

The Ceramic Society of Japan Annual Meeting 2016 Program

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

★★ March 14 (Mon) (Room A) ★★

14. 気相プロセス Vapor phase process

CVD

(13 : 30) (Chairman 塩田忠)

1A19 Strontium oxide films synthesized on single crystalline magnesia substrate by atmospheric chemical vapor deposition
(Nagaoka University of Technology) ○Keiji Komatsu · Hidetoshi Saitoh

1A20 Preparation of ZnO films using electrospray-laser CVD
(Japan Fine Ceramics Center) ○Satoshi Suehiro · Teiichi Kimura · Hajime Okawa · Seiji Takahashi

(14 : 00) (Chairman 木村禎一)

1A21 Microstructure of Al_2O_3 - ZrO_2 nanocomposite films prepared by laser chemical vapor deposition
(Tohoku University) ○Akihiko Ito · Fumiyoshi Kobayashi · Masaru Kaneta · Takashi Goto

MBE

(14 : 15) (Chairman 木村禎一)

1A22S Analysis of transition metal nitrides thin films by thermal decomposition and first principle calculation
(University of Hiroshima) ○Neota Furuichi · Tomohito Uno · Kei Inumaru

受賞講演

(14 : 30) (Chairman 後藤孝)

1A23A [The 70th CerSJ Awards] Preparation of dielectric-metal nano composite films and their new multi-functional properties
(Tohoku University) ○Hiroshi Masumoto

★★ March 14 (Mon) (Room B) ★★

13. 液相プロセス Liquid phase process

ナノシート

(13 : 00) (Chairman 金森主祥)

1B17 Fabrication of mesoporous LHS nanocrystalline films and thermal conversion to mesostructural transition metal compounds
(Osaka Prefecture University) ○Naoki Tarutani · Yasuaki Tokudome · (Universidad de Buenos Aires) Matias Jobbágy ·
(Comisión Nacional de Energía Atómica) Federico Viva · (Universidad Nacional de General San Martín) Galo Soler-Illia ·
(Osaka Prefecture University) Masahide Takahashi

1B18 Fabrication of Layered Hydroxide Zinc Carbonate Films by a Chemical Bath Deposition Method with Suppressing Homogeneous Nucleation
(Keio University) ○Hisasuke Kajihara · Manabu Hagiwara · Shinobu Fujihara

1B19 Preparation of $TiS_{2-x}Se_x$ nanosheets and their assembly
(The University of Utsunomiya) ○Yuki Nakamura · Kazushi Funaki · Takamori Igarashi · Ketaro Tezuka · Yue Jin Shan

(13 : 45) (Chairman 高橋雅英)

1B20 Exfoliation and light-absorption properties of surface-functionalized layered titanate
(Keio University) ○Gentoku Nakada · Yuya Oaki · Hiroaki Imai

1B21 Synthesis and application of metal oxide monolayers through surface modification with hydrophobic organic molecule
(Keio University) ○Yuna Yamamoto · Yuya Oaki · Hiroaki Imai

その他材料

(14 : 15) (Chairman 高橋雅英)

1B22 Influence of the Reduction Temperature to Titanium Suboxide
(Meijo University) Keishi Iwata · ○Takahiro Saida

(14 : 30) (Chairman 緒明佑哉)

1B23 Synthesis of $CaCo_2O_4$ by Pyrolysis of Hydroxide Precursors
(Keio University) ○Rina Shimonishi · Manabu Hagiwara · Shinobu Fujihara

1B24 Synthesis of C12A7 fine particles by liquid phase process and preparing of electrode
(The University of Kyushu) ○Shizuka Moriya · Miki Inada · Naoya Enomoto · Katsuro Hayashi

1B25 Synthesis of heterogeneous Metal Organic Frameworks via stepwise growth on oriented $Cu(OH)_2$
(Osaka Prefecture University) ○Ken Ikigaki · Takaaki Hara · Kenji Okada · Yasuaki Tokudome · Masahide Takahashi

★★ March 14 (Mon) (Room C) ★★

05. ガラス・フォトンクス材料 Glass and photonic materials

フォトンクス理論

(13 : 00) (Chairman 小林亮)

1C17 Optimization of trap depth in $Y_3Al_{5-y}Ga_yO_{12}:Ce^{3+}$ -based persistent phosphors by Yb^{3+} codoping
(Kyoto University) ○Shun Miyano · Jumpei Ueda · Setsuhisa Tanabe

1C18 Insight into Luminescent Mechanism of Pr-doped $(Ca,Sr)TiO_3$ from Binding Energy Diagram
(Kyoto University) ○Kotaro Yasuda · Jumpei Ueda · Setsuhisa Tanabe

- 1C19 Design of novel persistent phosphors using vacuum referred binding energy (VRBE) diagram in yttrium aluminum gallium garnet (YAGG) host
(Kyoto University) ○Jian Xu · Jumpei Ueda · Setsuhisa Tanabe
- 1C20 Systematic First-Principles Calculations of Charge Transfer Transitions of Transition Metal Ions in α -Al₂O₃ and optimization of the computational condition
(Kansai Gakuin University) ○Shota Takemura · Kazuyoshi Ogasawara

周期構造

(14 : 00) (Chairman 上田純平)

- 1C21 Fabrication of anisotropic plasmonic meso-structures by oblique metal deposition onto mesoporous silica thin films
(Kyoto University) ○Shiguma Uno · (Kyoto University · JST-PRESTO) Shunsuke Murai · (Kyoto University) Koji Fujita · Katsuhisa Tanaka

波長変換材料

(14 : 15) (Chairman 上田純平)

- 1C22 Investigation of up-conversion phosphors for full-color three-dimensional volumetric display
(Tokai University) ○Masaki Tanaka · Sayaka Tamura · Satoshi Ogawa · Noriyuki Naruse · Koji Tomita · (Tohoku University) Masato Kakhiana
- 1C23 Preparation of upconversion phosphor SrZrO₃ and evaluation of its fluorescent characteristic
(Utsunomiya University) ○Tatsuya Kawatani · Yue Jin Shan · Keitarou Teduka
- 1C24 Investigation of the influence of host crystal on up-conversion luminescence
(Tokai University) ○Sayaka Tamura · Satoshi Ogawa · Koji Tomita · (Tohoku University) Makoto Kobayashi · Masato Kakhiana
- 1C25 Sol-gel synthesis and Bi³⁺-assisted Pr³⁺ luminescence of Pr³⁺ doped Ca_{1-x}Bi_xTiO₃ thin films
(Nagoya Institute of Technology) ○Hiroshi Nakamori · Tomokatsu Hayakawa

★★ March 14 (Mon) (Room D) ★★

05. ガラス・フォトンクス材料 Glass and photonic materials

企業フロンティア講演

(13 : 00) (Chairman 矢野哲司)

- 1D17F [Frontiers] Development of radio wave transmitting heat shielding automotive glass (Central Glass Co., Ltd.) ○Kensuke Izutani · Naoya Mori

受賞講演

(13 : 30) (Chairman 矢野哲司)

- 1D19A Simultaneous Removal of SO_x and NO_x for Glass Manufacturing System
(Nihon Yamamura Glass Co., Ltd. · Osaka Prefecture University) ○Hashira Yamamoto · (Osaka Prefecture University) Tomoyuki Kuroki · Hidekatsu Fujishima · Masaaki Okubo

ガラス形成 (核燃料再処理)

(14 : 15) (Chairman 赤井智子)

- 1D22 Structural Role of Vanadium Ions in Synthesized High-level Nuclear Waste Glass
(Osaka University) ○Masanori Suzuki · Norimasa Umetsaki · Toshihiro Tanaka · (Chiba University) Takahiro Ohkubo · (IHI Corporation) Toshiaki Kakhihara · Taku Hashimoto
- 1D23 Effect of Al₂O₃/B₂O₃ ratio on the loading capacity of HLW in aluminoborosilicate glass system using a new combinatorial approach
(Tokyo Institute of Technology) ○Koudai Mori · Shinya Ohashi · Tetsuo Kishi · Tetsuji Yano · Kenji Takeshita · (Japan Nuclear Fuel Limited) Yoshiyuki Miura · Norio Kanehira

カルコゲン化物ガラス

(14 : 45) (Chairman 赤井智子)

- 1D24 Ag Photodoping in Ge-Sb-S bulk glasses (Kyoto Institute of Technology) ○Kayo Hosoya · Arifumi Okada · Takashi Wakasugi · Kohei Kadono
- 1D25 Preparation of glasses based on Ga₂S₃-Sb₂S₃-MX (M=Ag, Cs, X=Halogen) systems and compositional dependences of the optical transmission spectra
(Kyoto Institute of Technology) ○Tomoyo Ashida · Arifumi Okada · Takashi Wakasugi · Kohei Kadono

★★ March 14 (Mon) (Room E) ★★

03. 導電性材料 Electroconductive material

デバイス材料

(13 : 00) (Chairman 柳博)

- 1E17 Effect of microstructure on Conductance Quantization in Ta₂O₅ thin films for RRAM
(Tokyo Institute of Technology) ○Tomoya Kubo · Ryo Shirata · Hiroaki Minami · Tadashi Shiota · Akio Nishiyama · Osamu Sakurai · Kazuo Shinozaki
- 1E18 Fabrication and pressure sensitive property evaluation of stacked cup carbon nanotubes (SCCNTs)/polymer nanocomposite micro-films
(Extreme Energy-Density Research Institute (EDI), Nagaoka University of Technology) ○Minh Triet Tan Huynh · Tadachika Nakayama · Thanh Son Nguyen · Hisayuki Suematsu · Tsuneo Suzuki · Koichi Niihara · (Institute of Nanosensor Technology, Hanyang University) Hong-Baek Cho

エピタキシャル薄膜

(13 : 30) (Chairman 柳博)

- 1E19 High electron mobility of Nb-doped SrTiO₃ films with a strain field induced by Sr vacancy clusters
(Japan Fine Ceramics Center) ○Shunsuke Kobayashi · (National Institute for Materials Science) Tsuyoshi Ohnishi · (The University of Tokyo) Naoya Shibata · (The University of Tokyo · Japan Fine Ceramics Center) Yuichi Ikuhara · (Nagoya University · Japan Fine Ceramics Center) Takahisa Yamamoto
- 1E20 Low temperature epitaxy of wide bandgap β -Ga₂O₃ thin films by laser processing
(Tokyo Institute of Technology) ○Akifumi Matsuda · Daishi Shiojiri · Daiji Fukuda · Hiroki Uchida · Mamoru Yoshimoto · (Toshima Manufacturing) Nobuo Tsuchimine · (Kanagawa Industrial Technology Center) Satoru Kaneko
- 1E21 Preparation of CuAlO₂ thin films by rf-sputtering using CuAlO₂ target (Ishinomaki Senshu University) ○Takashi Ehara · Ryo Iizaka · Marina Abe

酸化物導電体

(14 : 15) (Chairman 小林俊介)

- 1E22 Influence of post annealing conditions on electrical properties of amorphous Cd-Ga-O thin films
(University of Yamanashi) ○Chiyuki Sato · Yota Kimura · Hiroshi Yanagi
- 1E23S Synthesis and Characterization of Transparent ZnO Thin Films by Solution Process
(IMRAM, Tohoku University) ○Shu Yin · Saki Fukui · Xiaoying Wu · Tsugio Sato
- 1E24 A H/O²⁺ exchangeability in titanium perovskite oxides
(Kyoto University) ○Fumitaka Takeiri · Kohei Aidzu · Riho Mikita · Takafumi Yakamoto · Yoji Kobayashi · Hiroshi Kageyama ·
(University of Tokyo) Takeshi Yajima
- 1E25 Synthesis and Electrical Conductivity of La-Sr-Al-Mg-O Perovskite Solid Solution
(Kagoshima University) ○Yumemi Iwaida · Yusuke Miyata · Yoshihiro Hirata · Soichiro Sameshima · Taro Shimonosono

★★ March 14 (Mon) (Room F) ★★**02. 誘電性材料 Dielectric material****プロセス**

(13 : 00) (Chairman 藤原忍)

- 1F17 Densification of Dielectric Ceramics by Solvothermal Solidification Method and Their Dielectric Properties
(University of Yamanashi) ○Kazuki Fukasawa · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada
- 1F18 Preparation of Barium Titanate Ceramics by Solvothermal Solidification Method in External Fields
(University of Yamanashi) ○Yuichi Endo · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada ·
(National Institute for Materials Science) Tohru Suzuki · Tetsuo Uchikoshi
- 1F19 Preparation of insulator/conductor nano-composite ceramics by solvothermal solidification method and their dielectric properties
(University of Yamanashi) ○Yasunao Sakamoto · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada ·
(Hiroshima University) Yoshihiro Kuroiwa · Chikako Moriyoshi · Eisuke Magome
- 1F20 Preparation of Barium Titanate/Bismuth-based Piezoelectrics Nanocomplex Ceramics by Solvothermal Solidification Method and Their Dielectric Properties
(University of Yamanashi) ○Ken Matsumoto · Yuichi Endo · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada
- (14 : 15) (Chairman 加藤一実)
- 1F22 Fabrication of BaTiO₃ Piezoelectric Ceramics with Mn-Doped Grain Boundaries
(The University of Keio) ○Akira Miyaura · Manabu Hagiwara · Shinobu Fujiwara
- 1F23 Preparation of (111)-oriented Barium Titanate Ceramics by an Electrophoretic Deposition in a High Magnetic Field with Hexagonal-Tetragonal Biphase Barium Titanate Particles
(University of Yamanashi) ○Kazuki Nukumizu · S. Ueno · K. Nakashima · N. Kumada · S. Wada ·
(National Institute for Materials Science) T. S. Suzuki · T. Uchikoshi, Y. Sakka ·
(Hiroshima University) E. Magome · C. Moriyoshi · Y. Kuroiwa
- 1F24 Preparation of Bi-system Complex Ceramics by Spark Plasma Sintering Method for DC-bias-free and Temperature-dependence-free Dielectrics
(University of Yamanashi) ○Haruki Maruyama · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada · (Ryukoku University) Ichiro Fujii
- 1F25 Evaluation of elastic properties on piezoelectric materials with various oriented composite structures
(Nagoya Institute of Technology) ○Takahiro Fujiwara · Teruaki Fuchigami · Ken-ichi Kakimoto ·
(National Institute of Advanced Industrial Science and Technology) Manabu Fukushima ·
(Friedrich-Alexander University of Erlangen-Nuremberg) Tobias Fey

★★ March 14 (Mon) (Room G) ★★**09. 環境・資源関連材料 Environment and energy related material****学術賞受賞講演**

(13 : 00) (Chairman 中島章)

- 1G17A [The 70th CerS] Awards] Design of functions of nano-structures and interfaces in composites and crystals of inorganic compounds
(Hiroshima University) ○Kei Inumaru

光触媒

(13 : 30) (Chairman 西本俊介)

- 1G19 Preparation of Y₃Fe_{5-x}M_xO₁₂ (M = Al, Ga) and their photocatalytic degradations of acetic acid and methanol
(The University of Utsunomiya) ○Masaru Tsukada · Keitaro Tezuka · Yue Jin Shan
- 1G20 Hydrothermal synthesis of TiO₂-modified hydroxyapatite with various morphology and its photocatalytic property
(Osaka University) ○Tomoyo Goto · Sung Hun Cho · Tohru Sekino
- 1G21 Controlling Shape and Size of BaNbO₂N Crystals by Flux Grown Ba₃Nb₄O₁₅ Crystals and Their Application to Visible-Light-Active Photocatalyst
(Shinshu University) ○Yukinori Murata · Tetsuya Yamada · Hajime Wagata · Shuji Oishi · Katsuya Teshima
- 1G22 Investigation of photocatalytic properties by cocatalyst loading on brookite TiO₂
(The University of Tokai) ○Katsuki Iwasaki · Koji Tomita · (The University of Tokyo Science) Ken-ichi Katsumata ·
(The University of Tohoku) Makoto Kobayashi · Masato Kakhana

濡れ性

(14 : 30) (Chairman 勝又健一)

- 1G23 Surface modification and self-cleaning property of TiO₂ thin film
(Okayama University) ○Shunsuke Nishimoto · Hiroaki Tomono · Yoshikazu Kameshima · Michihiro Miyake ·
(Industrial Technology Center of Okayama Prefecture) Eiji Fujii
- 1G24 Influence of oxide coatings on wetting properties of snail's shell
(Nagoya Institute of Technology) ○Ryota Yamagishi · Hirotaka Maeda · Toshihiro Kasuga · (Hokkaido University) Yasutaka Matuo
- 1G25 Effect of viscosity and polar term of droplet on dynamic hydrophobicity on self-assembled monolayer surface
(Kogakuin University) ○Yuki Okutomi · Naoya Yoshida · (Hokkaido University) Qiling Peng · Shen Ye · (Kogakuin University) Toshinori Okura

★★ March 14 (Mon) (Room H) ★★

06. 生体関連材料 Bioceramics

コンポジット・合成

(13:30) (Chairman 城崎由紀)

- 1H19 Fabrication of PLGA/Tricalcium Phosphate Cement Composite for Generating Pores with Time
(Tokyo Institute of Technology) ○Shota Ishii · Tomoaki Sugiyama · Toshiyuki Ikoma
- 1H20 Preparation of HAp-coated Tissue Culture Polystyrene Substrates Using Simulated Body Fluids
(Tokyo University of Science) ○Kazutoshi Iijima · Ryo Suzuki · Ayako Iizuka ·
(National Center for Child Health and Development) Nobutaka Kiyokawa ·
(Tokyo University of Science) Mineo Hashizume
- 1H21 Ductile silica/methacrylate hybrids for bone regeneration: Correlation between structure and properties
(Nagoya Institute of Technology) ○Anthony L. B. Macon · Toshihiro Kasuga · (Warwick University) Samuel J. Page · John V. Hanna ·
(Imperial College London) Siwei Li · Julian R. Jones

コンポジット・評価

(14:15) (Chairman 生駒俊之)

- 1H22 Biological evaluations of hydroxyapatite/collagen-(3-glycidoxypropyl)trimethoxysilane self-setting paste
(Meiji University) ○Taira Sato · (Kyushu Institute of Technology) Yuki Shirosaki · (Meiji University) Masaki Nagaya ·
Yoshinori Asano · Kazuaki Nakano · Hiroshi Nagashima · Mamoru Aizawa ·
(National Institute for Materials Science) Masanori Kikuchi
- 1H23 The evaluation of mechanical property and bone compatibility of chitosan-HAp composite mono-fiber
(Kyushu Institute of Technology) ○Takuma Okada · Toshiki Miyazaki · Yuki Shirosaki
- 1H24 Osteogenesis Penetration into Semipermeable Tough Hydrogel for Strong Bonding
(Hokkaido University) ○Takayuki Nonoyama · Susumu Wada · Ryuji Kiyama · Nobuto Kitamura ·
Takayuki Kurokawa · Tasuku Nakajima · Kazunori Yasuda · Jian Ping Gong

★★ March 14 (Mon) (Room I) ★★

01. エンジニアリングセラミックス Engineering ceramics

非酸化物

(13:00) (Chairman 中山忠親)

- 1I17 Ceramization Process of Polysilsesquioxanes in a Hydrogen Gas flow
(Osaka Prefecture University) ○Masaki Narisawa · Kenta Sasakawa · Hiroshi Inoue · (Synchrotron Analysis L.L.C.) Takayuki Hasegawa ·
(University of Hyogo) Norimasa Umesaki · Kazuhiro Kanda
- 1I18 Effect of nitriding parameters and thickness of Si powder compacts on nitridation
(National Institute of Advanced Industrial Science and Technology) ○Chika Matsunaga · You Zhou · (Japan Fine Ceramics Co., Ltd.) Dai Kusano ·
(National Institute of Advanced Industrial Science and Technology) Hideki Hyuga · Yu-ichi Yoshizawa · Kiyoshi Hira
- 1I19 Effect of Ti Metal Powder Addition on Hot-Press Sintering of Si_3N_4 (Osaka University) ○Sotaro Baba · Tomoyo Goto · Tohru Sekino
- 1I20 Three-dimensional observation of Yb_2O_3 doped Si_3N_4 ceramics by FIB-SEM serial sectioning technique
(Kanagawa Academy of Science and Technology) ○Takuma Takahashi · Tsukahara Yahagi ·
(Yokohama National University) Daisuke Kawai · Junichi Tatami · Motoyuki Iijima

ナノコンポジット

(14:00) (Chairman 関野徹)

- 1I21 Fabrication of Silicon-Nitride Hybrid System with Highly Regulated Structures
(Nagaoka University of Technology) ○Masanao Kanno · Naoto Matsutani · Hong-Baek Cho ·
Tadachika Nakayama · Tsuneo Suzuki · Hisayuki Suematsu · Koichi Niihara
- 1I22 Microstructure and Mechanical Properties of $\text{Y}_2\text{Ti}_2\text{O}_7/\text{SiC}$ nanocomposites
(Nagaoka University of Technology) ○Son Thanh Nguyen · Tadachika Nakayama · Hisayuki Suematsu · Tsuneo Suzuki · Koichi Niihara
- 1I23 Crystallization and Formation Mechanism of a Glass with $\text{Y}_2\text{Si}_2\text{O}_7$ -Mullite Eutectic Composition
(Nihon University) ○Shunkichi Ueno · Yohei Suzuki · Tomoe Tada · Tetsuya Yanai · (NIMS) Byung Koog Jang
- 1I24 Self-healing Ability on 5 vol%Ni/ Al_2O_3 Nano-composites at High-temperatures Oxidation
(Nagaoka University of Technology) ○Akinori Dake · Makoto Nanko
- 1I25 Evaluation of Environment Resistance of White Si-O-C(H) Ceramics at High Temperatures
(Osaka Prefecture University) ○Shu Takeuchi · Masaki Narisawa · Hirohumi Inoue

★★ March 14 (Mon) (Room K) ★★

10. エネルギー関連材料 Energy reference material

ナトリウムイオン二次電池

(13:15) (Chairman 日比野高士)

- 1K18 High pressure synthesis, Crystal chemistry and charge-discharge characteristics of CaFe_2O_4 type $\text{Na}(\text{Mn}_{1-x}\text{Fe}_x)_2\text{O}_4$
(The University of Nagoya) ○Eiichi Hirose · Yuichi Shirako · Ken Niwa · Masashi Hasegawa ·
(Panasonic corporation) Kensuke Nakura · Ryuichi Natsui
- 1K19S Preparation and characterization of sodium ion conducting glass-ceramics in the system $\text{Na}_3\text{PS}_4\text{-Na}_3\text{SnS}_4$
(Osaka Prefecture University) ○Yuta Nakamura · Naoto Tanibata · Masahiro Tatsumisago ·
(Osaka Prefecture University · Kyoto University) Akitoshi Hayashi
- 1K20 Low temperature sintering of NASICON solid electrolyte by the addition of Na_3BO_3 glass
(Osaka Prefecture University) ○Kenji Suzuki · Kousuke Noi · Akitoshi Hayashi · Masahiro Tatsumisago

(14 : 15) (Chairman 細野英司)

- 1K22 Electrochemical Properties as an Anode Material in the Sodium-Ion Battery of Morphologically Controlled TiO₂ Particles
(Saga University) ○Takashi Miura · Toshio Tri kai · Takanori Watari · Hideyuki Noguchi · Mitsunori Yada
- 1K23 A sulfur/carbon composite synthesized by selective extraction of titanium from Ti₂SC
(The University of Kyushu) ○Kei Kawahara · Miki Inada · Naoya Enomoto · Katsuro Hayashi

電極材料

(14 : 45) (Chairman 細野英司)

- 1K24 Synthesis of pore size controlled vertically oriented graphene film by electrophoretic deposition and freeze drying
(Shinshu University) ○Ryo Tanaka · Yusuke Ayato · Dai Mochizuki · Wataru Sugimoto

その他の電気化学デバイス

(15 : 00) (Chairman 細野英司)

- 1K25 Material Design of a Fuel-Cell type Battery Using Porous Carbon and Air Electrodes
(Nagoya University) ○Takashi Hibino · Kazuyo Kobayashi · Masahiro Nagao

★★ March 14 (Mon) (Room P) ★★

15 : 30~17 : 30

01. エンジニアリングセラミックス Engineering ceramics

- 1P001 Development of low temperature formation technology of high gas barrier film on PET using photo irradiation and polysilazane coating method
(Shibaura Institute of Technology) ○Yoshimi Yamasaki · Tomoji Ohishi · (NIMS)Toshihide Nabatame ·
(Osaka University) Kazuhiro Ito · Makoto Takahashi
- 1P002 Fabrication of magnesia ceramics with low electrical resistivity and excellent plasma resistance
(The University of Kagawa) ○Kazuki Okada · Takafumi Kusunose · (The University of Osaka) Toru Sekino
- 1P003 Microstructures and mechanical properties of mica/zirconia composites fabricated using fine mica composition glass powder
(Shinshu University) ○Syunya Iwasawa · Tomohiro Yamaguchi · Seiichi Taruta
- 1P004 High-Strength Pseudobrookite-Type MgTi₂O₇ by Spark Plasma Sintering
(University of Tsukuba) ○Hyoung-Won Son · Ryosuke Maki · Yoshikazu Suzuki · (National Institute for Materials Science) Byung-Nam Kim
- 1P005 Preparation and thermal expansion properties of ZrW_{2-x}MoxO₈ by spark plasma sintering method combined with hydrothermal process
(Tokyo University of Science) ○Hui Wei · Marin Hasegawa · Keshi Nishio
- 1P006 Evaluation of internal structure in alumina ceramics fabricated by centrifugal casting with well-dispersed slurry
(Nagaoka University of Technology) ○Akihiro Sato · Zenji Kato · Satoshi Tanaka
- 1P007 Fabrication and some properties of textured Ti₂AlN by slip casting in a strong magnetic field
(Tokyo University of Science · National Institute for Materials Science) ○Shotaro Musha · (National Institute for Materials Science) Akira Kasahara ·
Masahiro Tosa · Toru Suzuki · Toshiyuki Nishimura · (Tokyo University of Science · National Institute for Materials Science) Kenjiro Fujimoto ·
(National Institute for Materials Science) Yoshio Sakka
- 1P008 Fabrication and mechanical properties of textured Ti₃SiC₂ MAX phase systems
(Tokyo University of Science · National Institute for Materials Science) ○Yuichi Uchida · Shotaro Musha ·
(National Institute for Materials Science) Koji Morita · Toru Suzuki · Toshiyuki Nishimura ·
(Tokyo University of Science · National Institute for Materials Science) Kenjiro Fujimoto ·
(National Institute for Materials Science) Yoshio Sakka
- 1P009 Fabrication of highly electrically resistive ZrN with metallic conductivity
(The University of Kagawa) ○Hiroaki Fujisawa · Takafumi Kusunose · (The University of Osaka) Toru Sekino
- 1P010 Influence of humidity on wear behavior of AlN ceramics
(Yokohama National University) ○Ayuka Matsugami · Junichi Tatami · Motoyuki Iijima · (Sumitomo Electric Industries, Ltd.) Hideyuki Ohguni
- 1P011 Dopant Dependence of Microstructure for BT-BMT-BF Piezoelectric Ceramics
(The University of Yamanashi) ○Sarah Najwa Zamalik · Gopal Prasad Khanal · Ryo Iizuka · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada
- 1P012 Development of Metal Oxide composited Transparent Thick Ceramics film by Aerosol Deposition Method
(Toyoashi University of Technology) ○Yuichi Araki · Syun Ueyama · Go Kawamura · Atsunori Matsuda · Hiroyuki Muto
- 1P013 Effect of Reaction Condition on the Formation of Zinc Phosphate (Chiba Institute of Technology) ○Yuka Yamamoto · H. Shibata · K. Hashimoto
- 1P014 Evaluation of deformation of packed granules in powder compact by direct observation
(Nagaoka University of Technology) ○Tatsuaki Shibuya · Zenji Kato · Satoshi Tanaka · (Tokyo Institute of Technology) Koichi Yasuda
- 1P015 Correlation between electrical conductivity and catalytic property in 75V₂O₅-10P₂O₅-15B₂O₃ glasses containing Fe₂O₃
(Pusan National University) ○Hwa-jin Jeong · Bonk-ki Ryu
- 1P016 Ti - based nanostructures prepared by glass surface crystallization through heat treatment with antibacterial properties
(Pusan National University) ○dae-sung Kim · Bong-ki Ryu
- 1P017 Glass enamel one-coated on steel for high temperature oxidation protection: Oxidation kinetics and microstructure
(Pusan National University) ○Jeong Yoon Ki · Ryu Bong Ki
- 1P018 Effects of Melting Conditions on Ce⁴⁺/Ce³⁺ Ratios and Catalytic Behavior into Cerium Oxide Doped Alumino Silicophosphate Glasses
(Pusan National University) ○Ju-hyeong Kim · Bong-ki Ryu
- 1P019 Property of TiO₂-P₂O₅-Na₂O glass enamel by the sol-gel method (Pusan National University) ○Moon-kyeung Hwang · Bong-ki Ryu

02. 誘電性材料 Dielectric material

- 1P020 Growth conditions of Na-type 4-layered perovskite niobate crystals and their compositions
(National Institute for Materials Science) ○Nobuo Iyi · Takayoshi Sasaki
- 1P021 Growth and physical properties of multiferroic Fe₃O₄/BNEuT composite thin films by MOCVD
(University of Hyogo) ○Masafumi Kobune · Tomoyuki Kuriyama · Ryosuke Furotani · Satoshi Fujita ·
Kazuki Kikuchi · Takeyuki Kikuchi · Hironori Fujisawa · Masaru Shimizu · Naoki Fukumuro
- 1P022 Microstructure and Dielectric Property of KSr₂Nb₅O₁₅ Ceramics with Addition of Zirconium Oxide and Tantalum Oxide
(Nagaoka National College of Technology) ○Motoki Kimura · Ryoichi Watabe · Masashi Kajiwara · Yuna Kajiwara · Ryuu Ajikatai · Yutaka Iwai

- 1P023 Cross sectional observation and piezoelectric response measurement of $\text{Pb}(\text{Zr,Ti})_3$ thin film using AFM
(Shizuoka University) ○Satoshi Miyazaki · Naonori Sakamoto · Naoki Wakiya · Hisao Suzuki
- 1P024 Preparation of epitaxial YSZ thin film on anodized porous silicon
(Shizuoka University) ○Yuuki Hiyoshi · Naonori Sakamoto · Hisao Suzuki · Naoki Wakiya ·
(Tokyo University of Agriculture and Technology) Nobuyoshi Koshida ·
(Tokyo Institute of Technology) Kazuo Shinozaki
- 1P025 Dielectric properties of ferroelectric silicate Bi_2SiO_5 synthesized by $\text{Bi}_2\text{O}_3\text{-SiO}_2$ crystallization of glass-ceramic
(Nagoya University) ○Shingo Tatewaki · Kenji Tanabe · Ichiro Terasaki · Hiroki Taniguchi
- 1P026 Valence state of palladium nanoparticles supported on BaTiO_3 particles
(The University of Okayama) ○Tasuku Yoshida · (The University of Okayama · JST PRESTO) Jun Kano ·
(The University of Okayama) Norihiro Oshime · (JST PRESTO · The University of Kumamoto) Satoshi Hinokuma ·
(JASRI) Yusuke Tamenori · Kazuo Kato · Kiyofumi Nitta · Masaichiro Mizumaki ·
(The University of Okayama) Naoshi Ikeda · Tatsuo Fujii · Tomoko Ohkubo · Takeji Ueda
- 1P027 Synthesis and characterization of electronic-ferroelectric YbFe_2O_4 thin films by sputtering technique
(The University of Okayama) ○Hiroki Nakahata · Tomoya Numata · Makoto Nakanishi · (The University of Okayama · JST PRESTO) Jun Kano ·
(The University of Okayama) Tatsuo Fujii · Naoshi Ikeda
- 1P028 Electrical Properties and Quenching Effects of Li-Substituted $(\text{Bi}_{0.5}\text{K}_{0.5})\text{TiO}_3$ Ceramics
(Tokyo University of Science) ○Motonori Tanaka · Hajime Nagata · Tadashi Takenaka
- 1P029 Microwave dielectric properties and crystal structure of $\text{Co}(\text{Ga}_{1-x}\text{Al}_x)_2\text{O}_4$ solid solutions
(Meijo University) ○Susumu Takahashi · Akinori Kan · Hirotaka Ogawa
- 1P030 Paraelectric $\text{SrTiO}_3\text{-LiCoO}_2$ composite cathodes for Li ion batteries with high rate capability
(Okayama University) ○Takuya Namba · Yumi Yoshikawa · Mika Yoneda · Takashi Teranishi · Hidetaka Hayashi · Akira Kishimoto
- 1P031 Photodielectric effect in $\text{LaAl}_{0.99}\text{Zn}_{0.01}\text{O}_{3-\delta}$
(Nagoya University) ○Takayuki Nagai · Kenji Tanabe · Ichiro Terasaki · Hiroki Taniguchi ·
(University of Tokyo) Hidefumi Takahashi · (Tokyo University of Science) Ryuji Okazaki
- 1P032 Effect of heat-treatment process on crystallization behavior of oriented barium titanate thin film fabricated by chemical solution deposition
(Sophia University) Tomotake Oi · Keito Noguchi · Shota Moki · ○Hiroshi Uchida · (National Defense Academy) Jin Woon Kim ·
Hiromi Shima · Ken Nishida · (Tohoku University) Takanori Kiguchi · Akihiro Akama · Toyohiko Konno ·
(Tokyo Institute of Technology) Hiroshi Funakubo
- 1P033 Defect and Substitution Effect on the Band Structure of BaTiO_3 Particles (II)
(Okayama University) ○Norihiro Oshime · (Okayama University · JST PRESTO) Jun Kano · (Okayama University) Naoshi Ikeda ·
Takashi Teranishi · Tatsuo Fujii · Takeji Ueda · Tomoko Ohkubo
- 1P034 Photo-dielectric Effect in Relaxor Ferroelectric $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$
(Nagoya University) ○Toru Wakamatsu · Kenji Tanabe · Ichiro Terasaki · Hiroki Taniguchi
- 1P035 Optimized Preparation Process and d_{33} Evaluation for Barium Titanate Ceramics
(University of Yamanashi) ○Gopal Prasad Khanal · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada
- 1P036 Influence of phase transitions on oriented structure in LNKN powder compacts
(Nagaoka University of Technology) ○Yuuki Ono · Satoshi Tanaka · (Taiyo Yuden Co. Ltd) Tomohiro Harada · Hiroyuki Shimizu · Yutaka Doshida
- 1P037 High Densification of Microwave Dielectric Ceramics $\text{Ba}(\text{Mg}_{1/3}\text{Ta}_{2/3})\text{O}_3$ (Doshisha University) ○Takumi Nomura · Yuuki Sato · Shinzo Yoshikado
- 1P038 In-situ Analysis on The Kinetics of The Growth of Barium Titanate Nanoblocks
(National Institute of Advanced Industrial Science and Technology) ○Qiang Ma · Keni-chi Mimura · Kazumi Kato
- 1P039 Microwave dielectric properties and low-temperature sintering of spinel $(1-x)\text{ZnGa}_2\text{O}_4\text{-}x\text{LiBO}_2$ ceramics
(Meijo University) ○Susumu Takahashi · Akinori Kan · Hirotaka Ogawa
- 1P040 Microwave dielectric properties of $\text{Mg}_{0.7}\text{Al}_{2.2}\text{O}_4$ ceramics synthesized by molten-salt method
(Meijo University) ○Akinori Kan · Susumu Takahashi · Hirotaka Ogawa
- 1P041 Effect of BaMnO_3 addition on piezoelectric properties of $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{-Bi}_{0.5}\text{K}_{0.5}\text{TiO}_3$ ceramics
(Meijo University) ○Daiki Iida · Akinori Kan · Susumu Takahashi · Hirotaka Ogawa
- 1P042 Study on the Electrical Characteristics of Zinc Oxide Varistors Added Sr and Co Oxide Simultaneously
(Doshisha University) ○Keisuke Kadota · Kazuki Kurokawa · Yuuki Sato · Shinzo Yoshikado
- 1P043 Study on Effects of Adding Strontium and Silicon Oxides of Bi-based Zinc Oxide Varistors on the Electrical Characteristics
(Doshisha University) ○Yosuke Kataoka · Tomihei Hamaguchi · Yuuki Sato · Shinzo Yoshikado
- 1P044 Crystal Structure Analysis of Antiferroelectric $(1-x)\text{NaNbO}_3\text{-}x\text{CaZrO}_3$ Thin Films Deposited by CSD Method
(Tohoku University) ○Takahisa Shiraiishi · Takanori Kiguchi · Toyohiko Konno
- 1P045 Preparation and crystal structure of $(\text{Li}_{0.12}\text{Na}_{0.88})\text{NbO}_3\text{-KNbO}_3$ system
(University of Yamanashi) ○Tomohiro Shimizu · Takahiro Takei · Nobuhiro Kumada
- 1P046 Low-temperature sintering and microwave dielectric properties of LiGaSiO_4 ceramics with LiBO_2 addition
(Meijo University) ○Ryosuke Hirabayashi · Akinori Kan · Susumu Takahashi · Hirotaka Ogawa
- 1P047 Suppression of abnormal grain growth in epitaxial $(\text{Pb, La}) (\text{Zr, Ti})\text{O}_3$ thin film by two-step growth technique
(Nagoya University) ○Shinya Kondo · (Nagoya University · JST-PRESTO) Tomoaki Yamada ·
(Nagoya University) Masato Yoshino · Takanori Nagasaki
- 1P048 Synthesis and piezoelectric properties of $(1-x)\text{Bi}_{0.5}(\text{Na}_{1-y}\text{K}_y)_{0.5-x}\text{SrZrO}_3$ ceramics
(The University of Meijo) ○Shinnosuke Ohashi · Hirotaka Ogawa · Akinori Kan · Daiki Iida
- 1P049 Cross-sectional Analyses of $(\text{Na,K})\text{NbO}_3$ Thin Films Fabricated from (Na,K) -excess Precursor Solutions
(Nagoya Institute of Technology) ○Kiyotaka Tanaka

03. 導電性材料 Electroconductive material

- 1P050 Crystal orientation dependence of gas sensing properties of ZnO films
(National Institute for Materials Science) ○Yutaka Adachi · Ken Watanabe · Noriko Saito · Taku Suzuki · Isao Sakaguchi

- 1P051 High-pressure synthesis and characterization of APt_3O_6 (A=Ca, Cd, Pt) (Shibaura Institute of Technology · RIKEN) ○Ayako Yamamoto
- 1P052 Structural and electrical properties of Ga-doped ZnIn_2O_4
(Shizuoka University) ○Kouki Suzuki · Naonori Sakamoto · (Tokyo Institute of Technology) Kazuo Shinozaki ·
(Shizuoka University) Hisao Suzuki · Naoki Wakiya
- 1P053 Improvement of electrical conductivity for $\text{Ba}_2(\text{Fe}_{0.9}\text{In}_{0.1})_2\text{O}_{5+\delta}$ with A-site cation substitution
(Kochi University) ○Chinatsu Sasaoka · Fumito Fujishiro
- 1P054 Electrical properties of BaTiO_3 doped with extremely small concentration donor
(Kyoto Institute of Technology) ○Riki Horii · Nobuyuki Takeuchi · Hisayoshi Kobayashi
- 1P055 PTCR properties of Nb-Doped $\text{BaTiO}_3\text{-(Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$
(Kyoto Institute of Technology) ○Hayase Yamamoto · Yuji Fujishita · Nobuyuki Takeuchi · Hisayoshi Kobayashi
- 1P056 Thermoelectric properties of layered spinel structure $(\text{ZnO})_5\text{InMn}_x\text{Fe}_{1-x}\text{O}_3$ ($x \leq 0.2$)
(Tokyo City University) ○Masanori Hara · (Kanto Gakuin University) Nobuaki Watanabe · (Tokyo City University) Satoko Abe · Humio Munakata
- 1P057 Synthesis and effect of ball milling to thermoelectrical properties of MgO added SrFeO_3 system ceramics
(Chiba University) ○Asami Yamada · Shin Nishiyama
- 1P058 Surface oxidation of amorphous carbon thin films and attachment of gold nano particles (Ryukoku University) ○Fumihiro Yanagi · Yoshifumi Aoi
- 1P059 Phase selective epitaxy of VO_x thin films by annealing under uniaxial compression and their conduction property
(Tokyo Institute of Technology) ○Akifumi Matsuda · Yasuhisa Nozawa · Ryotaro Namba · Mamoru Yoshimoto ·
(Kanagawa Industrial Technology Center) Satoru Kaneko
- 1P060 Functionalization of amorphous carbon thin films by adsorption of poly-L-lysine
(Ryukoku University) Yuuki Sawada · ○Yuusuke Hashimoto · Fumihiro Yanagi · Yoshifumi Aoi

04. 磁性材料 Magnetic material

- 1P061 Structure and magneto-dielectric effects of Co/AlF granular films
(Tohoku University) ○Yang Cao · (DENJIKEN) Nobukiyo Kobayashi · (Tohoku University) Yiwen Zhang ·
(Tohoku University · DENJIKEN) Shigehiro Ohnuma · (Tohoku University) Hiroshi Masumoto
- 1P062 Structure and Properties of C-Co Nano-composite Films by Hybrid Deposition Method
(Tohoku University) ○Yiwen Zhang · Hiroshi Masumoto · Hiroyuki Kosukegawa · Hiroyuki Miki · Toshiyuki Takagi ·
(DENJIKEN) Nobukiyo Kobayashi · (Tohoku University · DENJIKEN) Shigehiro Ohnuma
- 1P063 Effect of slight intermixing between R and Ba sites on the physical properties in ordered RBaMn_2O_6
(Toho University) ○Nori-hisa Tanikawa · Miyuki Hori · Eiji Wada · Daisuke Akahoshi · Toshiaki Saito ·
(Sophia University) Ryo Kajihara · Hideki Kuwahara
- 1P064 Effect of oxygen deficiency on the physical properties near the multicritical point in ordered RBaMn_2O_6
(Toho University) ○Miyuki Hori · Nori-hisa Tanikawa · Shinichi Watanabe · Eiji Wada · Daisuke Akahoshi · Toshiaki Saito ·
(Sophia University) Ryo Kajihara · Hideki Kuwahara
- 1P065 Maintaining Catalytic Property through the Pyrophosphate Structure Formation and Structural Analysis in CeO_2 Doped Phosphate Glass
(Pusan National University) ○GwangSeung Song · Bongki-Ryu
- 1P066 Magnetic and electric properties of magnetic semiconductor $(\text{Cr}_{1-x}\text{Fe}_x)_2\text{O}_3$
(Nagoya Institute of Technology) ○Izuna Tsuboi · Takeshi Yokota ·
(Friedrich-Alexander-Universita "t Erlangen-Nu" rnberg) Miroslaw Batenschuk · Christoph J. Brabec
- 1P067 Structure, magnetic and dielectric properties of $\text{Al}_2\text{O}_3\text{-Co}$ nano-composite films
(Tohoku University) ○Kohei Araake · Yewen Zhang · Hiroshi Masumoto · (DENJIKEN) Nobukiyo Kobayashi ·
(Tohoku University · DENJIKEN) Shigehiro Ohnuma · (University of Toyama) Masateru Nose
- 1P068 Morphology control of Al-substituted $(\text{Ba, Sr})_2\text{Co}_2\text{Y}$ hexaferrite by polymerizable complex method
(University of Hyogo) ○Takeyuki Kikuchi · Shotaro Hirano · Masafumi Kobune · (Okayama University) Makoto Nakanishi · Tatsuo Fujii
- 1P069 Hydrothermal Synthesis of Perovskite-type $\text{Ba}(\text{Bi,R})\text{O}_3$ (R : rare earth metal)
(University of Yamanashi) ○Yusaku Maejima · Takahiro Takei · Nobuhiro Kumada
- 1P070 High-pressure synthesis of a perovskite-type oxide PbFeO_3 (Gakushuin University) ○Tatsuru Yamamoto · Daisuke Mori · Yoshiyuki Inaguma
- 1P071 Synthesis and Characterization of Novel Bismuthate Including Transition Metal by Hydrothermal Reaction
(University of Yamanashi) ○Yo Yamamoto · Nobuhiro Kumada · Takahiro Takei
- 1P072 Preparation of (100)-oriented epitaxial $\text{Fe}_{2-x}\text{Ti}_x\text{O}_3$ films by sputtering technique
(The University of Okayama) ○Masahiro Kitazono · Daiti Fukutomi · Makoto Nakanishi ·
(The University of Okayama · JST PRESTO) Jun Kano ·
(The University of Okayama) Tatu Fujii

05. ガラス・フォトニクス材料 Glass and photonic materials

- 1P073 Dosimeter Properties of MgF_2 -doped AlN Ceramics
(Nara Institute of Science and Technology) ○Kaori Kojima · Go Okada · Takayuki Yanagida · (Tokuyama Corp) Kentaro Fukuda
- 1P074 PSD detector application of composite YAG transparent ceramic scintillator
(NAIST) ○Takayuki Yanagida · Go Okada · (Nagoya University) Kenichi Watanabe · Akira Uritani ·
(Tohoku University) Yutaka Fujimoto · (Konoshima Chemical) Hideki Yagi · Takagimi Yanagitani
- 1P075 Optical and Ionizing Radiation Induced Scintillation Properties of Sn-doped $\text{Y}_3\text{Al}_5\text{O}_{12}$
(Nara Institute of Science and Technology) ○Masaki Mori · Go Okada · Takayuki Yanagida ·
(Kyoto University) Hirokazu Masai · (Tohoku University) Masanori Koshimizu
- 1P076 Concentration dependency of Ce^{3+} of scintillation from Nd and Ce co-doped $\text{Lu}_3\text{Al}_5\text{O}_{12}$
(Nara Institute of Science and Technology) ○Tomohisa Oya · Go Okada · Takayuki Yanagida
- 1P077 Scintillation and dosimeter properties of Dy doped $\text{NaPO}_3\text{-Al}(\text{PO}_3)_3$ glasses
(Nara Institute of Science and Technology) ○Tomoaki Kuro · Go Okada · Takayuki Yanagida · (Tohoku University) Yutaka Fujimoto ·
(Institute for Chemical Research, Kyoto University) Hirokazu Masai

- 1P078 Dosimeter properties of silver-doped $\text{Li}_3\text{PO}_4\text{-Al}(\text{PO}_3)_3$ glass on different dopant concentrations
(Nara Institute of Science and Technology) ○Hiroki Tatsumi · Go Okada · Takayuki Yanagida ·
(Institute for Chemical Research, Kyoto University) Hirokazu Masai
- 1P079 Low temperature film formation technique for fine silica film using UV irradiation and development of high heat resistance – high gass barrier performance flexible film
(Shibaura Institute of Technology) ○Kazuya Yanagita · Tomoji Ohishi
- 1P080 Synthesis of ZnO nanoparticles by solution phase synthesis with PVP and their optical properties
(Osaka Institute of Technology) ○Yoshiyuki Harada · Ichiro Tanahashi · Akira Fujimoto · Ryoya Ohta · Tomosumi Kamimura
- 1P081 Photoluminescence and Scintillation Properties of Cr-doped Al_2O_3 Crystal and Ceramics
(NAIST) ○Nurul Athirah Noor Azman · Masaki Mori · Go Okada · Takayuki Yanagida
- 1P082 Fabrication and characterization of transparent glass-ceramics containing high dielectric $\text{Bi}_{1.5}\text{ZnNb}_{1.5}\text{O}_7$ nanocrystals
(Nagaoka University of Technology) ○Teisuke Shimamura · Kenji Shinozaki · Tsuyoshi Honma · Takayuki Komatsu
- 1P083 Photoluminescence properties of Ce^{3+} -activated phosphates containing sodium and alkaline earth
(Tohoku University) ○Haruka Kudo · Hideki Kato · Makoto Kobayashi · Masato Kakihana
- 1P084 Dosimeter properties of Y-doped MgO transparent ceramic made by SPS
(Nara Institute of Science and Technology) ○Takumi Kato · Go Okada · Takayuki Yanagida
- 1P085 Fabrication of crystallized glasses with c-axis-oriented apatite-type lanthanum silicate
(University of Hyogo) ○Seiya Ikiki · Atsushi Mineshige · Tetsuo Yazawa
- 1P086 Fabrication of silicon doped tin-phosphate glass-ceramics and its electrochemical properties
(Nagaoka University of Technology) ○Tomohiro Nakaya · Kenji Shinozaki · Tsuyoshi Honma · Takayuki Komatsu
- 1P087 ZBLAN-based glass-ceramics containing Sm: BaCl_2 nanocrystals as a potential scintillator material
(NAIST) ○Go Okada · Takayuki Yanagida · (VUW (NZ)) Andy Edgar · (USask (CAN)) Safa Kasap
- 1P088 Green fluorescence properties of $\text{Mn}^{2+}:\text{ZnAl}_2\text{O}_4$ powder prepared by homogeneous precipitation method
(National Institute of Technology, Suzuka College) ○Tomohito Sakuragi · Noriyuki Wada · (Ritsumeikan University) Kazuo Kojima
- 1P089 Emission properties of trivalent cerium in barium borate glasses
(Institute for Chemical Research, Kyoto University) ○Aya Torimoto · Hirokazu Masai ·
(Nara Institute of Science and Technology) Go Okada · Takayuki Yanagida
- 1P090 Fabrication of nickel oxides-based photochromic films and evaluation of photochromic property of the composite films
(The University of Shimane) ○Takahiro Matsuura · Hidetoshi Miyazaki · (The University of Nagoya Institute of Technology) Toshitaka Ota ·
(The University of Shizuoka) Hisao Suzuki
- 1P091 Perfect surface crystallization in Cu_2O -doped $\text{SrO-TiO}_2\text{-SiO}_2$ glass and its structural properties
(Tohoku University) ○Shinya Kubota · Nobuaki Terakado · Yoshihiro Takahashi · Takumi Fujiwara
- 1P092 Optical and Scintillation Properties of $\text{Ce}:\text{SrAl}_2\text{O}_4$ Crystals
(Nara Institute of Science and Technology) ○Daisuke Nakauchi · Go Okada · Takayuki Yanagida · (Tohoku University) Masanori Koshimizu
- 1P093 Fabrication of glass composite containing spinon thermal conductivity material and measurement of its thermal diffusivity
(Tohoku University) ○Ryusei Kozawa · Nobuaki Terakado · Yoshihiro Takahashi · Takumi Fujiwara
- 1P094 Radiophotoluminescence phenomena in phosphate glasses with alkali metal
(Tohoku University) ○Hironori Tanaka · Yutaka Fujimoto · Masanori Koshimizu · Keichiro Saeki ·
Takuma Yahaba · Keisuke Asai · (NAIST) Takayuki Yanagida
- 1P095 Synthesis and photoluminescence of new phosphor $\text{Ba}_{0.79}\text{Al}_{10.9}\text{O}_{17.14}:\text{Eu}^{2+}$
(Toyohashi University of Technology) ○Shohei Furuya · Asuka Okuzumi · (Nagoya University) Michiko Kusunoki ·
(KRI, Inc.) Hiroyuki Hayashi · (Toyohashi University of Technology) Hiromi Nakano
- 1P096 Morphological changes for laser fluence and materials of nanoholes in borates and aluminosilicates fabricated by femtosecond laser ablation
(Akita University) ○Mizuki Kudo · Tomoko Takahashi · Genki Watanabe · Nobuhiro Kodama · (Osaka University) Masahiro Tsukamoto
- 1P097 Synthesis of nanocrystal from glass-ceramic target by liquid-phase laser ablation
(Tohoku University) ○Yuto Odawara · Nobuaki Terakado · Yoshihiro Takahashi · Takumi Fujiwara
- 1P098 Hypersonic attenuation in Silica glasses measured by stimulated Brillouin spectroscopy
(Ritsumeikan University) ○Nanami Misawa · Yasuhiro Fujii · Akitoshi Koreeda · (Kyoto University) Hirokazu Masai ·
(Tokyo Metropolitan University) Koichi Kajihara
- 1P099 Improvement of Interatomic Potential for Sodium Silicate Glasses
(Muroran Institute of Technology) ○Yuya Yamamoto · Naoya Sawaguchi · Makoto Sasaki
- 1P100 Nonconventional $\text{Li}_2\text{O-SrO-Al}_2\text{O}_3$ system glass: Glass-forming region, crystallization, and photoluminescence in the glass-ceramics
(Tohoku University) ○Yuta Hayashibara · Ryousuke Takahashi · Rie Suzuki · Nobuaki Terakado · Yoshihiro Takahashi · Takumi Fujiwara
- 1P101 Scintillation properties of CsCaCl_3 -based crystals
(Tohoku University) ○Keiichiro Saeki · Masanori Koshimizu · Yutaka Fujimoto · Keisuke Asai ·
(Nara Institute of Science and Technology) Takayuki Yanagida
- 1P102 Effect of Addition of Boron on the Long Afterglow Property of $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+}, \text{Dy}^{3+}$ Phosphor
(Kyoto Institute of Technology) ○Kimiko Kishine · Masahiro Fukuyasu · Nobuyuki Takeuchi · Hisayoshi Kobayashi
- 1P103 Red fluorescence of Mn^{2+} ions in $\text{P}_2\text{O}_5\text{-ZnO-Sb}_2\text{O}_3$ glasses
(National Institute of Technology, Suzuka College) Rikiya Sugimoto · Mikiya Furukawa · ○Noriyuki Wada · (Ritsumeikan University) Kazuo Kojima
- 1P104 Glass composition dependence of Pr^{3+} optical properties in tellurite glasses
(National Institute of Technology, Suzuka College) ○Mikiya Furukawa · Noriyuki Wada · (Ritsumeikan University) Kazuo Kojima
- 1P105 Investigation of IR emitting phosphors for increase of photon number
(Tokai University) ○Shinpei Sasahara · S. Ogawa · S. Tamura · K. Tomita · (Tohoku University) M. Kakihana
- 1P106 Fabrication of transparent and fluorescent Y- α SiAlON bulk ceramics by adding Nd,Er,Yb
(Yokohama national University) ○Ippei Kokubun · Junichi Tatami · Motoyuki Iijima ·
(Kanagawa Academy of Science and Technology) Takuma Takahashi ·
(Kanagawa Industrial Technology Center) Masahiro Yokouchi

- 1P107 Synthesis and characterization of polymer-derived Ga-doped β -SiAlON:Eu²⁺ phosphors
(Nagoya Institute of Technology) ○Koji Mizutani · Ryo Iwasaki · Yusuke Daiko · Sawao Honda · Yuji Iwamoto
- 1P108 Synthesis of scheelite-type LiCe(WO₄)₂ (Muran Institute Technology) ○Takuya Shimemura · Naoya Sawaguchi · Makoto Sasaki
- 1P109 Thermoluminescence and photo-stimulated luminescence properties of Na₂O-Al₂O₃-B₂O₃ based glasses activated with Cu⁺ and Ce³⁺
(Tohoku University) ○Yutaka Fujimoto · Takuma Yahaba · Hironori Tanaka · Masanori Koshimizu · Keisuke Asai · (NAIST) Takayuki Yanagida
- 1P110 Fabrication of nanometer-size silver dots and wire structure on glass by Nano-ion exchange lithography
(Tokyo Institute of Technology) ○Takashi Sugita · Tetsuo Kishi · Tetsuji Yano
- 1P111 Electrochemical properties of Na₂O-TiO₂-SiO₂ glasses
(Nagaoka University of Technology) ○Ryota Yokoyama · Kenji Shinozaki · Tsuyoshi Honma · Takayuki Komatsu
- 1P112 High temperature X-ray computed tomography analysis for structural alternation of vitrification
(Tokyo Institute of Technology) ○Yukihiro Yoshida · Tetsuo Kishi · Tetsuji Yano

06. 生体関連材料 Bioceramics

- 1P113 Amino-functional spherical mesoporous silica for RNA selective adsorption
(Mie University · National Institute of Advanced Industrial Science and Technology) ○Ryouichi Hikosaka ·
(National Institute of Advanced Industrial Science and Technology) Fukue Nagata · (Mie University) Masahiro Tomita ·
(National Institute of Advanced Industrial Science and Technology) Katsuya Kato
- 1P114 Preparation of the Magnetic Material consisting of Calcium Phosphate for Hyperthermia
(Chiba Institute of Technology) ○Guannan Shi · M. Ohno · H. Shibata · K. Hashimoto
- 1P115 The study of bovine serum albumine adsorption behavior on apatite particles
(The University of Chubu · National Institute of Advanced Industrial Science and Technology) ○Toshio Nagasaki ·
(National Institute of Advanced Industrial Science and Technology) Fukue Nagata · (The University of Chubu) Makoto Sakurai ·
(National Institute of Advanced Industrial Science and Technology) Katsuya Kato
- 1P116 Preparation of hydroxyapatite by a hydrolysis of urea (Chubu University) ○Masami Yamada · Makoto Watanabe · Makoto Sakurai
- 1P117 Evaluation of the Surface Reactions of Mesoporous Silica Films in Biological Fluids
(Nagaoka University of Technology) ○Kouhei Kobayashi · Tadashi Yamaguchi · Motohiro Tagaya
- 1P118 Synthesis of apatite – citric acid complex and their protein adsorption properties
(National Institute of Advanced Industrial Science and Technology · Chubu University) ○Masakazu Kanamori ·
(National Institute of Advanced Industrial Science and Technology) Fukue Nagata ·
(National Institute of Advanced Industrial Science and Technology · Chubu University) Toshio Nagasaki ·
(Chubu University) Makoto Sakurai · (National Institute of Advanced Industrial Science and Technology) Katsuya Kato
- 1P119 Modification with HAp on the porous organic-inorganic hybrids prepared by ice crystals
(Kyushu Institute of Technology) ○Junji Takaoka · Toshiki Miyazaki · Yuki Shirosaki
- 1P120 Effects of carbonated apatite on osteoclast differentiation of macrophage
(Chiba Institute of Technology) ○Yuta Kuwamura · Kazuaki Hashimoto ·
(Tokyo Medical and Dental University) Kousuke Nozaki · Naohiro Horiuchi · Kimihiro Yamashita · Akiko Nagai
- 1P121 *In vitro* apatite-forming ability of calcium poly-phosphate gels (Yamagata University) ○Kaoru Shimizu · Takahiro Kawai
- 1P122 Drug loading ability of poly(lactic acid)-core/apatite crystal-shell nanoparticles
(National Institute of Advanced Industrial Science and Technology) ○Fukue Nagata · Tatsuya Miyajima · Masahiko Inagaki · Katsuya Kato
- 1P123 Fabrication of fluoridated hydroxyapatite sheets with acid resistance for dentin restoration
(Kinki University) ○Yu Kohiga · Yuka Hatoko · Shigeki Hontsu
- 1P124 Fabrication of bone-hemostasis materials with hydroxyapatite/natural plant-derived polymer and its evaluation
(Sophia University) ○Yeonjeong Noh · Tomohiro Umeda · (Shizuoka University) Tetsuo Sasaki ·
(Toho University) Yosiro Musha · (Sophia University) Kiyoshi Itatani
- 1P125 Fabrication of collagen/apatite composite of graded composition by electrochemical reaction
(Tokyo Institute of Technology) ○Yusuke Sasaki · Tomoaki Sugiyama · Toshiyuki Ikoma
- 1P126 Effect of Carbonate-substituted Sites in Apatite Porous Bodies on Dissolution and Protein Adsorption Properties
(Tokyo Institute of Technology) ○Kaori Akaike · Tomoaki Sugiyama · Toshiyuki Ikoma
- 1P127 Optimization of Synthetic Pathway of Silica Nanoparticles including Porphyrin
(Tokyo Institute of Technology) ○Yuki Nomura · Tomoaki Sugiyama · Toshiyuki Ikoma
- 1P128 Synthesis and evaluation of Mg-containing amorphous calcium phosphate (Nihon University) ○Tomohiro Uchino · Yuto Chubachi
- 1P129 Sinterability of hydroxyapatite powder with high specific surface area synthesized by ultrasound irradiation
(Sophia University) ○Ryo Yamazaki · (Nihon University) Yoshiyuki Kojima · (Sophia University) Kiyoshi Itatani
- 1P130 Apatite coating on zirconia utilizing femtosecond laser surface processing
(Nanomaterials Research Institute, National Institute of Advanced Industrial Science and Technology) ○Ayako Oyane · Ikuko Sakamaki ·
(Electronics and Photonics Research Institute, National Institute of Advanced Industrial Science and Technology) Masayuki Kakehata ·
Hidehiko Yashiro · Kenji Torizuka · (Health Research Institute, National Institute of Advanced Industrial Science and Technology) Atsuo Ito

09. 環境・資源関連材料 Environment and energy related material

- 1P131 Charge transfer behavior in Au/TiO₂ plasmonic photocatalysts
(Toyohashi University of Technology) ○Tomoki Arai · Teruhisa Okuno · Go Kawamura · Hiroyuki Muto · Atsunori Matsuda
- 1P132 Determination of the geographic origin of corbicula japonica with PL property of firing these shells
(Shimane University) ○Hidetoshi Miyazaki · Takumi Ishigaki · Junko Fujiwara · (Shizuoka University) Hisao Suzuki ·
(Nagoya Institute of Technology) Toshitaka Ota
- 1P133 Preparation and characterization of Fe-doped SrTiO₃ photocatalyst under visible light irradiation
(University of Tsukuba) ○Mariko Kobayashi · Yoshikazu Suzuki
- 1P134 Application of porous MgTi₂O₅ ceramics with pseudobrookite-type structure for diesel particle filter
(University of Tsukuba) ○Xinzhua Miao · Yoshikazu Suzuki

- 1P135 Effect of calcination temperature on glass polishing properties of CeO₂ abrasive synthesized by spray pyrolysis method
(Japan Fine Ceramics Center) ○Toshimasa Suzuki · Koichi Kawahara
- 1P136 Preparation and evaluation of hydrophobic functional materials using Ti metal plate/mesh
(Tokyo Institute of Technology) ○Hirokazu Takahashi · Toshihiro Isobe · Sachiko Matsushita · Akira Nakajima
- 1P137 Desorption behavior of H₂S adsorbed on Cu²⁺-modified hydroxyapatite in warm water (Yamagata University) ○Hiroshi Nishida · Takahiro Kawai
- 1P138 Preparation of geopolymer material from natural zeolite — the effect of curing temperature and drying method
(Akita University) ○Shigeo Hayashi · Honami Watanabe · Fumito Kagaya
- 1P139 Synthesis and CO₂ absorption property of NaFeO₂ (Saitama University) ○Kohei Ogasawara · Ikuo Yanase · Hidehiko Kobayashi
- 1P140 Synthesis and CO₂ absorption and desorption property of MEA / ZnO composite
(Saitama University) ○Kaai Someya · Ikuo Yanase · Hidehiko Kobayashi
- 1P141 Adsorption of humic substances on hydrogarnet/zeolite composites
(Nagoya Institute of Technology) ○Kazuya Suzumura · Hirota Maeda · Masanobu Nakayama · Toshihiro Kasuga
- 1P142 Improvement of the stability of LaTiO₂N photoanode by deposition of cocatalysis under solvothermal condition
(The University of Tokyo) ○Yusuke Asakura · Koichiro Ueda · (Mitsubishi Chemical Corporation) Seiji Akiyama ·
(The University of Tokyo) Takashi Hisatomi · Tsutomu Minegishi · Masao Katayama · Taro Yamada · Kazunari Domen
- 1P143 Development of visible light responsive Nb₂O₅ nanowire photocatalyst
(The University of Niigata) ○Tomoki Shinohara · Tatsuto Yui · Masayuki Yagi · Kenji Saito
- 1P144 Synthesis of allophane from rice husk ash discharged from rice husk power plant
(National Institute of Occupational Safety and Health, Japan) ○Teruhisa Hongo · Hironobu Abiko
- 1P145 Recovery and immobilization methods for cesium and strontium ions using natural clinoptilolite/apatite composites
(Kanazawa Institute of Technology) ○Hikaru Ishibashi · (National Institute for Materials Science) Hirohisa Yamada ·
(Kanazawa Institute of Technology) Kaoru Fujinaga · Syunichi Oshima · Yu Komatsu · Yujirou Watanabe
- 1P146 Ion exchange of period-four transition metal ions to layered titanate and its ammonia adsorption
(University of Yamanashi) ○Kazuki Yokosawa · Takahiro Takei · Nobuhiro Kumada
- 1P147 Preparation of Mesoporous Silica-Hydroxyapatite Hybrid and Its Adsorption of Rare-earth Metal Ion
(University of Yamanashi) ○Fumitake Okabe · Takahiro Takei · Nobuhiro Kumada
- 1P148 Preparation on Polyoxometalate-Transition Metal-Included Layered Double Hydroxide Hybrid and Its Catalytic Behavior
(University of Yamanashi) ○Yuma Mitani · Takahiro Takei · Nobuhiro Kumada
- 1P149 Preparation and photocatalytic application of Cu₂O loaded layered double hydroxides
(Tokyo Institute of Technology) ○Haoyang Jiang · (Tokyo University of Science) Ken-ichi Katsumata · Kazuya Nakata · Chiaki Terashima ·
(Tokyo Institute of Technology) Nobuhiro Matsushita · (Tokyo University of Science) Akira Fujishima
- 1P150 Synthesis of spherical silica colloidal crystals and their used as template for synthesis of spherical carbon inverse opals
(Ryukoku University) ○Motohiro Innami · Yoshifumi Aoi

10. エネルギー関連材料 Energy reference material

- 1P151 Facile synthesis of highly grain-aligned polycrystals by reactive diffusion between solids and gases
(Nagoya Institute of Technology) ○Takuya Kitagawa · Ryoza Kato · Shinji Hara · Toru Asaka · Koichiro Fukuda
- 1P152 Fabrication and thermoelectric properties of Mg₂Sn-based composites using reduction reaction with oxides
(Osaka Municipal Technical Research Institute) ○Jun-ichi Tani · Tsutomu Shinagawa · Masaya Chigane
- 1P153 Preparation of tungsten trioxide thin film at low temperature using photo-assisted sol-gel method and proton gas sensitivity
(Shibaura Institute of Technology) ○Keisuke Kubo · Tomoji Ohishi · Atsushi Saitou
- 1P154 Preparation and Characterization of the Bulk-Type All-Solid-State Battery with SiO-type Anode Active Materials
(Nara Institute of Science and Technology) ○Takahito Kimoto · (Osaka Municipal Technical Research Institute) Mari Yamamoto · Shingo Ikeda ·
Yasuyuki Kobayashi · (Nara Institute of Science and Technology · Osaka Municipal Technical Research Institute) Masanari Takahashi
- 1P155 Raman mapping for LiCoO₂ composite positive electrodes in all-solid-state lithium batteries
(Osaka Prefecture University) ○Misae Otoyama · Yusuke Ito · Akitoshi Hayashi · Masahiro Tatsumisago
- 1P156 TEM analysis of the microstructure and thermal stability in the positive electrode for sulfide-based all-solid-state lithium batteries
(Osaka Prefecture University) ○Hirofumi Tsukasaka · Shigeo Mori · Yota Mori · Yusuke Suginaka ·
Takuya Matsuyama · Akitoshi Hayashi · Masahiro Tatsumisago
- 1P157 Preparation and evaluation of perovskite solar cells with an inorganic CuI hole conductor
(University of Tsukuba) ○Kenta Takahashi · Yoshikazu Suzuki
- 1P158 Fabrication of Li(Ni_{1/3}Mn_{1/3}Co_{1/3})O₂ Fiber and Battery Properties
(Nara Institute of Science and Technology) ○Hiroki Akai · (Osaka Municipal Technical Research Institute) Mari Yamamoto · Shingo Ikeda ·
Yasuyuki Kobayashi · (Nara Institute of Science and Technology · Osaka Municipal Technical Research Institute) Masanari Takahashi
- 1P159 The surface oxygen exchange reaction in the electronic-oxide ion mixed conductive ceramics by first principles calculations
(Nagoya Institute of Technology) ○Katsuya Nishii · (Nagoya Institute of Technology · The University of Kyoto ·
Japan Science and Technology Agency PRESTO · National Institute for Material Science) Masanobu Nakayama ·
(Nagoya Institute of Technology) Toshihiro Kasuga
- 1P160 Anisotropic thermoelectric properties of M₂Fe₂O₅ (M=Ca, Sr) single crystals
(University Yamanashi) ○Md. Anwar Hossain · Masanori Nagao · Satoshi Watauchi · Isao Tanaka · (NIMS) Takao Mori
- 1P161 Synthesis and characterization of Zr₂(WO₄)(PO₄)₂-based negative thermal expansion material
(Tokushima University) ○Tetsuta Koizumi · Muhamad Faiz Farhan · Kei-ichiro Murai · Toshihiro Moriga
- 1P162 Ab initio studies on ion conduction mechanism of Olivine-type cathode materials AFePO₄ (A=Li, Na)
(Nagoya Institute of Technology) ○Shohei Yamada · (Nagoya Institute of Technology · The University of Kyoto · JST-PRESTO · NIMS)
Masanobu Nakayama · (Nagoya Institute of Technology) Toshihiro Kasuga
- 1P163 Characterization of the thermoelectric material of Co doped Sr₃Ti₂O₇
(Tokushima University) ○Yuuta Kujime · Syuuhei Kori · Kei-itiro Murai · Toshihiro Moriga

- 1P164 Effect of partial substitutions with higher-valence cations on crystal and electronic structures of $\text{La}_2(\text{Ni,Cu})\text{O}_{4+\delta}$
(Tokyo University of Science) ○Yasunori Mizoguchi · Naoto Kitamura · Naoya Ishida · Yasushi Idemoto
- 1P165 Structure analysis of the melilite-type oxide-ion conductors by theoretical calculation and total scattering measurement
(Tokyo University of Science) ○Hiroki Uno · Naoto Kitamura · Naoya Ishida · Yasushi Idemoto
- 1P166 Synthesis, crystal structure analysis of $(\text{Mg,Ni})\text{O}$ and evaluation and improvement of its electrochemical properties.
(Tokyo University of Science) ○Shoichiro Ando · Naoya Ishida · Naoto Kitamura · Yasushi Idemoto
- 1P167 Composition Dependence of Average and Local Structure and Thermodynamic Stability for $0.4\text{Li}_2\text{MnO}_3\cdot 0.6\text{Li}(\text{Mn, Ni, Co})\text{O}_2$ during First Charge Process
(Tokyo University of Science) ○Hirofumi Sakemi · Naoya Ishida · Naoto Kitamura · Yasushi Idemoto
- 1P168 Synthesis and characterization of perovskite dielectrics- LiCoO_2 composite cathode via MOD route
(Okayama University) ○Naoto Katsuji · Yumi Yosikawa · Mika Yoneda · Takashi Teranishi · Hidetaka Hayashi · Akira Kishimoto · (Toshima Manufacturing Co., Ltd) Koji Yoda · Hidehumi Motobayashi · Yuzo Tasaki
- 1P169 Surface Structure of Perovskite-type $\text{Li}_{3x}\text{La}_{2/3x}\square_{1/3-2x}\text{TiO}_3$ Crystals using *Ab initio* DFT Calculations
(Shinshu University) ○Hiromasa Shiiba · Nobuyuki Zetsu · (Nagoya Institute of Technology) Masanobu Nakayama · (Shinshu University) Katsuya Teshima
- 1P170 Evaluation of all-solid-state Fe-air battery with Fe_3O_4 -supported carbon paper negative electrode
(Toyohashi University of Technology) ○Yasutaka Maeda · Wai Kian Tan · Go Kawamura · Hiroyuki Muto · Atunori Matsuda · (Kobe Steel, Ltd.) Hisatoshi Sakamoto · Kazushi Hayashi
- 1P171 Charge-discharge characteristics of Sn^0 -based nanoparticles as anode for lithium-ion batteries and sulfide-type all-solid-state batteries
(Osaka Municipal Technical Research Institute (OMTRI)) ○Mari Yamamoto · Yasuyuki Kobayashi · Shingo Ikeda · (Osaka Municipal Technical Research Institute (OMTRI) · Nara Institute of Science and Technology (NAIST)) Masanari Takahashi
- 1P172 Fabrication of textured dense ceramics and the electrical conductivity of MgO-doped lanthanum silicate oxyapatite
(Hosei University) ○Yuki Shimura · Kenya Hirai · (National Institute for Materials Science) Kiyoshi Kobayashi · Tohru Suzuki · Tetsuo Uchikoshi · Yoshio Sakka · (Hosei University) Takaya Akashi
- 1P173 Medium temperature non-humidified power generation characteristics of the composite membrane electrode assembly for fuel cell
(Toyohashi University of Technology) ○Masayuki Yajima · Jinxiao Bao · Go Kawamura · Toshiaki Hattori · Hiroyuki Muto · Atsunori Matsuda
- 1P174 Analysis of sodium-ion cathode material by first principles calculations
(Nagoya Institute of Technology) ○Takahiro Mukai · Yu Hashimoto · (Nagoya Institute of Technology · Kyoto University · Japan Science and Technology Agency · National Institute for Materials Science) Masanobu Nakayama · (Nagoya Institute of Technology) Toshihiro Kasuga · (Kyoto University · Tokyo Denki University) Naoaki Yabuuchi
- 1P175 Analysis of photocatalyst for water splitting by Raman spectroscopy (Meiji University) ○Yuta Sasaki · Chihiro Izawa · Tomoaki Watanabe
- 1P176 Preparation of Bi- and Sn-based lead-free perovskite solar cells (University of Tsukuba) ○Takayuki Okano · Yoshikazu Suzuki
- 1P177 Influence of bulk density on ionic conductivity of Na-type taeniolite
(The University of Shinshu) ○Junnosuke Kemi · Tomohiro Yamaguchi · Seiichi Taruta
- 1P178 Sinterability and electrical conductivity of Ni-doped BaZrO_3 proton conductor
(Meijo University) ○Hiroya Morishita · A. Takayasu · J. Hirata · Y. Ikebe · E. Ban
- 1P179 Synthesis and evaluation of electrical conductivity of $\text{Sn}_{1-x}\text{Bi}_x\text{P}_2\text{O}_{7-\delta}$ solid electrolytes
(Meijo university) ○Kohei Nishimoto · Akinori Kan · Susumu Takahashi · Hirofumi Ogawa

11. その他材料 Others

- 1P180 Development of simple copper fine wiring formation method using a sol-gel method and light patterning by organic-inorganic hybrid film
(Shibaura Institute of Technology) ○Ikumi Wasie · Tomoji Ooishi
- 1P181 Facile micro patterning method of exploitation by sol-gel method using photo-acid-generator and organic-inorganic hybrid film containing latent pigments
(Shibaura Inst. of Tech.) ○Saori Kawaguchi · Tomoji Ohishi
- 1P182 Synthesis and characterizations of very complex and enormous-volume fluorite-type superstructures
(University of Tsukuba) ○Ryosuke Maki · Yoshikazu Suzuki · (NIMS) Kiyoshi Kobayashi
- 1P183 A novel method for characterising artificial diamond using automated image and Raman analysis
(Spectris co., Ltd.) ○Cathrys Langley · Daisuke Sasakura

13. 液相プロセス Liquid phase process

- 1P184 Synthesis and Optical/Magnetic Properties of Spherical Titania/Fe(III) Acetylacetonate Hybrid Particles
(Nagaoka University of Technology) ○Takuya Kataoka · (National Institute for Materials Science (NIMS)) Kota Shiba · (CIC nanoGUNE · Ikerbasque) Mitsuhiro Okuda · Santiago Blanco-Canosa · (Nagaoka University of Technology) Motohiro Tagaya
- 1P185 Preparation and NO_x adsorption of MgO-rich spinel Fe_2MgO_4 by coprecipitation method
(Kokushikan University) ○Shigeru Okada · Takuya Yonezawa · Takashi Yamasaki · (Tohoku University) Kunio Yubuta · Akiko Nomura · Toetsu Shishido · (NIMS) Takao Mori
- 1P186 Structural analysis of single crystal of Ti-salicylic acid complex and properties of the complex
(University of Tokai) ○Katsuki Iwasaki · Takeru Ito · Jun Kobayashi · Koji Tomita · (University of Tohoku) Masato Kakhana
- 1P187 Polymerized complex synthesis and characterization of Eu doped $\text{Zn}_2\text{Ti}_x\text{Sn}_{1-x}\text{O}_4$ phosphor
(National Institute of Technology, Gunma College) ○Nobuyuki Taira · Kisho Nakamura · Miyuri Terasawa · (Toyohashi University of Technology) Hiromi Nakano
- 1P188 Preparation of kaolinite-triethylphosphine oxide intercalation compounds
(Waseda University) ○Shingo Machida · Minoru Sohmiya · (National Institute for Material Science) Yusuke Ide · (Waseda University · Kagami Memorial Laboratory for Materials Science and Technology) Yoshiyuki Sugahara
- 1P189 Effects of heat treatment temperature on the crystal structure of akaganeite nanowire arrays
(National Defense Academy) ○Kana Taniguchi · Masami Aono · Yoshihisa Watanabe · Nobuaki Kitazawa
- 1P190 Fabrication of porous hydroxyapatite ceramics using agarose as template
(Shinshu University) ○Shyuhei Yamazaki · Tomohiro Yamaguchi · Seiichi Taruta

- 1P191 Synthesis of Nanostructured Titanium Dioxide Thin Films Formed on Titanium Plates
(Saga University) ○Shintaro Imamura · Ayako Sakamoto · Yuuki Hanakawa · Toshio Torikai · Takanori Watari · Mitsunori Yada
- 1P192 Crystal Growth and Properties of Chromium Silicides by Ga Flux
(Kokushikan University) ○Takashi Yamasaki · Yuta Suzuki · Shigeru Okada · Hamed Mofid Tabatabaei · Tamio Nishihara ·
(Tohoku University) Kunio Yubuta · Akiko Nomura · Toetsu Shishido · (NIMS) Takao Mori
- 1P193 Gas sensing properties of mesoporous tungsten oxide thin films by solution method
(The University of Gifu) ○Hiroyuki Yanase · Takayuki Ban · Yutaka Oya
- 1P194 Studies on formation process of Fe containing Ge-imogolite by DLS and UV-Vis spectroscopy
(National Institute of Technology, Numazu College) ○Eiji Kato · Minami Watanabe · Kaho Osada · Setsuko Yamane · Masashi Ookawa
- 1P195 Crystallographic orientation analysis of yttrium aluminum garnet thin films prepared on reactive sapphire substrates
(Toyota Technological Institute) ○Shuichi Arakawa · (Toyota Central R&D Labs) Hiroaki Kadoura · Takeshi Uyama ·
Kazumasa Takatori · Yasuhiko Takeda · (Toyota Technological Institute · Toyota Central R&D Labs) Toshihiko Tani
- 1P196 Low temperature liquid phase synthesis of ZnO nanostructured films
(Toyohashi University of Technology) ○Takuya Ito · Xing Wei · Wai Kian Tan · Go Kawamura · Hiroyuki Muto · Atsunori Matsuda
- 1P197 Direct fabrication of Fe₂O₃:Ca film on Fe substrate by hydrothermal method
(Meiji University) ○Hideyuki Tanaka · Chihiro Izawa · Tomoaki Watanabe
- 1P198 Investigation of factor determining crystal phases of rare earth nitrate hydroxides
(Ehime University) ○Fumiya Sato · Ryoji Takahashi
- 1P199 Electrical conductivity of Gd₂O₃ doped CeO₂ thin films by solution method
(Gifu University) ○Daisuke Shimizu · T. Ban · Y. Ohya
- 1P200 Effect of Ge substitution on ²⁹Si and ²⁷Al NMR spectra of imogolite
(National Institute of Technology, Numazu College) Takuya Noaki · Hiroki Sugisawa · ○Masashi Ookawa
- 1P201 Exfoliation and intercalation properties of single crystal of HCa₂Nb₃O₁₀
(Kyushu University) ○Yusuke Fukae · (Kyushu University · International Institute for Carbon-Neutral Energy Research(I2CNER)) Shintaro Ida ·
(Kyushu University) Syota Koga · (Kyushu University · International Institute for Carbon-Neutral Energy Research(I2CNER)) Hidehisa Hagiwara ·
(International Institute for Carbon-Neutral Energy Research(I2CNER)) Motonori Watanabe ·
(Kyushu University · International Institute for Carbon-Neutral Energy Research(I2CNER)) Takaaki Sakai · Tatsumi Ishihara
- 1P202 Synthesis of Inorganic-Organic Hybrids from Polycyclic-aromatic-ring-bridged Diphosphonic Acids and a Copper(II) Salt *via* Hydrothermal Reactions
(Waseda university) Hiroyoshi Tobise · ○Koichiro Shimegi · Ryo Sugiura · Julian Zapico · (Kagami Memorial Res. Inst. Mater. Sci. Tech.)
Naokazu Idota · (Hokkaido university) Akira Miura · (Yamanashi university) Nobuhiro Kumada ·
(Waseda university · Kagami Memorial Res. Inst. Mater. Sci. Tech.) Yoshiyuki Sugahara
- 1P203 Development of Preparation Technique for Porous Ceramics Materials via Composite Particles
(Toyohashi University of Technology) ○Naoto Kimura · Binbin Sun · Gou Kawamura · Atsunori Matsuda · Hiroyuki Muto
- 1P204S Synthesis and characteristics of nano-sized 2D iron oxide with molecular assembly template
(The University of kyushu) ○Shin-ichi Hayano · Michitaka Ohtaki

14. 気相プロセス Vapor phase process

- 1P205 Preparation of low melting point zinc complex and development of low temperature formation method for transparent zinc oxide thin film
(Shibaura Institute of Technology) ○Makiko Tanabe · Tomoji Ohishi
- 1P206 Influence of V/III ratio on nucleation and growth of InN by atmospheric pressure halide chemical vapor deposition
(The University of Shizuoka) ○Kanji Harada · Naonori Sakamoto · Naoki Wakiya · Hisao Suzuki

15. パウダープロセス Process of powder

- 1P207 Fabrication of c-axis-oriented Ba₂NaNb₅O₁₅ ceramics using colloid processing in high magnetic field
(Nagaoka University of Technology) ○Yuta Kamo · S. Tanaka
- 1P208 Hot pressing sintering process of ZrB₂ with SiBCN as a sintering aid
(School of Materials Science and Engineering, Beihang University) Bo Feng · Bingyang Li · ○Yue Zhang
- 1P209 Preparation of polyethyleneimine-fatty acid complex in IPM and their application toward stability improvement of TiO₂ nanoparticles
(Yokohama National University) ○Yasuhuro Kawaharada · M. Iijima · J. Tatami
- 1P210 Synthesis of Plate-like NaNbO₃ Crystal Particles Using Single-Step Molten Salt Method with Mixed Salt
(The National Defense Academy) ○Keisuke Ishii · Shinjiro Tashiro
- 1P211 Effect of acrylic latex addition on the resistance properties of hardened cement against sulfuric acid
(Yokohama National University) ○Shunsuke Mizumoto · Motoyuki Iijima · Junichi Tatami ·
(Asahikasei Chemicals Corporation) Tuyet Nga Nguyen · Yasuyuki Kamiyama · Motoyosi Mori
- 1P212 Continuous observation of granule compaction
(Nagaoka university of Technology) ○Zenji Kato · Yoshihiro Nagasawa · Satoshi Tanaka
- 1P213 Fabrication of gas seal with high electric resistivity for solid oxide fuel cells by oxidation sintering of NiAl₃ particles
(Hosei University) ○Takafumi Yamaguchi · Takaya Akashi
- 1P214 Preparation of c-axis oriented AlN by CaF₂ sintering additive and a rotating magnetic field
(Shibaura Institute of Technology) ○Kento Imai · Hajime Kiyono · (National Institute for Materials Science) Tohru Suzuki · Yoshio Sakka
- 1P215 Study on Fabrication and Evaluation of Iron Silicides by Mechanical Alloying
(Doshisha university) ○Hirosi Kuroda · Yuuki Sato · Shinzo Yoshikado
- 1P216 Fabrication of Tin-doped Indium Oxide Thin Films by Aerosol Deposition Method
(Doshisha University) ○Yutaka Hasegawa · Yuki Sato · Shinzo Yoshikado
- 1P217 The feasibility study of a process controlling for a spray drying process for industrial using by data acquired from real-time particle size analysis
(Malvern) ○Fumiaki Sato · Daisuke Sasakura · (Preci) Hayato Kato · Shinya Kawaguchi
- 1P218 A Study for Operation Optimization of The Spray Drying Process Used for Fine Ceramics by Real Time Particle Size Distribution Analysis
(PRECI Co.,Ltd.) ○Shinya Kawaguchi · Yuichi Misumi · Hayato Kato · (Malvern Instruments ,Div of Spectris Co.Ltd.)
Fumiaki Sato · Daisuke Sasakura · Miyuki Funato
- 1P219 The effect of the surface physicochemical characteristics of the Almina particles in slurry concerning the process behavior and the particle morphology of granule on the spray drying
(Spectris co., Ltd.) ○Miyuki Funato · Fumiaki Sato · Daisuke Sasakura · (Prici co., Ltd.) Shinya Kawaguchi · Hayato Kato

- 1P220 Fabrication of high thermal conductive c-axis-oriented Si_3N_4 ceramics by molding in a low and static magnetic field using multilayer graphene-coated composite particles
(Yokohama National University) ○Mariko Sado · (Kanagawa Academy of Science and Technology) Takuma Takahashi · (Yokohama National University) Junichi Tatami · Motoyuki Iijima
- 1P221 Low magnetic field orientation of glass fiber in epoxy resin by coating multilayer graphene
(Kanagawa Academy of Science and Technology) ○Takuma Takahashi · (Yokohama National University) Junichi Tatami
- 1P222 Fabrication of porous honeycomb alumina with controlled pore structure through molding in a magnetic field using a small resin mold prepared by stereolithography
(Yokohama National University) Emi Takahashi · ○Junichi Tatami · Shoji Moti

16. キャラクターゼーション Characterization

- 1P223 Cathodoluminescence properties on High-pressure Phase of SrO:Ce phosphors synthesized on single crystalline magnesite
(Nagaoka University of Technology) ○Keiji Komatsu · (Chubu Chelest Co. Ltd · Nagaoka University of Technology) Atsushi Nakamura · (Nagaoka University of Technology) Hidetoshi Saitoh
- 1P224 Synthesis and crystal structure of a new aluminum oxycarbide in the system $\text{Al}_3\text{C}_2\text{Al}_2\text{O}_3$
(Nagoya Institute of Technology · Research Fellow of Japan Society for the Promotion of Science) ○Hiroki Banno · (Nagoya Institute of Technology) Toru Asaka · Koichiro Fukuda
- 1P225 Discovery of a New Oxide-Ion Conductor SrNdInO_4
(Tokyo Institute of Technology) ○Ayaka Fujimoto · Kotaro Fujii · Eiki Niwa · Masatomo Yashima
- 1P226 Interplay among structure, magnetic and electron transport properties in Fe-based double perovskites
(Nagoya Institute of Technology) ○Tomoki Matsumura · Daisuke Urushihara · Tatsuya Suzuki · Toru Asaka · Koichiro Fukuda · (Kyoto University) Shinya Konishi · Katsuhisa Tanaka
- 1P227 Determination of the crystal structure of $\alpha\text{-SrGa}_2\text{O}_4$ at 1480 °C
(Tokyo Institute of Technology) ○Keita Saito · Kotaro Fujii · Eiki Niwa · Masatomo Yashima
- 1P228 Discovery of a new type of oxide-ion conductor containing ZnO_5 -pyramids $\text{BaZnHo}_2\text{O}_5$
(Tokyo Inst. Tech.) ○Keigo Nakamura · Kotaro Fujii · Eiki Niwa · Masatomo Yashima
- 1P229 Electrical Properties and Crystal Structure of the Zircon ZrSiO_4
(Tokyo Institute of Technology) ○Takahiko Morise · Eiki Niwa · Kotaro Fujii · Masatomo Yashima
- 1P230 Anisotropy of Thermal Expansion of Ruddlesden-Popper Phases $\text{Sr}_3\text{Ti}_2\text{O}_7$ and $\text{La}_2\text{SrAl}_2\text{O}_7$
(Tokyo Institute of Technology) ○Shota Nagamine · Kotaro Fujii · Eiki Niwa · Masatomo Yashima
- 1P231 Electrical Conductivity and Crystal Structure of $\text{Ca}_2\text{R}_3\text{Ta}_3\text{O}_{14}$ ($R = \text{Y, Ho, Dy}$)
(Tokyo Institute of Technology) ○Wataru Uno · Kotaro Fujii · Eiki Niwa · Naoki Yamamoto · Takumi Sannomiya · Masatomo Yashima

★★ March 15 (Tue) (Room A) ★★

15. パウダープロセス Process of powder

合成

(9 : 00) (Chairman 鈴木達)

- 2A01 Synthesis of Ti_4O_7 nanoparticles by carbothermal reduction using microwave heating
(Tohoku University) ○Tomohiro Takeuchi · Jun Fukushima · Yamato Hayashi · Hirotsugu Takizawa
- 2A02 One-step mechanical synthesis of LiCoPO_4/C composite granules
(Osaka University) ○Mitsuaki Matsuoka · Akira Kondo · Takahiro Kozawa · Makio Naito · (Toyota Motor Corporation) Hideyuki Koga · Toshiya Saito · Hideki Iba
- 2A03 Microwave Solid-state Synthesis of Lithium titanate / Carbon Nanocomposite Powder for Electrode of Lithium Ion batteries
(Tohoku University) ○Yamato Haysahi · Dohyeong Kim · Hiromi Suzuki · Jun Fukushima · Hirotsugu Takizawa
- 2A04 Flux Growth of One-dimensional $\text{Li}_2\text{NiPO}_4\text{F}$ Single Crystal by using Mixed Halide Flux
(Shinshu University) ○Tetsuya Yamada · Yuta Hagano · Nobuyuki Zettsu · Katsuya Teshima

スラリー

(10 : 00) (Chairman 藤正督)

- 2A05 Influence of slurry properties on three-dimensional alumina ceramics by stereolithography
(Kagawa Industrial Technology Center) ○Kozo Yokota · Shigeyuki Takahara
- 2A06 Expression factors of shear-thinning behavior in mono-dispersed slurry
(Nagaoka University of Technology) ○Yoshihiro Nagasawa · Zenji Kato · Satoshi Tanaka
- 2A07 Fabrication of Porous Substrate for Oxide-ion-conductor Thin Film 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
- 2A08 Microstructures and properties of highly porous thermal insulators through gelation freezing route
(National Institute of Advanced Industrial Science and Technology (AIST)) ○Manabu Fukushima · Yu-ichi Yoshizawa

焼結

(11 : 00) (Chairman 北 憲一郎)

- 2A09 Effect of Current Density on Flash Sintering of Zirconia at Isothermal Furnace Temperature
(Gifu University) ○Michiyuki Yoshida · (University of Oxford) Richard I. Todd · (Gifu University) Osamu Sakurada · (Gifu Prefectural Ceramics Research Institute) Seizo Obata
- 2A10 Spark plasma sintering of Si_3N_4 using nanocomposite particles
(Yokohama National University) ○Kwangjin Jeong · Junichi Tatami · Motoyuki Iijima · (National Institute for Materials Science) Toshiyuki Nishimura
- 2A11 Microscopic stress distribution in Viscous Sintering of Two Spheres
(Tokyo Institute of Technology) ○Shun Kanchika · Yutaka Shinoda · Fumihiko Wakai · (Saga University) Takashi Akatsu

(15 : 00) (Chairman 辻本吉廣)

2A25 Development of ceramics scintillators prepared by the SPS method V

(Tohoku University) ○Shunsuke Kurosawa · Koichi Harata · Hiroaki Chiba · Rikito Murakami · Takahiko Horiai · Akihiro Yamaji ·
Pejchal Jan · Yuji Ohashi · Kei Kamada · Yuui Yokota · Akira Yoshikawa

バルク特性

(15 : 15) (Chairman 吉田英弘)

2A26 Fabrication of lead-free alkali niobate ceramics with various kinds of niobium pentoxide powders as raw material

(Nagoya Institute of Technology) ○Eiko Matsumura · Teruaki Fuchigami · Ken-ichi Kakimoto

2A27 Preparation of lunar monolith using lunar regolith by geopolymer method

(Yamaguchi University) ○Ryuichi Komatsu · Junya Satoh · Ryo Tsutsuura

微構造

(15 : 45) (Chairman 白井孝)

2A28 Analysis on orientation behavior for colloidal processing in magnetic field using UV curable resin

(Nagaoka University of Technology) ○Shoko Baba · Satoshi Tanaka ·

(Taiyo Yuden Co. Ltd) Tomohiro Harada · Hiroyuki Shimizu · Yutaka Doshida

2A29 Evaluation of pore structure in porous alumina prepared by pore forming agent by using micro X-ray CT

(Nagaoka University of Technology) ○Shota Okabe · Zenji Kato · Satoshi Tanaka

2A30 The statistically characterization to internal structure of spray dried granule using a liquid immersion method by a particle image analysis.

(Malvern Instruments, Div of Spectris Co., Ltd.) ○Daisuke Sasakura · Miyuki Funato · Fumiaki Sato ·

(Preci Co.,Ltd.) Shinya Kawaguchi · Yuichi Misumi · Hayato Kato

2A31 Development of Electrically Driven Microcar Using Two-Photon Microfabrication

(Nagaoka University of Technology) ○Maria Guadalupe del Rocio Herrera-Salazar · Hiroyuki Akiyama · Tadachika Nakayama · Naoto Matsutani

★★ March 15 (Tue) (Room B) ★★

13. 液相プロセス Liquid phase process

その他

(9 : 00) (Chairman 上野慎太郎)

2B01 SEM observation of wet core-shell type ceria nanoparticles

(National Institute of Advanced Industrial Science and Technology (AIST)) ○Noriya Izu ·

Toshihiko Ogura · Toshio Uchida · Takafumi Akamatsu · Toshio Itoh · Woosuck Shin

2B02 Strontium collecting behaviors of carbamate-containing calcium carbonate particles from artificial sea water

(National Institute for Materials Science) ○Jin Nakamura · Yoshio Sakka · (Nagoya Institute of Technology) Toshihiro Kasuga

2B03 Surface functionalization of SiO₂ by the formation of calcium silicate hydrate nanostructures (Osaka University) ○Kenji Okada · Ken-ichi Machida

水熱合成・ソルボサーマル

(9 : 45) (Chairman 朝倉裕介)

2B04 Synthesis of Mordenite Film by Strong Magnetic Field-Assisted Hydrothermal Method

(National Institute for Materials Science) ○Tetsuo Uchikoshi · (National Institute of Advanced Industrial Science and Technology) Chika Matsunaga ·

(University of Tsukuba) Kantaro Tsuchiya · (National Institute for Materials Science) Noriyuki Hirota · Tohru Suzuki ·

(Tokyo University of Science) Yumi Tanaka · (Kumamoto University) Motohide Matsuda

2B05 Hydrothermal Synthesis of Solid Solutions of Rare Earth Niobate

(Aichi Institute of Technology) ○Masanori Hirano · Katsuya Ishikawa

2B06 Hydrothermal Synthesis of Tantalum Oxide and Tantalum-based Composite Oxides Using Uniform Hydrous Tantalum Oxide Particles

(Chiba University) ○Syunsuke Kobayashi · Takashi Kojima · Naohumi Uekawa

(10 : 30) (Chairman 打越哲郎)

2B07 Hydrothermal Process to Synthesize Ferrite Nanosheets (Tokyo Institute of Technology) ○Kenichi Wakayama · Yuki Kamei · Nobuhiro Matsushita

2B08 Preparation of iron oxide nanoparticles using urea hydrogen peroxide or pyridine *N*-oxide as oxygen donor

(The University of Waseda) ○Atsuo Kamura · (Kagami Memorial Institute for Materials Science and Technology) Naokazu Idota ·

(The University of Waseda · Kagami Memorial Institute for Materials Science and Technology) Yoshiyuki Sugahara

2B09 Preparation of Sodium Niobate Nanocube Particles by Microwaves-assisted Solvothermal Method with Niobium Oxide Nanoparticles

(University of Yamanashi) ○Chika Kunugi · Kouichi Nakashima · Tsukasa Chikata · Shintarou Ueno · Satoshi Wada

受賞講演

(11 : 15) (Chairman 殷しゅう)

2B10A [The 70th CersJ Awards] Synthesis and Performance Improvement of Metal Oxide by a Solvothermal Method

(Kyoto University) ○Saburo Hosokawa

水溶液プロセス

(15 : 15) (Chairman 上川直文)

2B26 Synthesis and properties of amorphous materials consisting of oxo-oligomers modified with guaiacol

(Kansai University) Hiromitsu Kozuka · ○Shinnosuke Yamazaki

2B27 Fabrication of copper iodide single crystal by Top Seeded Solution Growth method

(Tokyo Institute of Technology) ○Satoshi Koysu · Etsuo Sakai · Masahiro Miyauchi

2B28 Synthesis of Ce-Zr compound/Surfactant nanocomposite nanotube

(Saga University) ○Tatsuya Ayabe · Takashi Miyaguchi · Seiya Higuchi · Toshio Torikai · Takanori Watari ·

(Kyushu University) Yuko Inoue · (Saga University) Mitsunori Yada

(16 : 00) (Chairman 今井宏明)

2B29 Synthesis of rare earth-containing spherical particles for structural color by solution process

(Tokai University) ○Chihiro Shoji · Koji Tomita · (Tohoku University) Makoto Kobayashi · Hideki Kato · Masato Kakihana

受賞講演

(16 : 15) (Chairman 今井宏明)

2B30A [The 70th CersJ Awards] Synthesis of titania with controlled structures and its development

(Tohoku University) ○Makoto Kobayashi

★★ March 15 (Tue) (Room C) ★★**05. ガラス・フォトンクス材料 Glass and photonic materials****新材料・プロセス**

(9 : 00) (Chairman 篠崎健二)

2C01 Synthesis of single crystalline La_2O_3 nanosheet and $\text{La}_2\text{O}_3:\text{Eu}^{3+}$ nanosheet by templating graphite oxide nanosheet

(Shinshu University) ○Ryota Saito · (Shinshu University · Center for Energy & Environmental Science) Yusuke Ayato · Dai Mochizuki · Wataru Sugimoto

2C02 Synthesis and luminescence property of new mixed-anion compounds with halide layer

(The University of Tokyo) ○Takuya Kitamura · Hiraku Ogino · (NAIST) Takeyuki Yanagida · (Aoyama Gakuin University) Junichi Shimoyama · (The University of Tokyo) Kohji Kishio

2C03 Luminescence properties of $\text{Ca}_3\text{Ln}(\text{AlO})_3(\text{BO}_3)_4$ activated with Ce^{3+} , Tb^{3+} and Mn^{2+}

(Tohoku University) ○Dawei Wen · Hideki Kato · Makoto Kobayashi · Masato Kakihana

受賞講演

(9 : 45) (Chairman 本間剛)

2C04A [The 70th CerSJ Awards] Development of Transparent Ceramic Phosphors based on ABO_3 Perovskite and $\text{A}_2\text{B}_2\text{O}_7$ Pyrochlore Structures

(Murata Manufacturing. Co., Ltd.) ○Satoshi Kuretake · Atsushi Honda · Takashi Oyama · Koji Murayama · Nobuhiko Tanaka · Noriyuki Kubodera

EL 材料

(10 : 30) (Chairman 河村剛)

2C07 AC electroluminescent properties of $\text{Ca}_{0.6}\text{Sr}_{0.4}\text{TiO}_3:\text{Pr}/\text{In}_2\text{O}_3:\text{Sn}$ thin film electroluminescent devices

(Gunma University) ○Toru Kyomen · Minoru Hanaya · (National Institute of Advanced Industrial Science and Technology) Hiroshi Takashima

2C08 Fabrication of ultraviolet electroluminescent devices using $\text{YAlO}_3:\text{Gd}^{3+}$ thin films

(Kyushu Institute of Technology) ○Yuhei Shimizu · Kazushige Ueda

長残光

(11 : 00) (Chairman 大幸裕介)

2C09 Investigation of optimum co-dopant for $\text{Ca}_3\text{Si}_2\text{O}_7:\text{Eu}^{2+}$ -based orange persistent phosphors

(Kyoto University) ○Ryomei Maki · Jumpei Ueda · Setsuhisa Tanabe

2C10 Long Afterglow in $\beta\text{-SrAl}_2\text{O}_4$ Synthesized by Crystallization of Glass and Solidification of Supercooling Melts

(Nagaoka University of Technology) ○Kenji Shinozaki · Mikiya Kotaka · Tsuyoshi Honma · Takayuki Komatsu · (Coe College) Mario Affatigato

2C11 Red persistent luminescent properties of $\text{Ln}_3\text{GaO}_6:\text{Eu}^{3+}$ ($\text{Ln}=\text{Y}, \text{Gd}$)

(Tokyo Institute of Technology) ○Takuro Dazai · Yousuke Hamasaki · Shintaro Yasui · Tomoyasu Taniyama · Mitsuru Itoh

粒子状発光体

(14 : 45) (Chairman 安井伸太郎)

2C24 Fabrication of $\text{SiO}_2/\text{CePO}_4:\text{Tb}^{3+}$ Core-Shell Phosphor Particles and Their Redox Responsivity

(Keio University) ○Shuhei Takasu · Manabu Hagiwara · Shinobu Fujihara

2C25 Nano-sized synthesis and photoluminescence characterization of Eu^{2+} doped Ba_2SiO_4 phosphors

(Nagoya Institute of Technology) ○Masato Furuta · Tomokatsu Hayakawa

2C26 Fabrication of Redox-Responsive Hollow $\text{CeO}_2:\text{Sm}^{3+}$ Particles

(Keio University) ○Takashi Umehara · Manabu Hagiwara · Shinobu Fujihara

2C27 Wavelength conversion composite particle

(SUMITOMO OSAKA CEMENT Co.,Ltd) ○Tutomu Nozoe · Takeshi Ootsuka · Tooru Kinoshita

蛍光体 (Ce, Eu)

(15 : 45) (Chairman 萩原学)

2C28 Ce:YAG single-crystal powder phosphors for white LEDs

(National Institute for Materials Science · Waseda University) ○Stelian Arjoca · (National Institute for Materials Science) Encarnación G. Villora · (Tamura Corporation) Daisuke Inomata · Yusuke Arai · (National Institute for Materials Science · Tsukuba University) Yujin Cho · Takashi Sekiguchi · (National Institute for Materials Science · Waseda University) Kiyoshi Shimamura

2C29 Stabilization of $\alpha\text{-Ca}_2\text{SiO}_4$ by element substitution and its luminescence property

(Tohoku University) ○Hiroki Kuwahara · Hideki Kato · Makoto Kobayashi · Masato Kakihana

2C30 Host luminescence properties of layered mixed-anion compounds $\text{AE}_2\text{RE}_2\text{Cl}_2\text{O}_5$

(The University of Tokyo) Makoto Tatsuda · ○Hiraku Ogino · (NAIST) Takayuki Yanagida · (Aoyama Gakuin University) Jun-ichi Shimoyama · (The University of Tokyo) Kohji Kishio

★★ March 15 (Tue) (Room D) ★★**05. ガラス・フォトンクス材料 Glass and photonic materials****強化ガラス**

(9 : 00) (Chairman 吉田智)

2D01 Structural investigation of chemically strengthened glass by depth profile analysis in micro-Raman spectroscopy

(Tohoku University) ○Shohei Uchida · Nobuaki Terakado · Yoshihiro Takahashi · Takumi Fujiwara · Mototaka Arakawa

2D02 Observation of crack bifurcation phenomena by Caustics method in tempered glass

(GMS Research Laboratory · Teikyo University) ○Shini'chi Aratani

2D03 Evaluation of mechanical properties of compressive stress layer in ion-exchanged glass by microcantilever beam specimen

(Yokohama National University) ○Saho Fujita · Junichi Tatami · Motoyuki Iijima ·

(Kanagawa Academy of Science and Technology) Tsukahara Yahagi

高密度化

(9 : 45) (Chairman 武藤浩行)

- 2D04 Fabrication of dense sintered body from $\text{Na}_2\text{O-ZnO-B}_2\text{O}_3\text{-P}_2\text{O}_5$ glass through oxygen-supplied hot isostatic pressing and its evaluation
(Sophia University) ○Nanako Akiyama · Hideki Kuwahara · Haruhiko Kuroe ·
(Delft University of Technology) Hubertus Hintzen · (Sophia University) Kiyoshi Itatani
- 2D05 Scratch- and Indentation-Induced Deformation Behavior of Soda-Lime Silicate Glass
(The University of Shiga Prefecture) ○Daisuke Murata · Satoshi Yoshida · Akihiro Yamada · Jun Matsuoka

イオン拡散

(10 : 15) (Chairman 武藤浩行)

- 2D06 In-situ observation of H^+ implantation via electric field and creep behavior of proton conducting glass
(Nagoya Institute of Technology) ○Junki Kato · Yusuke Daiko · Sawao Honda · Yuji Iwamoto · (Rennes 1) Tanguy Rouxel
- 2D07 Soret coefficients of alkali metal ions in alkali borate glass melts
(Kyoto University) ○Masahiro Shimizu · Daisuke Hanakawa · Hiroshi Kato · Masayuki Nishi · Kohji Nagashima · Kazuyuki Hirao

構造解析 (高温ラマン)

(10 : 45) (Chairman 清水雅弘)

- 2D08 Raman scattering spectra of alkaline earth borate glasses and levitating melts
(The University of Tokyo) ○Tomonori Ichimaru · Hiroyuki Inoue · Atsunobu Masuno
- 2D09 Structural Alteration of Sodium-Aluminosilicate Glass at Batch on Heating by High-temperature Raman Spectroscopy
(Tokyo Institute of Technology) ○Rikiya Kado · Tetuo Kishi · Tetsuji Yano ·
(Nippon Sheet Glass Co., Ltd.) Koichi Shiraki · Yukihito Nagashima · Chihiro Sakai · Koichi Sakaguchi

受賞講演

(11 : 15) (Chairman 井上博之)

- 2D10A [The 70th Cers] Awards] Study on the Structural dynamics of vitrification process and molten glasses at high temperature
(Tokyo Institute of Technology) ○Tetsuji Yano

構造解析 (NMR)

(14 : 45) (Chairman 寺門信明)

- 2D24 Structural analysis of $\text{Na}_2\text{O-Y}_2\text{O}_3\text{-B}_2\text{O}_3\text{-Al}_2\text{O}_3$ glass by using strong magnetic-field solid-state nuclear magnetic resonance (NMR)
(Kyoto University) ○Shunichi Kaneko · Hirokazu Masai · Yomei Tokuda

構造解析 (MD 計算)

(15 : 00) (Chairman 北村直之)

- 2D25 Molecular dynamics modeling of anisotropic drawn glass in calcium phosphate system
(Okayama University) ○Ikuya Matsui · Yoshiya Ono · Shinichi Sakida · Yasuhiko Benino · Tokuro Nanba
- 2D26 Molecular dynamics simulation of the mechanical properties of silicate glasses
(The University of Tokyo) ○Hiroyuki Inoue · Atsunobu Masuno · Gustavo Alberto Rosales Sosa

ガラス結晶化

(15 : 30) (Chairman 正井博和)

- 2D27 Photoinduced periodic nanocrystalline structure inside $\text{Al}_2\text{O}_3\text{-Dy}_2\text{O}_3$ glass
(Kyoto University) ○Yasuhiko Shimotsuma · Satoshi Mori · Torataro Kurita · Masaaki Sakakura · Kiyotaka Miura
- 2D28 Crystallization of glass by penetration of alloy electrode
(The University of Okayama) ○Toshihiko Azuma · Shinichi Sakida · Yasuhiko Benino · Tokuro Nanba

電気伝導

(16 : 00) (Chairman 岸哲生)

- 2D29 Crystallization behavior of sodium transition metal phosphate glass
(Nagaoka University of Technology) ○Chiharu Akatsuka · Kenji Shinozaki · Tsuyoshi Honma · Takayuki Komatsu
- 2D30 Electrical Ag^+ emission and formation of Ag nanoparticles utilizing an Ag^+ -ion-conducting glass fiber
(Nagoya Institute of Technology) ○Kyohei Segawa · Yusuke Daiko · Sawao Honda · Yuji Iwamoto
- 2D31 Electrical Conductive Properties of Carbon Nanotube dispersing Silicate Glasses
(Tokyo University of Science) ○Tomohiro Miyashita · Kenichiro Iwasaki · Atsuo Yasumori

★★ March 15 (Tue) (Room E) ★★**04. 磁性材料 Magnetic material****ペロブスカイト関連化合物**

(9 : 00) (Chairman 陰山洋)

- 2E01 Origin of room temperature ferromagnetism in $\text{BiFe}_{1-x}\text{Mn}_x\text{O}_3$
(Tokyo Institute of Technology) ○Takeshi Asakura · Hajime Yamamoto · Masaki Azuma · (Nagoya Institute of Technology) Ko Mibu
- 2E02 Phase transitions of $\text{Ca}_{0.5}\text{Bi}_{0.5}\text{FeO}_3$ with unusually high valence $\text{Fe}^{3.5+}$
(ICR, Kyoto University) ○Yoshiteru Hosaka · Noriya Ichikawa · Takashi Saito · (ICR, Kyoto University · JST-CREST) Yuichi Shimakawa
- 2E03 A-site and B-site charge orderings of perovskite PbCoO_3
(Kanagawa Academy of Science and Technology) ○Yuki Sakai · (Tokyo Institute of Technology) Runze Yu · Hajime Yamamoto · Hajime Hojo ·
Masaki Azuma · (Osaka Prefecture University) Makoto Murakami · Ikuya Yamada · (Chinese Academy of Sciences) Yange Junye · Yin Yunyu ·
Youwen Long · (High Energy Accelerator Research Organization) Ping Miao · SangHyun Lee · Shuki Torii · Takashi Kamiyama
- 2E04 Structures and Magnetic Properties of A-site Column Ordered Double Perovskite LnMnBTiO_6
(Nagoya University) ○Gen Shimura · Yuichi Shirako · Ken Niwa · Masashi Hasegawa
- 2E05 Magnetic properties of 6L-perovskite $\text{Ba}_3\text{Nd}(\text{Ru}_{1-x}\text{Ir}_x)_2\text{O}_9$ showing the hexagonal / monoclinic structural phase transition
(Hokkaido University) ○Yuri Takagi · Yoshihiro Doi · Makoto Wakeshima · Yukio Hinatsu

複合体

(10 : 30) (Chairman 長谷川正)

- 2E07 Preparation of hard magnetic composites " α -Fe₁₆N₂" / FePt through low temperature nitridation
(Hokkaido University) ○Yuji Masubuchi · Ryoji Yamauchi · Shinichi Kikkawa
- 2E08 MgFe₂O₄@SiO₂ core/shell nano-sphere: the silica coating regulations for different shell thickness
(Shizuoka University) ○Harinarayan Das · Nipa Debnath · Takashi Arai · Naonori Sakamoto ·
(Tokyo Institute of Technology) Kazuo Shinozaki ·
(Shizuoka University) Hisao Suzuki · Naoki Wakiya
- 2E09 Sol-gel Preparation of ZnO-La₂CoMnO₆ Nanocomposite Thin Films (Keio University) ○Mizuki Saito · Manabu Hagiwara · Shinobu Fujihara

新物質

(11 : 15) (Chairman 長谷川正)

- 2E10 High-Pressure Synthesis, Crystal Structure and Magnetic Properties of the New Layered Oxyfluoride Perovskite Sr₂MnO₃F
(National Institute for Materials Science · Hokkaido University) ○Yu Su · (National Institute for Materials Science) Yoshihiro Tsujimoto ·
(The University of Tokyo) Tendai Haku · Takatsugu Masuda · (National Institute for Materials Science · Hokkaido University) Kazunari Yamaura
- 2E11 Synthesis and Magnetic Properties of a New Layered Antimonide
(Kyoto University) ○Taito Murakami · Takafumi Yamamoto · Cedric Tassel · Hiroshi Takatsu · Hiroshi Kageyama

12. 教育 Education

教育

(12 : 00) (Chairman 田中功)

- 2E13 Some Problems in the High School Text Books of Chemistry (Tokyo Institute of Technology) ○Masatomu Yashima
- 2E14 Food education, the environment, ethical, cultural and tableware, program receptive to cross to various curriculum from science field
(SANSHIN KAKOH Co., Ltd.) ○Seiji Ebihara · (Saga University) Etsuo Horokawa

(12 : 30) (Chairman 樽田誠一)

- 2E15 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 Kudo ·
Tomohiko Yoshioka · Ichiro Hayakawa · Akira Sakakura · Satoshi Hayakawa · Eiji Tomita · Chiharu Obata ·
(Poly-Glu Social Business Co., Ltd) Kanetoshi Oda · Hiroko Kishida ·
(Zhejiang University of Technology) Fan Xiao · (Xiamen University) Lei Ren
- 2E16 "Teach Science" Carrier House for Study Activity by Development of Teaching Materials - Development of Teaching Materials using Piezoelectric devices -
(University of Yamanashi) ○Isao Tanaka · Nao Okabe

03. 導電性材料 Electroconductive material

センサ

(14 : 30) (Chairman 鈴木真也)

- 2E23 Gas sensor property of W doped ZnO and Zn doped SnO₂ thin films
(National Institute for Materials Science) ○Isao Sakaguchi · Yutaka Adachi · Ken Watanabe · Noriko Saito · Taku Suzuki
- 2E24 Gas Sensor Property of MoO₃ Nanorods synthesized by Metal Organic Decomposition Method
(Osaka University) ○Tohru Sugahara · Shren Cong · Katsuaki Suganuma
- 2E25 H₂ response of low-temperature operation type sensors using inorganic/organic hybrid electrolyte
(National Institute of Advanced Industrial Science and Technology) ○Takafumi Akamatsu · Toshio Itoh · Woosuck Shin
- 2E26 Stability at low oxygen partial pressure of oxygen sensor using porous GdBa₂Cu₃O_{7- δ} -based ceramic rod prepared using naphthalene
(Nagaoka University of Technology) ○Tokuhiro Narihata · Tomoichiro Okamoto · Yasuyuki Yamada ·
(Salesian Polytechnic) Yuichiro Kuroki · (Japan Fine Ceramics Center) Masasuke Takata
- 2E27 Sensing properties of Pt, Pd, and Au-loaded tin oxide VOC sensors for breath analysis
(National Institute of Advanced Industrial Science and Technology (AIST)) ○Toshio Itoh · Toshio Miwa · Takafumi Akamatsu ·
Woosuck Shin · (Aichi Cancer Center) Toyooki Hida · (Figaro Engineering inc.) Yasuhiro Setoguchi

企業研究フロンティア

(15 : 45) (Chairman 鶴見敬章)

- 2E28F [Frontiers] Development and Electrical Properties of New NTC Thermistor Materials (Mitsubishi Materials Corporation) ○Toshiaki Fujita

技術奨励賞受賞講演

(16 : 15) (Chairman 鶴見敬章)

- 2E30A [The 70th CerS Awards] Development of Perovskite La(Cr,Mn)O₃ NTC Materials for Wide Temperature Range Thermistor Sensor
(Mitsubishi Materials Corporation) ○Toshiaki Fujita

★★ March 15 (Tue) (Room F) ★★

02. 誘電性材料 Dielectric material

キャラクターゼーション

(9 : 00) (Chairman 寺西貴志)

- 2F01 Piezoelectric properties and fatigue behaviors of lead-free alkali niobate piezoceramics under compressive stress
(Nagoya Institute of Technology) ○Kenji Ogo · Teruaki Fuchigami · Ken-ichi Kakimoto ·
(Friedrich-Alexander-University of Erlangen-Nuremberg) Weiss Manuel · Rupitsch Stefan J. · Lerch Reinhard
- 2F02 Evaluation of piezoelectric properties for high capacitance (Na_{0.5}K_{0.5})NbO₃-Ba₂NaNb₅O₁₅ ceramics
(Nagoya Institute of Technology) ○Katsuya Yoshida · Teruaki Fuchigami · Ken-ichi Kakimoto ·
(Friedrich-Alexander-University of Erlangen-Nuremberg) Weiss Manuel · Rupitsch Stefan J. · Lerch Reinhard
- 2F03 Composition Dependence of Grain Size Effect in BiFeO₃-BaTiO₃ Piezoelectric Ceramics
(Keio University) ○Manabu Hagiwara · Yui Sudo · Shinobu Fujihara
- 2F04 Growth, electrical and mechanical characterization of gehlenite based solid solution single crystals
(Tokyo Institute of Technology) ○Kyohei Yoshida · Hiroaki Takeda · Takuya Hoshina · Takaaki Tsurumi

- 2F05 Electro-optic measurement of BaTiO₃-based ferroelectric relaxor ceramics
(Tokyo Tech) ○Ryuta Yamamoto · Takuya Hoshina · Hiroaki Takeda · Takaaki Tsurumi
- (10 : 30) (Chairman 永田肇)
- 2F07 Electrocaloric Properties of K(Ta,Nb)O₃ Crystals and BaTiO₃-based Ceramics (Shonan Institute of Technology) ○Hiroshi Maiwa
- 2F08 Application of ferroelectric interface for Li ion batteries with high rate capability
(Okayama University) ○Takashi Teranishi · Naoto Katsuji · Takuya Namba · Radzi Muhammad · Yumi Yoshikawa · Hidetaka Hayashi · Akira Kishimoto
- 2F09 Measurement of the electron-trap levels in the SrTiO₃-based grain boundary barrier layer capacitor materials using the DLTS method
(Tokyo Institute of Technology) ○Ryouma Ishikawa · Takuya Hoshina · Hiroaki Takeda · Takaaki Tsurumi · Yukio Sakabe
- 2F10 Development of high-reliability ceramic capacitors with the valence stability of the acceptor (Disc type capacitors with lead)
(Murata Manufacturing Co., Ltd.) ○Hiroyuki Harano · Kazuji Kushiro · Atsushi Honda · Tomomitsu Yamanishi
- 2F11 Capacitance increase mechanism of multilayer ceramic capacitors using SrBaCaZrTiO₃ ceramics under high voltage, and high temperature
(Murata Manufacturing Company) ○Shinya Isota · Tomotaka Hirata · Kenichi Nada · Harunobu Sano

ナノクリスタル

- (14 : 45) (Chairman 和田智志)
- 2F24 Electrical properties of nano-grained SrTiO₃ ceramics fabricated by AD method
(Tokyo Institute of Technology) ○Mei Hotate · Kazuki Kanehara · Takuya Hoshina · Hiroaki Takeda · Takaaki Tsurumi
- 2F25 Oriented Attachment of BaTiO₃ Nanocrystals by van der Waals Torque
(National Institute of Advanced Industrial Science and Technology (AIST)) ○Kyuichi Yasui · Kazumi Kato
- 2F26 Effect of PVP molecules in the synthesis of cubic BaTiO₃-PVP nanoparticles
(Nagoya Institute of Technology · AIST) ○Jinhui Li · Woosuck Shin · (Noritake CO.,Limited) Hiroyuki Inukai · Yosuke Takahashi

進歩賞受賞講演

- (15 : 30) (Chairman 和田智志)
- 2F27A [The 70th CerSJ Awards] Development of dielectric nanocube ordered assembly for next generation devices
(National Institute of Advanced Industrial Science and Technology) ○Ken-ichi Mimura

強誘電体

- (16 : 00) (Chairman 柿本健一)
- 2F29S Growth of orientation-controlled HfO₂-based ferroelectric films and their ferroelectric properties
(Tokyo Institute of Technology) ○Hiroshi Funakubo · Takao Shimizu · Kiriha Katayama · Takanori Mimura · (Tohoku University) Takanori Kiguchi · Akihiro Akama · Toyohiko Konno · (Sophia University) Hiroshi Uchida
- 2F30 First-principles study of Ferroelectric Phase Transition of HfO₂ Thin Film
(JFCC) ○Hiroki Moriwake · Ayako Konishi · Akihide Kuwabara · (Kyoto University) Atsushi Togo · (Tokyo Tech.) Takao Shimizu · Hiroshi Funakubo
- 2F31 Fabrication of orthorhombic phase HfO₂-ZrO₂ thin film with solid-phase epitaxy
(Tohoku University) ○Takanori Kiguchi · Shogo Nakamura · Cangyu Fan · Takahisa Shiraishi · Toyohiko J. Konno · (Tokyo Institute of Technology) Takao Shimizu · Hiroshi Funakubo

★★ March 15 (Tue) (Room G) ★★

09. 環境・資源関連材料 Environment and energy related material

ガス吸着・分離

- (9 : 00) (Chairman 殷しゅう)
- 2G01 Oxygen storage capacity of FeNbO₄
(Kyoto University) ○Raizo Maeda · (Kyoto University · ESICB Kyoto University) Saburo Hosokawa · Kentaro Teramura · Tsunehiro Tanaka
- 2G02 Oxygen release property and three way catalytic reaction of Pd catalyst supported on Sr₃Fe₂O_{7-δ}
(Kyoto University) ○Kosuke Beppu · (Kyoto University · ESICB, Kyoto University) Saburo Hosokawa · Kentaro Teramura · Tsunehiro Tanaka
- 2G03 Synthesis and oxygen storage property of brownmillerite-type (Ca_{1-x}Sr_x)₂AlMnO_{5+δ}
(Kanagawa University) ○Miwa Saito · Masaki Ogikubo · Teruki Motohashi
- (9 : 45) (Chairman 輝樹)
- 2G04 Study of oxygen release speed of ceria-zirconia (NIPPON DENKO CO.,LTD.) ○Yusuke Hidaka · Tomoharu Itoh · Shingo Katayama
- (10 : 00) (Chairman 本橋輝樹)
- 2G05 Fabrication of cerium oxide nanorods with dealloying method for low temperature oxygen storage
(Tohoku University) ○Yoshifumi Ishikawa · Maiki Takeda · Susumu Tsukimoto · Koji Nakayama · Naoki Asao
- 2G06 Oxygen storage and photo-stimulated release function of CuO-supported TiO₂
(Hiroshima University) ○Kensuke Uemura · Nana Iio · Tomomi Ohashi · Kei Inumaru
- 2G07 Hydrogen storage capacity of nanoporous carbon treated with different cooling rates in activation process
(Nagaoka University Tech.) ○Yukino Kanma · Jie Zhu · Yoshikuni Ishibashi · Keiji Komatsu · Hidetoshi Saitoh · (Fuse TechnoNet) Yoshinori Tsuda
- (10 : 45) (Chairman 武井貴弘)
- 2G08 Nitrogen monoxide adsorption under high-temperature on alkaline/alkaline-earth metal included oxides
(Tokyo University of Science · RIST, Tokyo University of Science) ○Kenjiro Fujimoto · (Tokyo University of Science) Yuto Ishiduka · Takaya Kimura · (Tokyo University of Science · RIST, Tokyo University of Science) Yuki Yamaguchi
- 2G09 Fabrication of self-heating CO₂ absorber Li₂CuO₂/CuO-Cu₂O/Cu or Li₄SiO₄/SiO₂/Si layered composite, and its application possibility
(Chuo University) ○Katsuyoshi Oh-ishi · Daiki Kotou · Kengo Oka · (Tokyo City University) Ryouta Kobayashi · (Tokyo Institute of Technology) Yutaka Majima
- 2G10 CO₂ fixation by electrolysis with seawater (Shizuoka University) ○Seiichi Suda · Yuuya Minamihata
- 2G11 Fabrication and CO₂/N₂ separation of oriented L-type zeolite film (Kumamoto University) Shohei Nishida · Kentaro Shin · ○Motohide Matsuda

水環境

(13 : 45) (Chairman 手束聡子)

- 2G20 Water purification with H₂O₂ and WO₃ photocatalyst under visible light irradiation
(Okayama University) ○Kazuki Kawata · Shunsuke Nishimoto · Yoshikazu Kameshima · Michihiro Miyake
- 2G21 Effects of carbonate inclusion on fluoride ion removal by hydroxyapatite
(Tohoku University) ○Sota Terasaka · Masanobu Kamitakahara · Taishi Yokoi · Hideaki Matsubara
- 2G22 Cesium and strontium ion removal characteristics of silicotitanate synthesized by dry gel conversion method
(University of Hyogo) ○Hiroshi Nishioka · Ken Isogami · (Hitachi Chemical Co., Ltd.) Akihito Iwai · Masayoshi Johmen · Koichi Saitou

触媒

(15 : 30) (Chairman 松田元秀)

- 2G27 Theoretical and experimental study on correlation between Ru-anion chemical bonds and Ru particle sizes on supports
(Tokyo Institute of Technology) ○Takuya Nakao · Tomofumi Tada · Masaaki Kitano · Hideo Hosono
- 2G28 Soot combustion behavior of thallium oxide
(National Institute of Technology, Niihama College) ○Susumu Nakayama · (Yamagata University) Masatomi Sakamoto
- 2G29 Direct Decomposition of Nitrous Oxide on Lanthanum Silicate Based Catalysts
(Osaka University) ○Naoyoshi Nunotani · Ryosuke Nagai · Nobuhito Imanaka
- 2G30 Effect of particle size of zeolite bulk body for methane to benzene reaction
(Okayama University) ○Kenta Goto · Eisaku Igi · Shunsuke Nishimoto · Yoshikazu Kameshima · Michihiro Miyake

★★ March 15 (Tue) (Room H) ★★**06. 生体関連材料 Bioceramics****企業研究フロンティア**

(9 : 30) (Chairman 相澤守)

- 2H03F [Frontiers] Development of Calcium Phosphate Bone Graft Substitutes with Unidirectional Porous Structure
(Kuraray Co., Ltd.) ○Yuji Hotta · Takashi Matsuo · Tomoya Kuwayama · Tatsuhiko Higaki

多孔体

(10 : 00) (Chairman 杉浦悠紀)

- 2H05 Preparation of porous calcium phosphates using starfish-derived calcium carbonate as a precursor
(Shinshu University) ○Tomohito Tsuge · Akari Takeuchi · (Kyushu University) Kunio Ishikawa ·
(National Institute for Materials Science) Masanori Kikuchi
- 2H06 Fabrication of porous scaffolds using calcium phosphate granules derived from sea urchin tests with collagen or gelatin as a binder
(Hokkaido University, National Institute for Materials Science) ○Naga Vijaya Lakshmi Manchinasetty · Masanori Kikuchi

リン酸カルシウム 1

(10 : 45) (Chairman 堀内尚紘)

- 2H08 Fabrication of high mechanical strength CO₃Ap foam from PO₄-hemihydrate compact
(Kyushu University) ○Yuki Sugiura · Kanji Tsuru · Kunio Ishikawa
- 2H09 Fabrication of dense ceramics using potassium-substituted hydroxyapatite powder synthesized via ultrasonic spray-pyrolysis route and their evaluations
(Meiji University) ○Tomohiro Yokota · Michiyo Honda · Mamoru Aizawa
- (11 : 15) (Chairman 竹内あかり)
- 2H10 Structural characterization and in *vitro* biodegradability of thermally treated hydroxyapatite powder
(Okayama University) ○Satoshi Hayakawa · Toshiisa Konishi · Tomohiko Yoshioka
- 2H11 Material properties of injectable chelate-setting β-tricalcium phosphate cement with bioresorbability
(Meiji University) ○Kohei Nagata · Michiyo Honda · (Okayama University) Toshiisa Konishi · (Meiji University) Mamoru Aizawa

リン酸カルシウム 2

(13 : 45) (Chairman 吉岡朋彦)

- 2H20 Controlled surface charges of β-tricalcium phosphate doped with Na ion through electrical polarization process
(Chiba Institute of Technology · Tokyo Medical and Dental University) ○Takayuki Endo · (Tokyo Medical and Dental University) Kosuke Nozaki · Naohiro Horiuchi · Kimihiro Yamashita · (Chiba Institute of Technology) Kazuaki Hashimoto · (Tokyo Medical and Dental University) Akiko Nagai
- 2H21 Orientations of hydroxide ions in monoclinic hydroxyapatite
(Tokyo Medical and Dental University) ○Naohiro Horiuchi · Kosuke Nozaki · Miho Nakamura · Akiko Nagai · Kimihiro Yamashita ·
(Chiba Institute of Technology) Yuki Iwasaki · Kazuaki Hashimoto
- 2H22 Physicochemical study of polarized calcium phosphate for biomedical applications —surface free energy and surface tension—
(Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University) Miho Nakamura · Naohiro Horiuchi · Norio Wada ·
(Department of Materials and Applied Chemistry, Nihon University) Takeshi Toyama · Nobuyuki Nishimiya ·
(Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University) Kosuke Nozaki · Akiko Nagai · ○Kimihiro Yamashita

進歩賞受賞講演

(15 : 45) (Chairman 春日敏宏)

- 2H28A [The 70th CerSJ Awards] Synthesis of multifunctional hybrid nanoparticles for imaging and therapy
(Nagoya University) ○Koichiro Hayashi · Yusuke Sato · Takuma Maruhashi · Wataru Sakamoto · Toshinobu Yogo

ナノ医療

(16 : 15) (Chairman 永井亜希子)

- 2H30 Thermoresponsive iron oxide nanoparticle-assembly designed for immunomagnetic cell separation
(Nagoya Institute of Technology) ○Teruaki Fuchigami · Kenichi Kakimoto
- 2H31 Fabrication of 3D Graphene and 3D Graphene Oxide Devices for Sensing VOCs
(Tokyo Institute of Technology) ○So Matsuyama · Jeffrey S Cross · Tomoaki Sugiyama · Toshiyuki Ikoma

★★ March 15 (Tue) (Room I) ★★

01. エンジニアリングセラミックス Engineering ceramics

酸化物

(9 : 00) (Chairman 且井宏和)

- 2I01 Aluminum-alumina mixed powders featuring control of the contraction and expansion of powders during pyrolysis
(National Institute of Advanced Industrial Science and Technology) ○Ken ichiro Kita · Manabu Fukushima · Naoki Kondo
- 2I02 Inhomogeneous sintering of powder compact prepared by dry-pressing granules and occurrence of coarse pores
(Nagaoka University of Technology) ○Tsuyoshi Honda · Zenji Kato · Satoshi Tanaka ·
(Tokyo Institute of Technology) Fumihiko Wakai · Koichi Yasuda
- 2I03 Fabrication of Al_2O_3 ceramics with low resistivity by an addition of ITO
(Kagawa University) ○Takafumi Kusunose · Daisuke Tominaga · (Osaka University) Tohru Sekino
- 2I04 Electrostatic chucking characteristics of samarium-doped YAG ceramics.
(Sumitomo Osaka Cement CO., LTD) ○Hironori Kugimoto · Shintaro Hayashi · Kazuto Ando · Masayuki Ishiduka
- 2I05 Sintering of TiO_2 -doped ZrO_2 in reducing conditions and their structure development
(Osaka University) ○Yuki Rikiso · Hisataka Nishida · Tomoyo Goto · Tohru Sekino

焼結

(10 : 15) (Chairman 楠瀬尚史)

- 2I06 Consolidation of diamond- SiO_2 by SPS using bimodal size SiC-coated diamond
(IMR · Tohoku University) ○Mettaya Kitiwan · Hirokazu Katsui · Takashi Goto
- 2I07 Phase decomposition of Ti-Zr carbonitride prepared by SPS
(Institute for Materials Research · Tohoku University) Ying Li · ○Hirokazu Katsui · Takashi Goto
- 2I08 Control for volume-shrinkage of porous $MgTi_2O_5$ in reactive sintering by TiO_2 anatase/rutile mixture
(University of Tsukuba) ○Yuta Nakagoshi · Yoshikazu Suzuki · (Quantachrome Instruments Japan G.K.) Jun Sato · Masahumi Morimoto
- 2I09 Fabrication of denser layer on surface of porous alumina ceramics
(National Institute of Advanced Industrial Science and Technology) ○Akihiro Shimamura ·
Manabu Fukushima · Mikinori Hotta · Tatsuki Ohji · Naoki Kondo
- 2I10F [Frontiers] Development of low-temperature saving energy joining technology of boron carbide ceramics using super permeation of melting metal
(Mino Ceramic Co.,Ltd.) ○Kiyoto Sekine · Yoshiyuki Sensui · Mikichika Haga

(13 : 30) (Chairman 福島学)

- 2I19 Evaluation of Anisotropic Properties on the Porous Alumina Fabricated by Alumina Platelets
(Nagoya Institute of Technology) ○Sawao Honda · Shizuka Yase · Yusuke Daiko · Shinobu Hashimoto · Yuji Iwamoto
- 2I20 Effects of Sintering Additives on Microstructure of Porous SiC Ceramics with In-situ Grain Growth
(Tokyo Institute of Technology) ○Makoto Takahashi · Katsumi Yoshida · Toyohiko Yano

材料基礎

(14 : 00) (Chairman 福島学)

- 2I21 Misorientation-dependent behavior of structure units in $ZnO[0001]$ symmetric tilt grain boundaries
(The University of Tokyo) ○Jiyoung Roh · (The University of Tokyo · Tohoku University ·
Japan Fine Ceramics Center) Yuichi Ikuhara · (Kyusyu University) Yukio Sato
- 2I22 Formation Mechanism of Damaged Layer Due to Mass Transfer in Mullite Film
(JFCC) ○Tsuneaki Matsudaira · Satoshi Kitaoka · Daisaku Yokoe · Takeharu Kato · Masasuke Takata

(15 : 30) (Chairman 堀田幹則)

- 2I27A [The 70th CerSJ Awards] Application of first principles calculations to the study of structural ceramics
(Kyoto University · Japan Fine Ceramics Center) ○Isao Tanaka
- 2I29 Development of composite feedback filament for fusion deposition modeling
(Toyohashi University of Technology) Karen Horikoshi · Shinya Oda · Atsushi Yokoi · Go Kawamura · Atsunori Matsuda · ○Hiroyuki Muto
- 2I30 Microstructure control of Polymer/ TiO_2 hybrid material by Electrical field and particle aspect rate and Observation of microstructure formation process
(Extreme Energy-Density Research Institute, Nagaoka University of Technology) ○Naoto Matsutani · Tadachika Nakayama · Masanao Kanno ·
Tan Minh Triet Huynh · Maria Guadalupe del Rocio Herrera Salazar · Tsuneo Suzuki · Hisayuki Suematsu ·
Koichi Niihara · (Institute of Nanosensor Technology, Hanyang University) Hong-Baek Cho

★★ March 15 (Tue) (Room J) ★★

16. キャラクターゼーション Characterization

エレクトロセラミックス材料解析

(9 : 30) (Chairman 橋本拓也)

- 2J03 The crystal structure and physical property of pyrochlore oxyfluoride $Pb_2Ti_2O_{6.9}F_{2.8}$
(Chuo University) ○Kengo Oka · Katsuyoshi Oh-ishi · (Tokyo Institute of Technology) Hajime Hojo · Masaki Azuma
- 2J04 Crystal structure analysis of the electronic ferroelectric $TmFe_2O_4$
(Nagoya Insutitute of Technology) ○Daisuke Urushihara · Tomoki Matsumura · Toru Asaka ·
Koichiro Fukuda · Nobuo Ishizawa · (Kyoto University) Shinya Konishi · Katsuhisa Tanaka
- 2J05 First-principles Calculations of Defects Structures and Ferroelectric Behavior in $BaTiO_{3-x}N_{2x/3}$
(Japan Fine Ceramics Center) ○Kazuki Shitara · Takafumi Ogawa · Akihide Kuwabara · Hiroki Moriwake ·
(Kyoto University) Fumitaka Takeiri · Hiroshi Kageyama

(10 : 30) (Chairman 北條元)

- 2J07 First-Principles Calculations of the Stability and Battery Properties of Layered $LiMO_2$ ($M = Cr, Fe, Co, Ni$) Polytypes
(Japan Fine Ceramics Center) ○Craig Fisher · Takafumi Ogawa · Akihide Kuwabara · Hiroki Moriwake

- 2J08 Dependence of crystal structure of $\text{Pr}_2\text{Ni}_{1-x}\text{Cu}_x\text{O}_{4+\delta}$ on Cu content
(Nihon University) ○Haruki Soga · Tomoki Hayashi · Takahiko Morise · Eiki Niwa · Takuya Hashimoto
- 構造相転移**
(11 : 00) (Chairman 北條元)
2J09 Patterning Oxide Nanopillars at the Atomic Scale by Phase Transformation
(Tohoku University) ○Chunlin Chen · Zhongchang Wang · Yuichi Ikuhara · (ETH Zurich) Frank Lichtenberg ·
(Zurich Research Laboratory) Johannes Georg Bednorz
- (11 : 15) (Chairman 大石克嘉)
2J10 Control and Mechanism of Polymorphic Crystallization for Octahedral Mo_6 -Cluster Compounds
(Tokyo Institute of Technology · National Institute for Materials Science · NIMS Saint-Gobain Center of Excellence for Advanced Materials)
○Norio Saito · (UMR6226 · University of Rennes1) Pierric Lemoine · Stephane Cordier · (National Institute for Materials Science ·
NIMS Saint-Gobain Center of Excellence for Advanced Materials) Yoshiki Wada · Takeo Ohsawa · (National Institute for Materials Science ·
UMI3629) Fabien Grasset · (Tokyo Institute of Technology) Jeffrey Cross S. · (National Institute for Materials Science ·
NIMS Saint-Gobain Center of Excellence for Advanced Materials · MCES-Tokyo-Tech) Naoki Ohashi
- 2J11 Electrolysis synthesis and cesium content control of hollandite-type oxides $\text{Cs}_x\text{Ti}_3\text{O}_{16}$
(Kanagawa University) ○Yusuke Chiba · Miwa Saito · Teruki Motohashi
- 熱物性**
(13 : 30) (Chairman 伊豆典哉)
2J19 Rapid thermal conductivity measurement of thermal insulation material by laser flash method
(Osaka University) ○Tseng-Wen Lian · Akira Kondo · Makio Naito · (National Institute of Advanced Industrial Science and Technology)
Megumi Akoshima · Haruka Abe · (Wakayama College) Takahiro Ohmura · (National Taiwan University) Wei-Hsing Tuan
- 2J20 First principles calculation of thermal expansion coefficients of alumina crystals
(University of Tokyo) ○Tetsuya Tohei · Yuito Watanabe · (University of Tokyo · JFCC) Yuichi Ikuhara
- メカノケミカル**
(14 : 00) (Chairman 小澤隆弘)
2J21 Local structure and O_2 desorption properties of mechanochemically modified LaFeO_3
(Kyushu University) ○Tomoki Uchiyama · Maiko Nishibori · Hisahiro Einaga · Yasutake Teraoka
- 2J22 Evaluation of surface activated α -alumina powder and its application to non-firing ceramics
(Nagoya Institute of Technology) ○Ryosuke Goto · Masahiro Ishihara · Hadi Razavi · Takashi Shirai · Masayoshi Fuji
- 薄膜**
(14 : 30) (Chairman 藤平哲也)
2J23 Quantitative analysis of $C\text{-}sp^3$ content in hydrogenated amorphous carbon films.
(Nagaoka University Tech.) ○XiaoLong Zhou · Sarayut Tunmee · Keiji Komatsu · Tsuneo Suzuki · Seichi Kawahara ·
Hidetoshi Saitoh · (University of Hyogo) Kazuhiro Kanda · (SLRI) Hideki Nakajima · Pat Phothongkam
- 2J24 Coating of Nb:TiO₂ on SUS304 substrate and annealing
(Nagaoka University Tech.) ○Tsuyoshi Kikuta · Nozomi Kobayashi · Keiji Komatsu · Hidetoshi Saitoh
- イオン伝導**
(15 : 15) (Chairman 島川祐一)
2J26 Space group determination of $\text{BaCe}_{1-x}\text{Y}_x\text{O}_{3-\delta}$ and $\text{BaCe}_{1-x}\text{Nd}_x\text{O}_{3-\delta}$ by convergent-beam electron diffraction
(Nihon University) ○Takuya Hashimoto · Tomomi Hosaka · Misa Shimizu · Eiki Niwa · (Kochi University) Fumito Fujishiro ·
(Tohoku University) Daisuke Morikawa · Yusuke Yokoyama · Kenji Tsuda
- 2J27 Lattice Volume and Optical Property of Protonic Conductors $\text{BaCe}_{1-x}\text{R}_x\text{O}_{3-\delta}$ (R: Rare Earths)
(Tokyo Institute of Technology) ○Eiki Niwa · Kotaro Fujii · Masatomo Yashima · (Nihon University) Tomomi Hosaka · Takahiro Onoe ·
Yoshikiyo Hatakeyama · Ken Judai · Takuya Hashimoto · (Kochi University) Fumito Fujishiro
- (15 : 45) (Chairman 高橋拓実)
2J28 Crystal Structure and Electrical Properties of Novel Materials $\text{ASr}_2\text{Ga}_{11}\text{O}_{20}$ (A = Pr, Nd) and $\text{ABa}_2\text{Ga}_{11}\text{O}_{20}$ (A = La, Pr, Nd, Sm)
(Tokyo Institute of Technology) ○Shuntaro Yamada · Kotaro Fujii · Eiki Niwa · Masatomo Yashima
- 2J29 Patents Based on the Crystal Structures: Discovery of Oxide-Ion Conductors of New Structure Family
(Tokyo Inst. Tech.) ○Masatomo Yashima · Kotaro Fujii · Kazuki Omoto · Koshiro Ueda · Shuntaro Yamada · Keita Saito ·
Ayaka Fujimoto · Yuichi Esaki · Chihiro Saito · (Daiichi Kigenso Kagaku Kogyo Co., Ltd.) Yasushi Nakajima
- (16 : 15) (Chairman 藤井孝太郎)
2J30 Oxide-ion conduction in perovskite-structure oxides containing Sc and Ga
(Kyoto University) ○Noriya Ichikawa · Yuichi Shimakawa · (University of Montpellier) Serena Corallini · Monica Ceretti · Werner Paulus
- 2J31 Synthesis and structural refinement of new oxides $\text{Ba}_2\text{LaGaO}_5$
(Kyoto University) ○Peng Xiong · Noriya Ichikawa · Takashi Saito · Daisuke Kan · Yoshitetsu Hosaka ·
(Kyoto University · JST-CREST) Yuichi Shimakawa

★★ March 15 (Tue) (Room K) ★★

10. エネルギー関連材料 Energy reference material

受賞講演

- (9 : 00) (Chairman 大瀧倫卓)
2K01A [The 70th CersJ Awards] Research on low thermal conductivity materials
(Tsinghua University) ○Chunlei Wan

熱電/熱伝導材料

- (9 : 30) (Chairman 大瀧倫卓)
2K03 Line patterning of spinon thermal conductivity crystal by polarized CW laser light irradiation in sputtered Sr-Cu-O films
(Tohoku University) ○Ryosuke Takahashi · Nobuaki Terakado · Yoshihiro Takahashi · Takumi Fujiwara

(9 : 45) (Chairman 鱗淵友治)

2K04 Inorganic/Organic Hybrid Film for Flexible Thermoelectric Devices

(Toyota Physical and Chemical Research Institute) ○Ruoming Tian · (Tsinghua University) Chunlei Wan ·

(National Institute of Advanced Industrial Science and Technology) Qingshuo Wei · Takao Ishida ·

Woosuck Shin · (Toyota Physical and Chemical Research Institute) Kunihiro Koumoto

2K05 Thermoelectric properties of β -pyrochlore oxides with trivalent metal elements

(Kyushu University) ○Kohei Mizuta · Michitaka Ohtaki

受賞講演

(10 : 15) (Chairman 手嶋勝弥)

2K06A [The 70th CerS] Awards] Nanostructure Design of Transition Metal Oxides by Low-Temperature Reduction

(National Institute for Materials Science) ○Yoshihiro Tsujimoto

光材料

(10 : 45) (Chairman 手嶋勝弥)

2K08 Synthesis of needle shaped anatase TiO₂ with high specific surface area for dye-sensitized solar cells

(Tokai University) ○Takahiro Kikuchi · Koji Tomita · Akie Seki · Yoshihito Kunugi · (Waseda University) Shinjiro Umezu ·

(Tohoku University) Makoto Kobayashi · Masato Kakihana

(11 : 00) (Chairman 富田恒之)

2K09 Photocatalytic activity of bismuth oxyhalide

(Kyoto university) ○Daichi Kato · Hironobu Kunioku · Hironoti Fujito · Hajime Suzuki · Masanobu Higashi · Ryu Abe · Hiroshi Kageyama

2K10 Influence of potassium ions on electrical conductivity of the nano network structures on the surface of titanium metals formed by KOH treatment

(Chubu University) ○Hideki Hashimoto · Seiji Yamaguchi · Yoshinori Naruta · Hiroaki Takadama

2K11 Broadband sensitive Ni²⁺ - Er³⁺ based upconverters for c-Si solar cells

(Toyota Central Research & Developmen Labs.) ○Hom Nath Luitel · Yashuhiko Takeda · Shintaro Mizuno · Toshihiko Tani

酸素分離・発生材料

(13 : 30) (Chairman 福田功一郎)

2K19 Enhancement of the OER catalytic activity by the suppression of Jahn-Teller distortion

(Kitami Institute of Technology) ○Shigeto Hirai · (Osaka Prefecture University) Shunsuke Yagi · (Hokkaido University) Masaya Fujioka ·

(Kitami Institute of Technology) Tomoya Ohno · Takeshi Matsuda

2K20 Effect of Pd-loading on oxygen desorption layer of La_{1-x}Sr_xFeO_{3-δ} for high-performance oxygen permeable membranes

(Kyushu University) ○Kohei Momii · Yasuhito Mitani · Maiko Nishibori · Kengo Shimano

2K21 Oxygen sorption-desorption characteristics and structural change of La-Sr-Co-Fe perovskite-type oxide under varying oxygen partial pressure

(Kyushu University) ○Tomoya Kaneko · Maiko Nishibori · Tomoki Uchiyama · Masaru Nagano · Kengo Shimano

アニオン伝導体

(14 : 15) (Chairman 福田功一郎)

2K22 Preparation of Mg-Al LDH electrolyte membrane by reconstruction method

(Hokkaido University) ○Kohei Igarashi · Akira Miura · Mikio Higuchi · Kiyoharu Tadanaga

(14 : 30) (Chairman 田中優実)

2K23S Characterization of calcium hydride crystals grown by flux technique

(Tokyo Institute of Technology) ○Ryo Nishimura · Satoru Matsuishi · Satoru Fujitsu · Hideo Hosono

酸化物イオン伝導体/薄膜及び結晶配向

(14 : 45) (Chairman 田中優実)

2K24 Ionic conductive property of oriented films with apatite-type lanthanum silicate from laminated sputtered films

(Hyogo Prefectural Institute of Technology) ○Mitsumasa Sakao · Tsuguo Ishihara · Hideki Yoshioka

2K25 Electrical properties of Gd₂O₃ doped CeO₂ thin films on anodic alumina substrate

(Tokyo Institute of Technology) ○Kosuke Suito · Osamu Sakurai · Tadashi Shiota · (Shizuoka University) Naoki Wakiya ·

(Tokyo Institute of Technology) Jeffrey S. Cross · Akio Nishiyama · Kazuo Shinozaki

2K26 Facile synthesis of highly grain-aligned polycrystalline lanthanum silicate oxyapatite by reactive diffusion between solid La₂SiO₅ and gases [SiO₂+1/2O₂]

(Nagoya Institute of Technology) ○Koichiro Fukuda · Takuya Kitagawa · Ryo Hasegawa · Hiroshi Nakamori · Toru Asaka

イオン伝導体/解析

(15 : 30) (Chairman 浅香透)

2K27 Crystal Structure Analysis of Ln₂Zr₂O₇ (Ln = La, Eu) with a Pyrochlore Composition

(Kanagawa University) ○Takeshi Hagiwara · (National Institute of Advanced Industrial Science and Technology)

Katsuhiro Nomura · Hiroyuki Kageyama

2K28 Local structure analysis of Na_{0.5}Bi_{0.5}TiO₃-based oxide ion conductor by DFT calculations and RMC method

(Tokyo University of Science) ○Naoya Hayashi · Naoto Kitamura · Naoya Ishida · Yasushi Idemoto

2K29 Structure of Na₂S-P₂S₅ superionic conducting glasses

(Kyoto University) ○Yohei Onodera · Hiroshi Nakashima · Kazuhiro Mori · (KEK) Toshiya Otomo · (Kyoto University) Toshiharu Fukunaga

受賞講演

(16 : 15) (Chairman 忠永清治)

2K30A [The 70th Cers] Awards] Development of Ceramics and Glass for Solid Oxide Fuel Cell

(NORITAKE CO., LIMITED) ○Yosuke Takahashi

★★ March 15 (Tue) (Room L) ★★

09. 環境・資源関連材料 Environment and energy related material

リサイクル

(9 : 00) (Chairman 稲田幹)

2L01 Fabrication and pore property of Carbide-Derived Carbon from Rice-Husk starting Material.

(Sumitomo Electric Industries,LTD.) ○Shinji Ishikawa · Takahiro Saito

- 2L02 Electrochemical property for capacitor Electrode of The Carbide-Derived Carbon from Rice-Husk starting Material.
(Sumitomo Electric Industries,LTD.) ○Shinji Ishikawa · Takahiro Saito
- 2L03 Effect of Milling Processing of Fly Ash on the Compressive Strength of Geopolymers Fabricated by a Warm Press Method
(Nagoya Institute of Technology) ○Kosuke Kubota · Shinobu Hashimoto · Kotaro Ando · Yusuke Daiko · Shigeo Honda · Yuzi Iwamoto
- 2L04 Dissolution behavior of the constituent elements of gasification melting slag
(Okayama University) ○Yosuke Takase · Sinichi Sakida · Yasuhiko Benino · Tokuro Nanba

エコマテリアル

- (10 : 00) (Chairman 難波徳郎)
- 2L05 Novel Environment-friendly Inorganic Yellow Pigments Based on $\text{Ca}_2\text{Al}_2\text{SiO}_7$
(Osaka University) ○Shinji Tamura · Byungseo Bae · Dusu Wendusu · Nobuhito Imanaka
- 2L06 Incorporation and deposition behavior of Cu ion into apatite-type phosphate
(Akita University) ○Sumio Kato · Tomoyuki Endo · Masataka Ogasawara
- 2L07 Preparation and properties of silica/chitosan organic-inorganic hybrid gas barrier membranes with cross-linked structure
(Kobe University) ○Koji Kuraoka · Risako Yamamoto
- (10 : 45) (Chairman 前田浩孝)
- 2L08 Fabrication of rapid-hardening alumina cement derived from blast furnace slag
(Nagoya Institute of Technology) ○Hirokazu Kato · Shinobu Hashimoto · Yusuke Daiko · Sawao Honda · Yuji Iwamoto · (NICHIIA Co, Ltd.) Yuji Yamazaki
- 2L09 Fabrication of Dense Calcium Carbonate using a Warm Press Method
(Nagoya Institute of Technology) ○Shinobu Hashimoto · Shohei Kusawake · Yusuke Daiko · Sawao Honda · Yuji Iwamoto
- 2L10 Synthesis and evaluation of properties of porous silica particles for use in high performance thermal insulation material
(Tohoku University) ○Kei Tsukada · Masanobu Kamitakahara · Hideaki Matsubara · (JFCC) Taishi Yokoi · Seiji Takahashi
- 2L11 Fabrication of Novel Humidity Self-controlling Materials using HAS-Clay powder
(Nagoya Institute of Technology) ○Tomoki Matsuoka · Shinobu Hashimoto · Yusuke Daiko · Sawao Honda · Yuji Iwamoto · (National Institute of Advanced Industrial Science and Technology) Masaki Maeda · Keiichi Inukai

07. セメント Cement

混和材

- (13 : 30) (Chairman 大宅淳一)
- 2L19 Initial strength improvement of fly ash cement with high C_3S clinker
(Tokyo Institute of Technology) ○Toshinari Mukai · (D.C) Nobukazu Nito · (TAIHEIYO CEMENT Co.) Osamu Kubota · (Ashikaga Tech) Singo Miyazawa · (Housei Univ.) Toshiaki Mizobuchi · (Tokyo Institute of Technology) Masahiro Miyauchi · Etsuo Sakai
- 2L20 Influence of amine-based activator on the initial hydration of cement
(Shimane University) ○Takahiro Ohnishi · Daiki Atarashi · Hidekazu Tanaka · (Grace Chemicals CO.,LTD) Miho Miyagawa · (Kyusyu University) Tomoyuki Koyama
- 2L21 Hydrothermal Synthesis in Cement-Silica powder-fused silica system.
(Tokyo Institute of Technology) ○Yusuke Yamamoto · (SUMITOMO METAL MINING SIPOREX) Sumio Shibata · Tadashi Kasai · (The Glass Recycling Committee of Japan) So Kato · (Tokyo Institute of Technology) Masahiro Miyauchi · Etsuo Sakai

キャラクタリゼーション・解析手法

- (14 : 15) (Chairman 新大軌)
- 2L22 Quantifying two amorphous phases in three-component blended cements
(Taiheiy Cement Corporation) ○Tomoyuki Hikida · Yoshifumi Ohgi · Yoshifumi Hosokawa · Shunichiro Uchida
- 2L23 Application of Cement Quality Predictive System
(Taiheiy Cement) ○Ayuka Nakaguchi · Ryoichi Suematsu · Maiko Ohno · Daisuke Kurokawa · Hiroshi Hirao

耐久性・水和物

- (14 : 45) (Chairman 小泉公志郎)
- 2L24 Change in Hydration Products of Cement at High Temperature Environment
(Shimane University) ○Syu Takahashi · Daiki Atarashi · Hidekazu Tanaka · (Nihon University) Junichi Ohya · (General Building Research Corporation of Japan) Natsuki Yoshida · Akari Tawara
- 2L25 Development of cementitious material with a multi-barrier function in the salt damage environment
(Tokyo Institute of Technology University) ○Masashi Shinsugi · (Shimane University) Daiki Atarashi · (Denka Co. Ltd.) Takayuki Higuchi · Minoru Morioka · (Tokyo Institute of Technology University) Masahiro Miyauchi · Etsuo Sakai
- 2L26 Hydrated products in $4\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Fe}_2\text{O}_3 \cdot \text{CaSO}_4 \cdot 2\text{H}_2\text{O} \cdot \text{CaI}_2$ system
(Tokyo Institute of Technology) ○Toru Ota · (Shimane University) Daiki Atarashi · (Nihon University) Junichi Ohya · (Tokyo Institute of Technology) Masahiro Miyauchi · Etsuo Sakai
- 2L27 Immobilization of SeO_4^{2-} ions using calcium aluminate hydrated products
(Nihon University) ○Junichi Ohya · Hiroyuki Sango

受賞講演

- (15 : 45) (Chairman 三五弘之)
- 2L28A [The 70th CerSJ Awards] Carbonation additive of highly durability and environmental consideration
(Denka Co., Ltd.) ○Makoto Shoji

08. 陶磁器 Pottery, Porcelain enamel

陶磁器

- (16 : 15) (Chairman 大宅淳一)
- 2L30 Effect of planetary ball millings for oxide precursors on chromaticity of tantalum(V)-based oxynitrides
(National Institute of Advanced Industrial Science and Technology) ○Masayoshi Ohashi · Keiji Kusumoto · Toyohiko Sugiyama · Katsuya Kato

★★ March 16 (Wed) (Room B) ★★

13. 液相プロセス Liquid phase process

薄膜

(9:00) (Chairman 幸塚広光)

- 3B01 Synthesis of Al-N-Codoped ZnO Films with Patterning Properties (Kinki University) ○Naoki Noma · Shoki Okubo
 3B02 Charge-discharge performance and sensing ability of MnO₂ thin films that were chemical-bath deposited from aqueous solutions (Yamagata University) ○Terukazu Kondo · Hidero Unuma
 3B03 Synthesis of silica films by cosolvent-free method a TEOS-water binary system and the characterization of coating solutions by liquid NMR method (Tokyo Metropolitan University) ○Keiichi Hiruta · Koichi Kajihara · Kiyoshi Kanamura

(9:45) (Chairman 鶴沼英郎)

- 3B04 Transfer of sol-gel-derived, fired silica thin films to plastic substrates (Kansai University) Hiromitsu Kozuka · ○Takashi Tominaga
 3B05 Effects of the thickness of the release layer on the processability of ceramic thin films prepared on plastic substrates by sol-gel transfer technique (Kansai University) Hiromitsu Kozuka · ○Kota Niinuma

粒子/酸化物

(10:15) (Chairman 鶴沼英郎)

- 3B06 Synthesis of TiO₂ sols by stirring metal chloride solutions in air with aid of dialysis (Chiba University) ○Eri Asano · Naohumi Uekawa · C.M. Wen · Takashi Kojima

(10:30) (Chairman 小島隆)

- 3B07 Effect of catalysts on properties of polysilsesquioxanes prepared by a cosolvent-free method (Tokyo Metropolitan University) ○Yusuke Omata · Koichi Kajihara · Kiyoshi Kanamura
 3B08 One-pot preparation of colloidal hollow organosiloxane-based nanoparticles through silica dissolution-redeposition processes (Waseda University · Kagami Memorial Research Institute for Materials Science and Technology) ○Saki Uchida · Eisuke Yamamoto · Koya Nagata · Atsushi Shimojima · Hiroaki Wada · Kazuyuki Kuroda
 3B09 Control of organosiloxane coating on colloidal mesoporous silica nanoparticles (Waseda University) ○Yukino Ishikawa · Naoko Hirooka · Eisuke Yamamoto · Atsushi Shimojima · Hiroaki Wada · (Waseda University · Kagami Memorial Research Institute for Materials Science and Technology) Kazuyuki Kuroda

(11:15) (Chairman 野間直樹)

- 3B10 Ambient Temperature Synthesis of Spherical YVO₄:Eu³⁺ Particles Utilizing Biphasic Solution Systems (Keio University) ○Kazuya Sugita · Manabu Hagiwara · Shinobu Fujihara

ナノ粒子/金属

(11:30) (Chairman 野間直樹)

- 3B11 Area-selective electroless deposition of gold nanostructures on silicon carbide (Kyoto University) ○Hiroki Itasaka · Masayuki Nishi · Masahiro Shimizu · Kazuyuki Hirao
 3B12 Synthesis of silver nanoparticles using specific reaction groups of the cellulose (Industrial Technology Center of Okayama Prefecture) ○Mitsuaki Furutani · Eiji Fujii

(13:00) (Chairman 早川知克)

- 3B17 Anti-oxidation property of copper nanoparticles dispersion synthesized by supercritical water reduction method. (National Institute of Advanced Industrial Science and Technology) ○Hiromichi Hayashi · Takashi Nakamura · Yoshito Wakui · Takeo Ebina · (Tohoku University) Richard L. Smith
 3B18 Preparation of Porous Titania Using Silver-Deposited Needle-like Particles (Chiba University) ○Masayuki Tamba · Takashi Kojima · Kenta Ishii · Rie Suzuki · Naofumi Uekawa
 3B19 Microstructures and Thermoelectric Properties of Ag/ZnO Sintered Bodies Prepared from Soft-Chemical Precursors (Kyushu University) ○Kosuke Watanabe · Michitaka Ohtaki

(13:45) (Chairman 林克郎)

- 3B20 Preparation of Perovskite Catalyst by Chemical Solution Deposition with Selective Partial Reduction Process (Kitami Institute of Technology) ○Tomoya Ohno · Tetsuo Masuda · Shohno Ochibe · Shigeto Hirai · Takeshi Matsuda · (Shizuoka University) Takashi Arai · Naonori Sakamoto · Naoki Wakiya · Hisao Suzuki
 3B21 Synthesis and photoluminescence of Core-Shell Structures of ZrO₂:Eu³⁺-deposited Metal Nanoparticles (Nagoya Institute of Technology) ○Kenichiro Ueno · Yuta Noda · Tomokatsu Hayakawa
 3B22 Low-Temperature Synthesis of Au-Photodeposited Titania Composite Coating and Its LSPR Sensing Characteristics (Kanto Gakuin University) ○Aoi Endo · Jun-ichi Hamagami

多孔体

(14:30) (Chairman 大野智也)

- 3B23 Comparison of the properties of transparent polymethylsiloxane aerogels with similar molecular structures (Kyoto University) ○Taiyo Shimizu · Kazuyoshi Kanamori · Kazuki Nakanishi
 3B24 Synthesis of Mesoporous Silica Nanofibers Having Pore-Openings on the Surface (Waseda University) Takuya Tsumura · ○Kota Ozawa · Yuki Oba · Eisuke Yamamoto · Atsushi Shimojima · Hiroaki Wada · (Waseda University · Kagami Memorial Research Institute for Materials Science and Technology) Kazuyuki Kuroda
 3B25 Fabrication of V₂O₅·nH₂O xerogel having a high specific surface area with characterization of development of nanofibers (Keio University) ○Kanji Ishii · Yuya Oaki · Hiroaki Imai
 3B26 Synthesis of Porous MgNiMnO₄ (Keio University) ○Yoh Kotani · Hiroyuki Kageyama · Yuya Oaki · Hiroaki Imai

★★ March 16 (Wed) (Room C) ★★

05. ガラス・フォトンクス材料 Glass and photonic materials

光触媒

(9:15) (Chairman 梶原浩一)

- 3C02 Effects of Raw Materials and Composition of Glass Substrates on Photocatalytic Activity of Titania Coated Glass
(Tokyo University of Science) ○Yuki Nakamura · Ken-ichiro Iwasaki · Atsuo Yasumori

青色発光体

(9:30) (Chairman 梶原浩一)

- 3C03 Laser-induced coloration of glaserite-type silicate (University of Yamanashi) ○Yoshinori Yonezaki · Shino Takei · Kazuya Ogawa
3C04 Local structure analysis by Raman spectroscopy and blue emission mechanism of alunite compounds
(Salesian Polytechnic) ○Yuichiro Kuroki · Kazuki Kimura · (Nagaoka University of Technology) Tomoichiro Okamoto · (JFCC) Masasuke Takata

蛍光体分散ガラス

(10:15) (Chairman 岡元智一郎)

- 3C06 Luminescence from SiAlON phosphor dispersed in sodium borosilicate glasses
(NIMS) ○Hiroyo Segawa · (NIMS · University of Tsukuba) Yujin Cho · Takashi Sekiguchi · (NIMS) Naoto Hirotsugu
3C07 Rare-earth compositional dependence of ultraviolet photoluminescence of sol-gel-derived silica-(Gd,Pr)PO₄ glass-ceramics
(TMU) ○Mayu Suda · Koichi Kajihara · Kiyoshi Kanamura

フォトンクスガラス

(10:45) (Chairman 岡元智一郎)

- 3C08 Effect of addition of alkali ions on the emission of Eu-V doped silica excited near UV (AIST) ○Tomoko Akai · Masaki Murakami · Masaru Yamashita

(11:00) (Chairman 西正之)

- 3C09 Evaluation of Thermal Structural Change of Soda-Lime Silicate Glass using Photoluminescence of Eu ion
(Tokyo University of Science) ○Daiki Tabei · Ken-ichiro Iwasaki · Atsuo Yasumori
3C10 Luminescence lifetime and quantum efficiency of Er³⁺ in Ga₂S₃-GeS₂-CsCl glasses
(Kyoto Institute of Technology) ○Masaki Kimata · Arifumi Okada · Takashi Wakasugi · Kohei Kadono · (Institute of Laser Engineering, Osaka University) Yasushi Fujimoto

受賞講演

(11:30) (Chairman 西正之)

- 3C11A [The 70th CersJ Awards] Photo-related properties of nanocomposites consisting of metal oxides and metal nanoparticles
(Toyohashi University of Technology) ○Go Kawamura

(13:00) (Chairman 瀬川浩代)

- 3C17A [The 70th CersJ Awards] On-chip fabrication of micrometer-size spherical optical devices from molten glass droplet
(Tokyo Institute of Technology) ○Tetsuo Kishi

蛍光体 (Cu)

(13:30) (Chairman 林大和)

- 3C19 Afterglow of ZnS:Cu Nanoparticles in water and Cu-doping ratio dependency
(Kyoto University) ○Ryo Matsumoto · Masahiro Shimizu · Shuta Taniguchi · Masayuki Nishi · Visbal Heidy · Kohji Nagashima · Kazuyuki Hirao
3C20 Role of trap states for mechanical quenching and mechanoluminescence in phosphorescent CaZnOS:Cu
(National Institute of Advanced Industrial Science and Technology) ○Dong Tu · (National Institute of Advanced Industrial Science and Technology · Kyushu University · WPI-I2CNER) Chao-Nan Xu · (National Institute of Advanced Industrial Science and Technology) Yuki Fujio · Akihito Yoshida
3C21 Effects of Glass Composition and Melt-Stirring on Photoluminescence of Cu, Sn Ions Co-doped Soda-Lime Glasses
(Tokyo University of Science) ○Eri Tomioka · Atsuo Yasumori · Kenichiro Iwasaki
3C22 The effect of cooling rate during sintering on the fluorescence of Ca₃(PO₄)₂:Cu
(Nagaoka University of Technology) ○Masaya Nakata · Tomoichiro Okamoto · Yasuyuki Yamada · (Salesian Polytechnic) Yuichiro Kuroki · (Japan Fine Ceramics Center) Masasuke Takata

蛍光体 (Mn)

(14:45) (Chairman 安盛敦雄)

- 3C24 Synthesis of Mn⁴⁺-doped spinel-type Mg₂GeO₄ red phosphor under high pressure and high oxygen partial pressure
(Tohoku University) ○Takuya Sasaki · Jun Fukushima · Yamato Hayashi · Hirotsugu Takizawa
3C25 Photoluminescence properties of perovskite-type tantalates activated with Mn
(Tohoku University) ○Yohei Takeda · Hideki Kato · Makoto Kobayashi · (Kyoto Institute of Technology) Hisayoshi Kobayashi · (Tohoku University) Masato Kakihana
3C26 Investigation of Optical Property in Mn²⁺ and Mn⁴⁺-Doped CaAl₁₂O₁₉ Phosphors
(Kyoto University) ○Atsushi Hoshino · Jumpei Ueda · Setsuhisa Tanabe

蛍光体 (希土類フリー)

(15:30) (Chairman 黒木雄一郎)

- 3C27 Synthesis and Photoluminescence Properties of Ti-doped SrLa₃Al₃O₁₀ Greenish-blue Phosphor
(Tohoku University) ○Naoto Watanabe · Jun Fukushima · Yamato Hayashi · Hirotsugu Takizawa
3C28 FABRICATION OF POTASSIUM-DOPED ZINC TUNGSTATE AND ITS PHOTOLUMINESCENCE PROPERTY
(Nagaoka University of Technology) ○Prinya Lorichirachoonkul · Masaya Nakata · Yasuyuki Yamada · Tomoichiro Okamoto
3C29S Optical Properties of Cr-doped Al₂O₃ and MgAl₂O₄ Prepared by Two-step Pulsed Electric Current Sintering
(Nagaoka University of Technology) ○Huu Hien Nguyen · Makoto Nanko · Tomoichiro Okamoto · (Hanoi University of Science and Technology) Quoc Khanh Dang

★★ March 16 (Wed) (Room E) ★★

03. 導電性材料 Electroconductive material

ガラス

(9 : 00) (Chairman 岸本昭)

- 3E01 Influence of Li⁺ or K⁺ doping on structure and properties of ionic conductivity of Narpsio glass-ceramics
(Kogakuin University) ○Yuki Ota · Naoya Yoshida · (Tokyo Medical and Dental University) Kimihiro Ymashita ·
(Kogakuin University) Toshinori Okura
- 3E02 Synthesis and ionic conductivity of H⁺-conductive Narpsio glass-ceramics partially substituted with various rare earth elements.
(Kogakuin University) ○Yoshiko Takahashi · Naoya Yoshida · (Tokyo Medical and Dental University) Kimihiro Yamashita ·
(Kogakuin University) Toshinori Okura

超伝導

(9 : 30) (Chairman 岸本昭)

- 3E03 Study of Physical Property and Conductivity at Low Temperature for (Ba,Sr)₂NbO₄ and Sr₂(Nb,V)O₄
(Tokyo University of Science) ○Yoshiki Mori · Naoya Ishida · Naoto Kitamura · Yasushi Idemoto

02. 誘電性材料 Dielectric material

薄膜材料

(9 : 45) (Chairman 井手本康)

- 3E04 Preparation and the dielectric properties of uniaxial BiFeO₃-LaAlO₃ thin films
(Hyogo Prefectural Institute of Technology) ○Hirokazu Izumi · (Osaka Prefectural University) Takeshi Yoshimura · Norifumi Fujimura
- 3E05 Fabrication and characterization of ferroelectric BiFeO₃ films by Metal Oxide Decomposition method
(Nagoya Institute of Technology) ○Ryuichi Takai · Yusaku Kiba · Toshitaka Ota · Nobuyasu Adachi
- 3E06 Ferroelectric BaTiO₃ deposited LiCoO₂ cathode films for Li ion batteries with high rate capability
(Okayama University) ○Keisuke Chajima · Takashi Teranishi · Hidetaka Hayashi · Akira Kishimoto ·
(Tokyo Institute of Technology) Sou Yasuhara · Shintaro Yasui · Mitsuru Ito

結晶構造

(10 : 45) (Chairman 泉宏和)

- 3E08 Newly found piezoelectric perovskite compound Bi₂ZnTi_{1-x}Mn_xO₆ with suppressed *c/a* ratio
(Tokyo Institute of Technology) ○Narumi Matsuda · Runze Yu · Ken Tominaga · Keisuke Shimizu · Hajime Hojo ·
Masaki Azuma · (Kanagawa Academy of Science and Technology) Yuki Sakai · (Chuo University) Kengo Oka
- 3E09 Growth of high-quality AgNbO₃ single crystals via Czochralski method under high-pressure oxygen atmosphere
(The University of Tokyo) ○Takyua Egawa · Yuuki Kitanaka · Yuji Noguchi · Masaru Miyayama
- 3E10 Average and local structure analyses on Bi_{0.5}(Na_{0.7}K_{0.25}Li_{0.05})_{0.5}TiO_{3-x}Bi(M_{0.5}Ti_{0.5})O₃ (M=Zn, Mg) ferroelectric materials by neutron and synchrotron X-ray sources
(Tokyo University of Science) ○Yu Onodera · Naoya Ishida · Naoto Kitamura · Yasushi Idemoto
- 3E11 Investigation of ferroelectric characteristics and crystal structure of (K,Na,Li)(Nb,W)O₃-based ferroelectric ceramics sintered by spark plasma sintering
(Tokyo University of Science) ○Kentaro Nakajima · Naoya Ishida · Naoto Kitamura · Yasushi Idemoto

★★ March 16 (Wed) (Room F) ★★

02. 誘電性材料 Dielectric material

強誘電体

(9 : 00) (Chairman 溝口照康)

- 3F01 First-Principles Calculations of Phase Transition in GaFeO₃-type Ferroelectrics
(Japan Fine Ceramics Center) ○Ayako Konishi · Takafumi Ogawa · Craig A. J. Fisher · Akihide Kuwabara ·
Hiroyuki Moriwake · (Tokyo Institute of Technology) Yosuke Hamasaki · Shintaro Yasui · Mitsuru Itoh
- 3F02 Polarization switching and ferroelectricity of κ -Al₂O₃ type oxide thin films (I)
(Tokyo Tech. MSL) Yosuke Hamasaki · Shintaro Yasui · Tomoyasu Taniyama · Mitsuru Itoh · (Tokyo Tech. TIES) Takao Shimizu ·
(JFCC) Ayako Konishi · Hiroyuki Moriwake · (Tohoku University IMR) Takahisa Shiraishi · Akihiro Akama · Takenori Kiguchi
- 3F03 Polarization switching and ferroelectricity of κ -Al₂O₃ type oxide thin films (II)
(Tokyo Tech. MSL) Yosuke Hamasaki · Shintaro Yasui · Tomoyasu Taniyama · Mitsuru Itoh · (Tokyo Tech. TIES) Takao Shimizu ·
(JFCC) Ayako Konishi · Hiroyuki Moriwake · (Tohoku University IMR) Takahisa Shiraishi · Akihiro Akama · Takenori Kiguchi
- 3F04 Environmental Spaces of Ions in Doubled-Perovskite Crystals and The Effective Charges
(Fukuoka University) ○Naohisa Takesue · Shin Nanri · Kouki Furukawa · Tetsuro Takazono

インフォマティクス

(10 : 15) (Chairman 森分博紀)

- 3F06MU (UserSide2016) Materials Informatics and high throughput experimentations
(National Institute for Materials Science) ○Toyohiro Chikyow · Takahiro Nagata · Yoshiyuki Yamashita · Michiko Yoshitake ·
Shinjiro Yagyu · (COMET Inc.) Keiji Ishibashi · Kenichiro Takahashi · Seiki Ri · Setsu Suzuki
- 3F08MU (UserSide2016) Efficient materials discovery through first principles calculations (Kyoto University) ○Isao Tanaka · Atsuto Seko · Atsushi Togo
- 3F10MS Ion Transport Property Survey in Oxide-based Materials by DFT+Informatics
(NIMS-GREEN · NIMS-MI2I) ○Randy Jalem · (NIMS-GREEN · NIMS-MI2I · NITech · JST-PRESTO · Kyoto U. - ESICB) Masanobu Nakayama
- 3F11M Acceleration of most stable crystal interface structure using a informatics approach
(University of Tokyo) Shin Kiyohara · Hiromi Oda · Teruyasu Mizoguchi
- 3F12M Prediction of MgO and Fe Grain Boundary Structures Using Informatics Approach
(The University of Tokyo) ○Hiromi Oda · Shin Kiyohara · Teruyasu Mizoguchi

複合体

(13 : 00) (Chairman 内田寛)

- 3F17 Influence of Microstructural Control of Metal-Insulator Core-Shell Components in Boundary Layer Capacitors on Dielectric Properties
(University of Yamanashi) ○Shintaro Ueno · Yasunao Sakamoto · Hiroyuki Kakiuchi · Kouichi Nakashima · Satoshi Wada
- 3F18 Preparation of Al₂TiO₅-Based Paraelectrics/Paraelectrics Complex Ceramics and Their Dielectric Properties
(University of Yamanashi) ○Hiroyuki Kakiuchi · Shintaro Ueno · Koichi Nakashima · Satoshi Wada ·
(Hiroshima University) Eisuke Magome · Chikako Moriyoshi · Yoshihiro Kuroiwa
- 3F19 A Study of High Permittivity Material Using Lithium Lanthanum Titanate and semiconductive ceramics
(Tokyo Institute of Technology) ○Naoya Nohara · Yukio Sakabe · Takuya Hoshina · Hiroaki Takeda · Takaaki Tsurumi
- 3F20 Preparation and electrical properties of BaTi₂O₅-Ba₆Ti₁₇O₄₀ eutectic composite by a FZ method
(Tohoku University) ○Keiji Shiga · Hirokazu Katsui · Takashi Goto

TEM, STEM

(14 : 15) (Chairman 武田博明)

- 3F22 Effect of residual strain on structure formation of PMN-PT epitaxial thin films
(Tohoku University) ○Takanori Kiguchi · Cangyu Fan · Takahisa Shiraishi · Akihiro Akama · Toyohiko J. Konno
- 3F23 Structural analysis of phase interphase in relaxor ferroelectricity composed near of MPB
(Tohoku University) ○Cangyu Fan · Takanori Kiguchi · Takahisa Shiraishi · Akihiro Akama · Toyohiko Konno
- 3F24 Dislocation structures and electrical conduction properties of (0001)/<1120> low-angle tilt grain boundaries in LiNbO₃
(Nagoya University) ○Yuhō Furushima · Atsutomo Nakamura · (The University of Tokyo) Eita Tochigi · Yuichi Ikuhara ·
(Nagoya University) Kazuaki Toyoura · Katsuyuki Matsunaga
- 3F25 Charged domain wall structures in improper ferroelectric (Ca,Sr)₃Ti₂O₇
(Osaka Prefecture University) ○Shigeo Mori · Wataru Yoshimoto · Hirofumi Tsukasaki · Yui Ishii · (Toray Research Center) Kousuke Kurushima

欠陥制御

(15 : 30) (Chairman 木口賢紀)

- 3F27 Detection of oxygen vacancies in BaTiO₃ sintered pellets using optical reflectance spectroscopy
(Yamagata University) ○Yuta Matsushima · Rina Horikoshi
- 3F28 Control of Oxygen-related Defects and Characterization for BaTiO₃-based Ferroelectric Ceramics
(The University of Tokyo) ○Masashi Utsunomiya · Yuki Kitanaka · Yuji Noguchi · Masaru Miyayama
- 3F29 Effects of oxygen vacancy and doped nitrogen on the electric properties of SrTiO₃
(Tokyo Institute of Technology) ○Yuka Morimoto · Kazuki Kanehara · Takuya Hoshina · Hiroaki Takeda · Takaaki Thurumi
- 3F30 Defect control in Bi-based piezoelectric ceramics by doping and piezoelectric properties
(University of Yamanashi) ○Ryo Iizuka · Gopal Prasad Khanal · Sarah Najwa · Shintaro Ueno · Kouichi Nakashima · Satoshi Wada ·
(Ryukoku University) Ichiro Fujii · (Hiroshima University) Eisuke Magome · Chikako Moriyoshi · Yoshihiro Kuroiwa

★★ March 16 (Wed) (Room G) ★★**09. 環境・資源関連材料 Environment and energy related material****学術賞受賞講演**

(9 : 00) (Chairman 勝又健一)

- 3G01AS [The 70th Cers] Awards] Multifunction Development of Ceramics based on the Low-dimensional Nanostructure Design
(Osaka University) ○Tohru Sekino

資源回収

(9 : 30) (Chairman 田村真治)

- 3G03 Development of Recovery Technique of Li from Processing Residue of Spent Lithium Secondary Battery
(Shimane University) ○Ryo Sasai · Midori Saito · (Taiheiyō Cement Co.) Katsumi Matsui · Kazuhiko Tokoyoda ·
Noritoshi Tamura · Takashi Hanada · Yasuyuki Ishida
- 3G04 Efficient use of resources including aluminum in used straight tube type LED lightings and development of equipment for separation and recovery of gallium oxide from discarded LED devices
(Hosei University) ○Takaya Akashi · (IRIS Ohyama Inc.) Takashi Ishida · (Harita Metal Co., Ltd.) Makoto Harita ·
(Hosei University) Hiroyuki Nakae
- 3G05 Reaction conditions of gallium recycling process based on carbothermal vaporization-oxidation method with gas permeable plates
(Shibaura Institute of Technology) ○Hajime Kiyono · Natsumi Tobioka · Sae Matsubara ·
Kaori Sakuragi · Yuka Kuboki · (Hosei University) Takaya Akashi

企業フロンティア講演

(10 : 30) (Chairman 亀島欣一)

- 3G07F [Frontiers] Morphology control of AlN powder for filler
(Tokuyama Corporation) ○Yutaka Fukunaga · Mou Ou · Saiko Fujii · Ken Sugawara · Yukihiro Kanechika

微粒子

(11 : 00) (Chairman 笹井亮)

- 3G09 Synthesis of chain-like calcium carbonate particles with high dewaterability
(SHIRAIISHI Central Laboratories) ○Yoshiki Kuma · Yuki Kezuka · Kei Matsubara · Masahiko Tajika · (SHIRAIISHI KOGYO) Shinsuke Nakai
- 3G10 Agglomeration Structure Analysis of Chain-like Calcium Carbonate Particles
(Shiraishi Central Laboratories) ○Yuki Kezuka · Yoshiki Kuma · Kei Matsubara · Masahiko Tajika
- 3G11 Synthesis of Samarium doped ceria synthesized by hydrothermal method and their characterization
(Kitasato University) ○Sena Komuro · (Tokyo Institute of Technology) Yuki Makinose · Nobuhiro Matsushita
- 3G12 Synthesis and characterization of spherical zinc oxide particles using glycol solution
(Chiba university) ○Naofumi Uekawa · Ryo Kawauchi · Takashi Kojima

層状複水酸化物

- (13 : 00) (Chairman 中西和樹)
- 3G17 Influence on hydrolysis of ammonia borane by anion exchanged layered double hydroxide (LDH)
(Nagoya University) ○Masakazu Tanino · Singo Kanehira · Tetsuya Nagasaki · Koichi Kikuta
- 3G18 Structural characteristics of ternary hydrotalcite and its catalytic activity
(Nagoya University) ○Shingo Kanehira · Tetsuya Nagasaki · Masakazu Tanino · Koichi Kikuta
- 3G19 Photocatalytic conversion of CO₂ in H₂O using layered double hydroxides
(Kyoto University) ○Kentaro Teramura · Shoji Iguchi · Hirota Ishii · Yudai Hasegawa · Soichi Kikkawa · Saburo Hosokawa · Tsunehiro Tanaka
- (13 : 45) (Chairman 菊田浩一)
- 3G20 Hybridization of Zn-Al Layered Double Hydroxide (LDH) with Metal Nanoparticle and Its Photocatalyst Behaviour
(University of Yamanashi) ○Putri Rizka Lestari · Takahiro Takei · Kumada Nobuhiro
- 3G21 Intercalation of aminobenzoic acid to hydrotalcite in alcohol
(Okayama University) ○Yoshikazu Kameshima · Daiki Kawada · Shunsuke Nishimoto · Miyake Michihiro
- 3G22 Synthesis of exfoliated nanosheets by rehydration reaction
(Osaka Prefecture University) ○Momoko Iida · Kohei Yoshikawa · Masakazu Togo · Atsushi Nakahira
- 3G23 Anion-exchange property of formate-type hydrotalcite
(Tottori Institute of Industrial Technology) ○Toshiyuki Tanaka · Hiroyasu Tamai

多孔体

- (15 : 00) (Chairman 袋布昌幹)
- 3G25 Hierarchically Porous Titanium Phosphate Monoliths and Its Crystallization Behavior in Ethylene Glycol
(Kyoto University) ○Yang Zhu · Koji Yoneda · Kazuyoshi Kanamori · Kazuki Nakanishi
- 3G26 Preparation of mesoporous materials including vanadium from 4-(EtO)₂OP-C₆H₄-Si(OEt)₃
(Tokyo University of Agriculture and Technology) ○Masafumi Nomi · Atsushi Kondo · Kazuyuki Maeda
- 3G27 Preparation and properties of transparent aerogels from chloromethyltrimethoxysilane
(Kyoto University) ○Tomoki Kimura · Taiyo Shimizu · Kazuyoshi Kanamori · Kazuki Nakanishi
- (15 : 45) (Chairman 中平敦)
- 3G28 Preparation of hierarchically porous vanadium phosphate monoliths
(Kyoto University) ○Ayumu Tanaka · Yang Zhu · Kazuyoshi Kanamori · Kazuki Nakanishi
- 3G29 Synthesis of zeolite from perlite and evaluation
(MITSUI MINING & SMELTING CO.,LTD · Osaka Prefecture University) ○Makoto Kasai ·
(MITSUI MINING & SMELTING CO.,LTD) Yosei Kobayashi · (MAKINO CORPORATION) Masataka Kamitani · Mitsunori Kondo ·
(Osaka Prefecture University · Tohoku University) Atsushi Nakahira
- 3G30 Preparation of monolithic macroporous manganese oxides from manganese salt
(Kyoto university) ○Keisuke Matuura · Yang Zhu · Kazuhiro Kanamori · Kazuki Nakanishi

★★ March 16 (Wed) (Room H) ★★**06. 生体関連材料 Bioceramics****アパタイト形成能**

- (9 : 30) (Chairman 川下将一)
- 3H03 Microstructure of bioactive CaAl₁₂O₁₉ film by laser CVD
(Tohoku University) ○Hirokazu Katsui · Daichi Uraie · Takashi Goto
- 3H04 Enhancement of HAp formation on surface charge-controlled TiO₂
(Japan Fine Ceramics Center) ○Masami Hashimoto · Satoshi Kitaoka · (Tohoku University) Hiroyasu Kanetaka
- 3H05 Precipitation of Calcium Phosphate on Titanium Dioxide Surfaces Subjected to Surface Treatments
(Japan Advanced Institute of Science and Technology) ○Akira Sasahara · Tatsuya Murakami · Le Tran Uyen Tu · Kentaro Tsukuda · Masahiko Tomitori

ガラス

- (10 : 15) (Chairman 小西敏功)
- 3H06 The structure of phospho-silicate glass and their dissolution behavior
(Nagoya Institute of Technology) ○Atsushi Miura · Sungho Lee · Anthony L. B. Macon · Hirota Maeda · Toshihiro Kasuga
- 3H07 Preparation of antibacterial ZnO-containing phosphate invert glasses
(Nagoya Institute of Technology) ○Sungho Lee · Hirota Uehara · Anthony L.B. Macon · Hirota Maeda · Akiko Obata · Toshihiro Kasuga ·
(Tohoku University) Kyosuke Ueda · Takayuki Narushima

シリカ

- (10 : 45) (Chairman 横川善之)
- 3H08 Synthesis of Porous Silica through Biomimetic Process Using Two Kinds of Peptides
(Nagoya University) ○Takuya Asano · Duc H. T. Le · Ayae Sugawara-Narutaki · Chikara Ohtsuki ·
(Toyohashi University of Technology) Hiromi Nakano
- 3H09 Preparation of silica-protein composites by an electro-assisted sol-gel process
(Okayama University) ○Maki Shimomae · Toshiisa Konishi · Tomohiko Yoshioka · Satoshi Hayakawa

材料と細胞

- (11 : 15) (Chairman 小幡亜希子)
- 3H10 Localization of osteoblasts and endothelial cells in apatite-fiber scaffold (AFS)
(Meiji University) ○Michiyo Honda · Mamoru Aizawa
- 3H11 MC3T3-E1 Cell Response to Fibronectin-Adsorbed Hydroxyapatite and Alumina
(Tohoku University) ○Masakazu Kawashita · Maki Hasegawa · Tada-aki Kudo · Hiroyasu Kanetaka ·
(Kyushu Institute of Technology) Toshiki Miyazaki · (Japan Fine Ceramics Center) Masami Hashimoto

吸着

- (11 : 45) (Chairman 小幡亜希子)
- 3H12 VSC adsorption capability of Fe layered double hydroxide containing fluorine
(Osaka City University) ○Yoshiyuki Yokogawa · Shouta Namba · Junichi Kinoshita

★★ March 16 (Wed) (Room I) ★★

01. エンジニアリングセラミックス Engineering ceramics

コーティング 1

(9 : 00) (Chairman 田中諭)

- 3I01 Synthesis of SiC from SiO by CVD Process (Waseda University) ○Norihito Murakawa · Ding Li · Kohei Tatsumi
 3I02 Erosion Behavior of Yttrium Oxide film prepared by Aerosol Deposition Method in the Plasma Process (TOTO) ○Hiroaki Ashizawa · Masakatsu Kiyohara
 3I03 Reaction of Al_2O_3 - ZrO_2 Eutectic with SiC Substrate at Ultra High Temperatures (Nihon University) ○Tetsuya Yanai · Kyosuke Seya · Shunkichi Ueno · (NIMS) Byung Koog Jang
 3I04 Sintering behavior of porous structure of zirconia film for thermal barrier coating (Tohoku University) ○Takashi Shirato · Masanobu Kamitakahara · Hideaki Matubara · (JFCC) Norio Yamaguchi · Taishi Yokoi
 3I05 Mass Transfer Mechanism of Polycrystalline $Yb_2Si_2O_7$ under Oxygen Potential Gradients at High Temperatures (Japan Fine Ceramics Center) ○Masashi Wada · Tsuneaki Matsudaira · Naoki Kawashima · Daisaku Yokoe · Takeharu Kato · Satoshi Kitaoka · Masasuke Takata

コーティング 2

(10 : 30) (Chairman 桐原聡秀)

- 3I07A [The 70th Cers] Awards] Control of mass-transfer in protective oxide films at high temperatures (Japan Fine Ceramics Center) ○Satoshi Kitaoka
 3I09 Measurement of residual stress between room temperature and 1200°C in Si bond coat layer EBC system (The University of Tokyo) ○Yutaro Arai · Kaoru Yonekura · Yutaka Kagawa
 3I10 Effect of local residual stress distribution on micro damage evolution behavior of discontinuous carbon fiber-dispersed SiC matrix composite (The University of Tokyo) ○Kouki Kajihara · Yujiro Atsumi · Yutaka Kagawa
 3I11 Thermal Behavior and Mechanical Properties of Y_2SiO_5 Coatings after Isothermal Heat Treatment (National Institute for Materials Science) ○Byung-Koog Jang · Fan-Jie Feng · (Kookmin university) Kee-Sung Lee
 3I12 A method for measurement of delamination toughness in EBC system (The University of Tokyo) ○Yuto Aoki · Y. Arai · Y. Kagawa

複合材料

(13 : 00) (Chairman 宮崎広行)

- 3I17 Fabrication of SiCf/SiC composites with boron nitride interphase formed by EPD and their mechanical properties (Tokyo Institute of Technology) ○Naoki Mizuta · Katsumi Yoshida · Toyohiko Yano · (Japan Aerospace eXploration Agency) Masaki Kotani · Takuya Aoki · (Tokyo University of Agriculture and Technology) Toshio Ogasawara
 3I18 High temperature wet oxidation behavior of SiC fiber-reinforced composites fabricated by melt infiltration using Si-Ti alloy (Tokyo Institute of Technology) ○Toru Tsunoura · Katsumi Yoshida · Toyohiko Yano · (Tokyo University of Agriculture and Technology) Toshio Ogasawara · (Japan Aerospace Exploration Agency) Takuya Aoki
 3I19 Development of SiC Composites for Light Water Reactor Application (Kyoto University) ○Tatsuya Hinoki · Moonhee Lee · Sosuke Kondo

機械的性質 1

(13 : 45) (Chairman 多々見純一)

- 3I20 Quantitative evaluation of crack deflection effect on toughening of nano-polycrystalline stishovite (Tokyo Institute of Technology) ○Kimiko Yoshida · Fumihito Wakai · (Deutsches Elektronen-Synchrotron) Norimasa Nishiyama · (Tokyo Institute of Technology) Risako Sekine · Yutaka Shinoda · (Saga University) Takashi Akatsu
 3I21 Development of virtual test for carbon fiber-SiC matrix composites: Effect of anisotropic properties on the interaction between crack in brittle phase and minicomposite phase. (The University of Tokyo) ○Yujiro Atsumi
 3I22 Theoretical prediction of compressive strength, Young's modulus and strain at fracture of sintered porous alumina compacts (Kagoshima University) Yoshihiro Hirata · ○Taro Shimonosono
 3I23 Slip deformation behavior of strontium titanate single crystals deformed by compression for [001] at room temperature (The University of Nagoya) ○Kensuke Yasufuku · Atsutomu Nakamura · Yuho Furushima · Kazuaki Toyoura · Katsuyuki Matsunaga
 3I24 International Round Robin Test on Fracture Toughness of Ceramic Substrates (National Institute of Advanced Industrial Science and Technology) ○Hiroyuki Miyazaki · Yu-ichi Yoshizawa · Kiyoshi Hirao · Tatsuki Ohji · Hideki Hyuga

機械的性質 2

(15 : 00) (Chairman 宮崎広行)

- 3I25S Thermal Oxidation-Induced Crack-healing of 5 vol% SiC Particle Dispersed Y_2SiO_5 Composites (Nagaoka University of Technology) ○Dinh Huy Vu · Makoto Nanko
 3I26 Oxidation behavior and mechanical properties of BN particle dispersion SiC composites (Kyoto University) ○Shohei Yanagawa · Tatsuya Hinoki · (National Institute for Materials Science) Kazuya Shimoda
 3I27 Mechanical properties and cutting characteristics of cast iron for WC-FeAl composites including $\alpha-Al_2O_3$ (National Institute of Advanced Industrial Science and Technology) ○Ryoichi Furushima · Koji Shimojima · Hiroyuki Hosokawa · Kiyotaka Katou · Akihiro Matsumoto
 3I28 Triboluminescence of AlN:Mn ceramics (Yokohama National University) ○Junichi Tatami · Kentaro Iwai · Motoyuki Iijima
 3I29 Verification of Easy-to-use Test Method of Torsion Strength for Porous Bioceramics (Tokyo Institute of Technology) ○Kouichi Yasuda · (Kanazawa Institute of Technology) Sadami Tsutsumi

★★ March 16 (Wed) (Room J) ★★

11. その他材料 Others

触媒

(9 : 00) (Chairman 山根久典)

- 3J01 Preparation of the selectively deposited Pd and $LaMnO_3$ with in/outside pore of alumina-support and their catalytic activity (Kyushu University) ○Akihiro Tou · Hikaru Saito · Hisahiro Einaga · Maiko Nishibori · Kengo Shimano

3J02 Study on catalyst for combustion-type MEMS hydrocarbon gas sensor
(Kyushu University) ○Mao Takayama · Maiko Nishibori · Kengo Shimanoe · Akihiro Tou

高圧合成

(9 : 30) (Chairman 山根久典)

3J03 High-pressure synthesis and crystal structure of novel perovskite-type cobalt oxides
(Kyoto University) ○Takahiro Kawamoto · Koji Fujita · Ryo Fujikawa · Katsuhisa Tanaka · (Osaka Prefecture University) Ikuya Yamada

3J04 High pressure synthesis and characterization of new 3d transition metal nitrides
(Nagoya University) ○Ken Niwa · Toshiki Terabe · Tatsuya Mizui · Daiki Kato · Yuichi Shirako · Kazuo Soda · Masashi Hasegawa ·
(High Energy Accelerator Research Organization) Takumi Kikegawa

合成

(10 : 00) (Chairman 岡研吾)

3J05 Development of the functional ceramic hollow microspheres by Spray Pyrolysis
(Taiheiyō Cement Corporation) ○Kouki Ichitsubo · Kyoko Wakabayashi · Hiroki Yamazaki · Motohiro Umezū · Kenta Masuda

3J06 Synthesis and crystal structure analysis of a novel compound $Ti_7Ga_2O_6$ (Tohoku University) ○Shinsaku Amano · Hisanori Yamane

カーボン材料

(10 : 30) (Chairman 岡研吾)

3J07 Adsorption behavior of water in polymer-like carbon powder
(Nagaoka University Tech.) ○Nobuya Kubo · Satoru Arakawa · Tunmee Sarayut · XiaoLong Zhou · Keiji Komatsu · Hidetoshi Saitoh

3J08 Synthesis of graphene – graphite composites by solvothermal method
(Kumamoto University) ○Zhympargul Abdullaeva · Matsuda Motohide · Masayuki Tshushida · Tadao Nishiyama

負熱膨張

(11 : 00) (Chairman 斎藤秀俊)

3J09 Controlling the property of negative thermal expansion in $BiNiO_3$ by elemental substitution
(Tokyo Institute of Technology) ○Yuichiro Hattori · Masaki Azuma · (Kanagawa Academy of Science and Technology) Yuki Sakai

3J10 Negative thermal expansion induced by intermetallic charge transfer in $Bi_{1-x}Sb_xNiO_3$ and effects of B-site substitution
(Tokyo Institute of Technology) ○Takumi Nishikubo · (Chuo University) Kengo Oka ·
(Kanagawa Academy of Science and Technology) Yuki Sakai · (Tokyo Institute of Technology) Masaki Azuma

3J11 Synthesis of colossal negative thermal expansion material $BiNi_{1-x}Fe_xO_3$ by organic acid complex method
(Tokyo Institute of Technology) ○Kantaro Arai · (Kanagawa Academy of Science and Technology) Yuki Sakai ·
(Nagoya Institute of Technology) Manabu Gomi · (Tokyo Institute of Technology) Masaki Azuma

★★ March 16 (Wed) (Room K) ★★

10. エネルギー関連材料 Energy reference material

水素・プロトン材料

(9 : 00) (Chairman 小林清)

3K01 Proton conductivity and thermal property of alkali-proton substituted phosphate glasses
(Hokkaido University) ○Takuya Kinoshita · Atsushi Miyazaki · Masaya Fujioka · Hideo Kaiju · Junji Nishii ·
(Osaka University) Takuya Yamaguchi · Takahisa Omata

3K02 Hydrogen reaction and H_2 permeability of layered perovskite $LaSr_3Fe_3O_{10}$
(Nagoya Institute of Technology) ○Yuki Hoshino · Isao Kagomiya · Kenichi Kakimoto

リチウム二次電池/酸化物系固体電解質

(9 : 30) (Chairman 幾原裕美)

3K03 Flux Growth of $Li_{6.75}La_3Zr_{1.75}Nb_{0.25}O_{12}$ Crystal- Li_3BO_3 Glass Composite Ceramic Electrolytes and Characterization of Its Electrochemical Properties
(Shinshu University) ○Sakina Kaneko · Hitoshi Onodera · Tetsuya Yamada · Nobuyuki Zettsu · Katsuya Teshima

3K04 Morphology-Controlled Growth of Perovskite-Type $LiLa_2NbO_6$ Crystals by Using Template-Mediated Flux Growth
(Shinshu University) ○Satoshi Yuasa · Tetsuya Yamada · Nobuyuki Zettsu · Katsuya Teshima

3K05 Synthesis of $Li_7La_3Zr_2O_{12}$ Transparent Ceramics and Sintering Behavior
(National Institute for Materials Science) ○Noriko Saito · Shouichi Sugata · Ken Watanabe · Akio Watanabe ·
Isao Sakaguchi · Hajime Ihaneda · (DENSO CORPORATION) Yosuke Suzuki

リチウム二次電池/硫化物系固体電解質

(10 : 15) (Chairman 作田敦)

3K06 Liquid-phase synthesis of Li_6PS_5Br solid electrolyte using ethanol and tetrahydrofuran
(Osaka Prefecture University) ○So Yubuchi · Akitoshi Hayashi · Masahiro Tatsumisago

3K07 Preparation of $Li_4P_2S_6$ fine powders by the freeze-drying process and their ionic conductivity
(Osaka Prefecture University) ○Yosuke Ukawa · Takashi Hakari · Akitoshi Hayashi · Masahiro Tatsumisago

3K08 Preparation of highly conductive $Li_7P_2S_8I$ solid electrolytes by liquid-phase shaking
(Toyohashi University of Technology) ○Eito Hirahara · Phuc Nguyen Huu Huy · Kei Morikawa ·
Mitsuhiro Totani · Hitoyuki Muto · Atsunori Matsuda

3K09 Preparation and Characterization of $Li_2S-P_2S_5$ Solid Electrolyte Thick Films by Electrophoretic Deposition
(Toyohashi University of Technology) ○Kota Aiyama · Shota Azuma · Phuc Nguyen. H. H. · Hideto Yamada ·
Reiko Matsuda · Hiroyuki Muto · Atsunori Matsuda

リチウム二次電池/評価

(11 : 15) (Chairman 北村尚斗)

3K10 Evaluation of mechanical properties of solid electrolytes for all-solid-state lithium ion battery by indentation technique
(Toyohashi University of Technology) ○Mitsuhiro Totani · Kei Morikawa · Phuc Nguyen Huu Huy · Hiroyuki Muto · Atsunori Matsuda

3K11 Development of the high functional software for electrochemical impedance analysis
(National Institute for Materials Science) ○Kiyoshi Kobayashi · Yoshio Sakka

- 3K12 Development of electrode chips of Li-ion batteries for soft X-ray emission spectroscopy and operando measurements
 (National Institute of Advanced Industrial Science and Technology) ○Eiji Hosono · Daisuke Asakura · (The University of Tokyo)
 Hideharu Niwa · Hisao Kiuchi · Jun Miyawaki · (National Institute of Advanced Industrial Science and Technology)
 Yusuke Nanba · Masashi Okubo · Hirofumi Matsuda · (The University of Tokyo) Masaharu Oshima · Yoshihisa Harada

リチウム二次電池／薄膜電極

(13 : 00) (Chairman 秋本順二)

- 3K17 Particle design of LiCoO_2 for the formation of good $\text{LiCoO}_2\text{-Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ interface by aerosol deposition method
 (Tokyo Metropolitan University) ○Mao Shoji · Kyoko Kozuka · Keiko Nitta · Takeshi Kimura · Hirokazu Munakata · Kiyoshi Kanamura
- 3K18 Microstructural characterization of solution derived cathodic thin films for Lithium ion battery
 (Japan Fine Ceramics Center) ○Yumi Ikuhara · Xiang Gao · Yoshiyuki Sugawara · Craig Fisher · Akihide Kuwabara · Hiroki Moriwake ·
 (Japan Fine Ceramics Center · The University of Tokyo) Yuichi Ikuhara · (Toyota Motor Corporation) Keiichi Kohama

リチウム二次電池／正極材料

(13 : 30) (Chairman 秋本順二)

- 3K19 The Effect of Post Annealing on Local Structure of $\text{Li}(\text{Ni}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3})\text{O}_2$ Crystals Prepared by Using Flux Method
 (Shinshu University) ○Kazuhiro Yoshino · Takeshi Kimijima · Tetsuya Yamada · Nobuyuki Zettsu · Katsuya Teshima
- 3K20 Flux Growth of Layered- $\text{Li}(\text{Ni}_x\text{Co}_y\text{Mn}_z)\text{O}_2$ Crystal Layers Directly on Current Collector Substrates
 (Shinshu University) ○Takeshi Kimijima · Nobuyuki Zettsu · Katsuya Teshima

(14 : 00) (Chairman 是津信行)

- 3K21 Establishment of reaction phase diagrams of pseudo-ternary $\text{LiNi}_{0.8}\text{Ti}_{0.2}\text{O}_2\text{-LiCo}_{0.8}\text{Ti}_{0.2}\text{O}_2\text{-LiFe}_{0.8}\text{Ti}_{0.2}\text{O}_2$ and charge-discharge properties of $\text{LiNi}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.2}\text{Ti}_{0.2}\text{O}_2$
 (Tokyo University of Science) ○Kohei Nanbu · (Tokyo Metropolitan Hiroo High School) Daiki Yoshino ·
 (Tokyo University of Science · Reserch Institute for Science and Technology) Yuki Yamaguchi · Kenjiro Fujimoto
- 3K22 Average and local structure analysis of metastable $\text{Li}_x\text{Mn}_{0.9}\text{Ti}_{0.1}\text{O}_2$ by synchrotron X-ray
 (Tokyo University of Science) ○Kazuki Miyazawa · Naoya Ishida · Naoto Kitamura · Yasushi Idemoto ·
 (National Institute of Advanced Industrial Science) Junji Akimoto
- 3K23 Investigation of Structural Changes of Li-rich Solid Solution Cathode during Charge-discharge Cycles
 (Tokyo Metropolitan University) ○Ken Sasaki · Hirokazu Munakata · Kiyoshi Kanamura
- 3K24 Fabrication of nanowire electrodes for secondary batteries by an electrospinning method and measurement of soft X-ray absorption spectra
 (National Institute of Advanced Industrial Science and Technology) ○Eiji Hosono · Satoshi Kajiyama · Masashi Okubo · Daisuke Asakura ·
 (National Institute for Materials Science) Jun Kikkawa

(15 : 00) (Chairman 松田厚範)

- 3K25 Hydrothermal Synthesis of Metal-substituted LiCoPO_4 for High Voltage Cathode Material
 (Tokyo Metropolitan University) ○Shohei Miyamoto · Yusaku Noda · Hirokazu Munakata · Kiyoshi Kanamura ·
 (DENSO CORPORATION) Koji Ohira · Shuuhei Yoshida · Daisuke Shibata
- 3K26 Synthesis and evaluation of olivine-type cathode material
 (Osaka Prefecture University) ○Masakazu Togo · Atsushi Nakahira

リチウム二次電池／硫化物系電極材料

(15 : 30) (Chairman 松田厚範)

- 3K27 Rock-salt/Amorphous Reversible Phase Transition of Li_2TiS_3 During Charging And Discharging
 (National Institute of Advanced Industrial Science and Technology) ○Atsushi Sakuda · Tomonari Takeuchi ·
 Masahiro Shikano · Hikari Sakaebe · (Kyoto University) Zempachi Ogumi
- 3K28 Evaluation of mechanical properties of $\text{SnX-P}_2\text{X}_5$ (X = O, S) glassy electrode materials
 (Osaka Prefecture University) ○Masashi Nose · Atsutaka Kato · (National Institute of Advanced Industrial Science and Technology)
 Atsushi Sakuda · (Osaka Prefecture University) Akitoshi Hayashi · Masahiro Tatsumisago