2Y17 ★ Relationship between grain boundary structure and thermal conductivity in ceramic materials (Osaka University・Japan Fine Ceramics Center) ○FUJII Susumu・(Nagoya University) YOKOI Tatsuya・(Kyoto University) SEKO Atsuto・(Osaka University・Japan Fine Ceramics Center) YOSHIYA Masato

異相界面熱伝導

(15:00) (Session Chiars: 奥原 芳樹)

2Y19 Full exploration of the thermodynamic states in thermoelectrics via phase boundary mapping (Kyushu University) ○Ohno Saneyuki

2Y20 Thermal Conduction across Heterogeneous Interface between Chalcogenides by ab initio Lattice Dynamics (Osaka University) ○HINO Yuta・(Osaka University・Japan Fine Ceramics Center) FUJII Susumu*・YOSHIYA Masato*・(Osaka University) ISHIBE Takafumi・NAKAMURA Yoshiaki

2Y21 Influence of local atomic arrangement on phonon properties at Si/SiO_2 interface (Osaka University) ○URATA Sora・(Osaka University・Japan Fine Ceramics Center) FUJII Susumu*・YOSHIYA Masato*

(16:00) Break

熱エネルギー利用・制御

(16:20) (Session Chiars: 藤井 進)

2Y23 ★ Semiconducting Silicide Thin Films for Solar-thermal Energy Conversion (Japan Fine Ceramics Center) ○OKUHARA Yoshiki・TAKATA Masasuke

2Y25 Thermal management for electrical circuits using latent heat associated with phase changes (Nagaoka University of Technology) ○Baba Masaaki・NEMOTO Kosei・YAMADA Noboru・TAKEDA Masatoshi

2Y26 総合討論

■■September 02 (Thu) (Room Z) ■■

00-01.(Invite speaker only) International Session

(9:20) (Session Chiars: Davey Theresa)

2Z02 ★ Solvothermal Synthesis of Perovskite-type Oxide Nanocubes and Their Assembly (University of Yamanashi) ○WADA SATOSHI・UENO SHINTARO・FUJII ICHIRO

2Z04 ★ Development of non-perovskite ferroelectric thin films. (Tokyo Institute of Technology) ○Funakubo Hiroshi・(National Institute for Materials Science) Shimizu Takao・(Tokyo Institute of Technology) Shiraishi Takahisa

(10:40) (Session Chiars: Nobuhito Imanaka)

2Z06 ★ Chemothermal pulverization technique; Heating not for sintering but for crushing and dispersion (National Institute for Materials Science) ○OHASHI Naoki

2Z08 ★ Fabrication of $BaTiO_3$-based lead-free piezoelectric ceramics under low oxygen partial pressure and approach to improving their properties (Chubu University) ○SAKAMOTO Wataru

00-04.(Invite speaker only)

(13:00) (Session Chiars: 今中 佳彦)

2Z13 ★ NEDO's efforts following the formulation of material strategies (New Energy and Industrial Technology Development Organization) ○YOSHIKI Masayuki

2Z16 ☆ Material processing and industry-academia-government collaboration in SDGs (TOHOKU UNIVERSITY) ○HAYASHI Yamato

2Z18 ☆ Morphologically controlled functional ceramics for environmental purification by liquid-phase synthesis (Osaka University) ○GOTO Tomoyo

2Z20 ☆ Creation of sodium-ion batteries using glass ceramics (Nagaoka University of Technology) ○HONMA Tsuyoshi

2Z22 ☆ Functionalization of engineering ceramics via self-organization in vapor grown composite (Yokohama National University) ○ITO Akihiko

2Z24 ☆ Synthesis of Morphology-controlled Dielectric Nanoparticles by Low-temperature Solution Processes and Development into Fine-composite Materials (University of Yamanashi) ○UENO Shintaro

2Z26 ☆ Development of advanced ceramic biomaterials by surface modification techniques using apatite nuclei (Kyoto University) ○YABUTSUKA Takeshi

■■September 03 (Fri) (Room A) ■■

01.The future of the ceramics synthesis by aqueous solution process –Technological innovation based on a deeper understanding of the basic science –

(9:20) (Session Chiars: 長谷川 丈二)

3A02 層状ケイ酸塩のイオン交換と抗菌特性 (山梨大学) ○Ariyapala Sulasa・Kumada Nobuhiro*・Takei Takahiro・(東ソーSGM 株式会社) Horikoshi Hideharu

3A03 Hydrothermal synthesis and crystal structure of a novel bismuth oxide: $(K_{0.2}Sr_{0.8})(Na_{0.01}Ca_{0.25}Bi_{0.74})O_3$ (山梨大学) ○Hossain Khandaker Monower・(Khulna Univ. Engg. Technol.) Saiduzzaman Md*・(山梨大学) Kumada Nobuhiro・Takei Takahiro・(Tohoku University) Yamane Hisanori・(University of Rajshahi) Rubel Mirza H. K.

(10:00) (Session Chiars: 内山 弘章)

3A04 ★ Crystal interconversion and morphology control of metal-organic frameworks (Kansai University) ○TANAKA Shunsuke

3A06 Topochemical Synthesis of Low Tolerance Factor Perovskite-type Fluoride Li_xCoF_3 (Kyushu university) ○MATSUO Yumi・MATSUKAWA Yuko・KITAKADO Masahiro・AKAMATSU Hirohumi*・(Nagoya university) HASEGAWA Jouji・(Kyushu university) YOSHIDA Suguru・Ohno Saneyuki・HAYASHI Katsuro

3A07 Efficient synthesis of SSZ-39 zeolites from amorphous starting materials (The University of Tokyo) Hu Peidong・○Iyoki Kenta・Wakihara Toru

■■September 03 (Fri) (Room C) ■■

国際セッション企画

第 34 回秋季シンポジウム　国際セッション：
Richard M. Fulrath Award Recipient Lecture

Organized by
International Committee of The Ceramic Society of Japan
The Japan Chapter of The American Ceramic Society

主旨：

日本セラミックス協会では，国際交流の活性化を目的として，2021 年の年会より，年会および秋季シンポジウムにおいて International Symposium on Recent Development of Ceramic Science and Technologies（国際セッション）を開催しております．
今回はアメリカセラミックス学会日本チャプターの企画による Richard M. Fulrath Award 受賞者のご講演をいただきます．

参加方法：

秋季シンポジウム参加者であれば，どなたでもご参加いただけます．

プログラム：

■■2021 年 09 月 02 日(木) (Z 会場) ■■

00-01.(Invited speaker only) International Session

(9:20) (座長 Davey Theresa)

2Z02 ★ Solvothermal Synthesis of Perovskite-type Oxide Nanocubes and Their Assembly (University of Yamanashi) ○WADA Satoshi・UENO Shintaro・FUJII Ichiro

2Z04 ★ Development of non-perovskite ferroelectric thin films. (Tokyo Institute of Technology) ○FUNAKUBO Hiroshi・(National Institute for Materials Science) SHIMIZU Takao・(Tokyo Institute of Technology) SHIRAISHI Takahisa

(10:40) (座長 Nobuhito Imanaka)

2Z06 ★ Chemothermal pulverization technique; Heating not for sintering but for crushing and dispersion (National Institute for Materials Science)○OHASHI Naoki

2Z08 ★ Fabrication of BaTiO3-based lead-free piezoelectric ceramics under low oxygen partial pressure and approach to improving theirproperties (Chubu University) ○SAKAMOTO Wataru