Takajashi · Mari Yamamoto · Yasuyuki Kobayashi · Shingo Ikeda ·
(National Institute of Advanced Industrial Science and Technology (AIST)) Atsushi Sakuda

Process of powder

- 1P130 Suitable Conditions for Fabrication of Composite Positive Electrode Sheet and All-Solid-State Battery
(Osaka Municipal Technical Research Institute) ○Mari Yamamoto · Masanari Takahashi · Yasuyuki Kobayashi · Shingo Ikeda ·
(National Institute of Advanced Industrial Science and Technology (AIST)) Astushi Sakuda

Energy reference material

- 1P131 Influence of Surface Property of LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ on Electrode Performance in All-Solid-State Lithium Secondary Batteries
(National Institute of Advanced Industrial Science and Technology) ○Atsushi Sakuda · Tomoanari Takeuchi · Hironori Kobayashi ·
(Institute of Physical and Chemical Research (RIKEN)) Aiko Nakao
- 1P132 Electrical conductivity and crystal structure of Ba₂(Fe_{1-x}In_x)₂O₅ at high temperature
(Kochi University) ○Fumito Fujishiro · (Nihon University) Takuya Hashimoto
- 1P133 Growth of Strontium Hexaboride Thin Films with MBE
(National Institute for Materials Science) ○Tommi Tynell · Takashi Aizawa · Isao Ohkubo · Takao Mori
- 1P134 Fabrication and charge/discharge characteristics evaluation of iron/air battery using iron oxide film with fine structure
(Toyohashi University of Technology) ○Tsubasa Suzuki · Go Kawamura · Hiroyuki Muto · Atsunori Matsuda ·
(Kobe Steel, Ltd) Naotoshi Sakamoto · Kazushi Hayashi
- 1P135 SPS Synthesis and thermoelectric properties of Y-B-Si compounds and Ga-Zn oxide
(National Institute for Materials Science · University of Tsukuba) ○Hitoshi Nishijima · (National Institute for Materials Science) Yuichi Michiue ·
(University of Tsukuba) Yoshikazu Suzuki · (National Institute for Materials Science · University of Tsukuba) Takao Mori
- 1P136 The Thermoelectric Properties of MgFe₂O₄ Synthesized by Spark Plasma Sintering
(National Institute for Materials Science · University of Tsukuba) ○Ryosuke Maki · (National Institute for Materials Science) Seiji Mitani ·
(National Institute for Materials Science · University of Tsukuba) Takao Mori
- 1P137 Preparation and characterization of sodium ion conducting Na₃PS₄ electrolyte using N-methylformamide solvent
(Osaka Prefecture University) ○So Yubuchi · (Osaka Prefecture University · Kyoto University ESICB) Akitoshi Hayashi ·
(Osaka Prefecture University) Masahiro Tatsumisago
- 1P138 Fabrication of oriented films with apatite-type lanthanum silicate by isothermal heating of the layered ones
(Hyogo Prefectural Institute of Technology) ○Mitumasa Sakao · Tsuguo Ishihara · Hideki Yoshioka

- 1P139 Synthesis of sodium ion secondary battery cathode material with iron phosphate glass
(Nagaoka University of Technology) ○Satoshi Nakata · Kenji Shinozaki · Tsuyoshi Honma · Takayuki Komatsu
- 1P140 Crystal structure of cubic SnS metastable phase
(The University of Yamanashi) ○Yuki Iguchi · Hiroshi Yanagi · (National Institute of Technology, Toyama College) Masao Kita
- 1P141 Investigation of polarization mechanism of oxyhydroxyapatite ceramic electrets
(Tokyo University of Science) ○Youhei Shigemoto · Makito Nakagawa · Yumi Tanaka
- 1P142 The structural stability and electrical conductivity of perovskite-type $\text{Sr}_{1-x}\text{Ti}_x\text{M}_x\text{O}_3$ (M=Nb, Ta)
(The University of Tokushima) ○Yutaro Nomura · Hiroki Ishikawa · Masaki Hujikawa · Keichiro Murai · Toshihiro Moriga ·
(Central Research Institute of Electric Power Industry) Masashi Mori
- 1P143 Synthesis and thermoelectric characterization of nonstoichiometric LaCoO_3
(The University of Tokushima) ○Masaru Takahashi · Ken Nagai · Kei-ichiro Murai · Toshihiro Moriga
- 1P144 Thermal reaction of spinel $\text{Li}(\text{Ti},\text{Ni},\text{Mn})_2\text{O}_4$ by solid state reaction (The University of Toyama) ○Naoto Horata · Takashi Hashizume · Atsushi Saiki
- 1P145 Magnetic and Electric Properties of Nd, Ni doped BiFeO_3 bulk ceramics
(Nagoya Institute of Technology) ○Toshiki Sawamura · Takeshi Yokota · Izuna Tsuboi · Manabu Gomi ·
(University of Erlangen-Nurnberg) Miroslaw Batentschuk · Christoph J. Brabec
- 1P146S Hydrogen production method using FeOOH
(Tokyo Institute of Technology) ○Tetsuya Yamada · Ken-ichi Katsumata · Nobuhiro Matsushita · Kiyoshi Okada
- 1P147 Fabrication of $\text{LiCoO}_2\text{-Li}_2\text{CO}_3\text{-Li}_3\text{BO}_3$ Composite Electrodes by using Glass-flux
(Shinshu University) ○Tatsuya Miyakoshi · (Shinshu University · JST-CREST) Nobuyuki Zettsu · Katsuya Teshima ·
(Shinshu University) Shuji Oishi
- 1P148 First-Principles Molecular Dynamics Study on Deposition Behavior of oxide in a Li-Air Battery
(Kogakuin University) ○Wataru Yamamoto · Hiromitsu Takaba
- Others**
- 1P149 Crystallization behavior of $\text{MoO}_3\text{-WO}_3\text{-La}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses
(Nagaoka University of Technology) ○Lyubomir Aleksandrov · Takayuki Komatsu · Kenji Shinozaki · Tsuyoshi Honma ·
(Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences) Reni Iordanova
- 1P150 Attempted Synthesis of $\text{Sr}_x\text{TaO}_{1+x}\text{N}$
(The University of Tokushima) ○Takanori Hayashi · Kento Shimizu · Minami Omune ·
Narendra Girish Sarda · Kei-ichiro Murai · Toshihiro Moriga
- 1P151 Syntheses and properties of AlMgB_{14} and AlMgB_{22} crystals
(Kokushikan University) ○Shigeru Okada · Takashi Yamasaki · (Tohoku University) Toetsu Shishido · Kunio Yubuta ·
Akiko Nomura · (NIMS) Takao Mori
- Liquid phase process**
- 1P152 Preparation of porous ITO thin film by liquid phase process (University of Hyogo) ○Yusuke Haga · Atsushi Mineshige · Tetsuo Yazawa
- 1P153 Simplified synthesis of titanium phosphate nanoparticles using mixed PTA and H_3PO_4 aqueous solutions
(Saga University) Hiroki Sueyasu · ○Tatsuya Ayabe · Toshio Torikai · Takanori Watari · Mitsunori Yada
- 1P154 Synthesis of LaTaON_2 derived from oxide precursor using hydrothermal method and evaluation of photocatalytic activity
(Meiji University) ○Mai Takasaki · Chihiro Izawa · Kazuhisa Kishida · Tomoaki Watanabe
- 1P155 Study for synthesis condition of Pr^{3+} -doped CaTiO_3 red phosphor by hydrothermal method
(Tokyo Gakugei University) ○Yuji Tanaka · Tomomi Kosaka
- 1P156 Preparation of new Bi based simple and double perovskite-type superconductors by hydrothermal reaction
(University of Yamanashi) ○Mirza Humaun Kabir Rubel · Takahiro Takei · Nobuhiro Kumada · (Hokkaido University) Akira Miura ·
(Tokyo Institute of Technology) Masaki Azuma · (Hiroshima University) Eisuke Magomae · Chikako Moriyoshi · Yoshihiro Kuroiwa
- 1P157 Preparation of the hardcoating glass film based on $\text{SiO}_2/\text{ZrO}_2$ system (University of Hyogo) ○Wataru Kagawa · Atsushi Mineshige · Tetsuo Yazawa
- 1P158 Fabrication of ZnO Films via Oriented Precursor Films Prepared by CBD Method and Their Application to Dye-Sensitized Solar Cells
(Keio University) ○Hisasuke Kajihara · Manabu Hagiwara · Shinobu Fujihara
- 1P159 Hydrothermal synthesis of zinc oxide powders using zinc hydroxide as precursor (Hosei University) ○Sayaka Ishii · Takamasu Ishigaki
- 1P160 Effects of heat treatment conditions of SiO_2 thin films prepared by PVP-assisted sol-gel method
(Kansai University) Hiromitsu Kozuka · ○Yutaka Emi · Hiroaki Uchiyama
- 1P161 One-step synthesis of layered aluminophosphates with bulky interlayer cations (Gifu University) ○Shota Iriyama · Takayuki Ban · Yutaka Ohya
- 1P162 Preparation in liquid phase and characterization of $\text{Li}_2\text{S-P}_2\text{S}_5$ solid electrolytes
(Toyoashi University of Technology) ○Kei Morikawa · Nguyen Huu Huy Phuc · Go Kawamura · Hiroyuki Muto · Atsunori Matsuda
- 1P163 Targeting of Specific Cell using Fluorescent Titanate Nanosheets
(Nagasaki University) ○Motoko Tokunaga · Kai Kamada · (Saga University) Nobuaki Soh
- 1P164 Visible-light-induced Enzymatic Reaction of Peroxidase Bound to Layered Iron-titanate
(Nagasaki University) ○Daiki Ito · Kai Kamada · (Saga University) Nobuaki Soh
- 1P165 Preparation of preferentially oriented yttrium aluminum garnet thin films by using sapphire as reactive substrates
(Toyota Technological Institute) ○Shuichi Arakawa · (Toyota Central R&D Labs) Hiroaki Kadoura ·
Takeshi Uyama · Kazumasa Takatori · Toshihiko Tani
- 1P166 Effect of the addition of carbon fiber on the preparation of oxide particles from homogeneous solutions
(Waseda University) ○Yasuko Iizuka · Minoru Sohmiya · Makoto Ogawa · (Shinshu University) Tomohiko Okada ·
(Waseda University) Yoshiyuki Sugahara
- 1P167 Preparation of hollow spheres derived from Resorcinol-Formaldehyde resin-nanoporous silica core-shell particles
(Waseda University) ○Yuma Kawamoto · Minoru Sohmiya · Makoto Ogawa · (Shinshu University) Tomohiko Okada ·
(Waseda University) Yoshiyuki Sugahara
- 1P168 Fabrication of YSZ thin film by electrochemical deposition method with the pulsed electrical fields
(University of Toyama) ○Tadashi Fujita · Takashi Hashizume · Atsushi Saiki

Vapor phase process

- 1P169 Gallium-zinc oxynitride nanowires prepared from ZnGa₂O₄
(Hokkaido University) ○Yuji Masubuchi · Atsuo Kamura · Teruki Motohashi · Shinichi Kikkawa

Process of powder

- 1P170 Synthesis of BaTi₂O₅ Ceramics by Hot Pressing and their Electrical Properties
(The National Defense Academy) Yuuki Yamazaki · ○Keisuke Ishii · Shinjiro Tashiro
- 1P171 Formation of secondary phases due to discharge during flash-sintering in BaTiO₃
(Nagoya University) ○Akinori Uehashi · Katsuhiko Sasaki · Tomoharu Tokunaga · Takahisa Yamamoto ·
(National Institute for Materials Science) Hidehiro Yoshida
- 1P172 A suggestion of novel implementation process for Spray Drying process by real time particle analytical method
(PRECI Co. Ltd.) ○Shinya Kawaguchi · Hayato Kato · (Malvern Instruments, Div of Spectris Co. Ltd.)
Fumiaki Sato · Yuki-yoshi Hiramura · Daisuke Sasakura
- 1P173 Evaluation of a real time monitoring for the spray dry process by powder rehomometry and in-situ particle size analyzer
(Div of Spectris Co. Ltd.) ○Fumiaki Sato · Yuki-yoshi Hiramura · Daisuke Sasakura ·
(Preci Co. Ltd.) Shinya Kawaguchi · Hayato Kato
- 1P174 Flux Growth of Zn-, Y-, Cd-, and Nd-Containing Early Transition-Metal Oxide Crystals and Their Phase Transformation under a High-Temperature Reductive Atmosphere
(Shinshu University) ○Mirabbos Hojamberdiev · Hajime Wagata · Shuji Oishi · Katsuya Teshima
- 1P175 Fabrication of high-oriented LiFePO₄ crystals layers using chloride flux method
(Shinshu University) ○Tetsuya Yamada · Nobuyuki Handa · (Shinshu university · JST CREST) Nobuyuki Zettsu ·
Katsuya Teshima · (Shinshu university) Shuji Oishi
- 1P176 The synthesis of needle-like strontium fluoroapatite by hydrothermal method and its oriented sintering
(Meiji University) ○Akihiro Ishida · (Toyota Central R&D Labs., Inc.) Akitoshi Suzumura ·
Shigeo Hori · Toshihiko Tani · (Meiji University) Mamoru Aizawa
- 1P177 Effects of molecular weights of polyethyleneimine/oleic acid complexes on the rheological properties of silicon nitride/toluene suspensions
(Yokohama National University) ○Naoki Okamura · Motoyuki Iijima · Junichi Tatami
- 1P178 Fabrication of porous substrates for thin film solid oxide fuel cell by direct foaming method
(Tokyo Institute of Technology) ○Hiroshi Kobayashi · Osamu Sakurai · Akio Nishiyama · Jeffrey S. Cross ·
Tadashi Shiota · Kazuo Shinozaki · (The University of Shizuoka) Naoki Wakiya

Others

- 1P179 Solving disordered crystal structures of Ca₄[Al₆O₁₂]SO₄ and Sr₄[Al₆O₁₂]SO₄ by high-temperature X-ray powder diffraction method
(Nagoya Institute of Technology) ○Hiroki Banno · Hirotaka Katsukura · Seiya Takeda · Toru Asaka · Koichiro Fukuda
- 1P180 Improved oxide-ion conductivity of NdBaInO₄ by Sr doping
(Tokyo Institute of Technology) ○Kotaro Fujii · Masahiro Shiraiwa · Yuichi Esaki · Masatomo Yashima
- 1P181 Discovery of a New Oxide-Ion Conductor SrYbInO₄ (Tokyo Institute of Technology) ○Ayaka Fujimoto · Kotaro Fujii · Masatomo Yashima
- 1P182 Crystal Structure and Electrical Property of a New Electronic Conductor BaY_{0.913}In_{0.989}O_{3.806}
(Tokyo Institute of Technology) ○Chihiro Saito · Kotaro Fujii · Masahiro Shiraiwa · Masatomo Yashima
- 1P183 Application of super high resolution X-ray detector on EDXRF analysis to the valence state analysis of cation in the electrode active material
(Hitachi High-Tech Science Corporation · JST-CREST) ○Masataka Ohgaki · Keiichi Tanaka · (Kyushu University) Syo Matsumura ·
(The University of Tokyo · JST-CREST) Shinya Suzuki · Masaru Miyayama
- 1P184 Synthesis of novel 3d transition metal (Fe, Co, Ni) nitrides using supercritical nitrogen fluid
(Nagoya University) ○Toshiki Terabe · Ken Niwa · Yuichi Shirako · Masashi Hasegawa · (KEK) Takumi Kikegawa
- 1P185 Cell Differential Effect of Nanosheet Surface Structure on Titanium Alloy
(Osaka Dental University) ○Satoshi Komasa · Hiroshi Nishizaki · Joji Okazaki
- 1P186 Synthesis and Crystal Structure Analysis of a New Oxide Ion Conductor LaBa₂Ga₁₁O₂₀
(Tokyo Institute of Technology) ○Shuntaro Yamada · Kotaro Fujii · Masatomo Yashima
- 1P187 Crystal Structure Analysis and Electronic Physical Properties of Pyrite-type ZnS₂
(Nagoya University) ○Takahiro Akita · Yuichi Shirako · Ken Niwa · Masashi Hasegawa · (NIMS) Yoshitaka Matsushita
- 1P188 Structural Origin of the Anisotropic Thermal Expansion of K₂NiF₄-Type Oxides
(Tokyo Institute of Technology) ○Keishi Kawamura · Masatomo Yashima · Kotaro Fujii
- 1P189 Surface modification of Titanium Oxide Nanotubes with polyethylene glycol
(Osaka University) ○Hisataka Nishida · Tohru Sekino · (Osaka Dental University) Yoshitomo Honda
- 1P190 Development of accident tolerant core material for applying SiC/SiC composite
(Toshiba Corporation) ○Shoko Suyama · Masaru Ukai · Masayuki Uchihashi · Satoko Tajima · Hideaki Heki ·
Kazuo Kakiuchi · Kazunari Okonogi · (The University of Tokyo) Yutaka Kagawa

★★ March 19 (Thur) (Room A) ★★

Glass and photonic materials / ゴール-ゲル法 (チタニア膜)

- (9 : 00) (Chairman 村井俊介)
- 2A01 Fundamental study on the properties of alkoxide-derived metal oxide gel films
(Kansai University) ○Shintaro Sumida · Hiromitsu Kozuka · Hiroaki Uchiyama
- 2A02 Residual stress of TiO₂ ceramic thin films deposited on Si(100) substrates by sol-gel method: Effect of the exposure of gel films to water vapor
(Kansai University) Hiromitsu Kozuka · ○Sosuke Kitano · Hiroaki Uchiyama
- (9 : 30) (Chairman 河村剛)
- 2A03 Effect of the heating rate on the crystallization of TiO₂ thin films prepared by sol-gel method
(Kansai University) Hiroaki Uchiyama · ○Syota Mizuguchi · Hiromitsu Kozuka
- 2A04 Effect of the amount of HNO₃ and H₂O on the crystallization of TiO₂ films prepared by sol-gel method
(Kansai University) Hiroaki Uchiyama · ○Takahiro Bando · Hiromitsu Kozuka

Glass and photonic materials / ゼル-ゲル法 (シリカ膜)

(10 : 00) (Chairman 内山弘章)

- 2A05 Synthesis of silica films by a cosolvent-free method from a TEOS-water binary system
(Tokyo Metropolitan University) ○Keiichi Hiruta · Koichi Kajihara · Kiyoshi Kanamura
- 2A06 Preparation and evaluation of phosphosilicate glass with a designed local molecular structure
(Osaka Prefecture University) ○Takuya Furukane · Yasuaki Tokudome · Masahide Takahashi

Glass and photonic materials / ナノ構造・形態制御

(10 : 30) (Chairman 岩本雄二)

- 2A07 Fabrication of metallic meso-grating structures using mesoporous silica
(Kyoto University) ○Shiguma Uno · (Kyoto University · JST-PRESTO) Shunsuke Murai · (Kyoto University) Koji Fujita · Katsuhisa Tanaka
- 2A08 Synthesis and Properties of Patterned Sliver Niobate Films
(Kinki University) ○Naoki Noma · Shiho Yamada
- 2A09 Synthesis of SiO₂ nanofibers using TEMPO oxidized cellulose nanofibers templates
(Kyoto University) ○Shunsuke Gunji · Yasuhiko Shimotsuma · Kiyotaka Miura

Glass and photonic materials / 受賞講演

(11 : 15) (Chairman 梶原浩一)

- 2A10A **[The 69th CerSJ Awards]** Creation of Multiple Optical Functions Based on Structural Control of Inorganic Luminescent Materials
(Keio University) ○Shinobu Fujihara

Education / 授業改善

(12 : 00) (Chairman 木枝暢夫)

- 2A13 Manufacturing Practice with Design and Propose by Students
(University of Yamanashi) ○Isao Tanaka · Takahiro Takei · Satoshi Watauchi · Yoshinori Yonesaki · Masanori Nagao · Nobuhiro Kumada
- 2A14 Computer exercises using computer programs VESTA and RIETAN-FP in the "Structural analytics" class, part II
(Ryukoku University) ○Tatsuya Shirakami · (National Institute of Advanced Industrial Science and Technology) Katsuhiko Nomura

Education / 普及・啓発

(12 : 30) (Chairman 木枝暢夫)

- 2A15 Introduction of *Nihon-no Yakimono* (the Japanese ceramic ware) homepage and the current status
(Okayama University) ○Yoshikazu Kameshima · (Ceramic Society of Japan) Minako Yamaguchi · Satoru Shimura · (Senshu University) Kazunori Mizukami · (Non) Nozomu Otsuka
- 2A16 Mobile Classroom Laboratory in China and Japan: Aiming at Glocal (global + local) Action
(Okayama University) ○Yuri Nakamura · Yukiko Kurimoto · Yoshihisa Kogo · Akiyoshi Osaka · Toshiisa Konishi · Takayuki Kudoh · Tomohiko Yoshioka · Ichiro Hayakawa · Akira Sakakura · Satoshi Hayakawa · Eiji Tomita · Chiharu Obata · (Zhejiang University of Technology) Fan Xiao · Shenglei Che
- (13 : 00) (Chairman 田中功)
- 2A17 Experience-based learning of magnetic field for high school student
(National Institute for Materials Science) ○Tohru Suzuki · Tetsuo Uchikoshi · Chika Matsunaga
- 2A18 Artificial Synthesis of Photochromic Hackmanite
(Kanagawa Institute of Technology) ○Minoru Takemoto
- 2A19 Preparation of colored glassy materials as an experience of a ceramic process for high school and junior-high students
(Shonan Institute of Technology) ○Nobuo Kieda

Glass and photonic materials / 企業フロンティア

(14 : 45) (Chairman 矢野哲司)

- 2A24F **[Frontiers]** Evaluation technology on glass melting process
(Nippon Electric Glass Co., Ltd.) ○Masataka Kawaguchi

Glass and photonic materials / 強度・クラック伝搬

(15 : 15) (Chairman 菅原透)

- 2A26 Estimation of Stress Values Generated by Propagating Cracks
(GMS Laboratory · Teikyo University) ○Shin'ichi Aratani
- 2A27 Al₂O₃-Ta₂O₅ glass with high elastic moduli prepared by containerless processing
(The University of Tokyo) ○Gustavo Rosales · Atsunobu Masuno · Hiroyuki Inoue · Katsuyoshi Kato · Takumi Umada · Kohei Okamura · Yasuhiro Watanabe · Yutaka Yanaba · (Japan Synchrotron Radiation Research Institute) Yuji Higo

Glass and photonic materials / 結晶化ガラス

(16 : 00) (Chairman 西井準治)

- 2A29 Fabrication and assessment of glass-ceramics with rare-earth doped tetragonal tungsten bronze structure-type nanocrystals
(Nagaoka University of Technology) ○Shinya Hasegawa · Kenji Shinozaki · Tuiyoshi Honma · Takayuki Komatsu
- 2A30 Magnesium reduction of porous silica glass and search of reaction products
(Kyoto Institute of Technology) ○Kenta Uehira · Arifumi Okada · Haruhisa Shiomi · Takashi Wakasugi · Kouhei Kadono
- 2A31 Modification of zirconia by Yb-fiber laser irradiation
(Osaka Municipal Technical Research Institute) ○Hiroyasu Kido · Masanari Takahashi · Jun-ichi Tani

Glass and photonic materials / プロトン・ナトリウムイオン伝導

(16 : 45) (Chairman 岸哲生)

- 2A32 Local proton implantation by utilizing a proton conducting glass
(Nagoya Institute of Technology) ○Satoshi Mizutani · Yusuke Daiko · Sawao Honda · Yuji Iwamoto
- 2A33 Evaluation of proton conductivities of Na⁺-H⁺ substituted Na₂O-La₂O₃-P₂O₅-GeO₂ glasses
(Hokkaido University) ○Takuya Kinoshita · Keiga Kawaguchi · Atsushi Miyazaki · Hideo Kaiju · Junji Nishii · (Osaka University) Takuya Yamaguchi · Takahisa Omata
- 2A34 Synthesis and evaluation of iron silicate-based cathode of sodium battery prepared by melt quenching method
(Nagaoka University of Technology) ○Peng Ji · Kenji Shinozaki · Tsuyoshi Honma · Takayuki Komatsu

Glass and photonic materials / 電界イオン移動

(17 : 30) (Chairman 本間剛)

- 2A35 The Analysis of Composition Distribution at the Glass Surface by Cryo-TEM-EDS
(Asahi Glass Co., Ltd.) ○Sadatatsu Ikeda · Keiichiro Uraji · Toshio Suzuki · Kiyoshi Yamamoto · (Hokkaido University) Junji Nishii
- 2A36 Fabrication of thin layer in photosensitive glass by field-assisted ion exchange method
(Tokyo Institute of Technology) ○Tetsuo Kishi · Tsugumu Fujii · Tetsuji Yano

★★ March 19 (Thur) (Room B) ★★**Glass and photonic materials / 進歩賞講演**

(9 : 15) (Chairman 小松高行)

- 2B02A [The 69th CerSJ Awards] Fabrication of novel rare-earth glass ceramics and nano crystals with remarkable photo-functionality
(Hokkaido university) ○Takayuki Nakanishi

Glass and photonic materials / 赤色蛍光体

(9 : 45) (Chairman 早川知克)

- 2B04 Luminescence properties of new layered mixed-anion compounds $Ba_2RE_2F_2O_5$
(The University of Tokyo) ○Makoto Tatsuda · Hiraku Ogino · (Kyushu Institute of Technology) Takayuki Yanagida ·
(The University of Tokyo) Jun-ichi Shimoyama · Kohji Kishio
- 2B05 Synthesis and luminescence properties of $Sr_3SiO_5:Eu^{3+}$ red phosphor
(The University of Saga) ○Hikaru Kitahara · Takanori Watari · Mitunori Yada · Toshio Torikai
- 2B06 Improvement of photoluminescence properties of citrate-modified $YVO_4:Bi^{3+}:Eu^{3+}$ nanophosphor by annealing
(Keio University) ○Yoshiki Iso · Satoru Takeshita · Tetsuhiko Isobe
- (10 : 30) (Chairman 中西貴之)
- 2B07 Influences of heating temperature on liquid phase synthesis of hexagonal plateletlike $ZnO:Eu^{3+}$ crystals
(Nagoya Institute of Technology) ○Jiarui Wu · Tomokatsu Hayakawa
- 2B08 Photoluminescence and energy transfer properties of Gd^{3+}, Eu^{3+} codoped ZrO_2-SiO_2 nanometric glass-ceramics
(Nagoya Institute of Technology) ○Masayuki Tanaka · Tomokatsu Hayakawa · (Limoges University) J.R. Duclere · A. Lecomte
- 2B09 Synthesis of a novel compound in a Sr-Si-O-N system and Photoluminescence property of Eu^{2+} -activated
(Tohoku University) ○Hironori Sato · Jihae Kim · Hideki Kato · Makoto Kobayashi · (Tokyo Institute of Technology) Kotaro Fujii ·
Masatomo Yashima · (Okayama University of Science) Yasushi Sato · (Tohoku University) Masato Kakihana

Glass and photonic materials / 青色・黄色蛍光体

(15 : 15) (Chairman 井上幸司)

- 2B26 Synthesis and characterization of blue phosphate phosphor, $Na_3Sc_2(PO_4)_3 : Eu^{2+}$
(Tottori University) ○Tadashi Ishigaki · Koutoku Ohmi · (Niigata University) Hirofumi Kaneko · Ibuki Chiba ·
Kazuyoshi Uematsu · Kenji Toda · Mineo Sato · (Japan Synchrotron Radiation Research Institute) Tetsuo Honma
- 2B27 Relationship between sintering temperature and crystal structure in high-pressure phase of blue $SrO:Eu$ phosphor
(Nagaoka University Tech.) ○Keiji Komatsu · (Nagaoka University Tech. · Chubu Chelest Co., Ltd.) Atsushi Nakamura ·
(Nagaoka University Tech.) Shigeo Ohshio · Hidetoshi Saitho
- 2B28 Tailoring of luminescence of a $\beta-Ca_3(PO_4)_2:Eu^{2+}$ phosphor via crystal site engineering
(Tohoku University) ○Hiroki Kuwahara · Hideki Kato · Masato Kobayashi · Masato Kakihana
- 2B29 Synthesis and characterization of β -SiAlON phosphors by the polymer precursor method
(Nagoya Institute of Technology) ○Ryo Iwasaki · Yuichiro Murata · Yohei Shimokawa · Yusuke Daiko · Sawao Honda · Yuji Iwamoto

Glass and photonic materials / 希土類フリー蛍光体

(16 : 30) (Chairman 松嶋雄太)

- 2B31 Luminescent Property of the Cation doped ZnO (s.s.) Thin Films
(Mie Industrial Research Institute) ○Koji Inoue
- 2B32 Relationship between blue luminescence and distortion of octahedral cage in alunite
(Salesian Polytechnic) ○Yuichiro Kuroki · Yuhi Hishiyama · Yuta Yagi · (Nagaoka University of Technology)
Tomoichiro Okamoto · (JFCC) Masasuke Takata
- (17 : 00) (Chairman 小林亮)
- 2B33 Preparation of Ag exchanged Na-P1 type zeolites and their photoluminescence properties
(Ehime University) ○Keisuke Kanayama · Erni Johan · Naoto Matsue · Yoshiteru Itagaki · Hiromichi Aono
- 2B34 Preparation of Ag-X zeolites for application of fluorescent material and influence of coexistence cations on fluorescence behavior
(Ehime University) ○Yohei Yamauchi · Erni Johan · Naoto Matsue · Yoshiteru Itagaki · Hiromichi Aono
- 2B35S Investigation on the luminescent mechanism of vanadate phosphors based on crystal structural approach
(Yamagata University) Akane Satoh · ○Yuta Matsushima

★★ March 19 (Thur) (Room C) ★★**Engineering ceramics / 粉体・ナノ素材**

(9 : 00) (Chairman 田中諭)

- 2C01 Surface modification of titania nanotubes by peptides that bind electrostatically to titania particles
(Nagaoka University of Technology) ○Wataru Satoh · Tadachika Nakayama · Hisayuki Suematsu · Tsuneo Suzuki · Koichi Niihara
- 2C02 Organic-inorganic hybrid aerogels reinforced with nanofibers
(Kyoto University) ○Gen Hayase · Kazuya Nonomura · Kazuyoshi Kanamori · Kazuki Nakanishi
- 2C03 Research on activity of nano-composite powder composed of silica and carbon and its application on SiC deposition process
(Waseda University) ○Li Ding · Norihiro Murakawa · Kohei Tatsumi
- 2C04 Optical transparency and electrical conductivity of carbon nanofiber dispersed glass composites controlled by percolation path
(Tokyo Institute of Technology) ○Yuki Takiguchi · Takasi Akatsu · Yutaka Shinoda · Fumihiko Wakai

Engineering ceramics / 粉体・構造化

(10 : 00) (Chairman 篠田豊)

- 2C05 Making of granules under an optical microscope (Nagaoka University of Technology) ○Zenji Kato · Satoshi Tanaka
2C07 Continuous three-dimensional observation of coarse defects in ceramics derived from granules with organic binder (Nagaoka University of Technology) ○Tsuyoshi Honda · Zenji Kato · Satoshi Tanaka
2C08 Evaluation of particle sedimentation in high concentrated slurry (Nagaoka University of Tehcnology) ○Yoshihiro Nagasawa · Zenji Kato · Satoshi Tanaka

Engineering ceramics / 粉体・成型

(11 : 00) (Chairman 中山忠親)

- 2C09 Pulsed Electric-Current Pressure Sintering of $ZrO_2(Y_2O_3)-Al_2O_3$ Solid Solution Powders Prepared by the Neutralization Co-precipitation Method (Doshisha University) ○Koki Sasai · Masaki Kato · Ken Hirota · (Okayama University) Hideki Taguchi · (DAIICHI KIGENSO KAGAKU KOGYO CO., LTD) Hideo Kimura · Masayuki Takai · Masao Terada
2C10 Hot pressing and mechanical properties of combustion synthesized Ca- α -SiAlON powder (Kanagawa Industrial Technology Center) ○Masahiro Yokouchi · Yousuke Ono · (Combustion Synthesis Co. Ltd.) Kazuto Harada · Isao Nakatugawa · Toshitaka Sakurai · Shigeru Nakada
2C11 Reaction sintering of NaB_3C bulk ceramics with ball milled raw powder (Tohoku University) ○Haruhiko Morito · Takuma Kimura · Hisanori Yamane

Engineering ceramics / 焼結 1

(14 : 45) (Chairman 堀田幹則)

- 2C24 Development of yttrium oxide material for the J-R type electrostatic chuck (TOTO LTD.) ○Takayuki Ide · Masami Ando
2C25 Fabrication of Eu doped $CaAlSiN_3$ ceramics by spark plasma sintering technique (Yokohama National University) ○Junichi Tatami · Kentaro Iwai · Motoyuki Iijima · (Kanagawa Academy of Science and Technology) Takuma Takahashi
2C26 Fabrication of ZrO_2-TiN Composites by Spark Plasma Sintering (National Institute for Materials Science) ○Byung-Nam Kim · Chunfeng Hu · Koji Morita · Hidehiro Yoshida · Yoshio Sakka · (Korea Institute of Materials Science) Young-Jo Park

Engineering ceramics / 焼結 2

(15 : 30) (Chairman 吉田克己)

- 2C27 Effects of SiC-coated diamond on densification and mechanical properties of diamond/SiC-SiO₂ prepared by SPS (Tohoku University) ○Mettaya Kitiwan · Hirokazu Katsui · Takashi Goto
2C28 Influence of Y₂O₃ addition on thermal-electrical properties of SiC ceramics (NIMS) ○Byung-Koog Jang · Toshiyuki Nishimura · (University of Seoul) Young-Wook Kim
2C29 Phase decomposition of Zr-Ti-C-N composites by spark plasma sintering and aging treatment (Tohoku University) ○Ying Li · Hirokazu Katsui · Takashi Goto

Engineering ceramics / 焼結 3

(16 : 15) (Chairman 伊藤曉彦)

- 2C30 Reactive Hot-Pressing and Mechanical Properties of ZrB_2-ZrC_x-Zr -Based Ceramics Composites with SiC Additives (National Institute for Materials Science) ○Shuqi Guo · (The University of Tokyo) Yutaka Kagawa
2C31 Grain-Growth Mechanism in Y-TZP doped with a small amount of Al₂O₃ during Grain Boundary Segregation-Induced Phase Transformation (Tosoh Corporation) ○Koji Matsui · (National Institute for Materials Science) Hidehiro Yoshida · (The University of Tokyo) Ikuhara Ikuhara
2C32 Preparation and properties of $Zr_2MoP_2O_{12}$ having negative thermal expansion (Tokyo Institute of Technology) ○Naoto Houtsuki · Toshihiro Isobe · Katsumi Yoshida · Sachiko Matsushita · Akira Nakajima

Engineering ceramics / 耐環境性

(17 : 00) (Chairman 北憲一郎)

- 2C33 Fabrication and characterization of YOF ceramics (Tokyo Institute of Technology) ○Katsumi Yoshida · Toru Tsunoura · Toyohiko Yano
2C34 Oxidation behavior of HfSi₂ with boron addition (Tokyo Institute of Technology) ○Toru Tsunoura · Yosuke Okubo · Katsumi Yoshida · Toyohiko Yano · (Japan Aerospace Exploration Agency) Toshio Ogasawara · Takuya Aoki
2C35 Oxidation resistance of SiC-based composites in a water vapor environment at high temperatures (National Institute for Materials Science) ○Kazuya Shimoda · Hideyuki Murakami · (Kyoto University) Tatsuya Hinoki
2C36 Degradation behavior of $3Al_2O_3 \cdot 2SiO_2/Si/RB-SiC$ EBC system after heat-exposure above melting point of Si (The University of Tokyo) ○Yutaro Arai · Hideki Kakisawa · Yutaka Kagawa

★★ March 19 (Thur) (Room D) ★★

Characterization / 窒化物

(9 : 30) (Chairman 谷口尚)

- 2D03 Synthesis of LiNbO₃-type oxynitride, MnTaO₃N at lower temperature (Tokai University) ○Tetsuhiro Katsumata · Ayana Tobe · Chizuru Ohba · Atsuishi Takeda · (Gakushuin University) Akihisa Aimi · Daisuke Mori · Yoshiyuki Inguma
2D04 Effect of manganese and silicon additives on the preparation of niobium oxynitrides (Hokkaido University) ○Yuji Masubuchi · Yuki Kitahara · Teruki Motohashi · Shinichi Kikkawa
2D05 High pressure synthesis of platinum group pernitrides and characterization of chemical bonding (Nagoya University) ○Ken Niwa · Kentaro Suzuki · Toshiki Terabe · Shunsuke Muto · Kazuyoshi Tatsumi · Tatsuya Mizui · Kazuo Soda · (High Energy Accelerator Research Organization) Takumi Kikegawa · (Nagoya University) Masashi Hasegawa

Characterization / 炭素系材料

(10 : 15) (Chairman 鱗淵友治)

- 2D06 A Novel Investigation of Crystallinity of The Carbon Material Particles for Li-Ion battery by A Statistical Raman Spectroscopic Method
(Malvern Instruments Japan, Div of Spectris Co. Ltd.) ○Daisuke Sasakura · Aiko Hayauchi
- 2D07 Effect of gas pressure on structures and optical constants of amorphous carbon film deposited by radio-frequency magnetron sputtering
(Nagaoka University of Technology) ○Satoru Arakawa · Yasuyuki Nakaya · Xiaolong Zhou · Sarayut Tunmee · Shigeo Ohshio · Keiji Komatsu · Hidetoshi Saitoh
- 2D08 Microstructure and Electronic Property of Diamond/Cubic Boron Nitride Interface
(Tohoku University) ○Chunlin Chen · Zhongchang Wang · Yuichi Ikuhara · (JFCC) Takeharu Kato · (The University of Tokyo) Naoya Shibata · (National Institute for Materials Science) Takashi Taniguchi

Characterization / 構造解析

(11 : 00) (Chairman 藤井考太郎)

- 2D09 Atomic-scale studies on the hausmannite twin boundary (Tohoku University) ○Liyang Lin · Zhongchang Wang · Chunlin Chen · Yuchi Ikuhara
- 2D10 Soft X-ray synchrotron radiation applied to surface chemical characterization of *a*-C:H films
(Nagaoka University Tech.) ○Sarayut Tunmee · Yasuyuki Nakaya · Satoru Arakawa · Shigeo Ohshio · Keiji Komatsu · Hidetoshi Saitoh · (SLRI) Hideki Nakajima · Ratchadaporn Supruangnet · (LASTI, University of Hyogo) Kazuhiro Kanda
- 2D11 STEM analysis of HfO₂ epitaxial thin film with coexistence orthorhombic and monoclinic structure
(The University of Tohoku) ○Shogo Nakamura · Cangyu Fan · Takanori Kiguchi · (Tokyo Institute of Technology) Kiriha Katayama · Takao Shimizu · Tatsuhiko Yokouchi · Takahisa Shiraishi · Takahiro Oikawa · Hiroshi Funakubo · (The University of Tohoku) Toyohiko Konno

Characterization / 新材料探索

(14 : 45) (Chairman 熊田伸弘)

- 2D24A **[The 69th CerSJ Awards]** Exploration of novel inorganic compounds using diffractometry and microscopy toward innovative functions
(Nagoya Institute of Technology) ○Koichiro Fukuda
- 2D26 Hydrothermal synthesis, structural analysis, and properties of novel Li-Te oxide
(Utsunomiya University) ○Muhammad Fakhrie bin Ibrahim · Yue-Jin Sen · Keitarou Tezuka
- (15 : 30) (Chairman 八島正知)
- 2D27 Crystal structure and superconductivity of Bi₄O₄S₃
(Hokkaido University) ○Akira Miura · (Tokyo Metropolitan University) Yoshikazu Mizuguchi · Tsuyoshi Sugawara · Mikio Higuchi · (University of Yamanashi) Takahiro Takei · Nobuhiro Kumada · (Hiroshima University) Eisuke Magome · Chikako Moriyoshi · Yoshihiro Kuroiwa · Osuke Miura · Kiyoharu Tadanaga
- 2D29 Synthesis and structural study of Pb containing oxyfluoride
(Chuo University) ○Kengo Oka · Katsuyoshi Oh-ishi

Characterization / 相転移

(16 : 15) (Chairman 八島正知)

- 2D30 1:3order-1:1order-disorder Transition of A-site for perovskite (*RE*_xMn_{1-x})(Fe_xTi_{1-x})O₃
(Nagoya University) ○Gen Shimura · Yuichi Shirako · Ken Niwa · Masashi Hasegawa
- 2D31 Pressure-induced phase transitions in Zn₂SiO₄
(Okayama University) ○Masami Kanzaki

Characterization / イオン伝導

(16 : 45) (Chairman 神崎正美)

- 2D32 Analysis on Ionic Conductivity in AgI using First Principles Calculation and Graph Theory
(Osaka City University) ○Ippei Kishida · Yoshiyuki Yokogawa
- 2D33 Crystal Structure Analysis and Electrical Property of a New Oxide-Ion Conductor SrYbInO₄
(Tokyo Institute of Technology) ○Ayaka Fujimoto · Kotaro Fujii · Masatomoto Yashima
- 2D34 Crystal Structure and Electrical Property of a New Electronic conductor, BaY_{0.913}In_{0.989}O_{3.806}
(Tokyo Institute of Technology) ○Chihiro Saito · Kotaro Fujii · Masahiro Shiraiwa · Masatomoto Yashima
- 2D35 Crystal Structure and Oxide Ion Conduction of a Novel Material LaBa₂Ga₁₁O₂₀
(Tokyo Institute of Technology) ○Shuntaro Yamada · Kotaro Fujii · Masatomoto Yashima

★★ March 19 (Thur) (Room E) ★★**Energy reference material / 燃料電池 (酸化物イオン伝導体)**

(9 : 45) (Chairman 鈴木俊男)

- 2E04 Performance improvement of Pt thin film electrode at intermediate temperature by controlling surface structure of YSZ electrolyte
(Tokyo Institute of Technology) ○Junichi Hamasaki · Kazuto Nagahara · Tadashi Shiota · Osamu Sakurai · Kazuo Shinozaki · (Shizuoka University) Naoki Wakiya
- 2E05 Enhancement of conductivity in ceria based ceramics under millimeter-wave irradiation heating
(Okayama University) ○Salmie Suhana Che Abdullah · Takashi Teranishi · Hidetaka Hayashi · Akira Kishimoto
- 2E06 Effect of co-doping Zn and Zr into In site of Ba₂In₂O₅ compound on the improvement of electrical conductivities in Ba₂In₂(Zn_{0.5}Zr_{0.5})_xO₅
(Tsuruoka National College of Technology) ○Shigeharu Ito · Takashi Morinaga · Takaya Sato · (National Institute for Materials Science) Toshiyuki Mori

Energy reference material / 燃料電池 (プロトン伝導体)

(10 : 30) (Chairman 藤代芳伸)

- 2E07 Proton conduction property of BaCe_{0.3}LaMO₃ (M=Sc, Y) oxide systems
(Kyushu University) ○Yoshitaka Miyachi · Young-Sung Lee · Leonard Kwati · Hiroshige Matsumoto
- (10 : 45) (Chairman 松本広重)
- 2E08 Effects of Gd_{0.1}Ce_{0.9}O_{1.95} addition on hydrogen permeation characteristics of BaCe_{0.8}Y_{0.2}O_{3-δ}
(Ehime University) ○Akinori Hiraoka · Yoshiteru Itagaki · Hiromichi Aono · Hidenori Yahiro
- 2E09 First principles calculations of proton trapping effect in trivalent-doped BaZrO₃ (JFCC) ○Akihide Kuwabara · Craig A. J. Fisher · Hiroki Moriwake

- 2E10 Alkali-proton substitution of $\text{NaO}_{1/2}\text{-CaO-LaO}_{3/2}\text{-GeO}_2\text{-PO}_{5/2}$ glasses and their ion conductivity
(Hokkaido University) ○Atsushi Miyazaki · Keiga Kawaguchi · Hideo Kaiju · Junji Nishii ·
(Osaka University) Takuya Yamaguchi · Takahisa Omata
- 2E11 Preparation and Characterization of fuel cell using the composites of Al-doped SnP_2O_7 and Pva
(Nagaoka University of Technology) ○Masaru Mukai · Tomoichiro Okamoto · (Salesian Polytechnic) Yuichiro Kuroki ·
(JFCC) Masasuke Takata

Energy reference material / 燃料電池 (電極材料)

- (14 : 45) (Chairman 岡元智一郎)
- 2E24 SOFC anode characteristic of strontium titanate-based oxides (Ehime University) ○Hideto Matsuo · Yoshiteru Itagaki · Hiromichi Aono
- 2E25 Characterization of Tubular Solid Oxide Fuel Cells with $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ Cathode
(Nagoya Institute of Technology) ○Takayuki Ohshiro · Masanobu Nakayama · (National Institute of
Advanced Industrial Science and Technology) Hirofumi Sumi · Yoshinobu Fujishiro
- 2E26 Fabrication of nanostructured Ni/ $\text{Gd}_{0.2}\text{Ce}_{0.8}\text{O}_{1.9}$ (GDC) anode for low temperature solid oxide fuel cells
(Gunma University) ○Kazuyoshi Sato · Manami Arai · (Osaka University) Takashi Murakami · Kazuo Kuruma · Hiroya Abe
- 2E27 Properties of LSCF- Pr_2CuO_4 composite cathodes for IT-SOFC
(Okayama University) ○Hiromi Nagae · Shunsuke Nishimoto · Yoshikazu Kameshima · Michihiro Miyake

Energy reference material / 燃料電池 (実用化)

- (15 : 45) (Chairman 青野宏通)
- 2E28 Synthesis of SOFC gas sealing materials in the $\text{Li}_2\text{WO}_4\text{-Li}_2\text{W}_2\text{O}_7$ system (Shizuoka University) ○Ayumi Hamada · F. Sagane · S. Suda
- 2E29 Analysis of the hydrogen generation process by the corrosion of aluminum sheets
(Kyoto University) ○Ryosuke Chinzaka · Koji Nagashima · Heidy Visbal · Masahiro Shimizu · Masayuki Nishi · Kazuyuki Hirao
- 2E30 Development of the solid oxide fuel cell using the biogas derived from livestock
(Okayama University) ○Makoto Iwami · Kazuhito Iwamoto · Shunsuke Nishimoto · Yoshikazu Kameshima · Michihiro Miyake · (Institute
Animal Production Okayama Prefectural Technology Center for Agriculture Forestry and Fisheries) Makoto Shiraiishi · Kenji Takatori

Energy reference material / ナトリウム-空気電池・リチウム-空気電池

- (16 : 45) (Chairman 中山将伸)
- 2E32 Sodium manganese phosphate glass-ceramics for sodium-ion batteries
(Nagaoka University of Technology) ○Morito Tanabe · Kenji Shinozaki · Tsuyoshi Honma · Takayuki Komatsu
- 2E33 Study of carbon materials for application to the aqueous Na-air cell.
(Kyushu University) ○Hirotsu Ida · Miki Inada · Naoya Enomoto · Katsuro Hayashi
- 2E34 Film growth of β -alumina film by laser CVD under alkali-supersaturated atmosphere
(Tohoku University) Chen Chi · ○Hirokazu Katsui · Takashi Goto
- 2E35 Development of Ceramic Electrolyte Sheet for Lithium-air Rechargeable Battery
(National Institute of Advanced Industrial Science and Technology) ○Koichi Hamamoto · Hiroyuki Shimada ·
Hirofumi Sumi · Toshiaki Yamaguchi · Toshio Suzuki · Yoshinobu Fujishiro

★★ March 19 (Thur) (Room F) ★★

Bioceramics / 表面・界面

- (9 : 00) (Chairman 大矢根綾子)
- 2F01 Effect of Hydrothermal Treatment in Thiourea Solution on Surface Structure and Properties of NaOH-Treated Titanium
(Tohoku University) ○Masakazu Kawashita · Shu Furukawa · (Kyushu Institute of Technology) Toshiki Miyazaki ·
(Tohoku University) Takayuki Mokudai · Yoshimi Niwano · Hiroyasu Kanetaka
- 2F02 Synthesis of titanium oxide nanofibers and their protein absorptive property
(Osaka City University) ○Yoshiyuki Yokogawa · Rie Yamauchi · Junya Okabe
- 2F03 Functionalization of tobermorite by incorporating phosphate clusters
(Nagoya Institute of Technology) ○Hirotaka Maeda · (National Institute of Advanced Science and Technology) Katsuya Kato ·
(Nagoya Institute of Technology) Toshihiro Kasuga
- 2F04 Synthesis of mesoporous silica for slow delivery of drug promoting new bone formation
(Tokyo Institute of Technology) ○Yasunori Kimura · Tomoaki Sugiyama · Toshiyuki Ikoma · Junzo Tanaka

Bioceramics / アパタイト

- (10 : 15) (Chairman 川下将一)
- 2F06 Additive manufacturing device for Mosaic-Like Ceramics Fabrication
(National Institute of Advanced Industrial Science and Technology) ○Kay Teraoka
- 2F07 Densification of hydroxyapatite ceramics with borate addition by pulse current pressure sintering
(Sophia University) ○Ryo Yamazaki · (National Institute for Materials Science) Koji Morita · Yoshio Sakka · (Sophia University) Kiyoshi Itatani
- 2F08 Effect of the addition of copper ions to hydroxyapatite on the behavior of *Escherichia coli*
(Tohoku University) ○Kohki Karasudani · Masanobu Kamitakahara · Taishi Yokoi · Chihiro Inoue · Hideaki Matsubara
- (11 : 00) (Chairman 鳴瀧彩絵)
- 2F09 Modification of APTES and Folic Acid on the Surface of Luminescent Apatite for the Detection of Early Epithelial Malignant Tumor
(Tokyo Institute of Technology) ○Rui Horimoto · Tomoaki Sugiyama · Toshiyuki Ikoma · Junzo Tanaka
- 2F10 Synthesis of fiber like hydroxyapatite and fabrication of the sheet
(Tokyo Medical and Dental University) ○Kotaro Shibata · N. Horiuchi · K. Nozaki · M. Nakamura · A. Nagai · K. Yamashita
- 2F11 Controlled Arrangement of Hydroxyapatite Nanoparticles
(Keio University) ○Kazuki Nakamura · Yuya Oaki · Hiroaki Imai

Bioceramics / 複合体

- (14 : 45) (Chairman 前田浩孝)
- 2F24 Apatite formation on surface of organic substrates in solution mimicking body fluid: effects of hydroxybenzene compounds immobilized on chitosan gels
(Nagoya University) ○Ayae Sugawara-narutaki · Sakina Kondo · Seira Morimune-Moriya · Ill-Yong Kim · Chikara Ohtsuki

- 2F25 Preparation of hydroxyapatite/collagen paste using 3-glycidoxypropyltrimethoxysilane
(Meiji University · National Institute for Materials Science) ○Taira Sato · (Kyushu Institute of Technology) Yuki Shirotsuki ·
(Meiji University) Mamoru Aizawa · (National Institute for Materials Science) Masanori Kikuchi
- 2F26 Material properties of chelate-setting β -tricalcium phosphate cement and its verification of non-fragmentation ability in blood
(Meiji University) ○Kohei Nagata · Michiyo Honda · (Okayama University) Toshiisa Konishi · (Meiji University) Mamoru Aizawa
- 2F27 Design of layered assembly of DNA-calcium phosphate composite spheres for efficient gene transfer
(National Institute of Advanced Industrial Science and Technology) ○Ayako Oyane · Hiroko Araki · Atsuo Ito ·
(University of Tsukuba) Hideo Tsurushima
- (16 : 00) (Chairman 生駒俊之)
- 2F29 Properties of novel bone hemostat by the combination of random co-polymer of ethylene oxide and propylene oxide with sugar containing apatite
(Sophia University) ○Eri Shima · Tomohiro Umeda · (Toho University) Yoshiro Musha · (Sophia University) Kiyoshi Itatani
- 2F30 Stamp method: novel HAp patterning method on DN gel surface for cartilage regeneration
(Hokkaido University) ○Ryuji Kiyama · Takayuki Nonoyama · Takayuki Kurokawa · Tasuku Nakajima · JianPing Gong
- 2F31 Synthesis of Hydroxyapatite from Calcium Phosphate Esters by Using Enzymatic Reaction in Simulated Body Fluid
(Nagoya University) ○Akiyoshi Mio · Ayae Sugawara-Narutaki · Chikara Ohtsuki · (Tohoku University) Taishi Yokoi

★★ March 19 (Thur) (Room G) ★★

Environment and energy related material / 光触媒 (ナノ構造)

- (9 : 00) (Chairman 西本俊介)
- 2G01 Remote Photochromic Coloration in CdS Quantum Dot Loaded Thin Film of Cesium Tungstate Nanosheet film
(Tokyo Institute of Technology) ○Akihiko Kondo · Daiki Atarashi · Etsuo Sakai ·
(Tokyo Institute of Technology · JST-PRESTO) Masahiro Miyauchi
- 2G02 Development of metal chalcogenide photocatalyst composed of ubiquitous elements
(Tokyo Institute of Technology) ○Yuhiro Shiga · Srinivasan Nagarajan · Daiki Atarashi · Etsuo Sakai ·
(Tokyo Institute of Technology · JST-PRESTO) Masahiro Miyauchi
- 2G03 Development of WO₃ Nanotree Electrode Watersplitting Reactions
(Tokyo Institute of Technology) ○Yuya Nukui · Daiki Atarashi · Etsuo Sakai ·
(Tokyo Institute of Technology · PRESTO, JST) Masahiro Miyauchi

Environment and energy related material / 光触媒 (活性)

- (9 : 45) (Chairman 勝又健一)
- 2G04 Achieving High Quantum Efficiency under Visible Light Based on Metal Oxide Nanoclusters Grafted TiO₂
(Tokyo Institute of Technology · JST-PREST) ○Masahiro Miyauchi · (Tokyo Institute of Technology) Ryota Inde ·
Daiki Atarashi · Etsuo Sakai · (The University of Tokyo) Min Liu · Kazuhito Hashimoto
- 2G05 Analysis on photocatalytic reaction of Ti(IV) clusters grafted rutile TiO₂
(Tokyo Institute of Technology) ○Ryota Inde · Daiki Atarashi · Etsuo Sakai · (Nagaoka University of Technology)
Masami Nishikawa · Yoshio Nosaka · (The University of Tokyo) Min Liu · Kazuhito Hashimoto ·
(Tokyo Institute of Technology · JST PRESTO) Masahiro Miyauchi
- 2G06 Photocatalysis of TiO₂ crystal with different polarities in surface charge (Nagoya Institute of Technology) ○Narumi Hoshino · Kenichi Kakimoto

Environment and energy related material / 光触媒 (新材料)

- (10 : 30) (Chairman 宮内雅浩)
- 2G07 Synthesis and characterization of perlite / TiO₂ composites
(MITSUI MINING & SMELTING CO., LTD · Osaka Prefecture University) ○Makoto Kasai · (MITSUI MINING &
SMELTING CO., LTD) Yosei Kobayashi · (Osaka Prefecture University) Masakazu Togo · Tadahiko Morinaga ·
(Osaka Prefecture University · Tohoku University) Atsushi Nakahira
- 2G08 Preparation of carbon modified N-TiO₂ pillared clay with enhanced photocatalytic activity
(Okayama university) ○Jiannan Hsing · Yoshikazu Kameshima · Shunsuke Nishimoto · Michihiro Miyake
- 2G09 Synthesis and properties of TiO₂ nanoparticles - Fe₃O₄ nanoparticles - mesoporous silica nanocomposites
(Hirishima University) ○Takayuki Akune · Kiyofumi Katagiri · Kei Inumaru

Environment and energy related material / 受賞講演

- (11 : 15) (Chairman 三宅通博)
- 2G10A [The 69th CerSJ Awards] Creation of Advanced Optical Responsive Functionality of Ceramics by Green Process (Tohoku University) ○Shu Yin
- (14 : 45) (Chairman 松田厚範)
- 2G24A [The 69th CerSJ Awards] Study on Materials Functionalization Using Shape Control of Small Space
(Nagoya Institute of Technology) ○Masayoshi Fuji

Environment and energy related material / ポーラス材料

- (15 : 15) (Chairman 武井貴弘)
- 2G26 HPLC Separation of Unsaturated Compounds by Monolithic Silica Column Embedded with Ag Nanoparticles
(Kyoto University) ○Yang Zhu · Kazuki Nakanishi · Kazuyoshi Kanamori
- 2G27 CO₂ adsorption properties of amino group modified materials prepared by using mesoporous silica with different pore size
(Hiroshima University) ○Shinya Shirakawa · Takuya Nishikawa · Kei Inumaru
- 2G28 Structure investigation of Mesoporous SiO₂-TiO₂ by extraction removal of template
(Kyushu University) ○Shingo Hirata · Miki Inada · Naoya Enomoto · Junichi Hojo · Katsuro Hayashi
- 2G29 Unique Photocatalyses of Mesoporous Silica-Titania-Gold Nanoparticle Composites
(Toyoashi University of Technology) ○Go Kawamura · Teruhisa Okuno · Hiroyuki Muto · Atsunori Matsuda

(16 : 15) (Chairman 宗官穰)

- 2G30 Preparation of Nb-doped Single Crystalline TiO₂ with a Unique Mesostructure by Utilizing a Colloidal Silica Crystal as a Template
(Waseda University) ○Yuta Shimasaki · Masaki Kitahara · Yoshiyuki Kuroda · Takamichi Matuno · Atushi Shimajima · Hiroaki Wada · Kazuyuki Kuroda
- 2G31 Catalytic performance of layered octosilicate derivatives under presence of N,N-dimethylformamide
(Waseda University) ○Takuya Matsumoto · Yusuke Asakura · Atsushi Shimojima · Kazuyuki Kuroda
- 2G32 Synthesis and evaluation of AlPO-5 by the hydrothermal process under various conditions
(Osaka Prefecture University) ○Hironori Takahashi · Masakazu Togo · (Osaka Prefecture University · Tohoku University) Atsushi Nakahira

Environment and energy related material / LDH

(17 : 00) (Chairman 稲田幹)

- 2G33 Local structure analysis of organic-inorganic nano-hybrid materials from layered double hydroxide nanosheet
(Okayama University) ○Shunichi Watanabe · Yoshikazu Kameshima · Shunsuke Nishimoto · Michihiro Miyake
- 2G34 Reaction Temperature Effect on Anion Exchangeable Properties of Layered Double Hydroxide Consisting of Ni and Al
(Shimane University) ○Ryo Sasaki · Eisaku Nii · (Hiroshima University) Hirokazu Hoashi · Chikako Moriyoshi · Yoshihiro Kuroiwa
- 2G35 Relationship between thermal vibration of halide ions and quantity of interlayer water in Ni/Al-type layered double hydroxide
(Hiroshima University) Hirokazu Hoashi · (Shimane University) Eisaku Nii · (Hiroshima University) ○Chikako Moriyoshi · Yoshihiro Kuroiwa · (Shimane University) Ryo Sasaki
- 2G36 Preparation of Oriented Ni-LDH Film and Its Conversion to Functional Metal Oxide
(University of Yamanashi) ○Takahiro Takei · Hiroki Fuse · (Hokkaido University) Akira Miura · (University of Yamanashi) Nobuhiro Kumada

★★ March 19 (Thur) (Room H) ★★

Dielectric material / 新誘電材料

(9 : 00) (Chairman 長田実)

- 2H01 Novel Titanium Oxynitrides (1): Synthesis of BaTiO_{3-x}N_{2x/3}
(Kyoto University) ○Fumitaka Takeiri · Kohei Aidzu · Wataru Yoshimune · Takafumi Yamamoto · Yoji Kobayashi · Hiroshi Kageyama · (University of Tokyo) Takeshi Yajima
- 2H02 Novel Titanium Oxynitrides (2): Physical Properties of BaTiO_{3-x}N_{2x/3}
(Kyoto University) ○Fumitaka Takeiri · Kohei Aidzu · Wataru Yoshimune · Koji Fujita · Katsuhisa Tanaka · Takafumi Yamamoto · Yoji Kobayashi · Hiroshi Kageyama · (University of Tokyo) Takeshi Yajima · (Pennsylvania State University) Hirofumi Akamatsu · Lei Shimming · Gopalan Venkatraman
- 2H03 Effect of Nitrogen Substitution on Dielectric Property of Perovskite-type Oxides
(Tokyo Institute of Technology) ○Akira Sahashi · Takuya Hoshina · Hiroaki Takeda · Takaaki Tsurumi
- 2H04 The adequate *c/a* in the Monoclinic Perovskite Bi₂ZnTi_{1-x}Mn_xO₆
(Tokyo Institute of Technology) ○Narumi Matsuda · Runze Yu · Masaki Azuma · (Chuo University) Kengo Oka
- 2H05 Influence of A-site Cations on Oxygen Octahedral Rotations in the Novel Piezoelectrics ARTiO₄ (A = Na, K; R = rare-earth)
(Kyoto University) ○Toshihiro Kuge · Koji Fujita · Tsukasa Matsubara · Isao Tanaka · Katsuhisa Tanaka · Atsushi Togo · (Pennsylvania State University) Hirofumi Akamatsu · Arnab Gupta · Venkatraman Gopalan

Dielectric material / 相転移・第一原理計算

(10 : 15) (Chairman 北中佑樹)

- 2H06 Features of ferroelectric phase transition in improper ferroelectric (Ba,Sr)Al₂O₄
(Osaka Prefecture University) Eri Tanaka · Yui Ishii · Hirofumi Tsukasaki · ○Shigeo Mori · Yoshiki Kubota · (Spring8) Syougo Kawaguchi · (NIMS) Minoru Osada · (Nagoya University) Hiroki Taniguchi
- 2H07 Phase transition behavior in (Bi_{1/2}K_{1/2})TiO₃ ferroelectric ceramics fabricated using a hydrothermal method
(Keio University) ○Manabu Hagiwara · Shinobu Fujihara
- 2H08 First-principles study of Electric-field induced Ferroelectricity of AgNbO₃
(JFCC) ○Hiroki Moriwake · Ayako Konishi · Takafumi Ogawa · Craig A. J. Fisher · Akihide Kuwabara · (Shizuoka University) Desheng Fu

(11 : 00) (Chairman 保科拓也)

- 2H09 Electric-field response of (Bi_{1/2}Na_{1/2})TiO₃-based ferroelectrics analyzed by theoretical calculations
(The University of Tokyo) ○Yuuki Kitanaka · Motohiro Ogino · Kiyotaka Hirano · Yuji Noguchi · Masaru Miyayama
- 2H10 Chemical bonding in ferroelectric oxides with pseudo-ilmenite structure
(Nagoya University) ○Kazuaki Toyoura · Masataka Ohta · Atsutomu Nakamura · Katsuyuki Matsunaga
- 2H11 First-Principles Calculations of Ferroelectricity in Wurtzite Structured Oxides Using the fixed-D Method
(JFCC) ○Ayako Konishi · Takafumi Ogawa · Noriko Otani · Craig A. J. Fisher · Akihide Kuwabara · Hiroki Moriwake

Dielectric material / 格子欠陥の電子状態

(14 : 45) (Chairman 豊浦和明)

- 2H24 Defect and Substitution Effect on the Band Structure of BaTiO₃ Particles
(Okayama University) ○Norihiro Oshime · (Okayama University · JST PRESTO) Jun Kano · (Okayama University) Takashi Teranishi · Koji Osaki · Tasuku Yoshida · Naoshi Ikeda · Tatsuo Fujii · Tomoko Ohkubo · Takezi Ueda
- 2H25 Conduction mechanism and electronic structures of BiFeO₃ ferroelectric epitaxial thin films
(The University of Tokyo) ○Hiroki Matsuo · Yuuki Kitanaka · Ryotaro Inoue · Yuji Noguchi · Masaru Miyayama

Dielectric material / 粒界構造・局所構造観察

(15 : 15) (Chairman 木口賢紀)

- 2H26 Dissociation structure of dislocations in lithium niobate
(Nagoya University) ○Atsutomu Nakamura · Yuuho Furushima · (The University of Tokyo) Eita Tochigi · Yuichi Ikuhara · (Nagoya University) Kazuaki Toyoura · Katsuyuki Matsunaga

- 2H27 Direct observation of microstructure in stuffed tridymite-type compounds $Ba_{1-x}Sr_xAl_2O_4$ by Transmission Electron Microscopy
(Osaka Prefecture University) ○Hirofumi Tsukasaka · Eri Tanaka · Yui Ishii · Shigeo Mori ·
(NIMS) Minoru Osada · (Nagoya University) Hiroki Taniguchi
- 2H28 Tilt angle-dependent structural behavior of praseodymium doped zinc oxide [0001] symmetric tilt grain boundaries
(The University of Tokyo) ○Ji-Young Roh · (Kyusyu University) Yukio Sato · (The University of Tokyo ·
Tohoku University · JFCC) Yuichi Ikuhara

Dielectric material / 誘電界面制御

- (16 : 15) (Chairman 脇谷尚樹)
- 2H30 Preparation and Dielectric Property of Electrode/Dielectric/Electrode Region Capacitor by Solvothermal Solidification Method
(University of Yamanashi) ○Hideto Kawashima · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada
- 2H31 Preparation of Barium Titanate/Potassium Niobate Nanocomplex Ceramics Using Solvothermal Solidification Method and Their Dielectric Properties
(The University of Yamanashi) ○Miki Watanabe · Yoshinobu Hirose · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada
- 2H32 Fabrication of Nanocomposite Ceramics with Hetero-Interface by Solvothermal Solidification Method and Their Dielectric Properties
(University of Yamanashi) ○Yoshinobu Hirose · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada ·
(Hiroshima University) Eisuke Magome · Chikako Moriyoshi · Yoshihiro Kuroiwa

Dielectric material / 熱量効果・イオン伝導

- (17 : 00) (Chairman 萩原学)
- 2H33 Electrocaloric Properties of PZT-based Ceramics, PVDF, and PMN-PT Crystals (Shonan Institute of Technology) ○Hiroshi Maiwa
- 2H34 Impedance of single-crystalline $BaTiO_3$ and $BaTi_2O_5$ (Tohoku University) ○Keiji Shiga · Hirokazu Katsui · Takashi Goto

Dielectric material / 複合構造制御

- (17 : 30) (Chairman 萩原学)
- 2H35 Effect of microstructure on electrical properties of $Ba(Zr,Ti)O_3$ thin films deposited by CSD method
(Shizuoka University) ○Naonori Sakamoto · Yutaro Oda · Naoki Wakiya · Hisao Suzuki ·
(Kitami Institute of Technology) Tomoya Ohno · Takeshi Matsuda
- 2H36 Preparation of ZrO_2 -Based Paraelectrics/Paraelectrics Complex Ceramics and Their Dielectric Properties
(University of Yamanashi) ○Hiroya Taguchi · Hideto Kawashima · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada ·
(Hiroshima University) Eisuke Magome · Chikako Moriyoshi · Yoshihiro Kuroiwa

★★ March 19 (Thur) (Room I) ★★

Magnetic material / 磁性材料

- (9 : 45) (Chairman 中嶋聖介)
- 2I04 Synthesis condition of magnetite using reverse coprecipitation method for application of thermal coagulation therapy
(Ehime University) ○Taiga Nagamachi · Jyunpei Nagashima · Yoshiteru Itagaki · Takashi Naohara · Hiromichi Aono
- 2I05 Effects on magnetic property and microstructure of $ZnFe_2O_4$ by microwave irradiation
(Tohoku University) ○Daisuke Nagao · Jun Fokushima · Yamato Hayasho · Hirotsugu Takizawa
- 2I06 One-step synthesis and characterization of nanosized $MgFe_2O_4$ particles by ultrasonic spray pyrolysis technique
(Shizuoka University) ○Harinarayan Das · Naonori Sakamoto · (Ehime University) Hiromichi Aono ·
(Tokyo Inst. Tech. Japan) Kazuo Shinozaki · (Shizuoka University) Hisao Suzuki · Naoki Wakiya
- 2I07 Crystal structure and magnetic properties of orthorhombic / monoclinic $Ba_3LnFe_2O_{7.5\delta}$
(Hokkaido University) ○Ryosuke Sakashita · Yoshihiro Doi · Yukio Hinatsu

Magnetic material / 磁気光学・電気磁気効果

- (10 : 45) (Chairman 藤田晃司)
- 2I08A **[The 69th CerSJ Awards]** Researches on magneto-optical properties in magnetic nano-materials
(Yokohama National University · RIKEN) ○Seisuke Nakashima
- 2I10 Magneto-optical effect of Gallium substituted Bismuth Iron Garnet Fabricated on Single crystal and Glass Substrates
(Nagoya Institute of Technology) ○Ti Wu · Nobuyasu Adachi · Saeko Fujiuchi · Toshitaka Ota
- 2I11 Magneto-transport properties of $Cr_2O_3/LiNbO_3$ epitaxial multilayers
(Nagoya Institute of Technology) ○Izuna Tsuboi · Takeshi Yokota · Manabu Gomi

Magnetic material / 希土類磁石

- (14 : 45) (Chairman 島川祐一)
- 2I24A **[The 69th CerSJ Awards]** Versatile structures of rare earth containing oxides and their magnetic properties
(Hokkaido University) ○Yukio Hinatsu
- 2I26F **[Frontiers]** Reduction of scarce rare-earth elements from magnets (TDK Corporation) ○Yasushi Enokido

Magnetic material / 磁性材料・電子状態

- (15 : 45) (Chairman 陰山洋)
- 2I28 High pressure syntheses and phase transitions in A-site-ordered perovskites $ACu_3Cr_4O_{12}$ ($A = La, Bi$)
(Kyoto University) ○Takashi Saito · Shoubao Zhang · (Japan Synchrotron Radiation Research Institute) Masaichirou Mizumaki ·
(Kyoto University · JST-CREST) Yuichi Shimakawa
- 2I29 A new layered perovskite-structure oxide, $LaCa_2Fe_3O_9$
(Kyoto University) ○Haichuan Guo · Yoshiteru Hosaka · Hayato Seki · Takashi Saito · Noriya Ichikawa ·
(Kyoto University · JST-CREST) Yuichi Shimakawa
- 2I30 Electrochemical properties of $Mn_{3-x}Co_xO_4$
(Center for High Pressure Science & Technology Advanced Research) ○Shigetou Hirai · (Osaka Prefecture University)
Ikuya Yamada · Shunsuke Yagi · (Keio University) Yoichi Kamihara · Masanori Matoba
- 2I31 Dependence of crystal symmetry, electrical conduction property and electronic structure of $LnFeO_3$ (Ln : Lanthanoid) on kinds of Ln^{3+}
(Nihon University) ○Eiki Niwa · Tsubasa Sato · Yuki Watanabe · Yuichiro Toyoda · Yoshikiyo Hatakeyama ·
Ken Judai · Takuya Hashimoto · (University of Tokyo) Katsumi Shozugawa · Motonori Matsuo

(16 : 45) (Chairman 平井慈人)

- 2I32 Structure and Properties of BaTiO₃-Co Multi-layer Films
(Tohoku University) ○Yiwen Zhang · Hiroshi Masumoto · (DENJIKEN) Nobukiyo Kobayashi ·
(Tohoku University · DENJIKEN) Shigehiro Ohnuma · (University of Toyama) Masateru Nose
- 2I33S EuTiO_{3-x}H_x : Antiferromagnetic-to-Ferromagnetic Transition by Hydride Substitution
(Kyoto University) ○Takafumi Yamamoto · Ryuta Yoshii · Bauilly Guillaume · Yoji Kobayashi · Koji Fujita ·
Yoshiro Kususe · Katsuhisa Tanaka · Hiroshi Kageyama · (NIMS) Yoshitaka Matsushita
- 2I34 Epitaxial film growth and local magnetic field induced magnetization reversal of ferromagnetic La_{0.67}Sr_{0.33}MnO₃
(The University of Hokkaido) ○Akiyasu Sakagami · Michihiko Yamanouchi · Takayoshi Katase · Hiromichi Ohta

★★ March 19 (Thur) (Room J) ★★

Cement / 流動性・水和反応

(9 : 45) (Chairman 小泉公志郎)

- 2J04 The influence of f.CaO on the early age hydration and fluidity of fly ash cement based on high-C₃S cement
(Tokyo Institute of Technology) ○Yuta Nakagawa · Daiki Atarashi · Etsuo Sakai · (Taiheiyō Cement Group) Hiroshi Hirao
- 2J05 Influence of non-adsorbed polymer and ultrafine particles on fluidity of cement paste
(Tokyo Institute of Technology) ○Daiki Shimazaki · Daiki Atarashi · Masahiro Miyauchi · Etsuo Sakai
- 2J06 Hydrothermal Synthesis of Calcium Silicate Hydrates by Substituting Glass Materials
(Tokyo Institute of Technology) ○Yusuke Yamamoto · Daiki Atarashi · (SUMITOMO METAL MINING SIPOREX) Humiaki Matsushita ·
Sumio Shibata · Tadashi Kasai · (The Glass Recycling Committee Of Japan) So Katou ·
(Tokyo Institute of Technology) Masahiro Miyauchi · Etsuo Sakai

Cement / 水和反応・固定

(10 : 30) (Chairman 佐川孝広)

- 2J07 Immobilization of chloride ion by cement material in LHC-CA₂-CSA systems
(Tokyo Institute of Technology University) ○Masashi Shinsugi · Daiki Atarashi · (Nihon University) Junichi Ohya ·
(DENKI KAGAKU KOGYO K.K.) Minoru Morioka · (Tokyo Institute of Technology University) Masahiro Miyauchi · Etsuo Sakai
- 2J08 Hydration of Ca₄Al₂Fe₂O₁₀-CaSO₄ · 2H₂O-CaCl₂ system
(Tokyo Institute of Technology) ○Toru Ota · Daiki Atarashi · (Nihon University) Junichi Ohya · Hiroyuki Sango ·
(Tokyo Institute of Technology) Masahiro Miyauchi · Etsuo Sakai

Cement / キャラクターゼーション・解析手法

(11 : 00) (Chairman 大宅淳一)

- 2J09 Phase transformation of Sr₄[Al₆O₁₂]SO₄ and its disordered crystal structure at 573 K
(Nagoya Institute of Technology) ○Hirofumi Katsukura · Hiroki Banno · Seiya Takeda · Toru Asaka · Koichiro Fukuda
- 2J10 XRD external standard method and spiking method applied to the quantification of blast-furnace slag hydration
(Nippon Steel and Sumikin Cement) ○Takahiro Sagawa · (Hokkaido University) Rena Ishikawa · Toyoharu Nawa
- 2J11 Formation Tendency of Calcium Silicate Hydrates on Pozzolanic Reaction (Nihon University) ○Koshiro Koizumi · Naomitsu Tsuyuki

Pottery, Porcelain enamel / 陶磁器

(15 : 00) (Chairman 亀島欣一)

- 2J25 Influence of glaze state on flexural strength of strengthened porcelain
(Saga Ceramics Research Laboratory) ○Nobuaki Kamochi · Katsuaki Nishiyama
- 2J26 Unique friendship history between Japan and Korea for 260 years of the Edo period, Grate scale mission exchanged sincerity from Korea Yi dynasty and technological exchange (I) Roots of Japanese Porcelain
(Nagoya Industrial Science Research Institute · Nagoya Institute of Technology) ○Hitoshi Ohsato
- 2J27 (II) From Daimyo's tea ceremony to Busan ceramics kiln accompanied with friendship history between Japan and Korea
(Nagoya Industrial Science Research Institute · Nagoya Institute of Technology) ○Hitoshi Ohsato

Engineering ceramics / 機械的性質 1

(16 : 00) (Chairman 大幸裕介)

- 2J29 Cutting Technology of Ceramics Plates by Wheel Scribing and Breaking
(MITSUBOSHI DIAMOND INDUSTRIAL CO., LTD.) ○Naoko Tomei · Toshio Fukunishi ·
Shigekazu Hirano · Kouji Yamamoto · Kenji Murakami · Taichi Hashimoto
- 2J30 Proposal of A Simple Torsion Test Method for Bioceramics
(Tokyo Institute of Technology) ○Kouichi Yasuda · (Kanazawa Institute of Technology) Sadami Tsutsumi
- 2J31 Measurements of Fracture Toughness of Ceramic Thin Plates by SEVNB Method
(National Institute of Advanced Industrial Science and Technology) ○Hiroyuki Miyazaki · Yu-ichi Yoshizawa · Kiyoshi Hirao · Tatsuki Ohji
- 2J32 Fracture resistance of nano polycrystalline stishovite toughened by fracture-induced amorphization
(Tokyo Institute of Technology) ○Kimiko Yoshida · Fumihiro Wakai · (Deutsches Elektronen-Synchrotron) Norimasa Nishiyama ·
(Tokyo Institute of Technology) Risako Sekine · Yutaka Shinoda · Takashi Akatsu · Takashi Nagoshi · Masato Sone

Engineering ceramics / 機械的性質 2

(17 : 00) (Chairman 宮崎広行)

- 2J33 Effect of anisotropic mechanical property on the nanoindentation behavior of elastoplastic solids with a point-sharp indenter
(Tokyo Institute of Technology) ○Tatsuya Yamaguchi · Takashi Akatsu · Yutaka Shinoda · Fumihiro Wakai
- 2J34 High-Pressure Impedance and Simultaneous Elastic Analysis for fuel cell electrolyte Utilizing an Indentation Technique
(Nagoya Institute of Technology) ○Yusuke Daiko · Yuji Iwamoto · (University of Hyogo) Eri Hakahashi · Tetsuo Yazawa ·
(Toyouhashi University of Technology) Hiroyuki Muto · Atsunori Matsuda
- 2J35 Visualization of stress distribution of CFRP composites by using mechanoluminescence sensor
(AIST) ○Yuki Fujio · (AIST · Kyushu University WPI-I²CNER) Chao-Nan Xu · (AIST) Yoshitaro Sakata ·
Akihito Yoshida · Luyang Yuan · Nao Terasaki · (Saga University) Naohiro Ueno

- 2J36 Effects of woven fabric structure of SiC/SiC composite substrate on tensile deformation behavior of $3Al_2O_3 \cdot 2SiO_2/Si/(SiC/SiC)$ EBC system
(The University of Tokyo) ○Atsushi Otsuka · Takaho Kuribara · Hideki Kakisawa · Yutaka Kagawa

★★ March 19 (Thur) (Room K) ★★

Liquid phase process / 反応メカニズム

- (9 : 00) (Chairman 坂元尚紀)
- 2K01 Investigation of morphology at growth process of Y-based oxide precursors by precipitation from urea homogeneous solution
(Tokai University) ○Chihiro Shoji · Katsuki Iwasaki · Soichi Takasugi · Koji Tomita
- 2K02 Synthesis of novel TiO_2 with various morphology by soft chemical process
(Osaka Prefecture University) ○Tadahiko Morinaga · (Osaka Prefecture University · Tohoku University) Atsushi Nakahira
- 2K03 The study of water evaporation behavior during microwave irradiation
(Nagoya Institute of Technology) ○Fumihiko Ishida · Hadi Razavi · Masayoshi Fuji · Takashi Shirai ·
(National Institute for Fusion Science) Sadatsugu Takayama
- 2K04 Effect of water for the Water-assisted Solid State Reactions
(N-Luminescence Corporation · Niigata University) ○Kenji Toda · (Niigata University) Tatsuro Keneko · Sun-Woog Kim ·
Kazuyoshi Uematsu · Mineo Sato · (N-Luminescence Corporation) Junko Koide · Masako Toda · Yoshiaki Kudo

Liquid phase process / ゼルゲル法

- (10 : 15) (Chairman 戸田健司)
- 2K06 Adhesion of ceramic thin films fabricated on plastic substrates by sol-gel and transfer process
(Kansai University) ○Natsumi Amano · Hiromitsu Kozuka · Hiroaki Uchiyama
- 2K07 Fundamental study on the flexibility of the ceramic thin films prepared on plastic substrates by sol-gel and transfer process
(Kansai University) Hiromitsu Kozuka · ○Ryosuke Hamano · Hiroaki Uchiyama
- 2K08 Preparation of $BaTiO_3$ - $SrTiO_3$ free-standing films by in situ multilayering at liquid interface
(Kyushu Institute of Technology) ○Hirokazu Shimooka · Shigemi Kohiki · (The University of Tokyo) Makoto Kuwabara
- (11 : 00) (Chairman 上川直文)
- 2K09 Fundamental study on the refractive index gradient of TiO_2 multilayer films prepared by sol-gel method
(Kansai University) ○Tsubasa Sakamoto · Hiromitsu Kozuka · Hiroaki Uchiyama
- 2K10 Photoelectrochemical properties of WO_3 thin films prepared by low-speed dip-coating
(Kansai University) Hiroaki Uchiyama · ○Seishiro Igarashi · Hiromitsu Kozuka

Liquid phase process / ミクロ造形プロセス

- (14 : 45) (Chairman 中西和樹)
- 2K24A [The 69th CerSJ Awards] Stereolithography of Ceramics Structures (Osaka University) ○Soshu Kirihara
- 2K26 Rheological analysis of ceramic pastes with ethyl cellulose for screen-printing
(Nagoya Institute of Technology · Noritake Co., Ltd) ○Koji Inukai · (Noritake Co., Ltd) Yosuke Takahashi ·
(Nagoya Institute of Technology · National Institute of Advanced Industrial Science and Technology) Woosuck Shin
- 2K27 Synthesis of molybdenum trioxide nanorods arrays via one-step sol-gel spin coating method
(Osaka University · Kunming Institute of Physics, China) ○Shuren Cong · (Osaka University) Tohru Sugahara ·
Jinting Jiu · Yukiko Hirose · Shijo Nagao · Katsuaki Suganuma

Liquid phase process / ゲル作製プロセス

- (15 : 45) (Chairman 高橋雅英)
- 2K28 Synthesis of hierarchically porous monolithic titanium phosphate gels
(Kyoto University) ○Koji Yoneda · Yang Zhu · Kazuyoshi Kanamori · Kazuki Nakanishi
- 2K29 Preparation of Transparent Aerogels/Xerogels Based on Polymethylsiloxane with Ethylene-Bridging Moiety
(Kyoto University) ○Taiyo Shimizu · Kazuyoshi Kanamori · Kazuki Nakanishi
- 2K30 Preparation and pore structure control of macroporous SnO_2 gel
(Kyoto University) ○Yoshinao Suzuki · Nirmalya Moitra · Yang Zhu · Kazuyoshi Kanamori · Kazuki Nakanishi

Liquid phase process / 多孔質材料

- (16 : 45) (Chairman 富田恒之)
- 2K32 The synthesis of useful materials from volcanic ash and its evaluation
(Osaka Prefecture University) ○Naoto Shiota · (Osaka Prefecture University · Tohoku University)
Atsushi Nakahira · (Osaka Prefecture University) Ryouichi Taniguchi · Norio Ito
- 2K33 Synthesis of silica zeolite DDR and effect of composition (Tokyo Metropolitan University) ○Hirohiko Kato · Koichi Kajihara · Kiyoshi Kanamura
- 2K34 Preparation of analcime film (The University of Kumamoto) ○Ryo Kamiyama · Motohide Matsuda
- 2K35 Hydrogen reaction behavior of Ni-doped amorphous aluminosilicate
(Nagoya Institute of Technology) ○Syota Saito · Yusuke Daiko · Sawao Honda · Yuji Iwamoto
- 2K36 Synthesis of Sodium Titanate Particles by Hydrothermal Conversion of Hydrous Titania
(Chiba University) ○Kosuke Ota · Takashi Kojima · Mana Kato · Naofumi Uekawa

★★ March 19 (Thur) (Room L) ★★

Process of powder / リチウムイオン電池材料

- (9 : 00) (Chairman 作田敦)
- 2L01 Synthesis of concentration-gradient spinel-type particles via mechanical method (Osaka University) ○Takahiro Kozawa · Makio Naito
- 2L02 Synthesis and characterization of SiO- carbon composite material by mechanochemical treatment
(Nagoya Institute of Technology) ○Hiroki Hasegawa · (Nagoya Institute of Technology · Advanced Ceramics Research Center)
Shirai Takashi · Masayoshi Fuji · Chika Takai · (Nagoya Institute of Technology · Keio University) Mamoru Senna

Liquid phase process / 多孔質材料

(9 : 30) (Chairman 徳留靖明)

- 2L03 Precise control of the thickness of mesoporous silica thin film by wet etching
(Waseda University) ○Kyoka Susuki · Maho Kobayashi · Hiroaki Wada · Atsushi Shimojima · Kazuyuki Kuroda
- 2L04 Preparation of mesoporous silica / titania nanocomposites via stepwise deposition of titania on the surface mesoporous silica
(Waseda University) ○Kohei Suzuki · Saori Kubara · Masaki Kitahara · Atsushi Shimojima · Hiroaki Wada · Kazuyuki Kuroda
- 2L05 Surface modification of mesoporous silica with bifunctional hydrosilanes and formation of metal nanoparticles
(Kyoto University) ○Takahiro Nakanishi · Nirmalya Moitra · Kazuyoshi Kanamori · Kazuki Nakanishi ·
(Rutgers University) Tewodros Asefa · (Nara National College of Technology) Syun Ichii · Toyoshi Shimada
- 2L06 Construction of an Ordered Silica Structure via Crystallization of Cage Siloxanes Functionalized with Silanol Groups
(Waseda University) ○Naoto Sato · Takuya Abe · Yoshiyuki Kuroda · Hiroaki Wada · Kazuyuki Kuroda · Atsushi Shimojima

Liquid phase process / 自己組織化

(10 : 30) (Chairman 金森主祥)

- 2L07 Preparation of single-nanosized crystalline layered double hydroxides and mesostructure LDH
(Osaka Prefecture University) ○Tsuyoshi Morimoto · Yasuaki Tokudome · Naoki Tarutani · Masahide Takahashi
- 2L08A **[The 69th CersJ Awards]** Preparation of micro- and nanostructured inorganic materials by solution processes
(Kansai University) ○Hiroaki Uchiyama
- 2L10 Effect of nanostructural characteristics on protein adsorption on porous layered double hydroxides
(Osaka Prefecture University) ○Yasuaki Tokudome · Megu Fukui · Naoki Tarutani · Sari Nishimura · Masahide Takahashi
- 2L11 Control of the successive growth of hydroxyapatite rods on phosphate-doped silicate glasses
(Okayama University) ○Takahiro Miyake · Toshiisa Konishi · Tomohiko Yoshioka · Satoshi Hayakawa · Noriyuki Nagaoka
- 2L12 Attaching aramid nanofibers modified with Ag nanoparticles on core spheres in a dispersed state
(Tokyo University of Agriculture and Technology) ○Hiroki Fuchigami · Hidehiro Kamiya · (Yokohama National University) Motoyuki Iijima

Process of powder / 配向

(14 : 45) (Chairman 鈴木彰敏)

- 2L24A **[The 69th CerSJ Awards]** Development of controlling microstructure in ceramics by using a strong magnetic field
(National Institute for Materials Science) ○Tohru Suzuki
- 2L26 Fabrication and characterization of textured bulk ceramics of lanthanum silicate oxyapatite
(National Institute for Materials Science) ○Tetsuo Uchikoshi · (Hosei University) Satoshi Takahashi · (National Institute for Materials Science) Kiyoshi Kobayashi · Tohru Suzuki · Yoshio Sakka · (Hosei University) Takamasa Ishigaki
- (15 : 30) (Chairman 鈴木達)
- 2L27 Fabrication of strontium fluoroapatite ceramics by reactive-templated grain growth method using hexagonal-shaped tristrontium phosphate particles
(Meiji University) ○Akihiro Ishida · (Toyota Central R&D Labs., Inc.) Akitoshi Suzumura · Hideyuki Nakano ·
Toshihiko Tani · (Meiji University) Mamoru Aizawa
- 2L28 Analysis of orientation mechanism of strontium fluoroapatite synthesized using plate-like α -tristrontium phosphate
(Toyota Central R&D Labs., Inc.) ○Akitoshi Suzumura · Yoshihiro Kishida · Hideyuki Nakano · Toshihiko Tani ·
(Meiji University) Akihiro Ishida · Mamoru Aizawa
- 2L29 Pin-point Localization of Boron Nitride Assembly in Hybrid Nanocomposites by Electric Field Concentration
(Nagaoka University of Technology) ○Hong-Baek Cho · Tadachika Nakayama · Hisayuki Suematsu ·
Tsuneo Suzuki · Weihua Jiang · Koichi Nihara

Process of powder / 粒子

(16 : 15) (Chairman 鈴木達)

- 2L30 Synthesis of AlN by carbothermal reduction and nitridation method with 28 GHz microwaves
(The University of Tohoku) ○Hideaki Chikami · Jun Fukushima · Yamato Hayashi · Hirotsugu Takizawa
- 2L31 Analysis of dispersion and gelation mechanism of alumina particles by poly(isobutylene-*alt*-maleic anhydride)
(Tokyo University of Agriculture and Technology) ○Natsumi Koike · Kazuki Oguma · Shunzo Shimai ·
Mayumi Tsukada · Yohei Okada · Hidehiro Kamiya
- (16 : 45) (Chairman 滝澤博胤)
- 2L32 Analysis of dispersion and gelation processes of alumina slurry by colloid probe AFM method
(Tokyo University of Agriculture and Technology) ○Kazuki Oguma · Natsumi Koike ·
Shunzo Shimai · Mayumi Tsukada · Yohei Okada · Hidehiro Kamiya

Vapor phase process / 膜

(17 : 00) (Chairman 滝澤博胤)

- 2L33 Nucleation control for flat AlN film growth by AP-HCVD (Shizuoka University) ○Naonori Sakamoto · Takaya Suzuki · Naoki Wakiya · Hisao Suzuki
- 2L34 Nano-structural alumina film with high breakdown field strength by new AGD technology
(Fuchita Nanotechnology Ltd.) ○Eiji Fuchita · Eiji Tokizaki · Eiichi Ozawa
- 2L35 Microstructures on metal oxide films with diameter-controlled metal-EDTA complexes
(Nagaoka University Tech.) Tomoyuki Shirai · D. Y. Xin · ○Keiji Komatsu · (Nagaoka University Tech. · Chubu Chelest Co. Ltd.)
Atsushi Nakamura · (Nagaoka University Tech.) Shigeo Ohshio · Hidetoshi Saito
- 2L36 Epitaxial growth of SrTiO₃ film on MgO single crystal substrate
(Tohoku University) ○Jianchao Chen · Akihiko Ito · Takashi Goto

★★ March 20 (Fri) (Room B) ★★**Glass and photonic materials / 融液構造 (Redox)**

(9 : 00) (Chairman 山下勝)

- 3B01 Measurement of Oxygen Activity in Silicate Melt Using a ZrO₂ Tube
(University of Shiga Prefecture) ○Eri Yasuda · Satoshi Yoshida · Mitsuo Kato · Akihiro Yamada · Jun Matsuoka · Yoshinari Miura ·
(Akita University) Toru Sugawara · (Nippon Electric Glass Co., Ltd) Yasushi Kii · Masataka Kawaguchi

- 3B02 Redox Behavior of Tin and Sulfate Ions in Binary Sodium Silicate Melts
(University of Shiga Prefecture) ○Kazuaki Konishi · Satoshi Yoshida · Mitsuo Kato · Akihiro Yamada · Jun Matsuoka · Yoshinari Miura ·
(Akita University) Toru Sugawara · (Nippon Electric Glass Co., Ltd.) Yasushi Kii · Masataka Kawaguchi

Glass and photonic materials / Raman 構造解析

(9 : 30) (Chairman 上田純平)

- 3B03 Raman spectroscopic study on structure of lithium bismuth silicate glasses
(Kansai University) ○Shun Tsuji · (National Institute of Advanced Industrial Science and Technology) Kohei Fukumi · Naoyuki Kitamura ·
(Kansai University) Hiromitsu Kozuka · Hiroaki Utiyama
- 3B04 In-situ investigation on the structural change in alkaline borate glass at high pressure
(The University of Shiga Prefecture) ○Akihiro Yamada · Atsushi Tomoda · Satoshi Yoshida · Jun Matsuoka · (Ehime University) Takeshi Sakai

Glass and photonic materials / ガラス発光・蓄光・残光①

(10 : 00) (Chairman 田部勢津久)

- 3B05 Enhancement of afterglow luminescence of long lasting phosphor-glass composite by the use of refractive index matched glass
(National Institute of Advanced Industrial Science and Technology) ○Masaru Yamashita · Toshinori Imamura · Sachiko Matsumoto ·
Masaki Murakami · Toshiaki Hongo · Tomoko Akai · (Codomo energy Inc.) Yasunori Iwamoto
- 3B06 Synthesis and structural study of Sr(Eu,Dy)-Al-O series oxides used as phosphorescence material
(Chuo University) ○Katsuyoshi Oh-ishi · Noriko Kobayashi · Kenta Suzuki · Kengo Oka
- 3B07 Synthesis of Long-persistent SrAl₂O₄ Glass-ceramics via Crystallization of Supercooling Liquid
(Nagaoka University of Technology) ○Kenji Shinozaki · (Coe College) Mario Affatigato ·
(Nagaoka University of Technology) Tsuyoshi Honma · Takayuki Komatsu

Glass and photonic materials / ガラス発光・蓄光・残光②

(10 : 45) (Chairman 正井博和)

- 3B08 Development of Ce³⁺-transition metal-codoped garnet storage phosphors by blue light charging and those optical properties
(The University of Kyoto) ○Atsunori Hashimoto · Jumpei Ueda · Setsuhisa Tanabe
- 3B09 Optical properties of Cr³⁺ doped perovskite oxide persistent phosphor for *in vivo*-imaging application
(Kyoto University) ○Hiroaki Kobayashi · Yumiko Katayama · Setsuhisa Tanabe
- 3B10 Y₃Al_{5-x}Ga_xO₁₂:Cr³⁺: a novel red persistent ceramic phosphor with high brightness (Kyoto University) ○Jian Xu · Jumpei Ueda · Setsuhisa Tanabe

Glass and photonic materials / ガラス発光・蓄光・残光③

(11 : 30) (Chairman 藤原忍)

- 3B11 Mechanical quenching of phosphorescence in CaZnOS:Cu
(Kyushu University · National Institute of Advanced Industrial Science and Technology) ○Dong Tu · (Kyushu University ·
National Institute of Advanced Industrial Science and Technology · WPI-I²CNER) Chao-nan Xu ·
(National Institute of Advanced Industrial Science and Technology) Yuki Fujio
- 3B12 Luminescent property of Ce³⁺ in lithium borosilicate glass
(Kyoto University) ○Hirokazu Masai · Takaaki Usui · (Kyushu Institute of Technology) Takayuki Yanagida

Glass and photonic materials / 進歩賞講演

(13 : 00) (Chairman 田中勝久)

- 3B17A **[The 69th CerSJ Awards]** Investigation of optoelectronic properties and development of persistent phosphors in Ce³⁺-doped Garnet Ceramics
(Kyoto University) ○Jumpei Ueda

Glass and photonic materials / イオン交換・ナノ粒子析出

(13 : 30) (Chairman 吉田智)

- 3B19 Absorption and emission spectra of Na⁺ ↔ Ag⁺ ion-exchanged aluminoborosilicate glasses – Effect of glass composition
(Kyoto Institute of Technology) ○Yusuke Tanahashi · Arifumi Okada · Youichi Ishikawa ·
Takashi Wakasugi · Kouhei Kadono · (Osaka University) Yasushi Fujimoto
- 3B20 The state of the silver nanoparticles generated in tellurite glasses by field-assisted Ag⁺-Na⁺ ion-exchange
(The University of Okayama) ○Yuta Miyamoto · Shinichi Sakida · Yasuhiko Benino · Tokuro Nanba

Glass and photonic materials / ナノロッド集積・アレイ

(14 : 00) (Chairman 角野広平)

- 3B21 Fabrication of Ce³⁺-doped Y₃Al₅O₁₂ thin films and control of their emission coupled to metallic nanoparticle array
(Kyoto University) ○Takafumi Sato · Shunsuke Murai · Koji Fujita · Katsuhisa Tanaka
- 3B22 Structural Control of Y₂O₃:Eu³⁺ Nanorod Assemblies and Their Optical Properties
(Keio University) ○Yuya Hakamatani · Manabu Hagiwara · Shinobu Fujihara

Glass and photonic materials / クロミズム

(14 : 30) (Chairman 角野広平)

- 3B23 Reversible Color Switching of Porphyrin/Inorganic Layered Materials Hybrid Film Induced by Change of Relative Humidity
(Tokyo Metropolitan University · JSPS Research Fellow) ○Takuya Fujimura · (Shimane University) Ryo Sasai ·
(Tokyo Metropolitan University) Tetsuya Shimada · Shinsuke Takagi

★★★ March 20 (Fri) (Room C) ★★★

Engineering ceramics / 熱的性質

(9 : 15) (Chairman 張炳國)

- 3C02 Theoretical and Experimental Analyses of Thermal Shock and Thermal Expansion Coefficients of Metals and Ceramics
(Kagoshima University) ○Yoshihiro Hirata
- 3C03 Effect of Ba concentration on phase stability, mechanical and thermal properties of La₂Mo₂O₉
(Osaka university) ○Kyung Min Ok · Yuji Ohishi · Hiroaki Muta · Ken Kurosaki · Shinsuke Yamanaka
- 3C04 Characterization of the aluminum and ceramics joined samples by heating at less than the melting point of aluminum
(National Institute of Advanced Industrial Science and Technology) ○Ken'ichiro Kita · Naoki Kondo

(10 : 00) (Chairman 若井史博)

3C05 Analysis of Influence of Carbon Content on Degradation Mechanism of Si-O-C(H) Ceramics

(Osaka Prefecture University) ○Masaki Narisawa · Shu Takeuchi · Hiroki Hokazono · Akihiro Iwase

Engineering ceramics / 産官学ミキシングセッション

3C06M Fabrication of a photonic amorphous diamond in a terahertz region by laser beam lithography

(Institute of Industrial Science, The University of Tokyo) ○Yuichiro Komiya · Yasushi Kamimura · Keiichi Edagawa

(10 : 30) (Chairman 堀田幹則)

3C07M Stereolithographic Additive Manufacturing of Ceramics Components

(Osaka University) ○Soshu Kirihara

3C09M The potential of 3-dimensional printer

(JMC Corporation) ○Daichi Watanabe

3C11M Market trend and future expectation for three-dimensional (3D) printing application

(Mitsubishi Research Institute, Inc.) Sakiko Tsuji · Yasuyuki Nanamori

Engineering ceramics / 企業研究フロンティア

(13 : 00) (Chairman 織田武廣)

3C17F **[Frontiers]** Material Development and Commercialization of Silicon Nitride Ceramics Product (NGK SPARK PLUG CO., LTD) ○Yutaka Sekiguchi

Engineering ceramics / 産業応用 1

(13 : 30) (Chairman 織田武廣)

3C19 Performance design for monolithic SiC/(SiC/SiC) composite hybrid structure for development of accident tolerant nuclear applications

(The University of Tokyo) ○Yutaka Kagawa · (Toshiba Corporation) Shoko Suyama · Masaru Ukai · Masayuki Uchihashi · Satoko Tagima · Hideaki Heki · Kazuo Kakiuchi · Kazunari Okonogi

Engineering ceramics / 産業応用 2

(13 : 45) (Chairman 香川豊)

3C20 Trial manufacture of SiC composite for light-water reactor accident tolerant fuels

(IBIDEN Co., Ltd.) ○Takashi Takagi · Shuichi Kubo · Hideo Kato · Mao Tanahashi

3C21 Development of a Ceramics Pressure-tight Housing for Super-deep-sea Self Pop-up Ocean Bottom Seismometer

(Japan Agency for Marine-Earth Science and Technology) ○Kenichi Asakawa · Yosaku Maeda ·

(Kyocera Corporation) Masao Yoshida · Naoyuki Okubo

3C22 Development of Ceramic Pressure-tight Housings with Metal Caps

(Japan Agency for Marine-Earth Science and Technology) ○Kenichi Asakawa · Yosaku Maeda ·

(Kyocera Corporation) Masao Yoshida · Naoyuki Okubo · Hidehito Himeno

3C23 Study on the Volume Dependence of Ceramics Uniaxial Compressive Strength

(Japan Agency for Marine-Earth Science and Technology) ○Kenichi Asakawa · Yosaku Maeda

★★ March 20 (Fri) (Room E) ★★

Energy reference material / 二次電池 (硫化物系固体電解質)

(9 : 00) (Chairman 岸本昭)

3E01 Structure and conductivity for Li-Ge-P-S superionic conductors synthesized by mechanical alloying

(Kyoto University Research Reactor Institute) ○Yohei Onodera · Takuya Kasai · Kazuhiro Mori · Toshiharu Fukunaga · (KEK) Toshiya Otomo

3E02 Preparation and conductivity of $\text{Li}_2\text{S-LiX}$ (X = Cl, Br, I) positive electrodes for all-solid-state lithium secondary batteries

(Osaka Prefecture University) ○Takashi Hakari · Akitoshi Hayashi · Masahiro Tatsumisago

3E03 Microstructural Observation of Composite Positive Electrode in Bulk-Type All-Solid-State Lithium Secondary Batteries Using Sulfide Solid Electrolyte Thin Films

(Osaka Prefecture University) ○Yusuke Ito · Atsushi Sakuda · Akitoshi Hayashi · Masahiro Tatsumisago · (Toyota Motor Corporation) Takamasa Ohtomo

3E04S Preparation and characterization of sodium ion conducting glass-ceramics in the system $\text{Na}_2\text{S-P}_2\text{S}_5\text{-P}_2\text{O}_5$

(Osaka Prefecture University) ○Yuta Nakamura · Naoto Tanibata · (Osaka Prefecture University · Kyoto University) Akitoshi Hayashi · (Osaka Prefecture University) Masahiro Tatsumisago

Energy reference material / 二次電池 (酸化物系固体電解質)

(10 : 15) (Chairman 松元元秀)

3E06 Mechanochemical synthesis and crystallization of the $\text{Li}_3\text{BO}_3\text{-Li}_2\text{CO}_3$ and $\text{Li}_3\text{BO}_3\text{-LiNO}_3$ glass electrolytes

(Osaka Prefecture University) ○Kenji Nagao · Akitoshi Hayashi · Masahiro Tatsumisago

3E07 Thermal Stability of All Solid State Batteries using LiCoPO_4 Cathode Materials and NASICON-Type Solid Electrolytes

(Taiyo Yuden Co., Ltd.) ○Daigo Ito · Masataka Tomita · Yoichiro Ogata · Kenji Matsumoto · Toshimasa Suzuki

3E08 Synthesis of Al-doped $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Powder by Polymerized Complex Method

(National Institute for Materials Science) ○Noriko Saito · Shouichi Sugata · Ken Watanabe · Akio Watanabe · Hajime Haneda · (Denso) Yousuke Suzuki

3E09 Fabrication of All-Solid-State Lithium Batteries using Three-Dimensional Structured $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Pellets

(Tokyo Metropolitan University) ○Mao Shoji · Takeshi Kimura · Jungo Wakasugi · Horikazu Munakata · Kiyoshi Kanamura

(11 : 15) (Chairman 林晃敏)

3E10 Ion conductivity of metal mesoporous oxide- LiClO_4 composite materials

(The University of Hiroshima) ○Satoshi Matsushita · (Mazda Motor Corporation) Hiroyuki Kai · Yoshinori Tsushio · (The University of Hiroshima) Kei Inumaru

Energy reference material / 二次電池 (負極材料)

(11 : 30) (Chairman 林晃敏)

3E11S Bacterial Nanometric Amorphous Fe-Based Oxide: A Potential Lithium-Ion Battery Anode Material

(Okayama University · JST-CREST) ○Hideki Hashimoto · (IMS) Genki Kobayashi · (Okayama University) Ryo Sakuma · Tatsuo Fujii · (Okayama University · JST-CREST) Naoaki Hayashi · Tomoko Suzuki · (Tokyo Institute for Technology) Ryoji Kanno · (Okayama University · JST-CREST) Mikio Takano · Jun Takada

- 3E12 Synthesis and evaluation of battery characteristic $\text{Li}_4\text{Ti}_5\text{O}_{12}$ from Titanate Nanotube
(Osaka Prefecture University) ○Tadahiko Morinaga · Shunsuke Yagi · (Osaka Prefecture University · Tohoku University) Atsushi Nakahira
- Energy reference material / 二次電池 (正極材料)**
- (13:00) (Chairman 庄司真雄)
- 3E17 Flux growth of stoichiometric R-3m layered active material crystals from nitrate raw materials
(Shinshu University) ○Takeshi Kimijima · Nobuyuki Zettsu · (DENSO) Kenichiro Kami · (Shinshu University) Syuji Oishi · Katsuya Teshima
- 3E18 Synthesis of olivine-type cathode material by solution process and evaluation
(Osaka Prefecture University) ○Masakazu Togo · Shunsuke Yagi · (Osaka Prefecture University · Tohoku University) Atsushi Nakahira
- 3E19 Improvement of cycling properties by Fe substitution for $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ as a 5 V class cathode active material for lithium secondary batteries
(Sumitomo Metal Mining) ○Ryosuke Okamoto · Yoshiyuki Abe · Mitsukuni Kondo · Kensaku Mori
- 3E20 Effect of depth of charge capacity on cycleability of Li-rich solid solution cathode
(Tokyo Metropolitan University) ○Ken Sasaki · Hirokazu Munakata · Kiyoshi Kanamura
- 3E21 Discharge voltage of 2.7 V in the lithium battery using Fe_2O_3 as a cathode material
(Tokyo University of Science) Kazusada Takahashi · Yuki Yamaguchi · Kenjiro Fujimoto · ○Shigeru Ito

★★ March 20 (Fri) (Room G) ★★

- Environment and energy related material / ゼオライト**
- (9:00) (Chairman 井野川人姿)
- 3G01 Evaluation of Cs adsorption for Na-P1 type zeolite and mordenite obtained by artificial synthesis
(Ehime University) ○Kohei Yoshida · Erni Johan · Naoto Matsue · Yoshiteru Itagaki · Hiromichi Aono
- 3G02 Synthesis of mordenite – magnetite composite materials and their Cs^+ adsorption properties and magnetic collection ability
(Ehime University) ○Noriaki Kaji · Tafu Kunitomo · Erni Johan · Naoto Matsue · Yoshiteru Itagaki · Hiromichi Aono
- 3G03 Preparation of hydrogarnet/zeolite composites (Nagoya Institute of Technology) ○Kazuya Suzumura · Hiroataka Maeda · Toshihiro Kasuga
- 3G04 Synthesis of the Y-type zeolite membrane by conversion of seeding dry-gel
(Nagoya Institute of Technology) ○Sawao Honda · Masahiro Nawa · Thi Thuy Buy · Yusuke Daiko · Yuji Iwamoto
- (10:00) (Chairman 磯部敏宏)
- 3G05F **[Frontiers]** Development of porous substrates for ceramic membranes
(Noritake Co., Limited) ○Keita Miyajima · Tomokazu Eda · Hirokazu Watanabe · (Nagoya Institute of Technology) Sawao Honda · Yuji Iwamoto

- Environment and energy related material / カーボン**
- (10:30) (Chairman 磯部敏宏)
- 3G07 CO_2 and CH_4 adsorption behavior and separation property of nanoporous carbon
(Nagaoka University of Technology) ○Yoshikuni Ishibashi · Guancheng Li · Ikumi Toda · Keiji Komatsu · Shigeo Ohshio · (Fuse Technonet) Yoshinori Tsuda · (Nagaoka University of Technology) Hidetoshi Saitoh
- 3G08 True density evaluation of nanoporous carbon by helium displacement method
(Nagaoka University Tech.) ○Jie Zhu · Ikumi Toda · Shigeo Ohshio · Keiji Komatsu · Hidetoshi Saitoh · (Fuse Technonet) Yoshinori Tsuda
- 3G09 Relationship between alkali activation degree and true density of nanoporous carbon fabricated from rice husk
(Nagaoka University Tech.) ○Jie Zhu · Ikumi Toda · Shigeo Ohshio · Keiji Komatsu · Hidetoshi Saitoh · (Fuse Technonet) Yoshinori Tsuda

- Environment and energy related material / 元素戦略**
- (11:15) (Chairman 伴隆幸)
- 3G10S Synthesis of alkali metal rhodates soluble in hydrochloric acid
(National Institute of Advanced Industrial Science and Technology (AIST)) ○Ryo Kasuya · Takeshi Miki · Hisashi Morikawa · Yutaka Tai
- 3G11 Structural investigation of Si and/or P-containing ferrihydrites with structural similarity to biogenous iron oxides
(Okayama University) ○Tomoyuki Maekawachi · Yasuhiko Benino · Tokuro Nanba · Hideki Hashimoto · Jun Takada

- Environment and energy related material / イオン除去**
- (13:00) (Chairman 笹井亮)
- 3G17 Dissolution rate and removal rate of fluoride ion of carbonated hydroxyapatite in acidic solution
(Tohoku University) ○Sota Terasaka · Masanobu Kamitakahara · Taishi Yokoi · Hideaki Matsubara
- 3G18 Preparation of carbamate-stabilized vaterite particles for strontium collection
(National Institute for Materials Science) ○Jin Nakamura · Yoshio Sakka · (Nagoya Institute of Technology) Toshihiro Kasuga

- Environment and energy related material / 再資源化**
- (13:30) (Chairman 笹井亮)
- 3G19 Preparation and characterization of re-melting and solidifying body of water-granulated blast furnace slag in a reduction atmosphere
(Nagoya Institute of Technology) ○Takeshi Miyake · Shinobu Hashimoto · Sawao Honda · Yuji Iwamoto
- 3G20 Separation of iron and titanium components from carbo-thermally treated ilmenite by EDTA treatment
(Okayama University) ○Kouzi Yamamoto · Yoshikazu Kameshima · Shunsuke Nishimoto · Michihiro Miyake

- Environment and energy related material / ガス吸収**
- (14:00) (Chairman 粕谷亮)
- 3G21 Oxygen storage property of the Cr containing delafossite-type cupper oxides
(Akita University) ○Sumio Kato · Ryunosuke Kawashima · Masataka Ogasawara
- 3G22 Fabrication and evaluation of oxygen enrichment device using electric current heating of $\text{Ca}_2\text{AlMnO}_{5+\delta}$
(Nagaoka University of Technology) ○Yudai Suzuki · Tomoichiro Okamoto · (Salesian Polytechnic) Yuichiro Kuroki · (JFCC) Masasuke Takata
- 3G23 Annealing treatment and optical properties for TiFe alloys prepared by mechanical alloying
(Nagaoka University of technology) ○Soya Manriki · Tomoichiro Okamoto · (Salesian Polytechnic) Yuichiro Kuroki · (JFCC) Masasuke Takata
- 3G24 CO_2 fixation by electrolysis with seawater
(Shizuoka University) ○Yuya Minamihata · Seiichi Suda · (Chubu Electric Power Co., Inc.) Mineo Komoda · Kiyoshi Komura

(15 : 00) (Chairman 橋本英樹)

3G25 Reductive-resistance and oxygen storage capacity of Sr-Fe mixed oxides

(Kyoto University) ○Kosuke Beppu · Saburo Hosokawa · (Kyoto University · JST · PRESTO) Kentaro Teramura ·
(Kyoto University) Tsunehiro Tanaka

Environment and energy related material / 漆喰・顔料

(15 : 15) (Chairman 橋本英樹)

3G26 Rapid fabrication of the hardened bodies of plaster

(Nagoya Institute of Technology) ○Shinobu Hashimoto · Wataru Shimoda · Sawao Honda · Yuji Iwamoto

3G27 Novel Environment-friendly Inorganic Green Pigments Based on Rare Earth Cuprate

(Osaka University) ○Toshiyuki Masui · Naoki Takeuchi · Hiroki Nakado · Nobuhito Imanaka

★★ March 20 (Fri) (Room H) ★★

Dielectric material / 圧電体薄膜

(9 : 30) (Chairman 柿本健一)

3H03AS **[The 69th CerSJ Awards]** Development of perovskite-type piezoelectric thin films ~Direction of future materials~

(Tokyo Institute of Technology) ○Shintaro Yasui · Hiroshi Funakubo · Mitsuru Itoh

3H05 Structural evaluations of PMN-PT thin films refer to MPB shift

(Tohoku University) ○Cangyu Fan · Takanori Kiguchi · Akihiro Akama · Toyohiko Konno

3H06 Effects of nanoporous LaNiO₃ oxide seeding layer on electrical properties of CSD-derived PMN-PT thin films on Si wafer

(Shizuoka University) ○Takashi Arai · Naonori Sakamoto · Naoki Wakiya · Hisao Suzuki ·

(Kitami Institute of Technology) Tomoya Ohno · Takeshi Matsuda

Dielectric material / 圧電センサ・トランスデューサ

(10 : 30) (Chairman 柿本健一)

3H07 Development of the general-purpose model viscoelastic sensor using the multi-layered piezoelectric actuator

(Tokyo Tech.) ○Kento Obata · Takuya Hoshina · Hiroaki Takeda · Takaaki Tsurumi

(10 : 45) (Chairman 安井伸太郎)

3H08 Synthesis of semi-spherical-shell PZT by slip casting and its ultrasonic properties

(Shizuoka University) ○Naoki Wakiya · Tomoyo Suzuki · Naoki Yamamoto · Naonori Sakamoto · Hisao Suzuki ·

(Honda Electronics) Nagaya Okada · (Tokyo Institute of Technology) Kazuo Shinozaki

3H09 Multilayer structure of ceramic particle-dispersed piezoelectric fabrics for vibration energy harvesting

(Nagoya Institute of Technology) ○Minato Kato · Ken-ichi Kakimoto

3H10S Preparation of Hydrothermally-synthesized Flexible (K,Na)NbO₃ Films and Their Characterization

(Tokyo Institute of Technology) ○Hiroshi Funakubo · Takahisa Shiraishi · Noriyuki Kaneko · Minoru Kurosawa · (Sophia University)

Hiroshi Uchida · (National Institute of Advanced Industrial Science and Technology (AIST)) Yasuhiro Suzuki · Takeshi Kobayashi

3H11 Characterization of material constants of gehlenite single crystals for piezoelectric application

(Tokyo Institute of Technology) ○Kyohei Yoshida · Hiroaki Noguchi · Hiroaki Takeda · Takuya Hoshina · Takaaki Tsurumi

3H12 Experiment of the PVDF pyroelectric detector with carbon nanotube transcription coating and construction of characterization system

(Nagaoka University of Technology) ○Kazuhiro Yoshida · Tadachika Nakayama · Hisayuki Suematsu · Tsuneo Suzuki · Koichi Niihara

Dielectric material / 電気光学効果・ドメイン壁評価

(13 : 00) (Chairman 和田智志)

3H17 Measurement of new electro-optic ceramics using microscopic measurement system for electro-optic effect

(Tokyo Tech.) ○Ryuta Yamamoto · Takuya Hoshina · Hiroaki Takeda · Takaaki Tsurumi

3H18 Analysis of domain wall for (Na,K)Nb₃ ceramics by microscopic Raman spectroscopy

(Nagoya Institute of Technology) ○Yuya Taniguchi · Ken-ichi Kakimoto

Dielectric material / 構造制御圧電セラミックス

(13 : 30) (Chairman 青柳倫太郎)

3H19 Microstructure and Piezoelectric Properties of (111)-oriented Barium Titanate Ceramics Fabricated by an Electrophoretic Deposition in a High Magnetic Field

(University of Yamanashi) ○Eigo Kobayashi · Shintaro Ueno · Kouichi Nakashima · Nobuhiro Kumada · Satoshi Wada ·

(National Institute for Materials Science) Tohru Suzuki · Tetsuo Uchikoshi · Yoshio Sakka

3H20 Preparation and Piezoelectric Properties of <110> Grain-oriented Ceramics with Barium Titanate – Bismuth Sodium Titanate by Reactive Templated Grain Growth (RTGG) Method

(The University of Yamanashi) ○Ryo Ito · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada ·

(Honda Electronics) Tonshaku Tou · Yuichi Maida

3H21 Preparation of BKT-BMT-BF System Ceramics with Nano/Macro Complex Domain Configuration and Their Piezoelectric Properties

(University of Yamanashi) ○Shin Aritzumi · Shintarou Ueno · Kouichi Nakashima · Satoshi Wada ·

(KONICA MINOLTA, INC.) Hisashi Minemoto

(14 : 15) (Chairman 和田智)

3H22 Fabrication of NaNbO₃-BaTiO₃ lead-free piezoelectric ceramics by two step sintering and characterization of their electrical properties

(Nagoya Institute of Technology) ○Soichi Banno · Rintaro Aoyagi

3H23 Piezoelectric properties of (Bi_{1/2}Na_{1/2})TiO₃-BiFeO₃ ceramics

(Ryukoku University) ○Ichiro Fujii · Yutaka Ito · Teppei Suzuki · Takahiro Wada

★★ March 20 (Fri) (Room I) ★★

Electroconductive material / 層状化合物

(9 : 15) (Chairman 舟窪浩)

3I02 Topotactic reaction and superconductivity of layered bismuth sulfide oxides

(The University of Tokyo) ○Hiraku Ogino · Tomoyuki Okada · Hiroyuki Yakita · Jun-ichi Shimoyama · Kohji Kishio ·

(National Institute of Advanced Industrial Science and Technology) Akira Iyo · Hiroshi Eisaki

- 3I03 Synthesis, Structure, and Magnetic Properties of New Square Lattice Magnets with Square Planar Coordination
(National Institute for Materials Science) ○Yoshihiro Tsujimoto · Clastin Sathish · Yoshitaka Matsushita · Kazunari Yamaura · Tetsuo Uchikoshi ·
(The University of Tokyo) Tendai Haku · Takatsugu Masuda · (Australian Nuclear Science and Technology Organization) Maxim Avdeev
- 3I04 High Pressure Synthesis of Novel Mixed-Anion Perovskites
(Kyoto University) ○Cédric Tassel · Yoshinori Kuno · Yoshihiro Goto · Takafumi Yamamoto · Yoji Kobayashi · Hiroshi Kageyama
- 3I05 Enhancement of thermoelectric performance of TiS₂/organic hybrid superlattices by intercalation of polar organic molecules
(Nagoya University) ○Chunlei Wan · Y. Kodama · M. Kondo · Kunihito Koumoto
- 3I06 Effects of Calcination Condition on Porous Reduced Titanium Oxides and Oxynitrides via Preceramic Polymer Route
(Kyoto University) ○George Hasegawa · Yoji Kobayashi · Hiroshi Kageyama · Takeshi Abe · Kazuyoshi Kanamori · Kazuki Nakanishi

Electroconductive material / 透明導電体・ワイドギャップ

- (10 : 30) (Chairman 篠崎和夫)
- 3I07 Sol-Gel-Derived Amorphous IGZO-TFT Fabrication and its Performance
(Osaka University) ○Tohru Sugahara · Takuro Matsuo · Yukiko Hirose · Katsuaki Suganuma
- 3I08 Preparation of ITO thin films from aqueous solutions of metal salts by low-speed dip-coating
(Kansai University) ○Tkashi Ito · Hiroaki Uchiyama · Hiromitsu Kozuka
- 3I09 Novel oxide semiconductor: wurtzite-type β -CuGaO₂
(Osaka University) ○Issei Suzuki · Hiraku Nagatani · Takahisa Omata · (Toyama National College of Technology) Masao Kita ·
(University of Yamanashi) Hiroshi Yanagi · (NIMS) Naoki Ohashi
- 3I10 First principle calculation of wurtzite β -CuGaO₂
(Osaka University) ○Issei Suzuki · Hiraku Nagatani · Takahisa Omata · (Toyama National College of Technology) Masao Kita ·
(University of Yamanashi) Yuki Iguchi · Chiyuki Sato · Hiroshi Yanagi · (NIMS) Naoki Ohashi
- 3I11 Low-temperature epitaxy of β -Ga₂O₃ thin film by PLD using NiO buffer layer
(Tokyo Institute of Technology) ○Akifumi Matsuda · Daiji Fukuda · Daishi Shiojiri · Mamoru Yoshimoto · (Toshima Manufacturing Co., Ltd.)
Nobuo Tsuchimine · (Kanagawa Industrial Technology Center · Tokyo Institute of Technology) Satoru Kaneko

★★ March 20 (Fri) (Room K) ★★

Liquid phase process / ソルボサーマル反応

- (9 : 00) (Chairman 柳澤和道)
- 3K01 Synthesis of Nb-Ti mixed oxide by a solvothermal method and its performance for selective photooxidation
(Kyoto University) ○Saburo Hosokawa · Kazuki Tamai · (Kyoto University · JST · PRESTO) Kentaro Teramura ·
(Kyoto University) Tsunehiro Tanaka
- 3K02 Optimization of Synthesis Conditions for Barium Titanate Nanocubes using Microwave-assisted Solvothermal Method
(The University of Yamanshi) ○Mutsuki Watanabe · Kouichi Nakashima · Shintaro Ueno · Satoshi Wada
- 3K03 Synthesis of Sodium Niobate Nanocubes using Microwave-assisted Solvothermal Method
(University of Yamanashi) ○Kenta Ohshima · Kouichi Nakashima · Shintaro Ueno · Satoshi Wada

Liquid phase process / 水熱合成

- (9 : 45) (Chairman 加藤一実)
- 3K04 structure and magnetic properties of ferrite nanosheet synthesized by hydrothermal method
(Tokyo Institute of Technology) ○Yuuki Kamei · Yuki Makinose · Ken-ichi Katsumata · Nobuhiro Matsushita ·
(Kumamoto University) Takaaki Taniguchi
- 3K05S Synthesis of colossal negative thermal expansion material BiNi_{1-x}Fe_xO₃ by organic acid complex method and hydrothermal method
(Tokyo Institute of Technology) ○Kantaro Arai · (Nagoya Institute of Technology) Manabu Gomi ·
(Tokyo Institute of Technology) Masaki Azuma
- 3K06 Hydrothermal synthesis and growth mechanism of anisotropically-grown rutile-type TiO₂
(Tohoku University · Institute of Multidisciplinary Research for Advanced Materials) ○Sungho Lee ·
Makoto Kobayashi · Hideki Kato · Masato Kakihana
- (10 : 45) (Chairman 小林亮)
- 3K08 Hydrothermal Synthesis of Fine Particles in the Ceria-Niobate System (Aichi Institute of Technology) ○Masanori Hirano · Minagawa Kosuke
- 3K09 Shape and Surface Morphology Control of Barium Titanate Nanocubes by Oleic Acid/Tert-Butylamine Assistant Hydrothermal Process
(National Institute of Advanced Industrial Science and Technology) ○Qiang Ma · Ken-ichi Mimura · Kazumi Kato
- 3K10 Nitrogen-doped ZnO Rods Synthesized from an Ammine-Hydroxo Zinc Complex
(Tokyo Institute of Technology) ○Taiki Ihara · Ken-ichi Katsumata · Kiyoshi Okada · Nobuhiro Matsushita ·
(Meiji University) Tomoaki Watanabe
- 3K11 Hydrothermal synthesis of Zn doped chalcopyrite (Kochi University) ○Akane Uehara · Ayumu Onda · Kazumiti Yanagisawa

Liquid phase process / 熱処理・溶融プロセス

- (13 : 00) (Chairman 片桐清文)
- 3K17 Determination of Product Phases during Cooling Li_xLa_{(1-x)/3}NbO₃ Melt by SCFZ Method
(University of Yamanashi) Risa Yoshihara · Chie Nakazawa · Masanori Nagao · Satoshi Watauchi · ○Isao Tanaka
- 3K18 Synthesis, crystal structure and Na⁺ ion conductivity of grain-oriented polycrystalline sodium titanogallate
(Nagoya Institute of Technology) ○Ryo Hasegawa · Momoko Okabe · Toru Asaka · Nobuo Isizawa · Koichiro Fukuda
- 3K19 Layered Lanthanum Titanates Prepared in Alkali Chloride Fluxes via Molten Salt Synthesis
(Toyota Technological Institute) ○Aslihan Orum · (Toyota Central R&D Laboratories) Kazumasa Takatori ·
(Toyota Technological Institute · Toyota Central R&D Laboratories) Toshihiko Tani
- 3K20 Synthesis of Reduced Titanium Oxide Possessed Anatase or Rutile Structure (Meijo University) Keishi Iwata · ○Takahiro Saida

★★ March 20 (Fri) (Room L) ★★

Process of powder / カーボンコンポジット

(9 : 00) (Chairman 吉田英弘)

- 3L01 Preparation of graphene-coated elongated Si_3N_4 particles by mechanical treatment process
(Yokohama National University) ○Junichi Tatami · Nanako Sugimoto · (Kanagawa Academy of Science and Technology)
Takuma Takahashi · (Yokohama National University) Motoyuki Iijima
- 3L02 Fabrication of c-axis oriented Si_3N_4 ceramics in a low and static magnetic field
(Kanagawa Academy of Science and Technology) ○Takuma Takahashi · (Yokohama National University)
Nanako Sugimoto · Junichi Tatami · Motoyuki Iijima
- 3L03 Orientation nanocarbon fillers by magnetic field in Poly (vinylidene fluoride) and optical absorptivity evaluation
(Nagaoka University of Technology) ○Tan Minh Triet Huynh · Tadachika Nakayama · Kazuhiro Yoshida ·
Hong-Baek Cho · Hisayuki Suematsu · Tsuneo Suzuki · Koichi Niihara

Process of powder / 焼成・焼結

(9 : 45) (Chairman 森田孝治)

- 3L04 Combustion synthesis of $\alpha\text{-Si}_3\text{N}_4$ assisted with NaCl additive (Hokkaido University) ○Shota Suzuki · Jing Niu · Xuemei Yi · Tomohiro Akiyama
- 3L05 Accelerated flash-sintering in polycrystalline yttria by nickel cation-doping
(National Institute for Materials Science) ○Hidehiro Yoshida · Yoshio Sakka · (Nagoya University) Takahisa Yamamoto
- (10 : 15) (Chairman 林拓道)
- 3L06 Carbon Distribution within MgAl_2O_4 Spinel Fabricated by Spark-Plasma-Sintering (SPS) Processing
(NIMS) ○Koji Morita · Byung-Nam Kim · Hidehiro Yoshida · (Kitami Institute of Technology) Keiji Hiraga · (NIMS) Yoshio Sakka
- 3L07 Sintering kinetics of submicron α -alumina powder by spark plasma sintering
(Nippon Steel & Sumitomo Metal Corporation) ○Yoshihiro Tamura · Kiyoshi Goto · (CSIC-University of Seville) Eugenio Zapata-Solvas ·
(University of Seville) Diego Gómez-García · Arturo Domínguez-Rodríguez
- 3L08 The activation of a waste material by mechanochemical treatment and the characterization of material
(Nagoya institute of technology) ○Kunihiko Kato · Takashi Shirai · Masayoshi Hui

Liquid phase process / 複合材料

(11 : 00) (Chairman 林拓道)

- 3L09 Effect of ZrO_2 addition in SiO_2 on stability and acidic properties
(Ehime University) ○Kenitiro Yamada · Ryoji Takahashi · Fumiya Sato · Masafumi Onishi

Liquid phase process / 粒子・コアシェル

(11 : 15) (Chairman 三村憲一)

- 3L10 Continuous hydrothermal synthesis of copper nanoparticles using a flow reaction system
(National Institute of Advanced Industrial Science and Technology) ○Hiromichi Hayashi · Takashi Nakamura ·
Yoshito Wakui · Takeo Ebina · (Tohoku University) Richard L. Smith
- 3L11 Preparation of Monodispersed $\text{SiO}_2\text{-TiO}_2$ Core-Shell Particles via the Layer-by-Layer Assembly
(Hiroshima University) ○Yuki Tanaka · Kiyofumi Katagiri · Kei Inumaru
- 3L12 Investigation of Formation Process of Hydrophobized Inorganic-Nanoparticle@Silica Type Core-Shell Particle
(Hiroshima University) ○Masaya Narahara · Kaori Sako · Kiyofumi Katagiri · Kei Inumaru