Please note, Almost all presentation will be given in Japanese.

○ = Speaker
The symbol that attached to the end of the presentation number
A = Award lecture
F = Frontiers of industrial research
M = Mixing session
S = Elemental strategy

The Ceramic Society of Japan
Annual Meeting 2013
Program

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

★★ March 17 (Sun) (Room A) ★★

Dielectric material / 強誘電性メカニズム

(13：00) (Chairman 山田智明)

1A17 Visualization of Electron Polarization of Pb Ion in Ferroelectric $PbTiO_3$
(Hiroshima University) ○Yoshihiro Kuroiwa・Satoshi Yasuda・Eisuke Magome・Chikako Moriyoshi・(Shimane University) Kaname Fukushima・Nao Taniguchi・Hiroshi Tanaka・(The University of Tokyo) Yuuki Kitanaka・Yuji Noguchi・Masaru Miyayama

1A18 Polarization rotation in a monoclinic perovskite $BiFe_{1-x}CoxO_3$
(Tokyo Institute of Technology) ○Kengo Oka・Masaki Azuma・(Osaka Prefecture University) Tsukasa Koyama・Tomoatsu Ozaki・Shigeo Mori・(Kyoto University) Yuichi Shimakawa

1A19 First-principles study of iso-structural phase transition of $BiFeO_3$-$PbTiO_3$ system with large c/a ratio
(Japan Fine Ceramics Center) ○Hiroki Moriwake・(Hiroshima University) Kazuaki Taji・Chikako Moriyoshi・Yoshihiro Kuroiwa

Dielectric material / ドメイン制御

(13：45) (Chairman 山田智明)

1A20 Fabrication of artificial domain-walls using ferroelectric bicrystals
(Nagoya University) ○Atsutomo Nakamura・Katsuyuki Matsunaga・(The University of Tokyo) Eita Tochigi・Yukio Sato・Teruyasu Mizoguchi・Yuichi Ikuhara・Naoya Shibata

(14：00) (Chairman 保科拓也)

1A21 Effect of clamping on piezoelectric property of a tetragonal (111) $Pb(Zr,Ti)O_3$ thin film
(Nagoya Univ.) ○Jun Yasumoto・(Nagoya Univ.・JST-PRESTO) Tomoaki Yamada・(NIMS・Tokyo Tech.) Osami Sakata・(JASRI) Yasuhiko Imai・(Tohoku Univ.) Takanori Kiguchi・Toyohiko Konno・(Tokyo Tech.) Yoshitaka Ehara・Takahisa Shiraishi・Takahiro Oikawa・Hiroshi Funakubo・(Nagoya Univ.) Masahito Yoshino・Takanori Nagasaki

1A22 New Development of High performance piezoelectric materials with Nano/Macro complex domain configurations
(The University of Yamanashi) ○Ryuta Mitsui・Ichiro Hujii・Kouichi Nakashima・Nobuhiro Kumada・Satoshi Wada・(The University of Hiroshima) Yoshihiro Kuroiwa・(The Prefecture University of Osaka) Tomoatu Ozaki・Shigeo Mori

Dielectric material / 強誘電・圧電性評価

(14：30) (Chairman 保科拓也)

1A23 Electrical properties by variation of potassium amount on $(Bi_{1/2}K_{1/2})TiO_3$ ceramics
(University of Science) ○Kazuya Tabuchi・Hajime Nagata・Tadashi Takenaka

1A24 Dependences crystal structure and piezoelectric and ferroelectric on synthetic and polarization processes in $BaTiO_3$
(Tokyo Univ. of Science) ○Ryuhei Ifuku・Naoto Kitamura・Yasushi Idemoto

★★ March 17 (Sun) (Room B) ★★

Magnetic material / キャラクタリゼーション

(13：30) (Chairman 田中勝久)

1B19 Itinerant anti-ferromagnetism in *Ln*CrAsO (*Ln* = La, Ce, Pr, Nd, Sm) with ZrCuSiAs-type structure
(Tokyo Institute of Technology) SangWon Park・○Hiroshi Mizoguchi・Satoru Matsuishi・Toshio Kamiya・Hideo Hosono・(Japan Atomic Energy Agency) Katsuaki Kodama・Shin-ichi Shamoto・(KEK) Toshiya Otomo

1B20 Magnetic properties of layered transition metal oxyselenides (Hokkaido University) Yoji Sugimoto・○Makoto Wakeshima・Yukio Hinatsu

1B21 Magnetic and electrical properties of a layered cobalt oxyfluoride
(National Institute for Materials Science) ○Yoshihiro Tsujimoto・Clastin Sathish・Guo Yanfeng・Yoshitaka Matsushita・Kazunari Yamaura・Eiji Muromachi・(Korean Atomic Energy Research Insitute) Kun-Pyo Hong・(Tokyo Institute of Technology) Kengo Oka・Masaki Azuma

Magnetic material / プロセッシング

(14：15) (Chairman 神谷利夫)

1B22 An unusually reduced cobalt oxide (Kyoto University) ○Guillaume Bouilly・Cedric Tassel・Yoji Kobayashi・Hiroshi Kageyama

1B23 Epitaxial growth of perovskite-type itinerant magnet containing Eu^{2+}
(Kyoto University) ○Masaharu Watanabe・Koji Fujita・Yoshiro Kususe・Shunsuke Murai・Katsuhisa Tanaka

1B24 High pressure synthesis of manganese intermetallic compounds $Sn_{1-x}M_xCMn_3$ (M=Cr, Zn, Al).
(Tohoku University) ○Shinji Orimo・Yamato Hayashi・Jun Fukushima・Hirotsugu Takizawa

★★ March 17 (Sun) (Room C) ★★

Vapor phase process / 溶射

(13：00) (Chairman 石垣隆正)

1C17 Porosity of thick films of yttria synthesized using flame spray apparatus
(Nagaoka University of Technology) ○Ayumu Toyama・Shigeo Ohshio・Ikumi Toda・Hiroyuki Muramatsu・Hidetoshi Saitoh・(Chubu Chelest Co., Ltd.・Nagaoka University of Technology) Atsushi Nakamura

1C18 Structure of erubia film deposited using flame spray appratus
（Nagaoka University of Technology）○Ayumu Toyama・Shigeo Ohshio・Ikumi Toda・Hiroyuki Muramatsu・Hidetoshi Saitoh・
（Chubu Chelest Co.,Ltd.・Nagaoka University of Technology）Atsushi Nakamura

1C19 Metal oxide particles including mixture of yttria and erbia synthesized with metal-EDTA crystal
（Nagaoka University of Technology）○Tomoyuki Shirai・Yasuhiro Hasebe・Keiji Komatsu・
（Chubu Chelest Co., Ltd.・Nagaoka University of Technology）Atsushi Nakamura・
（Nagaoka University of Technology）Shigeo Ohshio・Ikumi Toda・Hiroki Akasaka・Hidetoshi Saitoh

Vapor phase process / 表面処理

(13：45)（Chairman 坂元尚紀）

1C20 Effect of transition metal additives on the formation of gallium oxynitride nanowires (Ga,*M*)(O,N) (*M* = Al, Zn)
（Hokkaido University）○Yuji Masubuchi・Atsuo Kamura・Ryohei Yamaoka・Teruki Motohashi・Shinichi Kikkawa

1C21 Synthesis of carbon nanofibers/graphite hybrid material
（Tokyo University of Agriculture and Technology）○Yosuke Nomura・Motoyuki Iijima・Hidehiro Kamiya・
（Aalto University）Ilya Anoshkin・Albert Nasibulin・Esko Kauppinen

1C22 Simplified Carbonitriding Treatment for Anodic Titanium Oxide Film
（Kumabou Metal Co., Ltd.）○mitsutaka Yoshimoto・（Kumamoto University）shinji Agawa・
（Kumamoto University）yasuhiro Morizono・（Kumamoto University）sadahiro Tsurekawa

1C23 Chemical modification of amorphous carbon thin films *via* 1.3-dipolar cycloaddition
（The University of Ryukoku）○Akihiro Tada・Tetsuo Iwasawa・Yoshifumi Aoi

1C24 Synthesis of Lithium Nitride Composite on the Lithium Surface by Ion Plantation Technique
（Japan Atomic Energy Agency）○Shintaro Ishiyama・Yuji Baba・（Cancer Intelligence Care Systems, Inc.）
Ryo Fujii・Masaru Nakamura・Masaru Imahori

★★ March 17 (Sun) (Room D) ★★

Liquid phase process / ゾル・ゲル法

(13：00)（Chairman 高橋雅英）

1D17 Effects of H_2O on the crystallization of TiO_2 films prepared from alkoxide solutions containing acetylacetone
（Kansai University）○Hiroaki Uchiyama・Momoto Okada・Hiromitsu Kozuka

1D18 Effect of Film Thickness on the Microstructure of Alumina Thin Films by Sol-Gel Method
（Shizuoka University）○Miyuki Tashiro・Naonori Sakamoto・（Tokyo Institute of Technology）
Kazuo Shinozaki・（Shizuoka University）Naoki Wakiya・Hisao Suzuki

1D19 Fundamental study on the residual stress of Y_2O_3thin films prepared by sol-gel processing
（Kansai University）Hiromitsu Kozuka・○Yuki Nakahara・Hiroaki Uchiyama

1D20 Effect of preparation method of precursor and heating rate for synthesis of $12CaO \cdot 7Al_2O_3$ powders by sol-gel method
（Shizuoka University）○Kenta Kamimura・Kotaro Ozawa・Naonori Sakamoto・Naoki Wakiya・Hisao Suzuki

(14：00)（Chairman 緒明佑哉）

1D21 Spontaneous pattern formation on organic dye-doped silica-PVP films prepared at low substrate withdrawal speeds
（Kansai University）Hiroaki Uchiyama・○Ryosuke Sasaki・Hiromitsu Kozuka

1D22 Spontaneous pattern formation on sol-gel dip-coating films induced by Bénard-Marangoni convection
（Kansai University）Hiroaki Uchiyama・○Tadayuki Matsui・Hiromitsu Kozuka

1D23 Thermal transfer of sol-gel-derived ITO thin films onto plastic substrates
（Kansai University）Hiromitsu Kozuka・○Shohei Tsuboi・Hiroaki Uchiyama

1D24 Preparation of mesoporous silica film with surface wrinkle structures
（Osaka Prefecture University）○Genki Asakura・Kenji Okada・Kazumasa Suzuki・Yasuaki Tokudome・Masahide Takahashi

★★ March 17 (Sun) (Room E) ★★

Glass and photonic materials / 蛍光体（Ⅱ－Ⅳ）

(13：00)（Chairman 黒木雄一郎）

1E17 Preparation-condition-dependent morphology of core-shell quantum dots ($CdSe/Cd_{1-x}Zn_xS$)
（National Institute of Advanced Industrial Science and Technology）○Norio Murase・Masanori Ando・Ping Yang・Shiquan Wang

1E18S Luminescent Property of the $(Zn_{0.98}Al_{0.02}O)$-$(LiGaO_2)_{1/2}$ oxide (s.s.) Phosphors without Rare Metal
（Mie Industrial Research Institute）○Koji Inoue

1E19 Dependence of Annealing Temperature on Near-UV and Visible Photoluminescence of Haxagonal Plateletlike ZnO Particles
（Nagoya Institute of Technology）○Takaaki Sugiyama・Hayato Naganawa・（Nagoya Institute of Technology・NITech-NIL）
Tomokatsu Hayakawa・（Nagoya Institute of Technology・Japan Fine Ceramics Center）Yukari Ishikawa

1E20 Effects of Anions on Nanostructures and Photoluminescent Properties of ZnO Particles in Liquid-Phase Synthesis
（University of Yamanashi）○Shintaro Ueno・（Keio University）Shinobu Fujihara

Glass and photonic materials / 蛍光体（白色）

(14：00)（Chairman 藤原忍）

1E21 The Improvement of Moisture Resistance of Inorganic Phosphors Coated with Hydrophobic Materials
（Sakai Chemical Industry Co., Ltd）○Hisao Koizumi・Yasuhumi Fujimoto・Kenji Murata・
Tomonori Sakaguchi・Kenji Mori・Hiroshi Nakao・Keita Kobayashi

1E22 Influence of synthetic process on crystal structure and luminescence properties for Sr-SiAlON:Eu phosphor
（Nagaoka University of Technology）○Masayoshi Yokozeki・Yuichiro Kuroki・Tomoichiro Okamoto・Masasuke Takata・
（Kojundo Chemical Laboratory CO., LTD）Naoto Togashi・Masami Kawahara・Toshiya Shibata

1E23 Development of Silicate Phosphors with high Moisture-resistance （Sekisui Chemical Co., Ltd.）○Rende Sun

1E24 Synthesis and crystal structure determination of rare earth-free phosphor, $Ba_2TiP_2O_9$
（Niigata University）○Kenji Toda・Takuya Hasegawa・Tadashi Ishigaki・Shinnosuke Kamei・Kazuyoshi Uematsu・Mineo Sato

★★ March 17 (Sun) (Room F) ★★

Glass and photonic materials / 光触媒

（13：15）（Chairman　安盛敦雄）

1F18 Fabrication and chemical durability evaluation of titania crystallized glasses
（Tohoku University）○Kazuki Yoshida・（Kyoto University）Hirokazu Masai・（Tohoku University）Yoshihiro Takahashi・Rie Ihara・Takumi Fujiwara

1F19F [Frontiers] Development of the anti-viral/-bacterial photocatalytic glass using sputtering technique （Nippon Sheet Glass Co., Ltd.）○Tetsuo Minaai

Glass and photonic materials / ナノ粒子

（14：00）（Chairman　大幸裕介）

1F21 Morphology Control of Ag Nanoparticles in Mesoporous TiO_2 Film Template and the Optical Characteristics
（Toyohashi　University of Technology）○Mitsuru Torigoe・Teruhisa Okuno・Go Kawamura・Hiroyuki Muto・Atsunori Matsuda

1F22 Enhancement of Faraday effect in iron oxide thin films deposited with metal nanoparticles.
（Kyoto University）○Makoto Aratani・Shunsuke Murai・Kouji Fujita・Katsuhisa Tanaka

1F23 Plasmonic enhancement of magnetooptical properties in metal-ferrite-nanocomposites fabricated inside glasses
（Yokohama National university・Riken）○Seisuke Nakashima

★★ March 17 (Sun) (Room G) ★★

Environment and energy related material / 除去・回収

（13：00）（Chairman　前田浩孝）

1G17 Development of new Cs^+ and Sr^{2+} removal materials from blast furnace water-cooled slag
（Okayama University）○Takuma Tsutsumi・Shunsuke Nishimoto・Yoshikazu Kameshima・Michihiro Miyake

1G18S Preparation of Li_2PtO_3 exhibiting high solubility in hydrochloric acid
（National Institute of Advanced Industrial Science and Technology (AIST)）○Ryo Kasuya・Takeshi Miki・Yutaka Tai

1G19 Effect of Treatment Solvent on Wet Ball-Milling for Nd Recovery from Nd-Fe-B Hard Magnets
（Shimane University）○naohiro Shimamura・Ryo Sasai

Environment and energy related material / 機能性粒子

（13：45）（Chairman　殷シュウ）

1G20S Glass Polishing with $SrZrO_3/CeO_2$ Nano-composite Abrasive
（Japan Fine Ceramics Center）○Takayuki Honma・Koichi Kawahara・（Japan Fine Ceramics Center・Shizuoka University）Seiichi Suda

1G21 Novel Environmentally Friendly Inorganic Yellow Pigments Based on Bismuth Vanadate
（Osaka University）○Taihei Honda・Dusu Wen・Toshiyuki Masui・Nobuhito Imanaka

1G22 Environmental-friendly Inorganic Red Pigments Based on Bismuth Oxide （Osaka University）○Dusu Wen・Toshiyuki Masui・Nobuhito Imanaka

Environment and energy related material / 企業研究フロンティア講演

（14：30）（Chairman　三宅通博）

1G23F [Frontiers] Transparent incombustible glass fiber reinforced plastic with clay coating （Miyagi kasei CO.,LTD）○yuuki Itou

★★ March 17 (Sun) (Room H) ★★

Enginieering ceramics / 焼結

（13：15）（Chairman　多々見純一）

1H18 Mechanics of viscous sintering on the micro- and macro-scale （Tokyo Institute of Technology）○Fumihiro Wakai

1H19 Synthesis of NaB_5C bulk ceramics with Na vapor and their flexural strengths
（Tohoku University）○Takuma Kimura・Haruhiko Morito・Hisanori Yamane

1H20 Study on fabrication of transparent pyrochlore ceramics
（Kyoto University）○Shun Masui・Setsuhisa Tanabe・（Osaka University）Kana Fujioka・YASUISHI Fjimoto

（14：00）（Chairman　若井史博）

1H21 Grain-Growth Mechanism in Y-TZP during Grain Boundary Segregation-Induced Phase Transformation
（Tosoh Corporation）○Koji Matsui・（National Institute for Materials Science）Hidehiro Yoshida・（The University of Tokyo）Yuichi Ikuhara

1H22 Improvement of strength and electrical conductivity of Al_2O_3 based composites by networking of CNTs
（Yokohama National University）○Mitsuaki Matsuoka・Junichi Tatami・Toru Wakihara

1H23A [The 67th CerSJ Awards] Development of alumina structural members with a conductivity （TOTO LTD.）○Shogo Shimada

★★ March 17 (Sun) (Room I) ★★

Energy reference material / リチウムイオン二次電池

（13：15）（Chairman　井出本康）

1I18 Investigation of atmospheric conditions on sol-gel synthesis of $Li_7La_3Zr_2O_{12}$ solid electrolyte
（Tokyo Metropolitan University）○Naoto Saito・Teruaki Nishioka・Hirokazu Munakata・Kiyoshi Kanamura

1I19 Synthesis of olivine-type $LiMn_xFe_{1-x}PO_4$ by hydrothermal method and Structural analysis
（The University of Osaka Orefecture）○Masakazu Togo・Shintaro Hayashi・（Makino Co. Ltd.）Masataka Kamitani・（The University of Tohoku）Atsushi Nakahira

1I20 Cycle stability of three-dimensionally-structured $LiFePO_4$/C composites cathode for lithium ion batteries
（National Institute of Advanced Industrial Science and Technology）○Koichi Hamamoto・Manabu Fukushima・Mikito Mamiya・Yuichi Yoshizawa・Junji Akimoto・Toshio Suzuki・Toshiaki Amaguchi・Hirofumi Sumi・Yoshinobu Fujishiro

(14：00) (Chairman　中山将伸)

1I21　Single-crystal X-ray investigation of $LiNi_{0.5}Mn_{1.5}O_4$ spinel as 5 V cathode materials
(National Institute of Advanced Industrial Science and Technology) ○Naoya Ishida・Hiroshi Hayakawa・Junji Akimoto

1I22　Hydrothermal synthesis and characterization of Fe-substituted MnO_2
(Tokyo Metropolitan University) Jinhee Moon・○Hirokazu Munakata・Kiyoshi Kanamura

1I23　Characteristics of Charge-Discharge process for $Li_{6/5}Mn_{8/15}Ni_{2/15}Co_{2/15}O_2$ solid solution Material for Li ion Battery
(Tokyo Univ.of Science) ○Norihide Tamura・Naoto Kitamura・Yasushi Idemoto

1I24　XRD and XANES study for charge-discharge mechanism of ruthenium substituted Li_2MnO_3
(Gakushuin University) ○Daisuke Mori・Yoshiyuki Inaguma・(National Institute of Advanced Industrial Science and Technology) Hironori Kobayashi・(High Energy Accelerator Research Organization) Hiroaki Nitani

★★ March 17 (Sun) (Room J) ★★

Bioceramics / リン酸カルシウム

(13：15) (Chairman　中村美穂)

1J18　Protein release properties on zinc- and carbonate ion-containing apatite
(Kitami institute of technology) ○Gen-ichi Endo・Toru Arauchi・Toru Kanno・Jun-ichi Horiuchi

1J19　Cell Evaluation of Beta-Tricalcium Phosphate Ceramic Doped with Vanadium Ion
(Chiba Institute of Technology) ○Hiroki Inoe・Hirobumi Shibata・Kazuaki Hashimoto

1J20　*In vivo* evaluation of hydroxyapatite ceramics including bone minerals
(Meiji University) ○Tomohiro Yokota・Takuya Miki・(Meiji University・Kanagawa Academy of Science and Technology) Yuki Chibu・Toshiisa Konishi・(Kanagawa Academy of Science and Technology) Minori Mizumoto・Michiyo Honda・(Keio University) Haruki Funao・Yoshiaki Toyama・(Kanagawa Academy of Science and Technology・Keio University) Ken Ishii・Morio Matsumoto・(Meiji University・Kanagawa Academy of Science and Technology) Mamoru Aizawa

Bioceramics / 生体骨・歯

(14：00) (Chairman　菊池正紀)

1J21　Electrical properties of bone as reservoirs
(Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University) ○Miho Nakamura・Rika Yokoo・(Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University・Kawakita General Hospital) Soichiro Itoh・(Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University) Wei Wang・Naohiro Horiuchi・Akiko Nagai・Kimihiro Yamashita

1J22　Microstructural Characterization of the Enameloid of Shark teeth
(Tohoku University) ○ChunLin Chen・Susumu Tsukimoto・Yuichi Ikuhara・(The University of Tokyo) Tetsuya Tohei・(Tokyo Medical and Dental University) Yoshiro Takano

Bioceramics / チタン金属

(14：30) (Chairman　菊池正紀)

1J23　Effect of shape and placement of NaOH and heat-treated titanium metal on apatite-forming ability in simulated body fluid
(Tohoku University) ○Masakazu Kawashita・Naoko Matsui・(Kyushu Institute of Technology) Toshiki Miyazaki・(Tohoku University) Hiroyasu Kanetaka

1J24　Preparation of bioactive Ti metal with visible-light photocatalytic activity
(Tohoku University) ○Masakazu Kawashita・Naoko Matsui・(Kyushu Institute of Technology) Toshiki Miyazaki・(Tohoku University) Hiroyasu Kanetaka

★★ March 17 (Sun) (Room K) ★★

Characterization / 構造解析

(13：00) (Chairman　福田功一郎)

1K17　Lanthanoid Substitution for the Infinite Layer Iron Oxide $SrFeO_2$
(Kyoto University) ○Takafumi Yamamoto・Hiroshi Ohokubo・Shota Kawasaki・Tassel Cedric・Naoaki Hayashi・Mikio Takano・Yoji Kobayashi・Hiroshi Kageyama・(NIMS) Yoshitaka Matsushita・(ANSTO) Hester James・Avdeev Maxim

1K18　Crystal Structure and Electron-Density Distribution of Perovskite-type Oxynitrides $ATaO_2N$ (A =Ba, Sr, Ca)
(Tokyo Institute of Technology) ○Tomohiro Sekikawa・Kazuki Omoto・Asobu Goto・Kazuho Shimada・Kotaro Fujii・Masatomo Yashima

Characterization / ガラス・フォトニクス材料解析

(13：30) (Chairman　福田功一郎)

1K19　Analysis of fluorescence and Raman spectroscopy in Sm and Ho doped ZrO_2 and $CaZrO_3$　(Ryukoku University) ○Kazuro Kizaki

1K20　Analysis for site Preference of Eu^{3+} in $ATiO_3$(A=Ca,Sr,Ba):Eu^{3+} phosphor with different crystal system
(Ryukoku University) ○Chihiro Tani・Hiroaki Honda・Akihito Nakata・Yusuke Yamauchi・Tatsuya Shirakami

(14：15) (Chairman　八島正知)

1K22　Electron density distribution and crystal structure of $Li(Ta_{0.89}Ti_{0.11})O_{2.945}:Eu^{3+}$
(Nagoya Institute of Technology) ○Tomohiro Uchida・(Toyohashi University of Technology) Shiho Suehiro・Hiromi Nakano・(Nagoya Institute of Technology) Toru Asaka・Koichiro Fukuda

1K23　Raman spectroscopy investigation of the coordination structure of sulfate ions in soda-lime glass melts
(Tokyo Institute of Technology) ○Hirotaka Kamano・Tetsuji Yano・Tetsuo Kishi・Shuichi Shibata

1K24　Formation and Analysis of Vitrification of Glass Beads with Pseudo-Radioactive Wastes
(Tokyo Institute of Technology) ○Keita Watanabe・Naoko Ikezi・Tomohiro Amagasa・Tetsuji Yano・Kenji Takeshita・(Japan Nuclear Fuel Limited) Kazuhiro Minami・Eiji Ochi

★★ March 17 (Sun) (Room P) ★★

Enginieering ceramics

1P001 Optimized conditions for the layered zirconium hydroxides formation toward the zirconia nanosheets preparations
（Tokyo Institute of Technology）○Yuta Okaga・Ken-ichi Katsumata・Kiyoshi Okada・Nobuhiro Matsushita

1P002 Evaluation of carbon structure in conductive ceramics/carbon composite prepared by gelcasting method
（Nagoya Institute of technology）○Tomoshi Kumazawa・Takashi Shirai・Masayoshi Fuji・Chika Takai

1P003 Effects of Strong Magnetic Field and Sintering Methods on the Microstructure of Al_2O_3/SiC Nanowires Composites
（Tokyo Institute of Technology）○Noppasint Jiraborvornpongsa・Masamitsu Imai・Katsumi Yoshida・Toyohiko Yano・（National Institute for Materials Science）Tohru S. Suzuki・Yoshio Sakka

1P004 Compressive deformation behavior of Ti_3AlC_2 fabricated by hot pressing
（Gifu University）○Masafumi Kasuya・Michiyuki Yoshida・（Gifu Prefectural Ceramics Research Institute）Seizo Obata・Kazumasa Kurachi・（Gifu University）Osamu Sakurada

1P005 Fabrication of SiC/TiB_2 composites with low electrical resistivity by reaction sintering
（Kagawa University）○Kazuaki Furutani・Takafumi Kusunose・（Tohoku University）Tohru Sekino

1P006 Fabrication of Ceramic Nano-fibers by Catalyst-Assisted Pyrolysis in a Porous SiOC Derived from a Preceramic Polymer
（Japan Atomic Energy Agency）○Akira Idesaki・（University of Padova）Paolo Colombo

Dielectric material / 産官学ミキシングセッション

1P007M Pseudo tetragonal structure in $BaTiO_3$ thin film grown on (110)-oriented $SrTiO_3$ substrate
（Tokyo Institute of Technology）○Takao Shimizu・Dai Suwama・Hiroki Taniguchi・Tomoyasu Taniyama・Mitsuru Itoh

1P008M Yb^{3+}-doped and Sm^{3+}-doped $BaTiO_3$ prepared by a water soluble precursor method
（Yamagata University）○Yuta Matsushima・Takuya Tanaka・Shinnosuke Kasuga

Dielectric material

1P009 Retention characteristics in $(Bi,Pr)(Fe,Mn)O_3$ thin films at high temperature
（The University of Kanazawa）○Keisuke Nomura・Yukihiro Nomura・Takashi Tachii・Takeshi Kawae・Akiharu Morimoto

1P010 Analysis of Mössbauer Spectra for ^{57}Fe-enriched $BiFeO_3$ Thin Films Fabricated on SiO_2/Si Substrates
（Shizuoka Institute of Science and Technology）○Kiyotaka Tanaka・Daichi Sano・Yoshinori Tsukamoto・Yutaka Yoshida・（Tokyo University of Science）Soichiro Okamura

1P011 Effect of Eu^{3+} doping electrical properties of Eu-substituted $(Bi_{3.25}Nd_{0.75})Ti_3O_{12}$ nanoplates
（University of Hyogo）○Takuya Kugimiya・Masahumi Kobune・Ryo Kishimoto・Yusaku Kaneko・Satoshi Ueshima・Hiroshi Nishioka・Takeyuki Kikuchi

1P012 Fabrication and structural characteristics of Eu^{3+} substituted $(Bi_{3.25}Nd_{0.75})Ti_3O_{12}$ nanoplates.
（University of Hyogo）○Yusaku Kaneko・Masahumi Kobune・Ryo Kishimoto・Takuya Kugimiya・Satoshi Ueshima・Hiroshi Nishioka・Takeyuki Kikuchi

1P013 Preparation and dielectric properties of $Bi_{1-x}Sb_{1+x}O_4$ （Tokyo University of science）○Yuto Fujikura・Shigeru Ito・Kenjiro Fujimoto

1P014 Ferroelectric properties of $Bi_{0.5-0.5x}Na_{0.5-0.5x}Sr_xTi_{1-x}Zr_xO_3$ ceramics （Meijo University）○Tohru Moriyama・Hirotaka Ogawa・Akinori Kan

1P015 Giant electric-field-induced strain in $(Bi,Na)TiO_3$–$BaTiO_3$ ferroelectric single crystals
（The University of Tokyo）○Motohiro Ogino・Kiyotaka Hirano・Yuuki Kitanaka・Yuji Noguchi・Masaru Miyayama・（Hiroshima University）Chikako Moriyoshi・Yoshihiro Kuroiwa

1P016 Grain orientation of hot-forged $Bi_{7-x}Sr_xTi_{3+x}Fe_{3-x}O_{21}$ ceramic （Meijo University）Hirotaka Ogawa・○Tohru Moriyama・Akira Tomita・Akinori Kan

1P017 Microstructurecontrol of Barium Titanate Nanoparticles with Necking Structure/Polymer Complex and Dielectric Properties
（University of Yamanashi）○Shuhei Tsukamoto・Eigo Kobayashi・Koichi Nakashima・Takahiro Takei・Nobuhiro Kumada・Satoshi Wada・（National Institute for Material Science）Tohru Suzuki・Tetsuro Uchikoshi・Yoshio Sakka

1P018 Property, ferroelectric characteristics and crystal structure of $(K_xNa_{1-x})(Nb_{1-y}M_y)O_3$ (M=Mo,W) ferroelectric ceramics
（Tokyo Univ. of Science）○Koji Miyoshi・Naoto Kitamura・Yasushi Idemoto

1P019 Preparation of $Ba_{1-x}Sm_{2x/3}Nb_2O_6$ ceramics and second harmonic generation
（Nagaoka National College of Technology）○Yutaka Iwai・Syuhei Yamazaki・（Nagaoka University of Technology）Futoshi Suzuki・Tsuyoshi Honma・Takayuki Komtsu

1P020 Crystal structure and microwave dielectric properties of spinel-structured $[Mg_{1-x}Ga_x](Mg_xGa_{2-x})O_4$ ceramics
（Meijo University）○Akinori Kan・Hirotaka Ogawa・Tohru Moriyama

1P021 Preparation and dielectric property of $(Na_{0.88}Ba_{0.12})(Nb_{0.88}Ti_{0.12})O_3$
（University of Yamanashi）○Naoko Ito・Nobuhiro Kumada・Akira Miura・Takahiro Takei・Satoshi Wada

1P022 Fabrication of high resistivity ceramics by chemical composition ratio control
（The University of Yamanashi）○Katsuya Inaba・Ichiro Fujii・Shintaro Ueno・Kouichi Nakashima・Satoshi Wada・（Konoshima Chemical Industry）Yuichi Yamamoto・（Hayashi Chemical Industry）Hiroshi Hayashi

1P023 Piezoelectric properties of ternary $Pb(Mn_{1/3}Nb_{2/3})O_3$-$PbZrO_3$-$PbTiO_3$ system solid solutions
（University of Hyogo）○Haruka Okuda・Masafumi Kobune・Hiroshi Nishioka・Takeyuki Kikuchi

1P024 Crystal Growth and domain-structure control for Ca-substituted $BaTiO_3$ single crystals
（The University of Tokyo）○Ryota Imura・Yuuki Kitanaka・Takeshi Oguchi・Yuji Noguchi・Masaru Miyayama・（Hiroshima University）Chikako Moriyoshi・Yoshihiro Kuroiwa

1P025 Defect control for Mn-doped $BaTiO_3$
（The University of Tokyo）○Yuki Ichikawa・Shotaro Ishikawa・Yuuki Kitanaka・Takeshi Oguchi・Yuji Noguchi・Masaru Miyayama・（Japan Atomic Energy Agency）Yasuhiro Yoneda

1P026 Relationship between the average and local structure and the ferroelectric properties of $(Pb,La)(Zr,Ti,Nb)O_3$
（Tokyo University of Science）○Takao Kanno・Naoto Kitamura・Yasushi Idemoto

1P027 Fabrication of oxide film capacitors by water lift-off process
（Kanazawa University）○Takahiro Niwa・Tomoki Nishimura・Takeshi Kawae・Akiharu Morimoto

1P028 Polarization Properties of Self-supported Bismuth Sodium Titanate Thick Films Prepared by Aerosol Deposition Method
（National Institute of Advanced Industrial Science and Technology）○Muneyasu Suzuki・Jun Akedo

1P029 Synthesis and optical properties of oxynitride $LaTi_{1-x}Nb_x(O,N)_3$ aimed at new red-colored inorganic pigments
（The University of Tokushima）○Satoshi Kataoka・Yuuya Takahashi・Katsuya Shiozaki・Keiichiro Murai・Toshihiro Moriga

1P030 Abnormal Grain Growth Mechanism in $BaTiO_3$ Ceramics
（Department of Materials Science, National Sun Yat-Sen University）○Chih-Hung Nien・
（Department of Materials Science, National Sun Yat-Sen University）Hong-Yang Lu

1P031 Ferroelectric characteristics, crystal structures of $(1\text{-}x)Bi_{0.5}(Na_{0.7}K_{0.25}Li_{0.05})_{0.5}TiO_3\text{-}xKNbO_3$ ferroelectric ceramics.
（Tokyo University of Science）○Hiroshi Sumida・Naoto Kitamura・Yasushi Idemoto

1P032 Crystal structure refinement of $(Ba_{1-x}Bi_x)Ti_{1-x}Yb_xO_3$ $(0 \le x \le 0.04)$
（Yamanasi University）○Keisuke Ogura・Nobuhiro Kumada・Takahiro Takei・Akira Miura・Satoshi Wada・
（Hiroshima University）Yoshihiro Kuroiwa・Chikako Moriyoshi・Eisuke Magome

Electroconductive material

1P033 Fabrication of Transparent and Conductive Zinc Oxide Films by Chemical Bath Deposition Method
（Keio University）○Takahiro Morita・（National Institute of Advanced Industrial Science and Technology）
Eiji Hosono・Hao-shen Zhou・（Keio University）Shinobu Fujihara

1P034 Ga doping of spin-sprayed ZnO films for Lower Resistivity
（Tokyo Institute of Technology）○Naoki Sugimoto・Jonsu Hon・Kenichi Katsumata・Kiyoshi Okada・Nobuhiro Matsushita

1P035 Crystal structure and electrical conduction of La-doped $Ba_{1-x}Sr_xSnO_3$
（Kochi National College of Technology）○Masahiro Yasukawa・（Kyushu Institute of Technology）Yuhei Shimizu・Kazushige Ueda

1P036 Deposition of IGZO thin films by DC facing targets sputtering method
（The University of Tokushima）○Masaya Nishimoto・Humiki Nishitani・Keiitiro Murai・Toshihiro Moriga

1P037 Optical Properties and Preparation of Niobium Oxides thin films by Sputtering Method
（Kagawa-NcT）○Go Sajiki・Msachi Yoda・Ryouya Morita・Hiroshi Okano・（Okayama Univ.）Yasuhiko Benino・Tokuro Nanba

1P038 Preparation of Cr-SiC/Cr/Cr-SiC high-temperature strain sensitive films
（Technology Research Institute of Osaka Prefecture）○Yoshiharu Kakehi・Kazuo Satoh・Takashi Matsunaga・Tadaoki Kusaka・
（Nippon Liniax Co. Ltd.）Mitsuteru Matsumoto・Hiroshi Takenaka・Mikio Sawamura

1P039 Effect of Carbon Addition on Electrical Properties of PTCR-$BaTiO_3$ Fabricated by Using SiO_2 as Sintering Aids
（Kyoto Institute of Technology）○Kazuki Ymamoto・Nobuyuki Takeuchi・Hisayoshi Kobayashi

1P040 Effect of Gd Addition on the Electrical Properties of $BaTiO_3$-$(Bi_{1/2}Na_{1/2})TiO_3$
（Kyoto Institute of Technology）○Masaaki Furukawa・Nobuyuki Takeuchi・Hisayoshi Kobayashi

1P041 Study of dence sintered body preparation of gallo-titanogallate type $K_xGa_8Ga_{8+x}Sn_{16-x}O_{56}$
（Tokyo University of Science）○Tomoyuki Ushiroyama・Shigeru Ito・Kenjiro Fujimoto

1P042 Effect of Carbon Addition on Electrical Properties of PTCR-$BaTiO_3$ Fabricated by Using TiO_2 as Sintering Aids
（Kyoto Institute of Technology）○Yuji Kitano・Nobuyuki Takeuchi・Hisayoshi Kobayashi

1P043 Conduction properties of carrier ion-exchanged NASICON-type glass-ceramics
（Kogakuin University）○Haruki Katou・Naoya Yoshida・（Tokyo Medical and Dental University）
Kimihiro Yamashita・（Kogakuin University）Toshinori Ookura

1P044 Lithium ion-conducting properties for laminated thin films of montmorillonite nanosheets
（The University of Tokyo）○Kazuya Otsu・Shinya Suzuki・（The University of Tokyo・JST-CREST）Masaru Miyayama

1P045 Fabrication and characterization of graphene field effect transistor for detection of VOCs
（Tokyo Institute of Technology）○Takayuki Aoyagi・Cross Jeffrey S.・Yuhei Hayamizu・Tomohiko Yoshioka・Toshiyuki Ikoma・Junzo Tanaka

1P046 Broadband Conductivity Spectra on Al-Yb Co-doped Zirconia Ceramics
（Okayama University）○Nami Matsubara・Takashi Teranishi・Hidetaka Hayashi・Akira Kishimoto

1P047 Electrical property of YSZ oxygen sensor with $(La,Sr)(Co,Ni)O_3$ thin-film electrode at low temperature
（Tokyo Institute of Technology）○Kazuto Nagahara・Taku Ebisawa・Junichi Hamasaki・Tadashi Shiota・
（Shizuoka University）Naoki Wakiya・（Tokyo Institute of Technology）Osamu Sakurai・Kazuo Shinozaki

1P048 Investigation of nitridation mechanism for indium oxide by ammonia
（Shibaura Institute of Technology University）○Takashi Miyahara・Hajime Kiyono

1P049 Li ion conductivity on Nd-doped $(Li, La)TiO_3$ ceramics
（Okayama University）○Michihiro Yamamoto・Takashi Teranishi・Hidetaka Hayashi・Akira Kishimoto

Magnetic material

1P050 Direct Patterning of Ferrite Pattern using Inkjet Method
（Tokyo Institute of Technology）○Toshiyuki Takahashi・Taiki Ihara・Kenichi Katsumata・Kiyoshi Okada・Nobuhiro Matsushita

1P051 Complex permeability of $Sr_3Co_{2-x}Zn_xFe_{24}O_{41}$
（University of Hyogo）○Takeyuki Kikuchi・Takuya Tainaka・Tatsuya Nakamura・Tohru Yamasaki・（Okayama University）
Makoto Nakanishi・Tatsuo Fujii・Jun Takada・（Institute of Production Deveropment）Yasunori Ikeda

1P052 Fabrication of and properties of FeO_x thin films grown by PLD method
（Tokyo Institute of Technology）○Kento Teraguchi・Yousuke Hamasaki・Takao Shimizu・
Hiroki Taniguchi・Tomoyasu Taniyama・Kouichi Yasuda・Mitsuru Itoh

1P053 Fabrication and magnetic properties of magnetic oxides with CB-type nanostructures
（Osaka Prefecture University）○Kazuhiro Yoneda・Shigeo Mori

1P054 High-pressure synthesis $BiFeO_3$-$BiAlO_3$ and $BiFeO_3$-$MnTiO_3$ solid solution
（Nagoya University）○Gen Shimura・Keiji Kusaba・Tetsuya Miyawaki・Ken Niwa・Hidefumi Asano・Masashi Hasegawa

Glass and photonic materials

1P055 Synthesis of Layered Yttrium Hydroxide Films and Their Application as Photosensing Materials
（Keio University）○Takashi Yagami・Shinobu Fujihara

1P056 Fabrication of photochromic WO_3 based composite films and effect of added metal ions on photochromic property
（Shimane University）○Hidetoshi Miyazaki・Masaya Inada・（Shizuoka University）Hisao Suzuki・（Nagoya Institute of Technology）Toshitaka Ota

1P057 Synthesis and fluolescence properties of Tb^{3+} doped magnesium silicate incorporated aluminate phosphor
（Nihon University）Yoshiyuki Kojima・○Sota Iwamura・Tetuso Umegaki

1P058 Influence of the Additive on Luminescence Properties of a Phosphor by utilizing a Scallop Shell
（Hokkaido Industrial Technology Center）○Isao Shimono・Maya Sawada・Shiro Takahashi・（Hakodate National College of Technology）Jyunya Kobayashi・（Hokkaido University）Yasuaki Takagi

1P059 Fabrication of thermochromic composite films using VO_2 fine particles and translucency resin
（Shimane University）○Yusuke Iiguni・Hidetoshi Miyazaki・Youhei Yamauchi・（Shizuoka University）Hisao Suzuki・（Nagoya Institute of Technology）Toshitaka Ota・Nobuyasu Adachi・（Kyusyu University）Yumi Tanaka

1P060 Low-temperature heat-capacity measurementsof ZnO-P_2O_5 glasses
（The university of Tohoku）○Shuta Ishizeki・Kensaku Nakamura・Rie Ihara・Yoshihiro Takahashi・Takumi Fujiwara

1P061 Photoluminescence properties of $Ba_3MgSi_2O_8:Eu^{2+}$ under 405 nm light excitation （Tokyo Kagaku Kenkyusho Co., Ltd.）○Shinji Okamoto

1P062 Synthesis and Luminescent properties of $Ba_3Si_6O_{12}N_2$-type Oxynitride phosphors
（The University of Tokushima）○Yuma Ogita・Hiroshi Fuzigaki・Fumika Bando・Keiichirou Murai・Toshihiro Moriga

1P063 Luminescence properties of $M_3(PO_4)_2:Gd^{3+}$ (M = Ca, Sr, Ba) and $Sr_3(PO_4)_2:Pb^{2+}$ upon VUV excitation
（The Unicersity of Gakushuin）○Raita Horiguchi・Yoshiyuki Inaguma・Shuuhei Sasaki・Daisuke Mori

1P064 Fabrication of nanoimprinted glass using natural material molds
（Tokyo Institute of Technology）○Naoya Inoue・Geng Tan・（SCIVAX Corporation）Norimichi Okuda・（Kyodo International Incorporation）Hideo Oi・Masahiro Mita・（Tokyo Institute of Technology）Akifumi Matsuda・Mamoru Yoshimoto

1P065 Crystallization and physical property of Bi_2O_3-Fe_2O_3-B_2O_3-SiO_2-BaO system glasses
（Tohoku University）○Teppei Takahashi・Kosuke Meguro・Yoshihiro Takahashi・Rie Ihara・Takumi Fujiwara

1P066 Structure analysis of Na_2O-$BO_{1.5}$-Re_2O_3 glasses by molecular dynamics method
（Muroran Institute of Technology）○Yoshitaka Itoh・Naoya Sawaguchi・Makoto Sasaki

1P067 Structural analysis of Li ion conductivity glasses by molecular dynamics method
（Muroran Institute of Technology）○Yuya Okawa・Naoya Sawaguchi・Makoto Sasaki

1P068 Relationship between hot-electron-Behavior and internal quantum efficiency on inorganic EL devices
（Meiji University）○Tomoki Horiguchi・Yuma Iwata・Noboru Miura・Hironaga Matsumoto

1P069 Devitrification of glass-ceramics with fresnoite-type $Sr_2TiSi_2O_8$ in SrO-TiO_2-SiO_2 system
（Tohoku University）○Kazuya Takano・Kazuki Yamaoka・Yoshihiro Takahashi・Rie Ihara・Takumi Fujiwara

1P070 Effect of Oxide Addition on Fluorescence and Water Durability of Tin Phosphate Glasses
（Okayama university）○Satoshi Fukui・Shinichi Sakida・Yasuhiko Benino・Tokuro Nanba

1P071 Crystallization behavior of rare-earth doped $Bi_2ZnB_2O_7$ glasses
（Nagaoka University of Technology）○Xuyi Gao・Taisuke Inoue・Tsuyoshi Honma・Takayuki Komatsu

1P072 Synthesis of sodium ion rechargeable battery cathode active materials by glass crystallization method
（Nagaoka University of Technology）○Atsushi Sato・Tsuyoshi Honma・Takuya Togashi・Takayuki Komatsu

1P073 Preparation and optical properties of $MgGeO_3:Mn^{2+}$ red phosphor thin films
（Ritsumeikan University）○Tomoe Sanada・Yuuki Kitagawa・（Industrial Research Center of Shiga Prefecture）Kazuhiro Yamamoto・（Suzuka National College of Technology）Noriyuki Wada・（Ritsumeikan University）Kazuo Kojima

1P074 Temperature dependence of the density of xNa_2O-$(4\text{-}x)B_2O_3$-$8SiO_2$ (x=4, 3, 2) glass melts
（University of Shiga Prefecture）○Junki Katsuki・（Akita University）Toru Sugawara・（University of Shiga Prefecture）Jun Matsuoka・Satoshi Yoshida・（Japan Nuclear Fuel Limited）Kazuhiro Minami・Eiji Ochi

1P075 Crystal structure of $(Eu_{1-x}Y_x)_2WO_6$ red phosphors by using fine crystals
（National Defense Academy）○Atsushi Aruga・Shinichiro Ozawa・（Rigaku Corp.）Hiroyasu Sato

1P076 Structural analysis of borate-based multicomponent glasses by X-ray and neutron diffractions and XAFS
（Okayama University）○Yuya Hozaki・Shinichi Sakida・Yasuhiko Benino・Tokuro Nanba・（Hiroshima University）Yoshio Takahashi・（JGC corporation）Atsushi Mukunoki・Tamotsu Chiba・Takahiro Kikuchi・（Radioactive Waste Management Funding and Research Center）Tomofumi Sakuragi

1P077 Structural changes of borosilicate glass by Deep UV laser irradiation
（The University of Shiga Prefecture）○Hayato Matsumoto・Satoshi Yoshida・Jun Matsuoka・（Akita University）Toru Sugawara

1P078 Preparation and infrared luminescence property of plate-like nano-phosphors from (Nd^{3+},Ce^{3+}) exchanged zeolites
（Industrial Technology Center of Tochigi Pref.）○Sakae Kato・Taiji Matsumoto・Kenichi Matsumoto・（Yoshizawa Lime Industry Co.,Ltd.）Takeshi Kawashima・Tatsuya Okamura・（Ryukoku University）Yoshiaki Goto

1P079 Synthesis and PL intensity of Li-M-Ti-O (M: Nb or Ta) phosphor
（Toyohashi University of Technology）○Sshiho Suehiro・Hiromi Nakano・（KRI, Inc）Hiroyuki Hayashi・（DENKA, Co., Ltd.）Suzuya Yamada・（Keio University）Shinobu Fujihara

1P080 Crystal structures and optical properties of new melilite-type oxides $Eu_2MSi_2O_7$ (M = Mg, Mn)
（Hokkaido University）○Takashi Endo・Yoshihiro Doi・Makoto Wakeshima・Yukio Hinatsu・Eri Sakuda・Noboru Kitamura・（Utsunomiya University）Keitarou Tezuka

1P081 Crystallization process and microstructure of Ag nano-particles precipitated transparent mica glass-ceramics
（Shinshu University）○Aya Mizoguchi・Tomohiko Yamakami・Tomohiro Yamaguchi・Seiichi Taruta・（Tokyo Institute of Technology）Kiyoshi Okada

1P082 Optical properties of La_2O_3-B_2O_3 glasses prepared by containerless processing
（Shibaura Institute of Technology）○Takashi Iwata・Katuhisa Nagayama・（The University of Tokyo）Atunobu Masuno・Hiroyuki Inoue

1P083 Effects of B_2O_3 addition on red long-lasting afterglow of Mn^{2+}-doped GeO_2-Li_2O-ZnO glasses
（Suzuka National College of Technology）Fumito Mizutani・Nobufumi Miyazaki・○Noriyuki Wada・（Ritsumeikan University）Tomoe Sanada・Kazuo Kojima

Bioceramics

1P084 Specific binding of immunoglobulin G to protein A-mesoporous silica composites for affinity column chromatography
（Mie University）○Kazuma Nakanishi・Masahiro Tomita・（National Institute of Advanced Industrial Science and Technology）Hitomi Nakamura・Katsuya Kato

1P085 Oxide Nanotube Fabrication on Ti-Nb-Ta-Zr Alloy Surface by Anodization and Apatite Induction
（Tokyo Institute of Technology）○Fumihiko Chimoto・Chun-Yi Chen・Ken-ichi Katsumata・Kiyoshi Okada・Nobuhiro Matsushita・（Tohoku University）Junko Hieda・Masaaki Nakai・Mitsuo Niinomi

1P086 Encapsulation of enzymes inside aluminum silicate nanotube gel and their catalytic properties
（National Institute of Advanced Industrial Science and Technology）Norito Morishita・○Katsuya Kato・Hitomi Nakamura・Keiichi Inukai・（Nagoya Institute of Technology）Kie Fujikura・Toshihiro Kasuga

1P087 Catalytic performance of bakers yeast and its cell free immobilized on sol-gel silica materials
（National Institute of Advanced Industrial Science and Technology）○Katsuya Kato・Hitomi Nakamura・Fukue Nagata

1P088 Fabrication of apatite – collagen composite fibers oriented by electrochemical method
（Tokyo Institute of Technology）○Noritsugu Teshiba・Tomohiko Yoshioka・Toshiyuki Ikoma・Junzo Tanaka

1P089 Deposition of calcium phosphate crystals onto polyphosphate/fish scale collagen fibrous membranes
（Department of Metallurgy & Ceramics Science Tokyo Institute of Technology）○Rena Watanabe・Tomohiko Yoshioka・Toshiyuki Ikoma・Junzo Tanaka

1P090 Preparation of chitosan/silica composite monolith surfaces for osteoblast adhesion
（Nagaoka University of Technology）○Motohiro Tagaya・Tasuku Ikarashi・（Tokyo Institute of Technology）Toshiyuki Ikoma・Junzo Tanaka・（Nagaoka University of Technology）Takaomi Kobayashi

1P091 Cytotoxicity and Cancer Imaging Abilities of the Fluorescent Porous Silica Nanospheres Immobilized with Folic Acid
（Nagaoka Universityg of Technology）○Motohiro Tagaya・（National Institute of Technology）Taro Takemura・Nobutaka Hanagata・（Tokyo Institute of Technology）Toshiyuki Ikoma・Tomohiko Yoshioka・Zhefeng Xu・Satoshi Motozuka・Junzo Tanaka

1P092 Fabrication of biomimetic hydroxyapatite and tilapia scale collagen composite fibril
（Tokyo Institute of Technology）○Naoki Yamaoka・Tomohiko Yoshioka・Toshiyuki Ikoma・Junzo Tanaka

1P093 Preparation of calcium phosphate particles adsorbed bisphosphonates for inhibition of bone resorption
（Tokyo Institute of Technology）○Shusuke Akiyama・Junzo Tanaka・Toshiyuki Ikoma・Tomohiko Yoshioka

1P094 Collagen Adsorption on Apatite Nanocrystals with Different Carbonate Contents Analyzed by SPR Technique
（Tokyo institute of Technology）○Yuri Minami・Tomohiko Yoshioka・Toshiyuki Ikoma・Junzo Tanaka

1P095 AC electrophoretic deposition of polyacrylic acid-titanium oxide composite coatings
（Tokyo Institute of Technology）○Tomohiko Yoshioka・（Katcon Institute for Innovation and Technology, KIIT）Alejandra Chavez-Valdez・（University of Erlangen-Nuremberg）Judith Roether・Dirk Schubert・Aldo Boccaccini

1P096 Immobilization of folic acid on Eu(III) doped hydroxyapatite nanocrystals for cancer diagnosis
（Tokyo Institute of Technology）○Ryohei Takeda・（Nagaoka University of Technology）Motohiro Tagaya・（Tokyo Institute of Technology）Tomohiko Yoshioka・Toshiyuki Ikoma・Junzo Tanaka

1P097 Preparation for calcium phosphate/alginate porous body with amorphous calcium phosphate （Nihon University）○Tomohiro Uchino・Yuu Yamato

1P098 Evaluation of anodized titanium photocatalyst with a different electrolytic solution （Chukyo University）○Yuki Ito・Toru Nonami

1P099 Tensile test of Nano-apatite Composite Scaffold Sheets for Evaluation of Dynamic Cell Functions
（Kinki University）○Tsutomu Furuzono・Jin Kodama・Toshifumi Ohyabu・Yuji Miyazaki・Ei Yamamoto・（Osaka Dental University）Yoshitomo Honda・Masahiro Okada・Shoji Takeda

1P100 Proliferation and morphology of chondrogenic ATDC5 cells cultured on hydroxyapatite ceramics
（Meiji University）○Yuta Miyazawa・Mamoru Aizawa

1P101 Promising adjuvants prepared by Zn/Mg-doped tricalcium phosphate and pathogen-associated molecular patterns
（National Institute of Advanced Industrial Science and Technology）○Xiupeng Wang

1P102 Assessment of protein-cell interaction with QCM-D on the hydroxyapatite thin film （The University of Tokyo）○Natsuno Matsui

1P103 Evaluation on tensile strength and cell compatibility of siloxane-doped vaterite/poly(lactic acid) composite nonwovens
（Nagoya Institute of Technology）○Akiko Obata・Kie Fujikura・Hirotaka Maeda・Toshihiro Kasuga・（Aalto University）NOORA-MARIA Tujunen

1P104 Fabrication of oriented tilapia fish-scale collagen fiber membranes using flowing fluid
（Tokyo Institute of Technology）○Sota Hirosawa・Jyunzo Tanaka・Toshiyuki Ikoma・Tomohiko Yoshioka

1P105 Adsorption and desorption properties of protein on montmorillonite
（Kitami Institute of Technology）○Kasumi Kinoshita・Toru Kanno・Jun-ichi Horiuchi

1P106 Control of a physical crosslinking in an Apatite-Collagen Composite by using Gamma-ray Irradiation
（Tokyo Institute of Technology）○Takashi Yoshida・Tomohiko Yoshioka・Toshiyuki Ikoma・Junzo Tanaka

Environment and energy related material

1P107S Synthesis and characterization of transition metal doped brookite-type TiO_2 （Tokyo City University）○Shohei Ozu

1P108 Adsorption Property of the Rare Earth Metals by Inorganic Compounds
（University of Yamanashi）○Iiduka Kiyoaki・Ayuka Sogo・Takahiro Takei・Akira Miura・Nobuhiro Kumada

1P109 Removal property of cesium ion using calcium silicate compounds （University of Hyogo）○Tatsuo Inoue・Hiroshi Nishioka・Masafumi Kobune

1P110 Hydrophilic–Hydrophobic Patterned Films Fabricated by Screen Printing Processes using Metal Oxide Sols
（Nihon University）○Sadaaki Kato・Noriko Wada・Toshikazu Nishide

1P111 Photocatalytic Conversion of CO_2 over Co-catalyst Doped LDH
（Tokyo Institute of Technology）○Kei Ikeda・Ken-ichi Katsumata・Toshihisa Isobe・Nobuhiro Mastushita・Kiyoshi Okada

1P112 Synthesis of a novel oxynitride $Ba_3Ta_5O_{14}N$ with a tetragonal tungsten bronze structure and its photocatalytic properties
（Tohoku University）○Katsuya Shimizu・Hideki Kato・Makoto Kobayashi・Masato Kakihana

1P113 Preparation of High Hardened Alumina Films using Bridged Type Fibrou Sols with a Silicone Compound of Si-Si Structure
（Nihon University）○Yumi Matsukawa・Toshikazu Nishide・（Kawaken Fine Chemicals Co., Ltd.）Naofumi Nagai・（AIST）Yukiya Hakuta・Fujio Mizukami

1P114 Facile Synthesis of Marshmallow-like Gels and Their Application
（Kyoto University）○Gen Hayase・Kazuyoshi Kanamori・George Hasegawa・Ayaka Maeno・Hironori Kaji・Kazuki Nakanishi

1P115 Synthesis & Characterization of Photocatalytic Ti-Substituted Strontium Vanadate Hydroxyapatite
（Fujitsu Laboratories Ltd.）○Mineharu Tsukada・Masato Wakamura・Toshihisa Anazawa・Nawalage F. Cooray

1P116 The humic substances adsorption capacity of hydrogarnet with different surface properties
（Nagoya Institute of Technology）○Hirotaka Maeda・Tomoaki Nakamura・Masanobu Nakayama・Toshihiro Kasuga・（Tohoku University）Yuichi Kurosaki・Hideki Ishida

1P117 Synthesis and Photocatalytic Conversion of CO_2 over Titania Nanotubes
（Tokyo Institute of Technology）○Eitarou Tamaru・Kenichi Katsumata・Nobuhiro Matsushita・Kiyoshi Okada

1P118 Characterization and strontium ion removal property of calcium silicate adsorbent synthesized from inorganic wastes
（University of Hyogo）○Naoki Taruma・Hiroshi Nishioka・Masafumi Kobune

1P119 Control of specific surface of tantalum-based oxide photocatalysts and their photocatalytic water splitting activity
（Tokai University）○Ryo Taniguchi・Souiti Takasugi・Kouji Tomita・（Tohoku University）Hideki Kato・Masato Kakihana

1P120 Preparation of tridymite aluminum orthophosphate ($AlPO_4$) on alumina and its catalytic activity
（Taki chemical Co., Ltd.）○Sadanobu Sumiya・Hitoyuki Idutsu

1P121 Evaluation of radioactive substance adsorption on silicate/apatite composite
（The University of Ibaraki）○Eri Oowada・Tomohiro Hoshino・Kazuhide Ozeki・Toru Masuzawa・（International Apatite Institute）Hideki Aoki

1P122 Synthesis and Water Splitting Activity of Co-catalyst Doped Niobium Oxide Nano-sheets
（Tokyo Institute of Technology）○Keisuke Kojima・KEN-ICHI Katsumata・（Shinsyu University）Hajime Wagata・（Tokyo Institute of Technology）Nobuhiro Matsushita・Kiyoshi Okada

1P123 Investigation of $A_8B_2Ge_6O_{26}$(A:La.Nd.Gd) (B:Ba.Sr.Ca) photocatalytic activity for water splitting （Tokyo City University）○Kohei Maki

1P124 Preparation of Fe–hollandite oxides and its nitrogen monoxide adsorption property
（Tokyo University of Science）○Mika Ohki・Shigeru Ito・Kenjiro Fujimoto

1P125 Nitrogen monoxide adsorption property of aggregated titania nanosheet
（Tokyo University of Tokyo）○Ryota Imaki・Kenjiro Fujimoto・Shigeru Ito

1P126 Preparation of of Lepidocrocite-type Layered Titanate with Partial Substitution by Period-four Transition Metal
（University of Yamanashi）○Takuma Ohhashi・Takahiro Takei・Akira Miura・Nobuhiro Kumada

1P127 Dependence of Formation Temperature of Calcium Aluminate on the Starting Material
（University of Yamanashi）○Maho Nakamura・Takahiro Takei・Akira Miua・Nobuhiro Kumada・（Ogihara INC.）Kiyohiko Ogihara

1P128 Adsorption of iodine on magnesium compounds and immobilization of iodine with phosphate glass
（Kogakuin University）○Ryo Kadokura・Naoya Yoshida・Toshinori Okura

1P129 PHOTOCATALYTIC ACTIVITIES OF $RbLaNb_{2-2x}Ti_xW_xO_7$ LAYERD PEROVSKITE
（University of Yamanashi）○Nan Xu・Takahiro Takei・Akira Miura・Nobuhiro Kumada

1P130 Effects of heating and pressing on the geopolymerization
（Nagoya Institute of technology）○Hiromu Matsui・Shinobu Hashimoto・Hayami Takeda・Sawao Honda・Yuji Iwamoto

1P131 Preparation of titanium oxide modified silica fiber by CVD method and its photocatalytic activity
（Hachinohe National College of Technology）○Masaki Naijo・Akira Hasegawa

Energy reference material

1P132 Preparation of $Li_7La_3Zr_2O_{12}$ thin films with oxide sols.
（Taki Chemical Co., Ltd）○Taketoshi Kuroda・Izutsu Hiroyuki・（Osaka Prefecture University）Kiyoharu Tadanaga・Akitoshi Hayashi・Masahiro Tatsumisago

1P133 $LaCoO_3$ synthesis by citrate combustion method and the application to the apatite type solid electrolyte
（The University of Hosei）○Shunya Mihara・Takaya Akashi・（National Institute for Materials Science）Kiyoshi Kobayashi・Yoshio Sakka

1P134 Examination of the seed layer in a ZnO nanorod dye-sensitized solar cell
（Tokyo City University）○Yuji Tanaka・Yusuke Noguchi・Masayuki Nagai

1P135 Synthesis and battery property of partially substituted MnO_2 nanosheet
（Tokyo University of Science）○Daiki Kumada・Shigeru Ito・Kenjiro Fujimoto

1P136 Diffusion of Li-ion in the thin film of stacked oxide nanosheets in the direction perpendicular to the film plane
（The University of Tokyo）○Shinya Suzuki・Masaru Miyayama

1P137 Control of polymorph and particle size of TiO_2 for dye-sensitized solar cell
（Tokai University）○Miwako Furue・Yuma Matsumoto・Koji Tomita・Yuki Shimoyama・Yoshihito Kunugi・（Tohoku University）Masato Kakihana

1P138 Fabrication and characterization of Mg_2Si thin films by RF magnetron sputtering
（Osaka Municipal Technical Research Institute）○Junichi Tani・Hiroyasu Kido

1P139 Preparation of MgB_2 containing ZnO thin films by PLD
（Tokyo Institute of Technology）○Noriko Kumagai・Geng Tan・Hirokazu Nakai・（TOSHIMA Manufacturing Co., Ltd）Nobuo Tsuchimine・Susumu Kobayashi・（Kanagawa Ind. Tech. Center）Satoru Kaneko・（Osaka Institute of Technology）Tokuo Yodo・（Tokyo Institute of Technology）Akihumi Matsuda・Mamoru Yoshimoto

1P140 Preparation and characterization of YSZ/GDC bi-layer electrolyte by ion beam sputtering method
（Tokyo City University）○Kenji Deguchi・Tatsuo Sugiyama・Masayuki Nagai

1P141 Growth mechanism of Pt thin film deposited on stepped various oxide substrates by PLD method
（Tokyo Institute of Technology）○Hiroki Ito・Tadashi Shiota・（Shizuoka University）Naoki Wakiya・（Tokyo Institute of Technology）Osamu Sakurai・Kazuo Shinozaki

1P142 Synthesis and evaluations of $Li(Ni_{2/3}Mn_{1/3})O_2$ using NaCl Flux
（The University of Tokushima）○Ryo Ogawa・Jyunichi Nishiyama・Ko-taro Yoshioka・Kiichirou Murai・Toshihiro Moriga・Kouishi Nakamura

1P143 Electrochemical property improvement by ultrasonic-wave treatments for cathode active material of Li ion battery
（Tokyo University of Science）○Jun-ya Iino・Naoto Kitamura・Yasushi Idemoto

1P144 Thermoelectric Properties of TiN-added Titanium Oxide
（Akita University）○Tomoyoshi Shoji・（Akita Industrial Technology Center）Shigeaki Sugiyama・（Akita University）Kiyoshi Fuda

1P145 Composition dependence of performance, and change of crystal, electronic and local structure in charge-discharge process
（Tokyo University of Science）○Hiroshi Jo・Naoto Kitamura・Yasushi Idemoto

1P146 Stabilization of Perovskite Structure in Co-based Mixed Conductors Upon In^{3+} substitution in B-site
（Nippon Steel & Sumitomo Metal Co.）○Toru Nagai・Wataru Ito

1P147 Redox stability of proton conducting phosphosilicate glasses
（University of Hyogo）○Ren Hashino・Yusuke Daiko・Atsushi Mineshige・Tetsuo Yazawa

1P148 Synthesis and photocatalytic properties of perovskite oxides containing Sn^{2+} ion
（Gunma National College of Technology）○Kiliha Katayama・Nobuyuki Taira

1P149 Effects of Ba-site substitution on thermoelectric properties of $Ba(Fe,Ti)O_{3-\delta}$ ceramics
（Nagoya Institute of Technology）○Tomofumi Yamada・Rintaro Aoyagi・Takeshi Yokota・Manabu Gomi

1P150 Fabrication of Si_2N_2O particles by the nitridation of mixtures of silicon dioxide powders for radiative cooling
（Shimane University）○Shigeki Yoshida・Hidetoshi Miyazaki・（Shizuoka University）
Hisao Suzuki・（Nagoya Institute of Technology）Toshitaka Ota

1P151 Intermediate temperature fuel cell property of proton conducting phosphosilicate glass
（University of Hyogo）○Itaru Fukui・Yusuke Daiko・Atsushi Mineshige・Tetsuo Yazawa

1P152 Preparation of composite electrode active material films for lithium ion battery by the AD method
（Osaka Municipal Technical Research Institute）Masanari Takahashi・（Osaka Municipal Technical Research Institute・
Osaka Institute of Technology）○Takahiro Aoki・（Fuji Titan Cooperation）Akira Mukai・（Rasa Industrial Cooperation）Yuko Nakao・
（Osaka Municipal Technical Research Institute）Yasuyuki Kobayashi・Mari Yamamoto・Yukiyasu Kashiwagi・Masashi Saitoh

1P153 Thermoelectric power of homologous compounds $(ZnO)_3In_{2-x}A_xO_3$ (A=Fe,Mn) at high temperature （Tokyo City University）○Shunsuke Wada

1P154 Fabrication and electrochemical properties of SOFC single cell using porous YSZ ceramic supporter
（Chonbuk National University）○Bok-Hee Kim・（Chonbuk National University）Jae-Hak Jeong・
（Chonbuk National University）Zhao Kai・（Wuhan University of Technology）Qing Xu

1P155 Thermoelectric performance of TiS_2-baced inorganic/organic hybrid superlattice structure
（Nagoya University）○Tomohiro Ito・（Nagoya University・JST-CREST）Chunlei Wan・
（Nagoya University）Hitoshi Sasaki・（Nagoya University・JST-CREST）Kunihito Koumoto

1P156 Oxide-ion conductivity of highly *c*-axis-oriented apatite-type lanthanum silicogermanate polycrystal （Nagoya Institute of Technology）○Hiroki Mino

1P157 Preparation and Evaluation of the Young' s Modulus of Dense Pellets of Li_2S-P_2S_5 Solid Electrolytes
（National Institute of Advanced Industrial Science and Technology）○Atsushi Sakuda・（Osaka Prefecture University）
Atsutaka Kato・Motohiro Nagao・Akitoshi Hayashi・（National Institute of Advanced Industrial Science and Technology）
Tomonari Takeuchi・（Osaka Prefecture University）Masahiro Tatsumisago

1P158 Intercalation of $LiPF_6$ into graphite with high concentration electrolyte
（Kyushu University）○Hiroki Nagano・（Kyushu University・I2CNER）Hidehisa Hagiwara・Shintaro Ida・Tatsumi Ishihara

1P159 Preparation of a new Ti electrode with nano-network structure on its surface by NaOH, HCl and heat treatments
（Chubu University）○Hiroaki Takadama・Valanezhad Alireza・Seiji Yamaguchi・Rohit Khanna・
Tomiharu Matsushita・Tadashi Kokubo・（Kyushu University）Takehiro Ohta・Yoshinori Naruta

1P160 Temperature dependence of the crystal structure of the $YBaCo_4O_7$–based mixed conductors
（Tokyo Institute of Technology）○Daiki Haratake・Yi-Ching Chen・Kazuki Omoto・Kotaro Fuji・Masatomo Yashima・
（Australian Nuclear Science & Technology Organisation）James Hester・（Korea Atomic Energy Research Institute）Seongsu Lee・Su Jae Kim

1P161 Efficient Material Screening by *Ab Initio* Method + Neural Network Modeling
（Nagoya Institute of Technology）○Randy Jalem・Masanobu Nakayama

Others

1P162 Effect of LASER irradiation to organic-inorganic hybrid film and application for near-infrared absorption film
（Shibaura Inatitute of Technology）○Toma Sasaki・Tomoji Ohishi

1P163 Formation of the self-assembled monolayer on amorphous carbon thin films. （The University of Ryukoku）○Hiroaki Hara・Yoshifumi Aoi

1P164 Interaction in the Ce-Sn-O Model Catalytic System （National Institute for Materials Science）○Shunichi Hishita・Jan Beran

1P165 Functionalization of amorphous carbon thin films by adsorption of biopolymers （Ryukoku University）Takashi Okubo・○Yoshifumi Aoi

1P166 Development of the formation technique of Cu micron wiring by using organic-inorganic hybrid and electroless Cu plating.
（Shibaura Institute of Technology）○Masaya Eguchi・Tomoji Ohoishi

1P167 Fabrication and ESR characterization of transparent Al_2O_3 sintered by spark plasma sintering process
（Yamaguchi University）○Koichi Matsuo・Ayako Kai

Liquid phase process

1P168 Synthesis of highly dispered and homogeneous nanoparticles of iron oxide by solvothermal method with polymer gel
（University of Yamanashi）○Kouichi Nakashima・Shintaro Ueno・Ichiro Fujii・Satoshi Wada

1P169 Preparation of a new superconductive bismuth oxide byhydrothermal reaction
（University of Yamanashi）○Mirza Rubel・Akira Miura・Takahiro Takei・Nobuhiro Kumada

1P170 Relation between the ultrasonic frequency and the particle size in the synthesis of silver particles using ultrasound
（National Institute of Advanced Industrial Science and Technology）○Atsuya Towata・Kyuichi Yasui・Toru Tuziuti・Teruyuki Kozuka

1P171 Synthesis of iron nitrides by low-temperature nitridation of iron oxides using $NaNH_2$
（University of Yamanashi）○Akira Miura・Takahiro Takei・Nobuhiro Kumada

1P172 Preparation of glass coated magnetic nanoparticles
（National Institute of Advanced Industrial Science and Technology）○Kazuyuki Suzuki・Yoshiaki Kinemuchi・Atsuya Towata・Masaki Yasuoka

1P173 Development of the film with high gas barrier and anti-reflection and low temperature process using ultraviolet method
（Shibaura Institute of Technology）○Shimpei Sone・Ohishi Tomoji

1P174 development of flexible substrate making of DAC-silica hybrid polymer and making of color filter using ink-jet method
（shibaura institute of technology）○Tsutomu Yoshida・（shibaura institute of technology）Tomoji Ohishi

1P175 Hydrothermal synthesis of $ZnGa_2O_4:Mn^{2+}$ nanoparticles using a flow reaction system
（Nat. Inst. Adv. Indus. Sci. Tech.）○Hiromichi Hayashi・Atsuko Suino・（Bando Chemical Co. Ltd.）Kenji Shimoyama・Masafumi Takesue・（Tohoku Univ.）Suguru Tooyama・Richard Smith

1P176 Synthesis and luminescence properties of lanthanum compound nanowires
（Saga University）○Takafumi Miyaguchi・Seiya Higuchi・Yuko Inoue・Toshio Torikai・Takanori Watari・Mitsunori Yada

1P177 Calcium carbonate biomineralization utilizing a multfunctional β-sheet peptide template
（Nagoya Institute of Technology）○Kazuki Murai・Masahiro Higuchi・Takatoshi Kinoshita・Kenji Nagata・（National Institute of Advanced Industrial Science and Technology）Katsuya Kato

1P178 Synthesis and evaluation of nanoporous materials from rice hulls
（Osaka Prefecture University）Toru Tagami・（Yokohama National University）Takeshi Okutani・（Osaka Prefecture University・Kansai Center, IMR, Tohoku Univ）○Atsushi Nakahira

1P179 Solvothermal synthesis of $Ca_2Nb_2O_7$ and its photocatalytic activity
（Kyoto University）○Akitoshi Nakamura・Saburo Hosokawa・Masanobu Higashi・Kenji Wada・Ryu Abe

1P180 Synthesis and characterization of tin oxide by a solvothermal method （Tohoku University）○Kimie Imakawa・Qiang Dong・Shu Yin・Tsugio Sato

1P181 Synthesis of Pt-loaded allophane nanoparticles
（Toyota Technological Institute）○Shuichi Arakawa・Yoko Matsuura・Fumitoshi Iyoda・Shuhei Hayashi・Masami Okamoto・（Tsuchiya Co., Ltd.）Hidetomo Hayashi

1P182 Preparation of an Ammonium form γ-Zirconium Phosphate by the Liquid-Phase Deposition Process
（Waseda Univ.）○Hajime Komiyama・Gaku Kohara・Atsushi Nakata・（Waseda Research Institute for Science and Engineering）Seiichi Tahara・（Waseda Univ.・Kagami Memorial Laboratory for Materials Science and Techonology）Yoshiyuki Sugahara

1P183 $K_2Ta_2O_6$ film preparation by hydrothermal method and their optical characterization
（University of Toyama）○Atsushi Saiki・Tsuyoshi Matsuda・Takashi Hashizume

1P184 LSPR sensor property of TiO_2/Au nanoparticles multilayer film prepared by photo deposition and layer-by-layer methods
（Tokyo University of Science）○Ryu Kamada

1P185 Characterization of the zeolite-geopolymer hybrid materials
（Nagoya Institute of Technology）○Shinobu Hashimoto・Hayami Takeda・Sawao Honda・Yuji Iwamoto

1P186 Continuous synthesis of YOOH nanoparticles by flow-through hydrothermal method
（National Institute of Advanced Industrial Science and Technology・The University of Nihon・Sumiju Plant Engineering）○Takeshi Ono・（National Institute of Advanced Industrial Science and Technology）Kiwamu Sue・Yukiya Hakuta・Hiromichi Hayashi・Yoshihiro Takebayashi・Satoshi Yoda・Takeshi Furuya・（The University of Nihon）Toshiyuki Sato・Toshihiko Hiaki

1P187 Morphology Control of Zirconium Oxides by Ionothermal Method
（Tokyo Institute of Technology）○Tetsuya Yamada・Ken-ichi Katsumata・Nobuhiro Matsushita・Kiyoshi Okada

1P189 Solvothermal synthesis of VO_2 particles and thermochromic properties （Tohoku University）○Hisaya Hama・Qiang Dong・Shu Yin・Tsugio Sato

1P190 *In situ* observation of synthesizing self-standing orientated $AlPO_4$-5 film in a reacting system with no substrates
（National Institute of Advanced Industrial Science and Technology）○Tetsuya Kodaira・Chikako Sekiguchi・Takuji Ikeda

1P191 Difference of electrode property for $Li(Ni,Co,Mn,Ti)O_2$ （Tokyo University of Science）○Ryosuke Takagi・Shigeru Ito・Kenjiro Fujimoto

1P192 CO_2 absorption ability and structural phase transition of Na-substituted $LiFeO_2$
（Saitama University）○Jun Miura・Ikuo Yanase・Hidehiko Kobayashi

1P193 Syntheses and Properties of $RE_2Al_1B_6$ and $REAlB_4$ (RE=Rare earth elements) Cryastals by RE-Al-B Sysem Flux
（Kokushikan University）○Shigeru Okada・Takashi Yamasaki・Kiyomi Kamamoto・（Kanagawa University）Kunio Kudou・（Tohoku University）Toetsu Shishido・Kunio Yubuta

1P194 Synthesis and characterization of aluminogermanate sodalites loaded with sodium
（Gunma National College of Technology）○Nobuyuki Taira・Kei Yabuki・Mutsuo Igarashi・（Toyohashi University of Technology）Hiromi Nakano

1P195 Effect of seeding on low-temperature formation of α-alumina from polyhydroxoaluminium-hydroxy acid composite gels
（Shinshu University）○Kana Okuda・Tomohiro Yamaguchi・Seiichi Taruta・Kunio Kitajima

1P196 Effect of structural phase transition on thermal change in color phase of Co-substituted $SrZr(PO_4)_2$
（Saitama University）○Kouki Ohmori・Ikuo Yanase・Hidehiko Kobayashi

1P197 Ag nanoparticles network prepared by a micro phase separation
（Nagoya Institute of Technology）○Chika Takai・Aya Tamura・Masayoshi Fuji・Takashi Shirai

1P198 Synthesis and characterization of zeolite RHO （Gunma National College of Technology）○Kantaro Arai・Nobuyuki Taira

1P199 Effect of sintering additives on densification of cubic ZrV_2O_7 compound with a negative thermal expansion property
（Saitama University）○Hiroshi Sakai・Ikuo Yanase・Hidehiko Kobayashi

Vapor phase process

1P200 Preparation and magnetic properties of CoPd-$SrTiO_3$ nano-composite films
（Tohoku University）○Hiroshi Masumoto・Shosuke Fukushi・Yiwen Zhang・（Research Institute for Electromagnetic Materials）Nobukiyo Kobayashi・（Tohoku University・Research Institute for Electromagnetic Materials）Shigehiro Ohnuma

1P201 Growth and Evaluation of Propaties of Spinel-type $FeAlO_3$ Thin-Films
（Tokyo Institute of Technology）○Yousuke Hamasaki・Takao Shimizu・Hiroki Taniguchi・Tomoyasu Taniyama・Mitsuru Itoh

1P202 Direct synthesis of one-dimensional silicon carbide nanostructures by pyrolysis of rice husks
（Advanced Ceramics Research Center, Nagoya Institute of Technology）○Jin Li・Takashi Shirai・Masayoshi Fuji

1P203 Room-temperature homoepitaxial growth by nano-scale controlling of sapphire substrate surface morphology
（Tokyo Institute of Technology）○Daishi Shiojiri・Ryosuke Yamauchi・Geng Tan・（Tokyo Institute of Technology・Kanagawa Industrial Technology Center）Satoru Kaneko・（Tokyo Institute of Technology）Akifumi Matsuda・Mamoru Yoshimoto

Process of powder

1P204 One-step hydrothermal synthesis and photocatalytic performance of $ZnWO_4/Bi_2WO_6$ composite photocatalyst
（Tokyo Institute of Technology）○Mirabbos Hojamberdiev・（Tokyo Institute of Technology）Ken-ichi Katsumata・（Tokyo Institute of Technology）Nobuhiro Matsushita・（Tokyo Institute of Technology）Kiyoshi Okada

1P205 Ceramic powder injection molding using porcelain raw material
（Kyoto Municipal Institute of Industrial Technology and Culture）○Taigo Takaishi・Hirofumi Inada・Masatoshi Sato・Hajime Taguchi・Shozo Hashida・Tadanori Yokoyama・（National Institute of Advanced Industrial Science and Technology）Saburo Sano

1P206 Synthesis and characterization of gallium oxide powders of energy saving process
（KYOTO MUNICIPAL INSTITUTE OF INDUSTRIAL TECHNOLOGY AND CULTURE・National Institute of Advanced Industrial Science and Technology）○Hirofumi Inada・（KYOTO MUNICIPAL INSTITUTE OF INDUSTRIAL TECHNOLOGY AND CULTURE）Taigo Ttakaishi・Masatoshi Sato・（National Institute of Advanced Industrial Science and Technology）Saburo Sano・Yasumasa Takao・（YAMANAKA HUTECH Corp.）Munataka Kishi

1P207 Orientation Control of $(Sr,Ca)_2NaNb_5O_{15}$ Ceramics Using Needle-like Templates Fabricated By Two-step Flux Method
（The National Defense Academy）○Emi Hashizume・Keisuke Ishii・Shinjiro Tashiro

1P208 Preparation of stabilized zirconia ceramics by cooling-gelcasting method using gelatin as a binder
（Akita University）○Shigeo Hayashi・Satoru Takeuchi・Fumito Kagaya

1P209 Fabrication of Nano Porous Titanium Dioxide Films using Aerosol Deposition Method
（Doshisha University）○Kazuo Yuki・Yuuki Sato・Shinzo Yoshikado

1P210 Preparation of the oriented lanthanum-silicate bulk ceramics by the strong magnetic field colloidal process method
（Hosei University）○Satoshi Takahashi・（Materials Processing Unit, National Institute for Materials Science）Kiyoshi Kobayashi・Tohru Suzuki・（Hokkaido University）Yuji Masubuchi・（Materials Processing Unit, National Institute for Materials Science）Yoshio Sakka・（Hosei University）Takamasa Ishigaki・（Materials Processing Unit, National Institute for Materials Science）Tetsuo Uchikoshi

1P211 Low temperature sintering of cubic zirconia through slip-casting of nano-slurry
（Gifu University）○Michiyuki Yoshida・Keisuke Iwama・Osamu Sakurada

1P212 Development of Silicon Nitride Nano Filter （Fukuoka Institute of Technology）○Wataru Ueta・Yoshio Ohta・Mikito Kitayama

1P214 Fabrication of BN-resin composite particles prepared by mechanical treatment
（Yokohama National University）○Nanako Sugimoto・Junichi Tatami・Toru Wakihara・Akio Takahashi・（DENKA）Masahiro Ibukiyama

1P215 Powder characteristics of smaller granules prepared by spray drying technique
（Yokohama National University）○Shiori Sueyasu・Junichi Tatami・Toru Wakihara

1P216 Preparation of nano-sized zeolite Y using bead milling and post-processing
（Yokohama National University）○Yuta Amano・Toru Wakihara・Junichi Tatami

Other process

1P217 Single crystal growth of perovskite-type phosphor $La_{1/3}NbO_3:Pr^{3+}$
（Gakushuin University）○Yasuaki Mano・Yoshiyuki Inaguma・Syuhei Sasaki・Raita Horiguchi・Daisuke Mori

1P218 Preparation of highly grain-oriented ceramics by reactive diffusion technique
（Nagoya Institute of Technology）○Tomohiro Uchida・（Toyohashi University of Technology）Hiromi Nakano・（Nagoya Institute of Technology）Toru Asaka・Koichiro Fukuda

1P219 Synthesis and evaluation of nanomaterials for phytoremediation process
（Osaka Prefecture University・IMR, Tohoku Univ）○Atsushi Nakahira・（IMR, Tohoku Univ）Mitsutaka Sato・（Kyoto Institute of Technology）Hisato Katayama・Yukio Sugimura

1P220 A Non-Stick Surface Treatment Using Teflon® AF Coating and Hot Pressing with Anodic Aluminum Oxide
（Toyohashi University of Technology）○Xing Wei・Go Kawamura・Hiroyuki Muto・Atsunori Matsuda

1P221 Synthesis of metal hydrides using supercritical water in ultra-high pressure and temperatures
（Nagoya University）Tatsuhito Shiraki・Hiroki Kondo・Kanta Yamaguchi・○Ken Niwa・Masashiko Kato・Kazuo Soda・Keiji Kusaba・Masashi Hasegawa

1P222 Diffusion joining at non-vacuum atmosphere between metals or alloy using hydrogen-charged metal
（Yamaguchi University）○Shokichi Kikugawa・Yoshiyuki Ueda・Takeshi Fujimoto・Takuya Murata

1P223 Synthesis and intercalation of swellable Na-taeniolite mica crystals using NaCl as a flux
（Shinshu University）○Takehiko Noda・Tomohiro Yamaguchi・Seiichi Taruta・Kunio Kitajima

Characterization

1P224 The surface condition analysis of AlN filler. （Tokuyama Corporation）○Tomohiro Kawamura・Yasuko Takeda・Yukihiro Kanechika

1P225 Crystal structure and oxide-ion conductivity along *c*-axis of apatite-type lanthanum silicate with excess oxide ions
（Nagoya Institute of Technology）○Daisuke Urushihara・Masayuki Oyabu・Toru Asaka・Koichiro Fukuda

1P226 In-situ obsevation of crack propagation behavior of Terfenol-D by magnetic force microscope
（Yokohama national University）○Tatsushi Sugawara・Junichi Tatami・Toru Wakihara

1P227 Numerical Definition of phosphor particle size and shape by statistical particle image analysis.
（Malvern Japan ,Div of Spectris Co.Ltd,.）○Daisuke Sasakura

1P228 Structural characterization of *c*-axis-oriented apatite-type lanthanum silicate polycrystals formed by reactive diffusion
（Nagoya Institute of Technology）○Momoko Okabe・Toru Asaka・Koichiro Fukuda

1P229 Crystal structure analysis of novel mixed conductors $Ba_xNd_{2-x}InO_{4-\delta}$
（Tokyo Institute of Technology）○Yuichi Esaki・Kotaro Fuji・Kazuki Omoto・Masatomo Yashima

1P230 Diffusion pathway of oxide ion in $La_{0.8}Sr_{0.2}Ga_{0.8}Mg_{0.2}O_{2.8}$ and $La_{1.54}Sr_{0.46}Ga_3O_7$ by bond valence sum （Tokyo Institute of Technology）○Kazuki Omoto・Masatomo Yashima

1P231 Synthesis and disordered crystal structure of a new aluminum oxycarbide, $Al_3O_{3.5}C_{0.5}$
（Nagota Institute of Technology）○Ryosuke Kotani・Toru Asaka・（The University of Tokyo）Hideto Yoshida・（Nagota Institute of Technology）Koichiro Fukuda

1P232 Crystal structure of Perovskite-type Oxynitrides $ANbO_2N$ (A =Ba, Sr)
（Tokyo Institute of Technology）○Kazuho Shimada・Asobu Goto・Tomohiro Sekikawa・Kazuki Omoto・Kotaro Fujii・Masatomo Yashima

1P233 Crystal structure and electrical conduction of Sr_2GeO_4
（Tokyo Institute of Technology）○Koshiro Ueda・Masatomo Yashima・Kotaro Fujii・Kazuki Omoto

★★ March 18 (Mon) (Room A) ★★

Dielectric material / 強誘電体薄膜

（9：00）（Chairman　加藤一実）

2A01 Orientation control and characterization of CSD-derived PMN-PT thin films
（Shizuoka　University）○Takashi Arai・Yasuyuki Goto・Naonori Sakamoto・Desheng Fu・Naoki Wakiya・Hisao Suzuki・（Kitami Institute of Technology）Tomoya Ohno・Tsuyoshi Matsuda

2A02 Microstructure analysis for $LaNiO_3$ porous oxide electrodes fabricated by chemical solution deposition
（Shizuoka University）○Naonori Sakamoto・Kotaro Ozawa・（Kitami Institute of Technology）Tomoya Ohno・（Tohoku University）Takanori Kiguchi・（Kitami Institute of Technology）Takeshi Matsuda・（Tohoku University）Toyohiko Konno・（Shizuoka University）Naoki Wakiya・Hisao Suzuki

2A03 Growth and characterization of ferroelectric $(Bi_{1/2}Na_{1/2})TiO_3$ thin films under ozone atmosphere
（The University of Tokyo）○Yuuki Kitanaka・Yuji Noguchi・Masaru Miyayama・Yutaka Kagawa

2A04 Domain orientation controlled KN family piezoelecric materials with hydrothemal powders
（The University of Tokyo）○Yukiko Fujiuchi・Takafumi Maeda・Takeshi Morita

2A05S Low Temperature Preparation of $KNbO_3$ Films by Hydrothermal Method and Their Characterization
（Tokyo Institute Of Technology）○Noriyuki Kaneko・Takahisa Shiraishi・（Toin Yokohama University）Mutsuo Ishikawa・（Tokyo Institute Of Technology）Minoru Kurosawa・Hiroshi Funakubo

2A06 Uniaxially-crystal growth of lead zirconate titanate films on metal substrates buffered by metal-oxide nanosheet layers
（Sophia University）Yoshiki Minemura・Kohei Nagasaka・（Tokyo Institute of Technology）Hiroshi Funakubo・（Sophia University）○Hiroshi Uchida

Dielectric material / 機能性膜・材料

（10：30）（Chairman　北中佑樹）

2A07 Thickness dependent anisotropy of structural and electrical properties of a-ZnO films grown on r-sapphire substrates
（NIMS）○Yutaka Adachi・Naoki Ohashi・Isao Sakaguchi・Hajime Haneda

2A08 The relationship between formation of cubic particles and change in the microstructure of the Ni wire by ECH
（Nagaoka University of Technology）○Yoshiko Niki・Yuichiro Kuroki・Tomoichiro Okamoto・Masasuke Takata

Dielectric material / 機能性薄膜

（11：00）（Chairman　北中佑樹）

2A09 Synthesis of electronic ferroelectric $YbFe_2O_4$ films by liquid phase coating
（Okayama university）Naoya Okamura・Maki Tanago・Katsuhiro Ogasawara・○Tatsuo Fujii・Makoto Nakanishi・Jun Takada・Jun Kano・Naoshi Ikeda

2A10 Preparation of New Photosensitive MgO Gel Films and their Patterning Properties　（Kinki University）○Naoki Noma・Yuta Negoro

Dielectric material / マイクロ波誘電体

（14：00）（Chairman　溝口照康）

2A21F [Frontiers] Downsizing of the dielectric resonator using the composite dielectrics resonator.
（NGK SPARK PLUG CO., LTD.）○Takashi Kasashima・Kazusige Ohbayashi・（Utsunomiya University）Yoshinori Kogami

2A23 Si/Al ordering on cordierite and indialite estimated by volume and covalency of Si/Al octahedron
（Nagoya Industrial Science Research Institute・Nagoya Institute of Technology）○Hitoshi Ohsato・（Hoseo Univeristy）Jeong-Seog Kim・Chae-Il Cheon・（Nagoya Institute of Technology）Isao Kagomiya

Dielectric material / ナノ粒子合成

（14：45）（Chairman　森田剛）

2A24 Preparation of Barium Titanate Nanocubes by Solvothermal Method Using Cocktail of Barium Sources
（The University of Yamanashi）○Seiya Amano・Kouiti Nakashima・Shintaro Ueno・Itiro Hujii・Satoshi Wada

2A25 Preparation of Barium Titanate/Bismuth Ferrite Nano-Structured Ceramics by Solvothermal Method
（Yamanashi University）○Yoshinobu Hrose・Kouichi Nakashima・Shintaro Ueno・Ichiro Fujii・Satoshi Wada

2A26 Synthesis and Piezoelectric Properties of $(1-x)(Na_{0.5}Bi_{0.5})TiO_3$-$xBa(Mg_{0.5}W_{0.5})O_3$ by a Solvothermal Approach
（Tohoku University）○Takeshi Kimura・Qiang Dong・Shu Yin・（NEC Tokin Co.）Takatoshi Hashimoto・Atsushi Sasaki・Shuji Aisawa・（Tohoku University）Tsugio Sato

2A27 Solvothermal Symthesis of Potassium Niobate/Barium Titanate complex Ceramics with Configuration of Structure-gradient
（Univ. of Yamanashi）○Hideto Kawashima・Shintaro Ueno・Ichiro Fujii・Koichi Nakashima・Satoshi Wada

★★ March 18 (Mon) (Room B) ★★

Electroconductive material / 透明電極

（9：30）（Chairman　吉門進三）

2B03 Effect of Uniaxial Compression during Annealing on Solid-phase Crystallization of Transparent Conducting Oxide Thin Film
（Tokyo Institute of Technology）○Geng Tan・Naoya Inoue・（Kyodo International Inc.）Hideo Oi・Masahiro Mita・（SCIVAX Corp.）Norimichi Okuda・（Tokyo Institute of Technology）Akifumi Matsuda・Mamoru Yoshimoto

Electroconductive material / 太陽電池

（9：45）（Chairman　吉門進三）

2B04 Composition dependent optical and electrical properties of amorphous oxide semiconductor Cd-Ga-O thin films
（University of Yamanashi）○Chiyuki Sato・Hiroshi Yanagi・（Osaka University）Issei Suzuki・Takahisa Omata・（Tokyo Institute of Technology）Toshio Kamiya・Hideo Hosono

2B05 Electrical properties of Cu_2O/Cu interface formed by controlled atmosphere annealing
（Tokyo Institute of Technology）○Daisuke Tokura・Manabu Hagiwara・Takuya Hoshina・Hiroaki Takeda・Takaaki Tsurumi

Electroconductive material / ガスセンサ

(10：15)（Chairman 松田晃史）

2B06 NO_2 or NO sensing properties for semiconductor gas sensor and observation of adsorption reaction
（National Institute of Advanced Industrial Science and Technology）○Takafumi Akamatsu・Toshio Itoh・Noriya Izu・Woosuck Shin

2B07 Investigation of sensor response on noble metals added tin oxide VOCs sensors
（Institute of Nagoya Technology・National Institute of Advanced Industrial Science and Technology）○Daiheon Lee・（National Institute of Advanced Industrial Science and Technology）Toshio Itoh・Noriya Izu・Takafumi Akamatsu・Woosuck Shin・（Institute of Nagoya Technology）Toshihiro Kasuga

2B08 Response increase for gas sensor using ceria thick film by noble metal addition
（National Institute of Advanced Industrial Science and Technology (AIST)）○Noriya Izu・Toshio Itoh・Ichiro Matsubara・Woosuck Shin

Electroconductive material / 導電性薄膜

(11：00)（Chairman 松田晃史）

2B09 Temperature Dependence of Resistivity of $MoSi_2$-Si Composite Thin Films
（Graduate School of Science and Engineering, Doshisha University）○Ryo Kanai・（Department of science and engineering, Doshisha University）Ryosuke Kitani・（Graduate School of Science and Engineering, Doshisha University）Yuki Sato・Sinzo Yoshikado

2B10 Fabrication and plasmonic characterization of single-crystalline conductive nitride thin films
（Kyoto University）○Ryuichiro Yasuhara・Koji Fujita・Shunsuke Murai・Katsuhisa Tanaka

Education / 教育実践・手法

(11：30)（Chairman 櫻井修）

2B11 Attempts of Experimental Class about Ceramics
（Okayama University）○Mika Yoneda・Makoto Nakanishi・Toshiyuki Oshiki・Kazuo Onoyama・Isao Harada・Seiji Suga・Jun Takada

2B12 U.S. Base High Schools-University of Tsukuba Collaborative Project: Internship Seminar on Ceramics （University of Tsukuba）○Yoshikazu Suzuki

2B13 Open lecture hosted by a university ~ the great east Japan earthquake and nukes ~
（Okayama University）○Yoshikazu Kameshima・Michihiro Miyake

2B14 Preparation of colored glasses and enamels as a practice for university first-year students （Shonan Institute of Technology）○Nobuo Kieda

(12：30)（Chairman 木枝暢夫）

2B15 Problem-based-learning classes to teach teamwork and one way to evaluate the results
（Kanagawa Inst. of Tech.）○Minoru Takemoto・Yasuro Ikuma

2B16 Computer exercises using computer programs VESTA and RIETAN-FP in the “Structural analytics” class
（Ryukoku University）○Tatsuya Shirakami・（National Institute of Advanced Industrial Science and Technology）Katsuhiro Nomura

2B17 Making apparatus of measuring the angle-dependent of reflectance for student lab.
（Tokyo Institute of Technology）○Hidemi Yoshikawa・Tetsuo Kishi・Tomohiko Yoshioka・Tadashi Shiota

Electroconductive material / ZnO バリスタ

(14：00)（Chairman 大橋直樹）

2B21A [The 67th CerSJ Awards] Researches on microstructure-property relationship in electroceramics （The University of Tokyo）○Yukio Sato

2B23 Effects of Heat Treatment on Electrical Properties and Grain Boundary Structure for Ba, Si-added Bi-Based ZnO Varistors
（Doshisha University）○Atsuko Kubota・Yuuki Sato・Shinzo Yoshikado

2B24 Electrical Characteristics of Tin oxide-added Bismuth-based Zinc Oxide Varistors
（Doshisha University）Yosuke Tokoro・○Rypsuke Nagata・Yuuki Sato・Shinzo Yoshikado

(15：00)（Chairman 安達裕）

2B25 Effects of Adding Yttrium and Antimony Oxides on the Electrical Characteristics of Bi-based Zinc Oxide Varistors
（Doshisha University）○Yuuya Kojima・Yuuki Sato・Shinzo Yoshikado

Electroconductive material / ZnO 半導体

(15：15)（Chairman 安達裕）

2B26 Band Gap Narrowing of ZnO by Alloying with β-$AgGaO_2$
（Osaka University）○Issei Suzuki・Yuta Arima・（Toyama National College of Technology）Masao Kita・（Osaka University）Takahisa Omata

2B27 Photoinduced electron transport properties of dye-dispersing ZnO films prepared by a wet process
（Shinshu University）○Hiromasa Nishikiori・Takumi Takikawa・Setiawan Rudi Agus・Kazuki Ito

★★ March 18 (Mon) (Room C) ★★

Process of powder / メカノケミカル・粉砕

(9：00)（Chairman 渡辺友亮）

2C01 Improvement of alkali solubility of kaolin powder using mechanochemical treatment
（Nagoya institute of technology）○Naomi Ban・Takashi Shirai・Chika Takai・Masayoshi Fuji

2C02 Interfacial Characterization of Iron/Graphite Composite Particles Prepared by Mechanochemical Reaction
（Tokyo Institute of Technology・Gifu National College of Technology）○Satoshi Motozuka・（Nagaoka University of Technology）Motohiro Tagaya・（Nagoya University）Masahiko Morinaga・（Tokyo Institute of Technology）Toshiyuki Ikoma・Tomohiko Yoshioka・Zhefeng Xu・Junzo Tanaka

2C03 DEM simulation of particle breakage behavior in grinding machine
（Tohoku University）○Shingo Ishihara・（JSPS）Rikio Soda・（Tohoku University）Qiwu Zhang・Junya Kano

Other process / その他のプロセス

(9：45) (Chairman　白井孝)

2C04　Synthesis of porous zirconia with fine closed pores by microwave irradiation
(Nagoya Institute of Technology) ○Shinobu Hashimoto・(Nagoya Institute of Technology・National Institute of Advanced Industrial Science and Technology (AIST)) Tomoya Umeda・(Nagoya Institute of Technology) Aawao Honda・Yuji Iwamoto・(National Institute of Advanced Industrial Science and Technology (AIST)) Kiyoshi Hirao・Naoki Kondo・Hideki Hyuga・You Zhou

2C05　Effect of atmosphere on laser modification of titanium oxide
(Osaka Municipal Technical Institute) ○Hiroyasu Kido・Masanari Takahashi・Jun-ichi Tani・(Kinki University) Yoshinori Sawairi・Mitsunobu Iwasaki

2C06　High-Temperature X-ray CT imaging of Vitrification Process of Glass Beads and Pseudo-Radioactive Waste
(Tokyo Institute of Technology) ○Tomohiro Amagasa・Keita Watanabe・Naoko Ikeji・Ryo Nakata・Tetsuo Kishi・Shuichi Shibata・Tetsuji Yano・Kenji Takeshita・(Japan Nuclear Fuel Limited) Kazuhiro Minami・Eiji Ochi

2C07　Degassing Effects on Crystal Growth of Lithium Tetraborate by Applied Strong Magnetic Field
(University of Yamanashi) ○Isao Tanaka・Ryuta Sako・Masanori Nagao・Satoshi Watauchi

(10：45) (Chairman　吉岡朋彦)

2C08　Development of ceramic coating technology on silicon carbide
(TOCALO CO.,Ltd.) ○Yuhei Ohide・Yoshiyasu Ito・Tatsuo Suidzu・Takeshi Takabatake

2C09　Synthesis and elastic properties of Marcasite-type rhodium nitride by a direct nitriding method at high pressures
(Nagoya University) ○Ken Niwa・Kentaro Suzuki・Masashi Hasegawa・(Max-Planck-Institut fur Chemie) Mikhail Eremets・(Technische Universitat Darmstadt) Dmytro Dzivenko・Ralf Riedel

2C10　Electromagnetic wave absorption properties on concentration-graded ferrite-polymer composite materials
(Osaka University) ○Masahiro Itoh・Ken-ichi Machida

Process of powder / パウダープロセス

(14：00) (Chairman　戸田健司)

2C21　Preparation of porous Si grains by heating Mg_2Si grains
(Tohoku University) ○Takahiro Yamada・(Toyota Central R&D Labs., Inc.) Hiroshi Itahara・(Tohoku University) Hisanori Yamane

2C22　Pressure-less sintering of Ti_3SiC_2 ceramics using Si / Al liquid phase
(National Institute for Materials Science) ○Kimitoshi Sato・Yoshio Sakka・(The University of Tsukuba) Mrinalini Mishra・(Hosei University) Hiroto Hirano・Takamasa Ishigaki

2C23　Influence of granules characteristics on coarser defects in translucent alumina ceramics
(Nagaoka University of Technology) ○Satoshi Tanaka・Shouta Goi・Zenji Kato・Keizo Uematsu

2C24　Effect of SiO_2-coated cBN on densification and mechanical properties of cBN-TiN-TiB_2 prepared by SPS
(Institute for Materials Research, Tohoku University) ○Mettaya Kitiwan・Akihiko Ito・Takashi Goto・(Institute for Synergistic Interdisciplinary Research) Jianfeng Zhang

(15：00) (Chairman　田中諭)

2C25　Synthesis of silicate phosphor using SiO powder as a silica source and a reducing agent
(Niigata University) ○Kenji Toda・Takeshi Abe・Kazuyoshi Uhematsu・Tadashi Ishigaki・Mineo Sato・(Sungkyunkwan University) Bong Sung Kim・Su Jo Deok・Takaki Masaki・Dae Ho Yoon・(N-luminescence Corporation) Junko Koide・Masako Toda・Yoshiaki Kudo

2C26　Estimation Method for Internal Stress in Laminates during Sintering　(Tokyo Institute of Technology) ○Kouichi Yasuda・Peiling Lv

2C27　Influence of Ethyl-cellulose molecular weight on the rheological properties of Perovskite oxide pastes
(Nagoya Institute of Technology・Noritake Co.,Limited) ○Koji Inukai・(Noritake Co.,Limited) Yosuke Takahashi・(Nagoya Institute of Technology・National Institute of Advanced Industrial Science and Technology) Woosuck Shin

★★ March 18 (Mon) (Room D) ★★

Liquid phase process / 多孔質体

(9：00) (Chairman　内山弘章)

2D01　Preparation of Porous Titanium Oxide Particles using Organic Monolith Templates and the Capacitance Properties
(Tokyo Institute of Technology) ○Tomoki Kobayashi・Toshihiro Isobe・Sachiko Matsushita・Akira Nakajima

2D02　Structural Control of Colloidal Mesoporous Silica Nanoparticles by Using Trialkylbenzenes
(Waseda University) ○Hiroto Ujiie・Hironori Yamada・Chihiro Urata・(Waseda University・Kagami Memorial Research Institute for Materials Science and Technology) Kazuyuki Kuroda

2D03　Synthesis and characterization of Ba ferrite-Silica Aerogel Nanocomposite
(Nagoya Institute of Technology) ○Kenzi Hattori・Nobuyasu Adachi・Toshitaka Ota・(Nagoya Institute of Technology・Rinnai Corporation) Naruhito Katagiri

2D04　Influence of MixedSolvents on Fabrication of SnO_2 MicroPatternGasSensors with MacroPores and GasSensing Properties
(Nagoya Institute of Technology) ○Takuya Imaeda・Tomokatsu Hayakawa・Yohei Ishikawa・(Nagoya Institute of Technology・National Institute for Materials Science) Hiroshi Fudouzi・(National Institute for Materials Science) Tsutomu Sawada

Liquid phase process / 受賞講演

(10：00) (Chairman　幸塚広光)

2D05A　[The 67th CerSJ Awards] Chemical Processes for Ceramic and Hybrid Materials　(Waseda University) ○Yoshiyuki Sugahara

Liquid phase process / 有機・無機ハイブリッド

(10：45) (Chairman　菅原義之)

2D08　Preparation and thermoplasticity of organic-inorganic hybrids comprising lanthanum coordination polyhedra and b-diketone
(Kansai University) Hiromitsu Kozuka・○Kota Suzuki・Hiroaki Uchiyama

2D09　Proton conductivity of organic-inorganic hybrid titanophosphite membranes under dry conditions　(Kyoto University) ○Akinori Horii

2D10 Spontaneous formation of wrinkle patterns on ZnO films prepared from $Zn(CH_3COO)_2$ aqueous solutions
（Kansai University）Hiroaki Uchiyama・○Takao Eiki・Hiromitsu Kozuka

Liquid phase process / 受賞講演

（14：00）（Chairman　今井宏明）

2D21A [The 67th CerSJ Awards] Morphology Control and Application of Ceramics Synthesized in Aqueous Solutions
（Yamagata University）○Hidero Unuma

Liquid phase process / 薄膜

（14：30）（Chairman　今井宏明）

2D23 Synthesis and Electric Property of $(Nb,K)NbO_3$ Film by Water-based Citrate Precursor
（Nagoya Institute of Technology）○Kotaro Hattori・Ken-ichi Kakimoto・ISao Kagomiya

2D24 Synthesis of Nb surface doped La-$SrTiO_3$ nanocubes and evaluation of self-assembled films
（Nagoya University）○Kazuki Tsuruta・（Nagoya University・JST-CREST）Feng Dang・Nam-hee Park・Chunlei Wan・Kunihito Koumoto

（15：00）（Chairman　藤本憲次郎）

2D25 Liquid phase of ITO nanoparticles and theirapplication for IR cut coatings.
（Hiroshima University）○Ryuichi Takabatake・Kiyofumi Katagiri・Kei Inumaru

Liquid phase process / 受賞講演

（15：15）（Chairman　藤本憲次郎）

2D26A [The 67th CerSJ Awards] Surface Morphology Control of Thin Films Prepared by Solution Processes and its Application
（Osaka Prefecture University）○Kiyoharu Tadanaga

★★ March 18 (Mon) (Room E) ★★

Glass and photonic materials / 非線形光学

（9：00）（Chairman　河村剛）

2E01 Patterning of β-BaB_2O_4 crystal lines in the inside of glass by laser irradiation
（Nagaoka University of Technology）○Akihito Nishii・Futoshi Suzuki・Tsuyoshi Honma・Takayuki Komatsu

2E02 Crystallization of Bi_2O_3-MO-B_2O_3 (M=Zn,Ca,Sr) glasses and resulting nonlinear optical property
（Okayama University）○Keita Kanenishi・Shinichi Sakida・Yasuhiko Benino・Tokuro Nanba

Glass and photonic materials / 蛍光体（青色）

（9：30）（Chairman　河村剛）

2E03 Luminescence property of blue emitting $La_{1-x}Ce_xAl(Si_{6-z}Al_z)N_{10-z}O_z$ by UV/Violet LED' s excitation
（National Institute for Materials Science）○Takuya Kitabatake・Naoto Hirosaki

2E04 Temperature dependence of emission on high-pressure phase of SrO:Eu^{2+} blue phosphor
（Nagaoka University of Technology）○Keiji Komatsu・（Chubu Chelest Co., Ltd.・Nagaoka University of Technology）Atsushi Nakamura・（Nagaoka University of Technology）Ariyuki Kato・Shigeo Ohshio・Ikumi Toda・Hiroyuki Muramatsu・Hidetoshi Saitoh

（10：00）（Chairman　崎田真一）

2E05 Structural behavior on high-pressure phase of SrO:Eu^{2+}blue phosphor
（Nagaoka University of Technology）○Keiji Komatsu・Tomoyuki Shirai・（Chubu Chelest Co., Ltd.・Nagaoka University of Technology）Atsushi Nakamura・（Nagaoka University of Technology）Shigeo Ohshio・Ikumi Toda・Hiroyuki Muramatsu・Hidetoshi Saitoh

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

（10：15）（Chairman　崎田真一）

2E06 Structural Characterization of Nd-Doped Oxyfluoride Glass-Ceramics Phosphor
（Toyohashi University of Technology）○Kazunari Ota・Go Kawamura・Hiroyuki Muto・Atsunori Matsuda

2E07 Phase-Selective Synthesis and Up-conversion Photoluminescence Properties of $NaGdF_4$:Tm^{3+},Yb^{3+} Nanocrystals
（Nagoya Institute of Technology）○Hayato Ota・Tomokatsu Hayakawa

2E08 Synthesis and characterization of cerium(IV) oxide up-conversion phosphors
（Tokai University）○Satoshi Ogawa・Yu Oyanagi・Noriyuki Naruse・Koji Tomita・（Hirosima University）Kiyofumi Katagiri・（Tohoku University）Masato Kakihana

Glass and photonic materials / 応力発光・残光

（14：00）（Chairman　上田純平）

2E21S Effect of Decarbonization Condition on Long-Lived PL Appearance in Si-O-C(-H) Ceramics
（Graduate School of Engineering, Osaka Prefecture University）○Masaki Narisawa・Yasushi Kawamoto・Toshiyuki Matsui・Akihiro Iwase・（Osaka Municipal Technical Research Institute）Seiji Watase・Kikmihiro Matsukawa

2E22 Effect of Grinding Raw Materials on Synthesis of Mechanoluminescent Materials
（Sakai Chemical Industry Co., Ltd）○Kenji Mori・Tomonori Tojo・Hiroshi Nakao・Keita Kobayashi

2E23 Mechanoluminescent characteristics of $SrAl_2O_4$:Eu prepared by nitrate decomposition method
（National Institute of Advanced Industrial Science and Technology）○Yuki Fujio・Chao-Nan Xu

2E24 Intensive red mechanoluminescence properties from Mn^{2+} doped MZnOS (M= Ca, Ba) phosphors
（Kyushu University）○Dong Tu・（Kyushu University・National Institute of Advanced Industrial Science and Technology）Chao-Nan Xu・（National Institute of Advanced Industrial Science and Technology）Yuki Fujio

（15：00）（Chairman　成澤雅紀）

2E25 Evaluation and Prediction of Photoluminescence Performance on the Blue Phosphor by Analysis of the Trap
（Kyushu University）○Yujin Terasawa・（National Institute of Advanced Industrial Science and Technology）Yuki Fujio・（Kyushu University・National Institute of Advanced Industrial Science and Technology・WPI-I2CNER）Cano-Nan Xu

2E26 Synthesis of red-emitting long afterglow phosphpor by irradiating visible light
（Nihon University）Yoshiyuki Kojima・○Aoi Takahashi・Tetsuo Umegaki

2E27 Synthesis and optical characterization of Ce^{3+}-doped Y-In-Al-Ga-O garnet phosphors
（The University of Kyoto）○Keisuke Kuroishi・Jumpei Ueda・Setsuhisa Tanabe

★★ March 18 (Mon) (Room F) ★★

Glass and photonic materials / フォトニック結晶

(9：00) (Chairman　村井俊介)

2F01　Modification of local electric conductive properties of polymer using focused femtosecond laser pulse
(The University of Kyoto) ○Naoki Morita・Yasuhiko Shimotsuma・Masayuki Nishi・Masaaki Sakakura・Kiyotaka Miura・Kazuyuki Hirao

2F02　Synthesis of monodispersed colloidal mesoporous silica nanoparticles and fabrication of colloidal crystals
(Waseda University) Masaki Kitahara・○Eisuke Yamamoto・Takuya Tsumura・(Waseda University・Kagami Memorial Research Institute for Materials Science and Technology, Wased University) Kazuyuki Kuroda

2F03　Fabrication of TiO2 photonic crystal with a two-dimensional complete photonic band gap
(Tokyo Institute of Technology) ○Yasushi Morii・Mikirou Hayashi・(Tokyo Institute of Technology Semiconductor and MEMS Processing Center) Akihiro Matsutani・Kunio Nishioka・(Tokyo Institute of Technology) Toshihiro Isobe・Sachiko Matsushita・Akira Nakajima

Glass and photonic materials / ガラス構造

(9：45) (Chairman　北村直之)

2F04　Comparison between enthalpy relaxation and volume relaxation for glasses with different void ratio
(The University of Shiga prefecture) ○Kimiyasu Okumura・(The University of Akita) Toru Sugawara・(The University of Shiga prefecture) Satoshi Yoshida・Jun Matsuoka

2F05　Relationship between low-temperature excess heat capacity and composition in oxide glass
(Tohoku University) ○Kensaku Nakamura・Yoshihiro Takahashi・Rie Ihara・Takumi Fujiwara

(10：15) (Chairman　高橋儀宏)

2F06　Relationship between structure and transmission characteristics in bismuth borophosphate glass
(National Institute of Advanced Industrial Science and Technology) Kohei Fukumi・(Kansai University) ○Ryohei Otsuka・(National Institute of Advanced Industrial Science and Technology) Naoyuki Kitamura・(Kansai University) Hiromitsu Kozuka・Hiroaki Uchiyama

2F07　HAADF-STEM observation of Er atom in optical glass fiber
(The University of Tokyo) ○Teruyasu Mizoguchi・Yuichi Ikuhara・Atsunobu Masuno・Hiroyuki Inoue・(Monash University) Scott Findlay

2F08　Optical Properties and Raman Scattering Spectra of $BaO\text{-}Nb_2O_5\text{-}P_2O_5$ Glass
(National Institute of Advanced Industrial Science and Technology) ○Naoyuki Kitamura・(Hokkaido University) Jyunji Nishii

(11：00) (Chairman　吉田智)

2F09　Formation of nano-structures using electrostatic glass imprint
(Hokkaido University) ○Naoki Ikutame・Hiroshi Ikrda・Junji Nishii・(Kitami Institute of Technology) Daisuke Sakai・Kenji Harada

2F10　Effects of alkyl chain length on the viscosity of alkylpolysilsesquioxanes prepared by a cosolvent-free method
(Tokyo Metropolitan University) ○Yuko Fukuda・Arata Sakuragi・Koichi Kajihara・Kiyoshi Kanamura

Glass and photonic materials / 紫外線カットガラス

(14：00) (Chairman　吉田智)

2F21A　[The 67th CerSJ Awards] High performance UV cut tempered automotive glass　(ASAHI GLASS Co., LTD. Research Center) ○Hirokazu Kodaira

Glass and photonic materials / ガラス融液

(14：30) (Chairman　正井博和)

2F23　Observation of Bubble Refining in Soda-Lime-Silica Glass melts Prepared by In-Flight Melting Technique
(Tokyo Institute of Technology) ○Yutaka Koshizawa

2F24　Absorption spectra of Co^{2+}-doped sodium borate glass melts
(The University of Shiga Prefecture) ○Tasuku Morimoto・Satoshi Yoshida・Jun Matsuoka・(Akita University) Toru Sugawara

Glass and photonic materials / プロトン伝導

(15：00) (Chairman　角野広平)

2F25　Amount of the incorporated proton and proton conductivity in binary phosphate glasses
(The University of Hyogo) ○Yawara Takamatsu・Yusuke Daiko・Atsushi Mineshige・Tetsuo Yazawa・(JASRI) Shinji Kohara・(J-PARC) Kentaro Suzuya

2F26AS　[The 67th CerSJ Awards] Proton conduction in glasses　(Univ. Hyogo) ○Yusuke Daiko

★★ March 18 (Mon) (Room G) ★★

Environment and energy related material / 活性炭

(9：00) (Chairman　塩野剛司)

2G01　Investigation of development of micro-pore structure in carbon activated using mixture of NaOH and KOH
(Nagaoka University of Technology) ○Takumi Yamada・Hiroe Toda・Ikumi Toda・Shigeo Ohshio・Hiroyuki Muramatsu・Syuji Himeno・Hidetoshi Saitoh

2G02　Evaluation of iodine adsorption property on activated carbon fabricated from rice husk ashes
(Nagaoka University of Technology) Hiroe Toda・○Ikumi Toda・Shigeo Ohshio・Shuji Himeno・Hidetoshi Saitoh

2G03　Pressure-temperature-dependency of CO^2 adsorption phase on activated carbon fabricated from rice husk ashes
(Nagaoka University of Technology) Taka-aki Tsuchiya・○Ikumi Toda・Takumi Yamada・Hiroe Toda・Shigeo Ohshio・Hiroyuki Muramatsu・Shuji Himeno・Hidetoshi Saitoh

2G04　XRD analysis of activated carbon under H_2O adsorption
(Nagaoka University of Technology) ○Takumi Yamada・Hiroe Toda・Ikumi Toda・Shigeo Ohshio・Hiroyuki Muramatsu・Syuji Himeno・Hidetoshi Saitoh

Environment and energy related material / 触媒

(10：00) (Chairman　磯部敏宏)

2G05　Pt-supported Rare Earth Oxide Catalysts for Complete Oxidation of Volatile Organic Compounds
(Osaka University) ○Toshiyuki Masui・Keisuke Yasuda・Nobuhito Imanaka

2G06 Preparation of Mn catalyst supported on hexagonal $YbFeO_3$ and its catalytic property
（Kyoto University）○Saburo Hosokawa・Tatsuya Nishimura・Kenji Wada・Masashi Inoue・Ryu Abe

2G07 NO reduction property of apatite-type phosphate supported Pt catalyst
（Akita University）○Sumio Kato・Atsunori Ono・Masataka Ogasawara・Shinichi Nakata

2G08 Oxygen storage capacity and catalytic property of CeO_2-Mn_3O_4 mixed metal oxides
（Tohoku University）○Qiang Dong・Taro Sakanakura・Shu Yin・Tsugio Sato

Environment and energy related material / 企業研究フロンティア講演

（11：00）（Chairman 佐藤次雄）

2G09F [Frontiers] Nanotechnology in an exhaust gas catalyst （Toyota Central R&D Labs. Inc.）○Akihiko Suda

Environment and energy related material / 多孔体

（14：15）（Chairman 藤正督）

2G22 Preparation and Characterization of Porous Al_2TiO_5 toward Diesel Particle Filter Application
（University of Tsukuba）○Hitodhi Nishijima・（Malvern Jpn. Div. Spectris）Naoya Inoue・Masafumi Morimoto・（University of Tsukuba）Yoshikazu Suzuki

2G23 Influence of Macrostructure on Thermal and Mechanical Properties in Ceramics Thermal Insulators
（Mino Ceramic Co., Ltd.）○Ayumi Tsujino・Kiyoto Sekine・Takeshi Kumazawa・（National of Advanced Industrial Science and Thecnology）Manabu Fukushima・Yuichi Yoshizawa

2G24 Applying Porous Al_2TiO_5 to Water Purification Filter
（University of Tsukuba）○Taiki Hono・（Malvern Japan Division of Specrtris Co., Ltd）Noaya Inoue・Masafumi Morimoto・（University of Tsukuba）Yoshikazu Suzuki

2G25 Microstructure Control and Gas Permeability of Porous Alumina Compacts
（Kagoshima University）○Hatsuki Shirasaka・Yoshihiro Hirata・Souichirou Sameshima

Environment and energy related material / 受賞講演

（15：15）（Chairman 岡田清）

2G26A Evaluation and Control of Interaction between Ceramic Particles and Application for Environment Functional materials
（Tokyo Institute of Technology）○Toshihiro Isobe

★★ March 18 (Mon) (Room H) ★★

Enginieering ceramics / 焼結

（9：30）（Chairman 大司達樹）

2H03 Effects of sintering temperature on fabrication of SiC with rotary CVD deposited SiO_2 nano-layer by SPS
（IMR Tohoku University・Wuhan University of Technology）○Zhenhua He・（IMR Tohoku University）Hirokazu Katsui・（Wuhan University of Technology）Rong Tu・（IMR Tohoku University）Takashi Goto

2H04 Fabrication of Al_5C_3N ceramics by spark plasma sintering technique
（Yokohama National University）○Junichi Tatami・Masaki Hironaka・Toru Wakihara・（Tohoku University）Akihiko Ito・Takashi Goto

（10：00）（Chairman 堀田幹則）

2H05 Effect of particle size of talc on the microstructure of sintered cordierite ceramics
（Aichi institute of technology）○Masaki Katayama・Yuichi Kobayashi

2H06 Reactive sintering and evaluation of MgO-doped Al_2TiO_5 （University of Tsukuba）○Ryosuke Maki・Yoshikazu Suzuki

Enginieering ceramics / コーティング

（10：30）（Chairman 桐原聡秀）

2H07 Mechanical, electrical and thermal conduction properties of dense alumina coatings by plasma spraying
（FUJIMI INCORPORATED）Junya Kitamura・○Kazuto Sato・Yoshitomo Kobayashi・Toshihiko Tosaki・Kyohei Ota

2H08 Behavior of Thermal Sprayed Ceramics Coatings Under the Plasma Environment
（TOCALO Co.,Ltd）○Hiroki Yokota・Yoshiyasu Ito・（Tsinghua University）Yuchao Cao・Jing-Feng Li・Ke Wang

2H09 Preparation and microstructure of Al-Ti-O thick films by laser chemical vapor deposition using CO_2 laser
（Institute for Materials Research, Tohoku University）○Ming Gao・Akihiko Ito・Takashi Goto

Enginieering ceramics / 接合

（14：15）（Chairman 武藤浩行）

2H22 Joining of alumina by the use of polysiloxane and aluminum foil
（AIST, National Institute of Advanced Industrial Science and Technology）○Ken' ichiro Kita・Naoki Kondo

2H23 Development of SiC laser brazing technology （Toshiba Corp.）○Shoko Suyama・Wataru Kouno・Daijiro Fukuda・Akira Tanaka

2H24 Effect of joining temperature on microstructure and joining strength of joined Si_3N_4 long pipes
（National Institute of Advanced Industrial Science and Technology）○Mikinori Hotta・Naoki Kondo・Hideki Kita・（Mitsui Mining & Smelting Co., Ltd.）Yasuhisa Izutsu・Takashi Arima

Enginieering ceramics / インデンテーション

（15：00）（Chairman 須山章子）

2H25 Change in Mechanical Properties of Silica Gel during the Gelation by Indentation Technique
（Toyohashi U. Tech.）○Hiroyuki Muto・Shyouhei Muri・Norio Hakiri・Go Kawamura・Atsunori Matsuda

2H26 GPa order high pressure impedance measurement utilizing an indentation technique
（University of Hyogo）○Eri Takahashi・Yusuke Daiko・Atsushi Mineshige・Tetsuo Yazawa・（University of Technology）Norio Hakiri・Hiroyuki Muto・Atsunori Matsuda

2H27 Effect of friction between an indenter and specimen surface on nanoindentation on a film/substrate bilayer system
（Tokyo Institute of technology）○Keisuke Yokota・Takashi Akatsu・Yutaka Shinoda・Fumihiro Wakai

★★ March 18 (Mon) (Room I) ★★

Energy reference material / PEFC

（9：15）（Chairman　山口十志明）

2I02　Hybridization of benzimidazole with phosphates using glasses
（Nagoya Institute of technology）○Takahiro Oine・Kei Handa・Hiroshi Morikawa・Hirotaka Maeda・Masanobu Nakayama・Toshihiro Kasuga・（Central Glass Co., Ltd.）Tatsuya Tsuzuki

2I03　The effect of heat treatment on the structure of hybrid materials derived from zinc phosphate glass and benzimidazole
（Nagoya Institute of Technology）○Kei Handa

2I04　High temperature protonic conduction and crystal structure of eulytite-type phosphates
（Tokyo Univ. of Science）○Yuki Yamada・Naoto Kitamura・Yasusi Idemoto

2I05　Electrodes and Assembling Method for Intermediate Temperature Fuel Cell Using Phosphoric Acid Treated Gypsum
（Tokyo City University）○Satoshi Suzuki・Masayuki Nagai

2I06　Effect of defect association in proton conductive $BaZrO_3$
（Japan Fine Ceramics Center・Kyoto University）○Akihide Kuwabara・（Japan Fine Ceramics Center）Fisher Craig・Hiroki Moriwake・（Nagoya University）Kazuaki Toyoura・（Japan Fine Ceramics Center・Nagoya University）Katsuyuki Matsunaga・（Kyoto University）Yukinori Koyama・Fumiyasu Oba・（Japan Fine Ceramics Center・Kyoto University）Isao Tanaka

Energy reference material / SOFC 電極

（10：30）（Chairman　棟方裕一）

2I07　Co-sintering process of SOFC anode and electrolyte
（National Institute of Advanced Industrial Science and Technology）○Toshiaki Yamaguchi・Hirofumi Sumi・Koichi Hamamoto・Toshio Suzuki・Yoshinobu Fujishiro

2I08　Evaluation of crystal structure and electrochemical properties of (Bi, RE)VO_4-based electrode material for SOFC
（Tokyo University of Science）○Kazuya Tashiro・Naoto Kitamura・Yasushi Idemoto

2I09　Mechanism of the oxide-ion diffusion in K_2NiF_4-type oxide $Pr_{1.9}NiO_{4+\delta}$
（Tokyo Institute of Technology）○Daiki Haratake・Masatomo Yashima・Mio Saito・Kotaro Fuji・Yi-Ching Chen・（Kyushu University）Nuansaeng Sirikanda・Tatsumi Ishihara

2I10　Structural Origin of the Thermal Expansion Anisotropy of $AA'BO_4$ (A = Ca, Sr; A' = Rare earths; B = Al, Ga)
（Tokyo Inst. Tech.）○Keishi Kawamura・Kazuki Omoto・Kotaro Fujii・Masatomo Yashima

Energy reference material / SOFC 電解質

（14：00）（Chairman　藤代芳伸）

2I21A　[The 67th CerSJ Awards] Oxide Ion Conductivity in Perovskite Related Oxide and its application to Solid Oxide Fuel Cell
（Kyushu University）○Tatsumi Ishihara

2I23　Oxide-ion conductivity of highly c-axis-oriented apatite-type lanthanum silicate polycrystal with excess La_2O_3 content
（Nagoya Institute of Technology）○Koichiro Fukuda・Masayuki Oyabu・Daisuke Urushihara・Toru Asaka

2I24　Crystal structure and ion-conductivity of melilite-type structure$La_{1.54}Sr_{0.46}Ga_3O_{7.27}$
（Tokyo Institute of technology）○Naoto Kaneko・Kazuki Omoto・Kotaro Fujii・Masatomo Yashima・（Korean Atomic Energy Research Institute）Seongsu Lee・Su Jae Kim

Energy reference material / SOFC 発電特性

（15：00）（Chairman　石原達己）

2I25　Fabrication and characterization of micro cone-shaped solid oxide fuel cells
（The University of Nagoya）○Kenta Yasue・Masahiro Huruhashi・Chikara Ohtsuki・Koichi Kikuta

2I26　Evaluation of Electric Power of SOFC Using Simulated Biogas
（Kagoshima university）○Naoki Furukawa・Yoshihiro Hirata・Souitirou Sameshima

Energy reference material / その他の発電システム

（15：30）（Chairman　石原達己）

2I27　Properties of hydroxyapatite electret power generator
（Tokyo Medical and Dental University）○Norio Wada・（Tokyo Medical and Dental University・Kogakuin University）Katsuyuki Mukougawa・（Tokyo Medical and Dental University）Naohiro Horiuchi・Tetsuo Hiyama・Miho Nakamura・Akiko Nagai・（Kogakuin University）Toshinori Okura・（Tokyo Medical and Dental University）Kimihiro Yamashita

★★ March 18 (Mon) (Room J) ★★

Bioceramics / セメント

（9：30）（Chairman　石川邦夫）

2J03　Fabrication of calcium-phosphate cement with non-fragmentation property and its evaluation method
（Meiji university・Kanagawa Academy of Science and Technology）○Kei Fujioka・Kouhei Nagata・Toshiisa Konishi・（Kanagawa Academy of Science and Technology）Minori Mizumoto・Michiyo Honda・（Meiji university・Kanagawa Academy of Science and Technology）Mamoru Aizawa

2J04　Effect of additive on properties of injectable hydroxyapatite/collagen paste using sodium alginate
（National Institute for Materials Science・Meiji University）○Taira Sato・（Meiji University）Mamoru Aizawa・（National Institute for Materials Science）Masanori Kikuchi

2J05　Effect of Different Particle Sizes of Raw Materials on the Mechanical Properties of Calcium Phosphate Cement
（Osaka City University）Yoshiyuki Yokogawa・○Kentaro Fujii・Hiroki Yamada・Kentaro Tone・Ippei Kishida

Bioceramics / 日中賞受賞講演

(10：15) (Chairman　横川善之)

2J06A　(国際交流奨励賞　日中セラミックス科学・技術交流奨励賞) Synergistic effects of cell penetrating peptides and fusogenic peptide enhance cellular internalization and gene transduction of organosilica nanoparticles

(Xiamen University) ○Ren Lei・Wang Tian-xiao・Shang Ting・Wang Zu-yong・Wang Jun

Bioceramics / ナノマテリアル

(10：45) (Chairman　川下将一)

2J08　Synthesis of Superparamagnetic Nanoparticle Clusters for Cancer Theranostics Combining MRI and Hyperthermia Treatment

(The University of Tokushima) ○Koichiro Hayashi・Michihiro Nakamura・Kazunori Ishimura

2J09　Synthesis of silica nanotubes as multifunctional materials for biomedical applications

(Japan Society for the Promotion of Science (JSPS)) ○Song Chen・(National Institute for Materials Science) Notutaka Hanagata

2J10　Preparation of aluminium silicate nanotube / poly(ethylene glycol) composite gels

(Nagoya Institute of Technology) ○Kie Fujikura・Hirotaka Maeda・Akiko Obata・(National Institute of Advanced Industrial Science and Technology) Keiichi Inukai・Katsuya Kato・(Nagoya Institute of Technology) Toshihiro Kasuga

Bioceramics / 企業研究フロンティア講演

(14：00) (Chairman　相澤守)

2J21F　[Frontiers]Development of a novel hydroxyapatite/collagen composite for clinical application

(HOYA Co.Ltd.) ○Daisuke Shoji・Mikio Shibasaki・Yuko Kozaka・Tomoji Takayama・Naomi Mochizuki・Shingo Shiotani・Katsumi Kawamura・Masahiro Hirano

Bioceramics / 複合材料

(14：30) (Chairman　相澤守)

2J23　Effect of carbonate addition on the dissolution behaviour of calcium-salted poly (γ-glutamic acid) / silica hybrid

(Nagoya Institute of Technology・Imperial College London) ○Jin Nakamura・(Imperial College London) Gowsihan Poologasundarampillai・Julian Jones・(Nagoya Institute of Technology) Toshihiro Kasuga

(14：45) (Chairman　小幡亜希子)

2J24　Effects of Hydrothermal Hot-pressing time on hardness of novel chitosan/apatite composite

(Osaka Prefecture University) ○Tomoyuki Tago・Takamasa Onoki・(Kansai Center IMR, Tohoku University) Mitsutaka Sato・(Osaka Prefecture University・Kansai Center IMR, Tohoku University) Atsushi Nakahira

2J25　Fabrication of medicinal agent-calcium phosphate composite layers by a laser-assisted biomimetic process.

(The University of Yamagata) ○Nao Matsuoka・(National Institute of Advanced Industrial Science and Technology) Ayako Oyane・Kenji Kawaguchi・Kenji Koga・Atsuo Ito・Yu Sogo・Naoto Koshizaki・(The University of Yamagata) Hidero Unuma

2J26　Study on Chemical State and Property Change of the Novel Calcium Phosphate Composite Material Synthesized by Wet Method

(Chukyo University) ○Yuto Nomura・Hiroko Hase・Toru Nonami

2J27　NMR Spectra of Octacalcium Phosphate with Suberic and Succinic Acids Co-incorporated in the Interlayers

(Yamaguchi University) ○Hirotaka Fujimori・Yoshiaki Miyamoto・(Nagoya University) Taishi Yokoi・Chikara Ohtsuki

★★ March 18 (Mon) (Room K) ★★

Pottery, Porcelain enamel / 陶磁器

(9：00) (Chairman　勝又哲裕)

2K01　Preparation of low-temperature sinterable porcelain by partial melt and strengthening

(Aichi institute of technology) ○Masaki Katayama・Yuichi Kobayashi・(Seto seido) Ryojiro Taniguchi

2K02　Development of lightweight tableware by amakusa pottery clay blended with tridymite

(Ceramic Research Center of Nagasaki) ○Masaaki Kohno・Norio Yamaguchi・Koichi Takeuchi

Characterization / 構造解析

(9：30) (Chairman　勝又哲裕)

2K03　Freezing Points at Ultra-High Temperatures in the ZrO_2-$GdO_{1.5}$ System by an Arc-Image Furnace and a Radiation Pyrometer

(Yamaguchi University) ○Hirotaka Fujimori・Ryosuke Sasaki・Hiroshi Mizumoto・Masashi Nakashima・(National Cheng Kung University, Taiwan) Masahiro Yoshimura

2K04　Crystal Structure Change and Oxide-Ion Diffusion of Nano-Crystalline Ceria-Zirconia $Ce_{0.5}Zr_{0.5}O_2$

(Tokyo Institute of Technology) ○Masatomo Yashima・Tomohiro Sekikawa・Daisuke Sato・Kazuki Omoto・(Toyohashi University of Technology) Hiromi Nakano

(10：15) (Chairman　藤森宏高)

2K06　Oxygen nonstoichiometry analysis of CeO2 grain boundaries by STEM and EELS

(The University of Tokyo) ○Bin Feng・Yukio Sato・Naoya Shibata・Tetsuya Tohei・Teruyasu Mizoguchi・(Tokyo Institute of Technology) Hajime Hojo・(Hokkaido University) Hiromichi Ohta・(The University of Tokyo・Tohoku University・JFCC) Yuichi Ikuhara

2K07　Domain and domain boundary structures in $La_{2/3-x}Li_{3x}TiO_3$

(Japan Fine Ceramics Center) ○Xiang Gao・Craig. A. J. Fisher・Yumi H. Ikuhara・Teiichi Kimura・Hiroki Moriwake・Akihide Kuwabara・(Toyota Motor Corporation) Hideki Oki・Takeshi Tojigamori・Kohama Keiichi・(Japan Fine Ceramics Center・The University of Tokyo) Yuichi Ikuhara

2K08　Tailoring Cation-Ordering by Sr content x in Perovskite-type Mixed ConductorsPr$Ba_{1-x}Sr_xCo_2O_{6-\delta}$ ($0 \leqq x \leqq 1$)

(Tokyo Inst. Tech.) ○Emi Kitagawa・Yi-Chin Chen・Uhi Fumi・Kazuki Omoto・Masatomo Yashima・(ANSTO) Jamas Hester・(Toyohashi Univ. Tech.) Hiromi Nakano

2K09　Discovery of a novel mixed conductor $BaNdInO_4$ with a new type of crystal structure

(Tokyo Institute of Technology) ○Kotaro Fujii・Yuichi Esaki・Kazuki Omoto・Masatomo Yashima

(14：00) (Chairman　戸田育民)

2K21　Determination of pore sizes of $(NH_4)_xH_{4-x}SiW_{12}O_{40}$ sponge crystals by molecular probe method
(The University of Hiroshima) ○Yusuke Morita・Tomoya Ishikawa・Kei Inumaru

2K22　Structure and formation mechanism of $(NH_4)_xH_{4-x}SiW_{12}O_{40}$ sponge crystals
(Hiroshima University) Tomoya Ishikawa・Takeshi Uyama・Yusuke Morita・○Kei Inumaru

2K23　Crystal structure, electron-density distribution and proton conduction of hydroxyapatite and carbonated hydroxyapatite
(Tokyo Institute of Technology) ○Naoyuki Kubo・Masatomo Yashima・Yukihiko Yonehara・Kazuki Omoto・Kotaro Fujii・(Yamaguchi University) Hirotaka Fujimori・(Keio University) Koji Ioku・(TOHOKU UNIVERSITY) Masanobu Kamitakahara・Woonkyoung Park・(Tokyo Institute of Technology) Toshiyuki Ikoma・Junzo Tanaka

Characterization / ガラス・フォトニクス材料解析

(14：45) (Chairman　犬丸啓)

2K24　Characterization of In-Flight Melted technology soda lime glasses using electrochemical techniques
(Tokyo Institute of Technology) ○Yugo Saeki・Tetsuji Yano・Tetsuo Kishi・(TOYO Glass Co. ltd.) Keizo Satoh・Masanori Iwamoto・Ysunori Ebihara・(NIMS) Satoru Inoue・(Tokyo Institute of Technology) Syuichi Shibata

2K25　Electrical and optical properties of hydrogenated amorphous carbon films
(Nagaoka University of Technology) ○Hisashi Yoshioka・Shigeo Ohshio・Ikumi Toda・Hiroyuki Muramatsu・Hidetoshi Saitoh

2K26　Effect of soft X-ray radiation on refractive index and extinction coefficient of hydrogenated amorphous carbon film
(Nagaoka University of Technology) ○Hisashi Yoshioka・Shigeo Ohshio・Keiji Komatsu・Ikumi Toda・Hiroyuki Muramatsu・Hidetoshi Saitoh・(University of Hyogo) Ryo Imai・Kazuhiro Kanda

2K27　Synthesis and crystal structure of $Li_3BP_2O_8$　(Tohoku University) ○Toru Hasegawa・Hisanori Yamane

★★ March 18 (Mon) (Room L) ★★

Cement / 硬化体その 1

(9：30) (Chairman　佐川孝広)

2L03　Measurement of the time-dependent diffusivity of Cl using $AgNO_3$ spray tests　(Taiheiyo Cement Corporation) ○Yoshifumi Hosokawa

2L04　Study on Inhibition of Chloride Ion Invasion for Cement Paste Hardened Body　(Nihon University) ○Koshiro Koizumi・Naomitsu Tsuyuki

Cement / 流動性・化学混和剤

(10：00) (Chairman　大宅淳一)

2L05　The quality control system by the calorimetry in the cement recycling system using sodium gluconate
(Tokyo Institute of Technology) ○Tetsuji Kamio・Daiki Atarashi・Yutaka Aikawa・Masahiro Miyauchi・Etsuo Sakai

2L06　The influence of K_2SO_4 and KF on fluidity of cement paste with comb-type superplasticizer
(Tokyo Institute of Technology) ○Kazuki Matsuzawa・Daiki Atarashi・Masahiro Miyauchi・Etsuo Sakai

2L07　Influence of molecular structure of superplasticizer in blended cement
(Tokyo institute of technology) ○Tomofumi Sasabe・Daiki Atarashi・(TAKEMOTO OIL & FAT Co., Ltd) Shinji Tamaki・(Tokyo institute of technology) Masahiro Miyauchi・Etsuo Sakai

2L08　Reaction of a $Ca(OH)_2$-spherical SiO_2 slurry, and dispersion of sub-micron particles
(Tokyo Institute of Technology) ○Yuuta Nakagawa・Daiki Atarashi・(DENKA) Akitoshi Araki・Hideaki Ishida・(Tokyo Institute of Technology) Masahiro Miyauti・Etsuo Sakai

Cement / 企業研究フロンティア講演

(11：00) (Chairman　浅賀喜与志)

2L09F　[Frontiers] Improvement in Durability of Cementitious Material Using The Carbonation Reaction　(Kajima corporation) ○Kenzo Watanabe

Cement / 混和材・高炉スラグ

(14：00) (Chairman　小泉公志郎)

2L21　Theoretical analysis for void fraction of cohesive particles with size distribution
(Tokyo Institute of Technology) ○Yutaka Aikawa・Daiki Atarashi・Etsuo Sakai

2L22　Strengthening of High Volume Blast-furnace Slag Cement Considering Packing Fraction of Particles
(Tokyo Institute of Technology) ○Takuya Nakazawa・Daiki Atarashi・Yutaka Aikawa・Masahiro Miyauchi・Etsuo Sakai・(D.C. CO.,LTD.) Nobukazu Nito・Kiyoshi Koibuchi

2L23　Effect of Anhydrite Content on Strength and Adiabatic Temperature Rise of High Volume of Blast-furnace Slag Cement
(Nippon Steel and Sumikin Cement) ○Takahiro Sagawa・(Nippon Steel and Sumikin Cement) Tsukasa Ogura

2L24　Effect of Fineness of High Volume Blast-furnace Slag Cement on Strength and Adiabatic Temperature Rise
(Nippon Steel&Sumikin Blast-Furnace Slag Cement Co.,Ltd,Japan) ○Yusuke Ohtsuka・(Nippon Steel&Sumikin Blast-Furnace Slag Cement Co.,Ltd,Japan) Yasutomo Ueki

Cement / 硬化体その 2

(15：00) (Chairman　細川佳史)

2L25　Synthesis of AFm phase in OPC-CaO・$2Al_2O_3$ system and its immobilization of Iodine
(Tokyo Institute of Technology) ○Kazuma Kuroiwa・Daiki Atarashi・(Nihon University) Junichi Ooya・(DENKA) Minoru Morioka・(Tokyo Institute of Technology) Masahiro Miyauchi・Etsuo Sakai

2L26　Characterization of the hardened cement pastes with additives with large water cement ratio for long time curing
(Teikyo University of Science) ○Kiyoshi Asaga・(Yamaguti University) Seishi Goto

2L27　3D observation of texture of hydrated cements　(yamaguchi university) ○Seishi Goto・(teikyou university of science) Kiyoshi Asaga

★★ March 19 (Tue) (Room A) ★★

Dielectric material / ナノ構造制御

(9：00) (Chairman　和田智志)

3A01A　[The 67th CerSJ Awards] Study on the electrical resistance degradation of multi-layer ceramic capacitors
(Taiyo Yuden Co.,Ltd.) ○Shinsuke Takeoka

3A03 Influence of Ca Substitution on Size Effect of $BaTiO_3$-based Ceramics
（Tokyo Institute of Technology）○Takahiro Yamazaki・Takuya Hoshina・Hiroaki Takeda・Takaaki Tsurumi

3A04 Contribution of ferroelectric domains to the tunability on $(Ba, Sr)TiO_3$
（Okayama University）○Takashi Teranishi・Tsuyoshi Sogabe・Hidetaka Hayashi・Akira Kishimoto

（10：00）（Chairman　寺西貴志）

3A05 Development of New High-performance Dielectric Materials by Nanodomain Engineering
（Yamanashi University）○Kaito Sasaki・Harumi Kamei・Ichirou Fujii・Shintarou Ueno・Kouichi Nakashima・Satoshi Wada

3A06 Fabrication of dielectric $SrTaO_2N$ ceramics
（Faculty of Engineering, Hokkaido University）○Shi-Kuan Sun・Ya-Ru Zhang・Yuji Masubuchi・Teruki Motohashi・Shinichi Kikkawa

Dielectric material / 産官学ミキシング

（10：45）（Chairman　舟窪浩）

3A08M （ユーザーサイド 2013）電子セラミックスの今日的課題 （Tokyo Institute of Technology）○Yukio Sakabe

3A10M Interaction between Mn and oxygen vacancy in $BaTiO_3$: Investigation by ESR measurements and theoretical calculations
（Murata Manufacturing Co., Ltd.）○Shunsuke Chikada・Teppei Kubota・Atsushi Honda・Shin’ichi Higai・Yasuhiro Mototyoshi・Nobuyuki Wada・Kosuke Shiratsuyu

3A11M Fabrication and characterization of $BaTiO_3$ nanocube ordered assembly by dip-coating on various substrates
（National Institute of Advanced Industrial Science and Technology）○Ken-ichi Mimura・Kazumi Kato

3A12M Relation of the dielectric breakdown strength and dielectric constant of $CaZr_{1-x}Ti_xO_3$ ceramics
（Tokyo Institute of Technology）○Tatsuya Izumi・Mikio Yamazaki・Takuya Hoshina・Hiroaki Takeda・Takaaki Tsurumi

Dielectric material / 圧電・焦電性評価

（13：00）（Chairman　永田肇）

3A17 Investigation of high-temperature electrical properties of piezoelectric silicate single crystals
（Tokyo Tech）○Hiroaki Noguchi・Manabu Hagiwara・Takuya Hoshina・Hiroaki Takeda・Takaaki Tsurumi

3A18 Determination of piezoelectric constant by an AC capacitive displacement technique （Shizuoka University）○Desheng Fu・Hisao Suzuki

3A19 Pyropelectric properties and electrocaloric effects of $BaTiO_3$-based and PLZT ceramics （Shonan Institute of Technology）○Hiroshi Maiwa

Dielectric material / 欠陥・構造制御

（13：45）（Chairman　武田博明）

3A20 Electrical resistivity of F-doped $BaTiO_3$-$(Bi_{1/2}Na_{1/2})TiO_3$ Ceramics
（Tokyo Institute of Technology）○Kazuki Kanehara・Satoshi Koyasu・Takuma Naito・Ryota Murai・Takahiro Isobe・Daiki Atarashi・Takuya Hoshina

3A21 Preparation of Potassium Niobate Porous Ceramics by Introduction of Nano Pores and the Piezoelectric Properties
（Univ. of Yamanashi）○Kazuki Maeda・Ichiro Fujii・Kouichi Nakashima・Sintaro Ueno・Satoshi Wada・（Honda R&D Co. Ltd）Gakuyo Fujimoto・Kazuhiro Suma・Toru Sukigara

Dielectric material / 配向プロセッシング

（14：15）（Chairman　野口祐二）

3A22 Fabrication of Textured Ceramics using Various Barium Titanate by Deposition in a Strong Magnetic field
（Yamanashi University）○Eigo Kobayashi・Takahiro Takei・Nobuhiro Kumada・Shintaro Ueno・Ichiro Fujii・Kouichi Nakashima・Satoshi Wada・（National Institute for Materials Science）Tohru Suzuki・Tetsuro Uchikoshi・Yoshio Sakka・（Murata Manufacturing）Yasunari Miwa・Shinichiro Kawada・Suetake Omiya・Noriyuki Kubodera・（Hiroshima University）Yoshihiro Kuroiwa

3A23 Crystal-oriented $(Bi_{0.5},Na_{0.5})_{1-x}Ba_xTiO_3$ prepared by colloidal processing in rotating magnetic field
（Nagaoka University of Technology）○Keisuke Sano・Satoshi Tanaka・Mitsuru Imai・Keizo Uematsu・（Taiyo Yuden Co. LTD.）Tomohiro Harada・Yutaka Doshida

3A24 Influence of orientation and porosity on transparency in c-axis oriented strontium barium niobate ceramics
（Nagaoka University of Technology）○Takuma Takahashi・Zenji Kato・Keizo Uematsu・Satoshi Tanaka

3A25 Orientation Control of $(K,Na)NbO_3$ Ceramics Using plate-like $NaNbO_3$ Particles Made by Single-step Molten Salt Synthesis
（The National Defense Academy）○Keisuke Ishii・Shinjiro Tashiro

Dielectric material / マルチフェロイック・新材料

（15：15）（Chairman　岡研吾）

3A26 Effect of Sc substitution in $LuFeO_3$
（The University of Tokyo）○Atsushi Ishimoto・Atsunobu Masuno・Hiroyuki Inoue・（Hiroshima University）Chikako Moriyoshi・Yoshihiro Kuroiwa

3A27 Synthesis and characterizations of the novel oxides Pb-Co-Te-O （Utsunomiya University）○Yue Jin Shan・Yukihiro Habe・Keitarou Tezuka

3A28 Multiferroic properties of $BiFeO_3$-$BaTiO_3$ based thick films
（Toyama Industrial Technology Center）○Tomoaki Futakuchi・Tatsunori Kakuda・Yuichi Sakai

3A29 High-pressure synthesis, structure and physical properties of novel polar A-site ordered double perovskite $MnCaTi_2O_6$.
（Gakushuin University）○Akihisa Aimi・Daisuke Mori・Ko-ichi Hiraki・Toshihiro Takahashi・（Utsunomiya University）Yue Jin Shan

★★ March 19 (Tue) (Room B) ★★

Electroconductive material / 酸化物半導体

（9：15）（Chairman　篠崎和夫）

3B02 Electrical Conduction Control on $(La, AE)(Cr,Mn)O_3$ (AE= Ca, Sr) NTC Thermistor Materials with A- site substitution
（Mitsubishi Materials Corporation）○Toshiaki Fujita・Kazutaka Fujiwara・Yoshihiro Higuchi・Noriaki Nagatomo

3B03 Thermoelectric properties of complex structure oxides
（Nagoya University）○Shinya Yamamoto・（Nagoya University・JST）Chunlei Wan・Kunihito Koumoto

Electroconductive material / 酸化物キャラクタリゼーション

（9：45）（Chairman　篠崎和夫）

3B04　Control of vacancy arrangement in $La_{1-x}TiO_3$ and its physical properties

（Toho University）○Daisuke Akahoshi・Shingo Sakai・Maiko Naya・Toshiaki Saito

（10：00）（Chairman　松石聡）

3B05　Structural phase transition and electrical conductivity of $Ba_{2-x}La_xFe_2O_{5+\delta}$

（Nihon University）○Takuya Hashimoto・Takashi Ohkiba・Eiki Niwa・（Tohoku University）Fumito Fujishiro

Electroconductive material / 複合アニオン

（10：15）（Chairman　松石聡）

3B06　A triple anion oxide $BaTi(O,H,F)_3$

（Kyoto University）○Naoya Masuda・Hajime Suzuki・Takafumi Yamamoto・Yoji Kobayashi・Hiroshi Kageyama

3B07　Anion Manipulation in ReO_3- and VF_3-type structures

（Kyoto University）○Yoji Kobayashi・Shingo Mitsuoka・Takafumi Yamamoto・Hiroshi Kageyama

Electroconductive material / 超伝導体

（11：00）（Chairman　田中功）

3B09　Synthesis of iron-based superconductor $SmFeAsO_{1-x}H_y$ single crystals

（Tokyo Institute of Technology）○Takashi Muramoto・Soshi Iimura・Satoru Matsuishi・Shuichi Shibata・Hideo Hosono

3B10　Superconductivity in oxygen-deficient $(RE,Ca)Ba_2Cu_3O_6$　（Tohoku University）Keon Kim・○Masatsune Kato・Takashi Noji・Yoji Koike

3B11　Novel superconductor $BaTi_2Sb_2O$ with a d^1 square lattice

（Kyoto University）○Takeshi Yajima・Kousuke Nakano・Fumitaka Takeiri・Yoji Kobayashi・Hiroshi Kageyama・（Osaka Prefecture University）Toshio Ono・Yuko Hosokoshi・（NIMS）Yoshitaka Matsushita・（ANSTO）James Hester

3B12　Structure and Superconductivity of $Mo_7Re_{13}C$ prepared by solid state method using planetary ball mill machine

（Chuo University）○Katsuyoshi OH-ISHI・Kazuya Tateishi・Hiromasa Miyake・Ryota Kobayashi

Electroconductive material / イオン伝導体

（13：00）（Chairman　林克郎）

3B17　Electrical properties of $Zr_{0.89}Sc_{0.10}M_{0.01}O_\alpha$ (M=Ce, Nd, Sm)

（Niihama National College of Technology）○Makoto Takata・Ryushiro Tokunaga・Susumu Nakayama・（Daiichi Kigenso Kagaku Kogyo Co. Ltd.）Fuminori Tamazaki・Yasushi Nakajima

3B18　Decarbonation and ionic conduction behaviors of Fluoride-substituted Carbonated apatite　（Kyushu University）○Marina Kawaji

3B19　Conduction characteristics of $La_{9.33}M_6O_{26}$ (M=Si, Ge) single-crystals grown from sintered ceramics by a seeding method

（Niihama National College of Technology）○Susumu Nakayama・（Yamagata University）Masatomi Sakamoto

（13：45）（Chairman　小林亮太）

3B20　Evaluation of polarization in yttria doped zirconia using thermally stimulated depolarization current measurements

（Tokyo Medical and Dental University）○Naohiro Horiuchi・Yu Tsuchiya・Norio Wada・Kosuke Nozaki・Miho Nakamura・Akiko Nagai・Kimihiro Yamashita・（Chiba Institute of Technology）Kazuaki Hashimoto

3B21　Li-ion introduction into organo-modified Mo_6S_8 and their reactivity

（Hiroshima University）○Teruhiko Hanaoka・（Mazda Motor Corporation）Hiroyuki Kai・Yoshinori Tsushio・（Hiroshima University）Kei Inumaru

3B22　Synthesis of $Ca_2Nb_3O_{10}$ nanosheets with a large size and their conductivity

（The University of Kyushu）○Shota Koga・Youhei Okamoto・（The University of Kyushu・JSTsakigake・International Institute for Carbon-Neutral Energy Research）Shintaro Ida・（The University of Kyushu）Hidehisa Hagiwara・（The University of Kyushu・International Institute for Carbon-Neutral Energy Research）Tatsumi Ishihara

★★ March 19 (Tue) (Room C) ★★

Vapor phase process / 受賞講演

（9：15）（Chairman　熊田伸弘）

3C02A　[The 67th CerSJ Awards] Proposal and demonstration of a supaerplastically foamed ceramics　（Okayama University）○Akira Kishimoto

Vapor phase process / レーザー

（9：45）（Chairman　岡元智一郎）

3C04　Epitaxial growth of anatase and rutile TiO_2 films by laser chemical vapor deposition　（Tohoku University）○Akihiko Ito・Takashi Goto

3C05　High-rate growth of $Li_7La_3Zr_2O_{12}$ film by laser CVD

（Tohoku University）○Hirokazu Katsui・Ryosuke Shimizu・Takashi Goto・（Toyota Motor Corp.）Toshiya Saito・Keiichi Kohama

3C06　High-speed deposition of (110)-oriented $LiAl_5O_8$ films by laser chemical vapor deposition

（Tohoku Univ. IMR）○Chi Chen・Katsui Hirokazu・（WuHan Univ. Tech.）Tu Rong・（Tohoku Univ. IMR）Goto Takashi

3C07　Effects of aging for spontaneously formed superlattice period in Nb-$SrTiO_3$ thin films prepared using dynamic aurora PLD

（Shizuoka University）○Hayato Ishii・Naonori Sakamoto・（Tokyo Institute of Technology）Kazuo Shinozaki・（Shizuoka University）Hisao Suzuki・Naoki Wakiya

Vapor phase process / CVD/エピタキシャル

（10：45）（Chairman　後藤孝）

3C08　Amorphous hydrogenated carbon films deposited with benzene by PECVD method

（Nagaoka University of Technology）○Xiaolong Zhou・Ikumi Toda・Shigeo Ohshio・Hiroyuki Muramatsu・Hidetoshi Saitoh

3C09　Morphology of MgO epitaxial films

（Nagaoka University of Technology）○David Pineda Marulanda・Keiji Komatsu・Shigeo Ohshio・Ikumi Toda・Hiroyuki Muramatsu・Hidetoshi Saitoh

3C10　Fabrication of InN films on a-plane sapphire substrate and YSZ(111) substrate by AP-HCVD

（Shizuoka University）○Tatsuya Kogane・Hiroaki Yokoo・Naonori Sakamoto・Naoki Wakiya・Hisao Suzuki

3C11 Infruence of initial Pt layer for crystal growth of Cr_2O_3/$LiNbO_3$/Cr_2O_3 multilayer
（Nagoya Institute of Technology）○Koji Ichikawa・Takeshi Yokota・Rempei Imura・Manabu Gomi

Liquid phase process / 薄膜

(13：00)（Chairman 橋本忍）

3C17 Preparation of IZO transparent conductive thin film by microwave heating.
（Shizuoka University）○Masayuki Okuya・Sakae Muto・Yosuke Kawabata

3C18 Preparation of LATP solid electrolyte thin film by spray pyrolysis method.
（Osaka Municipal Technical Research Institute・Osaka Institute of Technology）○Kazuki Ohno・（Osaka Municipal Technical Research Institute）Masanari Takahashi・（Konan University）Nobuya Machida・（Osaka Municipal Technical Research Institute）Mari Yamamoto・Yukiyasu Kashiwagi・Masashi Saitoh

Liquid phase process / 受賞講演

(13：30)（Chairman 林滋生）

3C19A [The 67th CerSJ Awards] Ceramics Shaping Based on Electrophoretic Phenomenon of Colloidal Particles
（National Institute for Materials Science）○Tetsuo Uchikoshi

Liquid phase process / ナノシート

(14：00)（Chairman 林滋生）

3C21 Temperature-controlled reversible exfoliation-reassembling of titanate nanosheets
（Nagasaki University）○Kai Kamada・Hisanori Kobayashi・Suguru Tsukahara

3C22 Electrophoretic Deposition Using Aqueous Titanium Oxide Nanosheet Colloid （Shinshu University）○Shoji Ikuta・Wataru Sugimoto

Liquid phase process / 受賞講演

(14：30)（Chairman 増田佳丈）

3C23A [The 67th CerSJ Awards] Redox solution route to functional ceramics （Kyoto University）○Masayuki Nishi

Liquid phase process / ナノ粒子

(15：00)（Chairman 増田佳丈）

3C25 Role of solvent in selective growth of gold nanoparticles on induced amorphous silicon
（Kyoto University）○Hiroki Itasaka・Masayuki Nishi・Kazuyuki Hirao

(15：30)（Chairman 奥谷昌之）

3C27 Hydrothermal Synthesis of Carboxylate-modified Ceria Nanocrystals
（Nagoya Institute of Technology）○Katsutoshi Kobayashi・Masaaki Haneda・Masakuni Ozawa

3C28 Synthesis process of alpha-Al_2O_3 nanoparticles in solution plasma.
（Gifu University）○Yuta Imaeda・Michiyuki Yoshida・（Gifu Prefectural Ceramics Research Institute）Seizo Obata・（Gifu University）Yutaka Ohya・Osamu Sakurada

3C29 Synthesis of highly dispered and homogeneous nanoparticles of titanium oxide by solvothermal method with polymer gel
（University of Yamanashi）○Kenta Ohshima・Kouichi Nakashima・Shintaro Ueno・Ichiro Fujii・Satoshi Wada

3C30 Synthesis of gamma-alumina large grain particles for dispersion medium
（National Institute of Advanced Industrial Science and Technology (AIST)）○Toshio Itoh・Toshio Uchida・Ichiro Matsubara・Noriya Izu・Woosuck Shin・（New Cosmos Electric Co. Ltd.）Hirosho Miyazaki・Hiromasa Tanjo・Keisen Kanda

3C31 Uniform deposition of YSZ nanoparticles on NiO powders
（Tokyo University of Science）○Sayaka Nakamura・Kenjiro Fujimoto・Shigeru Ito・（Tokyo Institute of Technology）Shin Mimuro・Ken-ichi Katsumata・Kiyoshi Okada・Nobuhiro Matsushita

★★ March 19 (Tue) (Room D) ★★

Liquid phase process / 酸化チタン

(9：00)（Chairman 細野英司）

3D01 Photo-oxidation of ethanol on acid-leached titanium oxide / apatite composite
（Kanagawa Industrial Technology Center）○Yosuke Ono・Takeshi Rachi・Masahiro Yokouchi・Yoshihito Kamimoto・（Tokyo Institute of Technology）Akira Nakajima・Kiyoshi Okada

3D02 The effect of ionic liquid for formation of highly crystalline anatase nanoparticles in solution
（KRI, Inc.・Keio University）○Ayami Suzuki・（KRI, Inc.）Hideki Yamaguchi・（Keio University）Hiroyuki Kageyama・Yuya Oaki・Hiroaki Imai

3D03 Low temperature synthesis of porous titanium oxide using water soluble titanium complexes
（Hiroshima University）○I. Shimizu・K. Katagiri・K. Inumaru

3D04 Feasibility of Megahertz Ultrasound for Sonoprocess of Ceramic Materials
（Kyushu University）○Naoya Enomoto・Toshikazu Miyajima・Miki Inada・Yumi Tanaka・Junichi Hojo

(10：00)（Chairman 榎本尚也）

3D05 Titanate nanotube brushes for superhydrophobic adhesive surface
（Osaka Prefecture University）○Kenji Okada・Atsushi Nakahira・Yasuaki Tokudome・Masahide Takahashi

3D06 Photocatalytic properties of Nd and C codoped TiO_2 in the whole visible light range
（Tohoku University）○Xiaoyong Wu・Qiang Dong・Shu Yin・Tsugio Sato

Liquid phase process / 受賞講演

(10：45)（Chairman 片桐清文）

3D08A Precise and accurate synthesis of high-performanced photo-functional materials by chemical solution processes （Tokai University）○Koji Tomita

Liquid phase process / 酸化亜鉛

(11：15)（Chairman 片桐清文）

3D10 Synthesis of Cubic-Shaped Porous ZnO via Morphology Control of Metal-Organic Frameworks (MOFs)
（National Institute of Advanced Industrial Science and Technology）○Eiji Hosono・（Keio University）Yu Kimitsuka・（University of Yamanashi）Shintaro Ueno・（National Institute of Advanced Industrial Science and Technology）Haoshen Zhou・（Keio University）Shinobu Fujihara

3D11 Investigation of formation process of ZnO nanoparticles in ethylene glycol solution with sugar
（Chiba University）○Naofumi Uekawa・Tatsuya Fujino・Takashi Kojima・Kazuyuki Kakegawa

3D12 Growth of Zinc Oxide Crystals by Flux Thermal Decomposition method using choline chloride and urea based DES
（Shinshu University）○Hajime Wagata・Takuya Nagashima・Shuji Oishi・Katsuya Teshima

Liquid phase process / リン酸カルシウム

（13：00）（Chairman　小林亮）

3D17 Formation mechanism of rod arrays of hydroxyapatite crystal on borosilicate glass
（Okayama University）○Takahiro Miyake・Satoshi Hayakawa・Akiyoshi Osaka

3D18 Calcium phosphate coating on ceramic substrates by a laser-assisted biomimetic process.
（The National Institute of Advanced Industrial Science and Technology (AIST)）○Ayako Oyane・Ikuko Sakamaki・Yoshiki Shimizu・Kenji Kawaguchi・Atsuo Ito・Yu Sogo・Naoto Koshizaki

3D19 Effects of the intermittent flow of a simulated body fluid on the production of calcium phosphate in a confined space
（Niigata University）Hiroaki Sato・Yoshinari Taguchi・○Isao Kimura

Liquid phase process / 水熱プロセス

（13：45）（Chairman　小林亮）

3D20 Synthesis of nanostructured titanate and titanium dioxide particles synthesized using titanium phosphate particles
（Saga University）○Yuko Inoue・Yuya Matsushita・Toshio Torikai・Takanori Watari・Mitsunori Yada

（14：00）（Chairman　矢田光徳）

3D21 Hydrothermal synthesis of monodisperse $BiFeO_3$ microspheres with core-shell structure
（Osaka Prefecture University）○Kazumasa Suzuki・Yasuaki Tokudome・Masahide Takahashi

3D22 Synthesis and characterization of Ba-Ta complex oxides by hydrothermal method
（Tokai University）○Soichi Takasugi・Yuma Matsumoto・Koji Tomita・（Tohoku University）Hideki Kato・Masato Kakihana

3D23 Preparation of Fine Particles Consisting of Europium Niobate and Zirconia by Hydrothermal Method
（Aichi Institute of Technology）○Masanori Hirano・Hayato Dozono

3D24 Synthesis and characterization of a crystalline aluminum fluoroorganophosphonate
（Tokyo University of Agricultute and Technology）○Tetsufumi Kawai・Atsushi Kondo・Kazuyuki Maeda

3D25 Growth mechanism of amphipathic ceria nanoparticles synthesized by oleate modified hydrothermal growth method
（Tokyo Institute of technology）○Yuki Makinose・（Kumamoto University）Takaaki Taniguchi・（Tokyo Institute of technology）Ken-ichi Katumata・Kiyoshi Okada・Nobuhiro Matusita

Liquid phase process / ナノ粒子

（15：15）（Chairman　松下伸広）

3D26 Preparation of Copper Nitride Particles in Alcohol Solvent and Its Thermal Decomposition Property
（National Institute of Advanced Industrial Science and Technology）○Takashi Nakamura・Takeo Ebina・Hiromichi Hayashi・Takaaki Hanaoka

3D27 Solid-liquid Sustainable Fabrication of Clean Platinum Nanoparticle Featuring by Water solvent and Dispersant-free
（Tohoku university）○Yamato Hayashi・Jun Fukushima・Hirotsugu Takizawa・（Shikoku Instrumentation）Katsuyuki Kunii

3D28 Syntheses and assembly of Mn_3O_4 rectangular nanoblocks
（keio university）○Yoshitaka Nakagawa・Hiroyuki Kageyama・Yuya Oaki・Hiroaki Imai

Liquid phase process / 錯体プロセス

（16：00）（Chairman　鵜沼英郎）

3D29 Synthesis of $Li_2Mn_{0.8}Fe_{0.2}SiO_4$ by using propylene glycol modified silane
（Sumitomo Metal Mining Co., Ltd.）○Ryosuke Okamoto・Ryozo Ushio・（DENSO CORPORATION）Yoshinori Satoh・Shigeki Komine・（Tohoku University）Satoko Tezuka・Masato Kakihana

3D30 Synthesis and Classification of WC and W metals via Organic-Inorganic Complex Precursors　（Osaka Prefecture University）○Takamasa Onoki

3D31 Electrospinning of ferroelectric $(Na,K)NbO_3$ fiber through citrate precursor route
（Nagoya Institute of Technology）○Minato Kato・Ken-ichi Kakimoto・Isao Kagomiya

3D32 Development of a novel iron compound by a thermal treatment of an aqueous solution of an iron-picolinato complex
（Tohoku University）○Junki Sato・Makoto Kobayashi・Hideki Kato・Masato Kakihana

★★ March 19 (Tue) (Room E) ★★

Glass and photonic materials / 蛍光体（可視 Mn）

（9：00）（Chairman　井原梨恵）

3E01 Synthesis and characterization of Mn-activated lithium aluminate red phosphors
（Nagoya Institute of Technology）○Masahiro Aoyama・Yusuke Amano・（Mie Industrial Research Institute）Koji Inoue・（Nagoya Institute of Technology）Sawao Honda・Shinobu Hashimoto・Yuji Iwamoto

3E02 Photoluminescence and Photoluminescence Excitation Properties of Mn^{4+}-doped $Mg_{1.8}R_{0.2}TiO_4$ (R = B, Al, Ga)
（Nagoya Institute of Technology）○Naohiro Okumura・Tomokatsu Hayakawa

Glass and photonic materials / 蛍光体（可視 Eu）

（9：30）（Chairman　井原梨恵）

3E03 Luminescent Properties of Lanthanide Oxide Phosphor Modified by Biocompatible Organic Compounds
（National Institute of Advanced Industrial Science and Technology (AIST)）○Tetsuro Jin・Tomoyo Ochiishi・（University of Hyogo）Yusuke Daiko・Tetsuo Yazawa

3E04 Sol-Gel Synthesis and Photoluminescence Properties of Eu^{3+}-doped GdF_3-SiO_2 Nanocomposites
（Nagoya Institute of Technology）○Kei Nishisita・Tomokatsu Hayakawa

（9：45）（Chairman　西正之）

3E05 Deposition of $GdBO_33:Eu^{3+}$ crystal in alkali borosilicate glass
（University of Hyogo）○Hiroaki Usui・Yusuke Daiko・Atsushi Mineshige・（National Institute of Advanced Industrial Science and Technology）Tomoyo Ochiishi・Tetsuro Jin・（University of Hyogo）Tetsuo Yazawa

3E06 The relation between the sites substituted by Eu^{3+} cations and PL properties of $CaZrO_3$-based perovskite phosphors
（Nagoya Institute of Technology）○Satoshi Sakaida・Toru Asaka・Akikazu Fujiwara・Yohei Shimokawa・Sawao Honda・Yuji Iwamoto

（10：30）（Chairman　田部勢津久）

3E07 Synthesis and luminescence properties of orange-red phosphor $SrCaSiO_4$:Eu^{2+} using propylene glycol-modified silane
（Sumitomo Metal Mining Co., Ltd）○Tetsufumi Komukai・Yuji Takatsuka・Jun Yokoyama・Shoji Takanashi・Naomi Suzuki・Ryozo Ushio・（Tohoku University）Masato Kakihana・Satoko Tezuka・Yasushi Sato・Hideki Kato

3E08 Luminescence properties of a new phosphate phosphor $KSrY(PO_4)_2$:Eu^{2+}
（Tohoku University）○Akiko Saito・Hideki Kato・Makoto Kobayashi・Masato Kakihana

Glass and photonic materials / 蛍光体（可視 Pr）

（11：00）（Chairman　田部勢津久）

3E09 Preparation, characterization and optical properties of Pr-doped chalcohalide glasses
（Kyoto Institute of Technology）○Kuniyoshi Kuroda・Takashi Wakasugi・Kohei Kadono・（Osaka University）Yasushi Fujimoto

（11：15）（Chairman　早川知克）

3E10 Variation of optical properties in Pr^{3+} doped Y_2O_3 ceramics by Zr doping　（Kyoto University）Hideki Tomimoto・Junpei Ueda・○Setsuhisa Tanabe

3E11 Electroluminescence properties of multilayers in which $Ca_{0.6}Sr_{0.4}TiO_3$:Pr and SnO_2:Sb are alternately stacked
（Gunma University）○Toru Kyomen・Minoru Hanaya・（National Institute of Advanced Industrial Science and Technology）Hiroshi Takashima

Glass and photonic materials / 蛍光体（可視 Ag）

（11：45）（Chairman　早川知克）

3E12 Fluorescence spectra of silver incorporated into aluminoborosilicate glasses through ion exchange
（Kyoto Institute of Technology）○Noriyuki Akiyama・Takashi Wakasugi・Kohei Kadono

Glass and photonic materials / 蛍光体（可視 Tb）

（13：00）（Chairman　植田和茂）

3E17 The Relationship between Structure and Luminescence Switching Properties of $CePO_4$:Tb^{3+}
（Keio University）○Shinobu Fujihara・Yuina Takano・Mami Kitsuda

3E18 Preparation of Tb^{3+}-doped HfO_2 phosphor powders by urea hydrolysis coprecipitation
（Ritsumeikan University）○Yuichiro Takeshita・Tomoe Sanada・Kazuo Kojima・（Suzuka National College of Technology）Noriyuki Wada

3E19 Synthesis and characterization of sol-gel-derived monolithic silica glasses containing $TbPO_4$ nanocrystallites
（Tokyo Metropolitan University）○Shiori Yamaguchi・Ken Kaneko・Kouichi Kajihara・Kiyoshi Kanamura

Glass and photonic materials / 蛍光体（紫外）

（13：45）（Chairman　梶原浩一）

3E20 Preparation and UV Emission of Gd^{3+}-Pr^{3+} Codoped $YAlO_3$ Perovskite Thin Film
（Kyushu Institute of Technology）○Yuhei Shimizu・Yasukazu Takano・Kazushige Ueda

Glass and photonic materials / 蛍光体（シンチレータ）

（14：00）（Chairman　梶原浩一）

3E21 Evaluation of scintillation properties of Nd-doped $Y_3Al_5O_{12}$
（KIT）○Takayuki Yanagida・（Tohoku Univ.）Yutaka Fujimoto・（Konoshima Chemical）Hideki Yagi・Takagimi Yanagitani

3E22 Optical and scintillation properties of CaO-Al_2O_3-B_2O_3 glasses
（Tohoku University）○Yutaka Fujimoto・（Kyushu Institute of Technology）Takayuki Yanagida・（Tohoku University）Shingo Wakahara・（Kyoto University）Hirokazu Masai・（Tohoku University）Yoshisuke Futami・Akira Yoshikawa

★★ March 19 (Tue) (Room F) ★★

Glass and photonic materials / 結晶化ガラス

（9：30）（Chairman　本間剛）

3F03 Thermal and crystallization properties of Bi_2O_3-ZnO-B_2O_3-SiO_2 glasses for sealing materials
（Tohoku University）○Hironobu Takahashi・Rie Ihara・Yoshihiro Takahashi・Takumi Fujiwara

3F04 Isothermal crystallization kinetics of stoichiometric glass-ceramics based on the degree of crystallization evaluations
（Okayama University）○Shunsuke Sakamoto・Shinichi Sakida・Yasuhiko Benino・Tokuro Nanmba

（10：00）（Chairman　増野敦信）

3F05 Basic study on phosphate-based $Sr_{0.5}Ba_{0.5}Nb_2O_6$ glass-ceramics
（Kyoto University）○Hirokazu Masai・Ryota Shirai・Yomei Tokuda・Toshinobu Yoko

3F06 Effect of heat treatment on crystallinity and microstructure of Cu_2O thin film prepared by electric current heating
（Nagaoka University of Technology）○Ko Yamazaki・Yuichiro Kuroki・Tomoichiro Okamoto・Masasuke Takata

3F07 Fabrication and crystallization behavior of rare earth tungsten borate glasses
（Nagaoka University of Technology）○Yukina Taki・Tsuyoshi Honma・Takayuki Komatsu

Glass and photonic materials / 無容器法

（11：00）（Chairman　岸哲生）

3F09 Fluorescence line narrowing spectroscopy of Eu^{3+} in La_2O_3-B_2O_3 glasses
（The University of Tokyo）○Atsuki Saito・Atsunobu Masuno・Hiroyuki Inoue

3F10 Rare-earth alumina glasses prepared by aerodynamic leviation method
（The University of Tokyo）○Yasuhiro Watanabe・Atsunobu Masuno・Hiroyuki Inoue

3F11 Optical properties of high refractive index La_2O_3-WO_3 glasses prepared by containerless processing
（The University of Tokyo）○Atsunobu Masuno・Kohei Yoshimoto・Hiroyuki Inoue・Yasuhiro Watanabe

★★ March 19 (Tue) (Room G) ★★

Environment and energy related material / プロセス

(9：00) (Chairman　勝又健一)

3G01　Characterization of Geopolymer including Cupper
(Nagoya Institute of Technology) ○Hayami Takeda・Shinobu Hashimoto・Sawao Honda・Yuji Iwamoto

3G02　Growth of calcite single crystals for stress sensor
(Kochi University) ○Tomomi Gotoda・Ayumu Onda・Kazumichi Yanagisawa・
(Japan Agency for Marine-Earth Science and Technology) Arito Sakaguchi・Hide Sakaguchi

3G03　Characteristics and Applications of Iron Oxide Produced by Bacteria
(Okayama University) ○Ryo Sakuma・Hideki Hashimoto・Hiroshi Asaoka・(Kurashiki University of Science and the Arts) Yoshihiro Kusano・
(Research Institute for Production Development) Yasunori Ikeda・(Okayama University) Makoto Nakanishi・
Tatsuo Fujii・(Kyoto University) Mikio Takano・(Okayama University・JST CREST) Jun Takada

3G04　Formation of Silica Hollow Nanoparticles by Block Copolymers Bearing Amino Groups
(The University of Tokyo) ○Sachio Tsuboike・Ayae SUGAWARA-NARUTAKI・Atsushi Shimojima・
Tatsuya Okubo・(Osaka University) Yukari Oda・Sadahito Aoshima

Environment and energy related material / 酸素吸蔵

(10：00) (Chairman　伊東洋典)

3G05　Oxygen storage capacity of $CuFeO_2$-Pt nanocomposite particles synthesized by microwave irradiation
(The University of Tohoku) ○Takumi Nakajima・Yamato Hayashi・Jun Fukushima・Hirotsugu Takizawa

3G06　Effects of temperature and atmosphere on the oxygen intake behavior of brownmillerite-type $Ca_2AlMnO_{5+\delta}$
(Hokkaido University) ○Teruki Motohashi・Yuka Hirano・Yuji Masubuchi・Shinichi Kikkawa

Environment and energy related material / 水熱合成

(10：30) (Chairman　伴隆幸)

3G07　Structure control of C-S-H gels and its water purification ability
(Tohoku University) ○Toshiyuki Abe・(Nagoya Institute of Technology) Hirotaka Maeda・
Toshihiro Kasuga・(Tohoku University) Yuko Suto・Hideki Ishida

Environment and energy related material / ゼオライト

(10：45) (Chairman　伴隆幸)

3G08　Orientation Control of Mordenite Zeolite in Strong Magnetic Field -Effect of Applied Static or Rotating Magnetic Field-
(Kumamoto University) ○Chika Matsunaga・Motohide Matsuda・(National Institute for Materials Science)
Tetsuo Uchikoshi・Tohru Suzuki・Yoshio Sakka

3G09　Hydrothermal Transformation of Oriented-Controlled Mordenite Precursor into Oriented Dense Film
(Kumamoto University) ○Chika Matsunaga・Motohide Matsuda・(National Institute for Materials Science)
Tetsuo Uchikoshi・Tohru Suzuki・Yoshio Sakka

(11：15) (Chairman　松田元秀)

3G10　Synthesis and Characterization of Humidity Conditioning of Consolidated Zeolite from Rice Husk Ash
(Kyoto Institute of Technology) ○Kosuke Marutani・Takeshi Shiono・Yasunori Okamoto・(SK Mineral Co.,Ltd.)
Umeo Sofue・(Marusen Ceramic Material Co.,Ltd.) Shigenobu Maki・(Sekisui Chemical Co.,Ltd.) Hiroyuki Takihana

3G11　Synthesis of Zeolite from LCD panel glass
(Sharp Corporation・Osaka Prefecture University) ○Masato Tsujiguchi・(Sharp Corporation) Tadashi Kobashi・
Junji Kanbara・Yasuhiko Utsumi・Nobuaki Kakimori・(Osaka Prefecture University) Atsushi Nakahira

3G12　Preparation and evaluation of bulk-like zeolites with machinability
(Okayama University) ○Eisaku Igi・Syunnsuke Nishimoto・Yoshikazu Kameshima・Michihiro Miyake

Environment and energy related material / 層状複水酸化物

(13：00) (Chairman　亀島欣一)

3G17　Preparation of Transition Metal – Contained Layered Double Hydroxide – Polyaniln Hybrid
(University of Yamanashi) ○Takahiro Takei・Masatoshi Kera・Akira Miura・Nobuhiro Kumada

3G18　Effect of Ni/Al ratio on nitrate selective ability of Ni/Al-type layered double hydroxide
(Shimane University) ○Ryo Sasai・Hiroaki Sato・(Hiroshima University) Kouichi Hoashi・Chikako Moriyoshi・Yoshihiro Kuroiwa

3G19　Relationship between crystal structure and anion selectivity of Mg/Al-type layered double hydroxide
(Hiroshima University) ○Chikako Moriyoshi・Hirokazu Hoashi・Yoshiki Matsuoka・
Yoshihiro Kuroiwa・(Shimane University) Hiroaki Sato・Ryo Sasai

3G20　Preparation and gas barrier properties of organic-inorganic hybrid gas barrier films using layered double hydroxide
(Kobe University) ○Koji Kuraoka・Tsuyoshi Shiono・Kazuto Yamashiro・(Tayca Corporation) Takeshi Okumiya

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

(14：00) (Chairman　笹井亮)

3G21　Photocatalytic conversion of CO_2 over Zn-Cr layered double hydroxides
(Tokyo Institute of Technology) ○Ken-ichi Katsumata・Kei Ikeda・Kazuya Sakai・
Yuki Makinose・Toshihiro Isobe・Nobuhiro Matsushita・Kiyoshi Okada

3G22　Photocatalytic property evaluation of glass-ceramics containing anatase type TiO_2
(Niihama National college of Technology) ○Atsumi Nitta・Yuki Sakamoto・Chikara Tsutsumi・Tadashi Ohuchi・Shin Kira

3G23　Effect of thermal treatment for photocatalytic property of nitrogen doped TiO_2 sol/clay composite
(Okayama University) ○Yoshikazu Kameshima・Jiannan Hsing・Ryosuke Yoshioka・Takayuki Mano・Shunsuke Nishimoto・MIchihiro Miyake

3G24　Interfacial modification for $CaFe_2O_4/WO_3$ photocatalyst　(Tokyo Institute of Technology・PRESTO, JST) ○Yuuya Nukui

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

(15：00)（Chairman　西本俊介）

3G25　Development of $Ag_2Mo_2O_7$ nanowire photocatalyst
（Niigata University）○Shotaro Kazama・（Niigata University・PRESTO/JST）Kenji Saito・（Niigata University）Tatsuto Yui・（Niigata University・PRESTO/JST）Masayuki Yagi

3G26　Preparation of Ag nanoparticle/TiO_2 nanotube array complex and the photo-chemical characteristics
（Toyohashi University of Technology）○Hayato Ohmi・Go Kawamura・Hiroyuki Muto・Atsunori Matsuda

3G27　Influence of Cr addition on catalytic function of titanium oxide nanotubes
（Tohoku University）○Hiroki Tsukamoto・Tohru Sekino・Koki Kaga・Se-hoon Kim・Shun-ichiro Tanaka

3G28　AAO-template assisted synthesis and evaluation of TiO_2 nanomaterials
（University of Tsukuba）○Kazufumi Aisu・（National Institute for Materials Science）Tohru S. Suzuki・（University of Tsukuba）Yoshikazu Suzuki

(16：00)（Chairman　松下祥子）

3G29　Photocatalytic water treatment combined with ozonation using porous TiO_2 photocatalyst powder
（Okayama University）○Syun Ishibashi・Syunsuke Nishimoto・Yoshikazu Kameshima・Michihiro Miyake

3G30　Modified TiO_2-based nanotubes synthesized by hydrothermal route and its optical and photocatalytic properties
（Tohoku University）○Se Hoon Kim・Tohru Sekino・Satoshi Tsukuda・Shun-Ichiro Tanaka

3G31　Continuous decomposition of acetaldehyde by a full-time active type composite photocatalyst
（IMRAM, Tohoku University）○Shu Yin・Huihui Li・Qiang Dong・Tsugio Sato

3G32　Micro-structure formation of titania nano-dots by rapid solidification of titania/silica binary liquid phase
（Nihon University）○Hiroshi Iwano・（Nihon University）Shunkichi Ueno

★★ March 19 (Tue) (Room H) ★★

Enginieering ceramics / 機械的性質

(9：15)（Chairman　楠瀬尚史）

3H02　Hardness and fracture toughness of arc-melted TiB_2-TiC_xN_{1-x} eutectic composite
（Tohoku University）○Jianfeng Cheng・Hirokazu Katsui・Rong Tu・Takashi Goto

3H03　Hardness-fracture toughness relationship in WC-FeAl hard materials
（National Institute of Advanced Industrial Science and Technology）○Ryoichi Furushima・Kiyotaka Katou・Koji Shimojima・Hiroyuki Hosokawa・Akihiro Matsumoto

3H04　Measurements of Fracture Toughness of Thin Ceramic Substrates for Power Modules
（National Institute of Advanced Industrial Science and Technology）○Hiroyuki Miyazaki・Yu-ichi Yoshizawa・Kiyoshi Hirao・Tatsuki Ohji

(10：00)（Chairman　宮崎広行）

3H05　Influence of carbon nanofiber content on microstructure development and fracture toughness of CNFs/alumina composites
（Shinshu University）○Naoki Ueda・Tomohiko Yamakami・Tomohiro Yamaguchi・Morinobu Endo・Naoto Saito・Seiichi Taruta

3H06　Mechanical and Thermal Properties of Boron Carbide/Carbon Nanotubes Composites
（Tokyo Institute of Technology）○Tomohiro Kobayashi・Katsumi Yoshida・Toyohiko Yano

3H07　Synthesis of BN Fillers Heat Treated with Oxide Additives and Thermal Conductivity of Their Epoxy Hybrid Materials
（Kagawa University）○Takafumi Kusunose・（National Institute of Advanced Industrial Science and Technology）Takashi Yagi・（Tohoku University）Tohru Sekino

Enginieering ceramics / 熱的性質

(11：00)（Chairman　吉田克己）

3H09　Thermal conductivity and fabrication of ZrO_2-$La_2Zr_2O_7$ composites by SPS
（National Institute for Materials Science）○Byung-Koog Jang・Yoshio Sakka

3H10　Effect of Additives on Gas Shielding Properties of Al_2TiO_5 Ceramics
（Japan Fine Ceramics Center）○Tsuneaki Matsudaira・Masashi Wada・Satoshi Kitaoka・（Gifu University）Osamu Sakurada・Yutaka Ohya

Enginieering ceramics / 破壊

(11：30)（Chairman　安田公一）

3H11　Microstructures and Fatigue Properties of Porous Alumina for Support Substrates of Ceramic Membranes
（Nagoya Institute of Technology）○Sawao Honda・（Noritake Co., Ltd.）Tomokazu Eda・Hirokazu Watanabe・（Nagoya Institute of Technology・Noritake Co., Ltd.）Keita Miyajima・（Nagoya Institute of Technology）Shinobu Hashimoto・Yuji Iwamoto

3H12　Fracture Criterion of Discontinuous Carbon Fiber-Dispersed SiC Matrix Composite under I+II Mixed Mode Loading Condition
（The University of Tokyo）○Ryo Inoue・Hideki Kakisawa・（The University of Tokyo・National Institute for Materials Science）Yutaka Kagawa・（The University of Tokyo・University of California, Los Angeles）Jenn-Ming Yang

Enginieering ceramics / 高温特性

(13：00)（Chairman　塩野剛司）

3H17　In-situ observation of Rumpling Behavior of TGO Layer at high temperature by UV illumination
（The University of Tokyo）○Hayato Suzuki・Yali Dong・Hideki Kakisawa・Yutaka Kagawa

3H18　Strain Measurement of Ceramics at High Temperature Using DIC
（The Department of Engineering, The university of Tokyo）○Yali Dong・（Research center for advanced science and technology (rcast), the University of Tokyo, 4-6-1 komaba, Meguro-ku,Tokyo）Hideki Kakisawa・Yutaka Kagawa

3H19　Effect of carbon concentration on the crack propagation in MgO-C bricks
（Tokyo Institute of Technology）○Yusuke Minami・Takasshi Akatsu・Yutaka Shinoda・Fumihiro Wakai

(13：45)（Chairman　赤津隆）

3H20A　[The 67th CerSJ Awards] The Properties of Lightweight Castable used Glass balloon as Aggregates
（NIHON TOKUSHU ROZAI Co., Ltd.）○Koji Nishijima

3H22 Thermal annealing behavior of neutron irradiated-Si_3N_4 and SiAlON ceramics
（Department of Nuclear Engineering, Tokyo Institute of Technology）○Areerak Rueanngoen・（Research Laboratory for Nuclear Reactors, Tokyo Institute of Technology）Masamitsu Imai・Katsumi Yoshida・Toyohiko Yano

（14：30）（Chairman　塩田忠）

3H23 Study of oxidation behavior and mechanical property of nanocrystalline HfO_2-SiC composite （Tokyo institute of Technology）○Yusei Minoguchi

3H24 High-temperature Deformation Mechanism of Y-TZP -Al_2O_3 Composites
（Kyoto Institute of Technology）○Shun Enomoto・Yuki Kaneda・Yasunori Okamoto・Takeshi Shiono

★★ March 19 (Tue) (Room I) ★★

Energy reference material / 電極触媒

（9：00）（Chairman　打越哲郎）

3I01F [Frontiers] Metal/Ceramic Nano Composite Catalyst for Hydrogen Production Fabricated by Partial Reduction Reaction
（Toshiba Corporation）○Takayuki Fukasawa・Norikazu Osada・Kenji Essaki・Tomohiro Suetsuna

3I03 Preparation and evaluation of V-Mg Catalyst from layered double hydroxides (LDHs)
（Okayama University）○Sosuke Kobashi・Yoshikazu Kameshima・Shunsuke Nishimoto・Michihiro Miyake

Energy reference material / 水素吸蔵

（9：45）（Chairman　打越哲郎）

3I04 Structural change of activated carbon fabricated from rice husk ashes on hydrogen adsorption phenomenon
（Nagaoka University of Technology）○Ikumi Toda・Hiroe Toda・Takuhiro Watanabe・Shigeo Ohshio・Hiroyuki Muramatsu・Shuji Himeno・Hidetoshi Saitoh

Energy reference material / サーマルマネジメント

（10：00）（Chairman　万春磊）

3I05 Thermoelectric Properties of A, B site co-doped $BiFeO_3$ ceramics
（Nagoya Institute of Technology）○Takeshi Yokota・Koji Ichikawa・Manabu Gomi・（Friedrich-Alexander-Universita" t Erlangen-Nu" rnberg）Miroslaw Batenschuk・Andres Osvet・Christoph Brabec

3I06 Reduction of lattice thermal conductivity in heavy element doped TiS_2
（National Institute of Advanced Industrial Science and Technology）○Yoshiaki Kinemuchi・（Laboratoire CRISMAT）Emmanuel Guilmeau

3I07 Verification of the roll of Mg for the synthesis of AlN by the nitridation of molten Al
（Nagoya University）○Kohei Mizuno・Hiroaki Matsubara・Masashi Nagaya・Yukihisa Takeuchi・Toru Ujihara・（DENSO CORP.）Toyohiro Kanou・Yuuichi Aoki・Kimio Kohara

3I08 Development of Adsorption Heat Pump Using Waste Heat
（Fujitsu Laboratories Ltd.）Noriyasu Aso・Toshio Manabe・Hiroaki Yoshida・○Masao Kondo

Energy reference material / ナトリウムイオン二次電池

（11：00）（Chairman　井手本康）

3I09S Defect Structure of Layered $ACrO_2$ (A = Li, Na) Oxides by First-principles DFT Calculations
（Nagoya Institute of Technology）○Hiromasa Shiiba・Shota Hotta・Tomoaki Nakamura・Suguru Chizawa・（Nagoya Institute of Technology・JST-PRESTO・Kyoto University Elements Strategy Initiative for Catalysts and Batteries）Masanobu Nakayama・（Tokyo University of Science・Kyoto University Elements Strategy Initiative for Catalysts and Batteries）Naoaki Yabuuchi・Shinichi Komaba

3I10S Fabrication of $Na_2FeP_2O_7$ glass-ceramics cathode active materials and their battery performance for sodium ion batteries
（Nagaoka University of Technology）○Tsuyoshi Honma・Takuya Togashi・Noriko Ito・Atsushi Sato・Takayuki Komatsu

Energy reference material / キャパシタ

（11：30）（Chairman　井手本康）

3I11 Ruthenium oxide nanosheets as positive electrodes for 4-V Electrochemical capacitors
（Shinshu University）○Wataru Sugimoto・Takayuki Ban・Wataru Shimizu

3I12 Fabrication of Mesoporous RuO_x Micro-supercapacitor Using IDA Electrode
（Shinshu University）○Sho Makino・（NIMS）Yusuke Yamauchi・（Shinshu University）Wataru Sugimoto

★★ March 19 (Tue) (Room K) ★★

Characterization / 計算科学

（9：15）（Chairman　斎藤光浩）

3K02 Simulation of Disconnection of Particles during Sintering by PFM/DEM Combined Method （Kagawa University）○Kazunari Shinagawa

3K03 Structure analysis and electronic structure calculation of a non-Chevrel type molybdenum sulfide Mo3S4
（Hiroshima University）○Hiroshi Fukuoka・Kumi Masuoka・Teruhiko Hanaoka・Kei Inumaru

Characterization / 構造解析

（9：45）（Chairman　斎藤光浩）

3K04 High-pressure and high-temperature synthesis, structure, and physical property of $CeSn_xGe_{3-x}$ ($0 \le x \le 3$)
（Hiroshima University）○Yutaka Horino・Hiroshi Fukuoka・Kei Inumaru

（10：15）（Chairman　佐藤幸生）

3K06 Preparation, crystal structure and electrical property of a novel plumbide, Na_2MgPb
（Tohoku University）○Takahiro Yamada・（National Institute of Advanced Industrial Science and Technology）Takuji Ikeda・（Tohoku University）Hisanori Yamane

3K07 S ynthesis and crystal structure of bronze-type Sodium titanium oxide Na_xTiO_2
（National Institute of Advanced Industrial Science and Technology (AIST)）○Kunimitsu Kataoka・Junji Akimoto

Characterization / 透過型電子顕微鏡

(10：45) (Chairman　山田高広)

3K08　Atomic-Scale Imaging of Structural Modulation by Annealing at TiO_2 Grain Boundary

（University of Tokyo）○Rong Sun・（Tohoku University）Mitsuhiro Saito・Chunlin Chen・Zhongchang Wang・Susumu Tsukimoto・（University of Tokyo）Naoya Shibata・（University of Tokyo・Tohoku University・JFCC）Yuichi Ikuhara

3K09　Local Atomic Structure of a Near-Sigma 5 Tilt Grain Boundary in MgO

（Tohoku University）○Mitsuhiro Saito・Zhingchang Wang・Susumu Tsukimto・（Tohoku University・The University of Tokyo・JFCC）Yuichi Ikuhara

3K10　Size-dependent high-temperature behavior of bismuth oxide nanoparticles

（Friedrich Schiller University Jena・Technische Universitaet Darmstadt）Gerrit Guenther・（Friedrich Schiller University Jena・Tokyo Institute of Technology）○Olivier Guillon