INTERNATIONAL SYMPOSIUM ON GREEN PROCESSING FOR ADVANCED CERAMICS

IGPAC 2025

Symposium

OCTOBER 5-9TH, 2025

SHIMA KANKO HOTEL, MIE, JAPAN





ORGANIZED BY THE CERAMIC SOCIETY OF JAPAN

SUPPORTED BY MINISTRY OF THE ENVIRONMENT, GOVERNMENT OF JAPAN



WELCOME

Thank you very much for participating in this conference today from all over the world.

As we welcome this conference, I would like to begin by acknowledging the unprecedented complexity facing the international community today. We face ongoing geopolitical tensions, divisions between nations and regions due to

differences in values and interests, and a sluggish global economy with no clear signs of recovery. Furthermore, global challenges such as climate change and resource constraints are severely impacting the sustainability of our society. It is precisely in times of uncertainty such as these that international collaboration in science and technology and a shared vision for technological innovation with a view to a sustainable future are more important than ever.

In this sense, the venue for this conference, Kashikojima Island in Shima City, Mie Prefecture, is truly symbolic. In 2016, the G7 Ise-Shima Summit was held here, providing a stage for world leaders to engage in dialogue and address global challenges. This region is also the birthplace of Mikimoto Pearls, the world's first successful industrial pearl farming company (a technology that could be considered a pioneering step in bioprocessing), and a place where the spirit of science and technology pursuing harmony between humans and nature is deeply rooted.

In this region, this conference will focus on "non-equilibrium processes in inorganic materials that contribute to the synthesis and application of new functions and materials while reducing resource and environmental impact." We will share the latest knowledge and research results and deepen discussions on the physicochemical phenomena that make this possible.

This research is not merely academic; it is directly linked to engineering practices that support the transition to a sustainable society, such as achieving carbon neutrality and building a circular economy. We believe that it will play an extremely important role as a scientific and technological foundation supporting the development of advanced ceramic technologies and manufacturing processes.

We will discuss diverse approaches that enable the creation of new functions and high-performance materials while taking resource constraints and environmental impact into consideration.

To conclude the conference, we will be hosting a panel discussion featuring world-class researchers and engineers active at the forefront of academia and industry, where we will broadly discuss the potential for social implementation of new process technologies and the direction of international process research in the field of ceramics.

We sincerely hope that this conference will be a practical first step toward building a sustainable and inclusive future society, and will strengthen international networks that transcend divisions and aim to solve problems through collaboration.

Finally, a message for young researchers and engineers:

We are currently living in extremely turbulent times. Science and technology are evolving rapidly, with ever-increasing impacts on our lives, society, and the environment. However, today's world also tests our courage to take on challenges that no one has ever done before and to move toward unseen goals.

If you are afraid of taking risks, please understand that this is a major step toward opening up new horizons. It is a natural reaction to seek stability and security, to assume that the problem before us can be solved within existing frameworks. However, to achieve truly great results, we sometimes need to be prepared to go beyond those frameworks. Stepping into unknown territory, choosing a path that no one has tried before, will lead to the next great leap forward.

I hope that this conference will help you realize this.



General Chair.

JUN AKEDO

Jim Shedo

National Institute of Advanced Industrial Science and Technology

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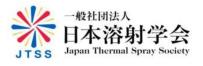
























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FLOORPLAN

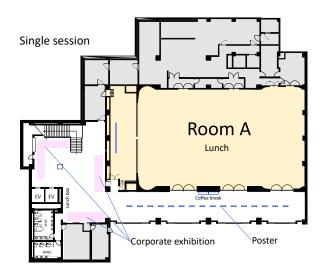


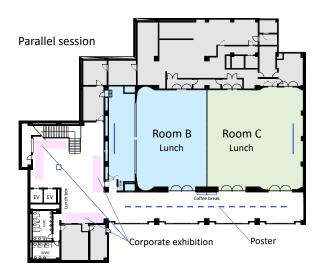
Building: Shima Kanko Hotel

1F Registration, Cloakroom



B2F Session Venue





SCHEDULE at a GLANCE

SPECIAL EVENTS

Welcome Reception

Sunday, Oct. 5 | 17:00 – 19:00

Location: Shiama Kanko Hotel Lobby 1F

Dinner

Monday, Oct. 6 | 19:00 – 21:00 Location: Shiama Kanko Hotel

Banquet

Wednesday, Oct. 7 | 19:00 – 21:00 Location: Kashikojima Hojoen

Excursion

Thursday, Oct. 9 | 10:00 – 17:45

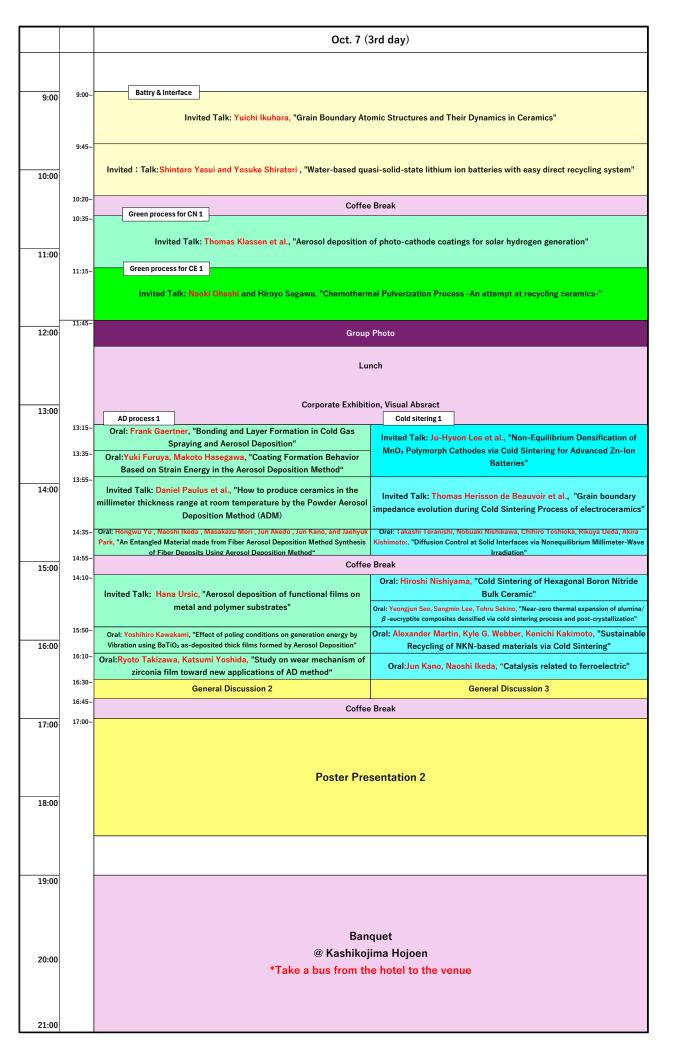
Participants: Those who have completed prior application

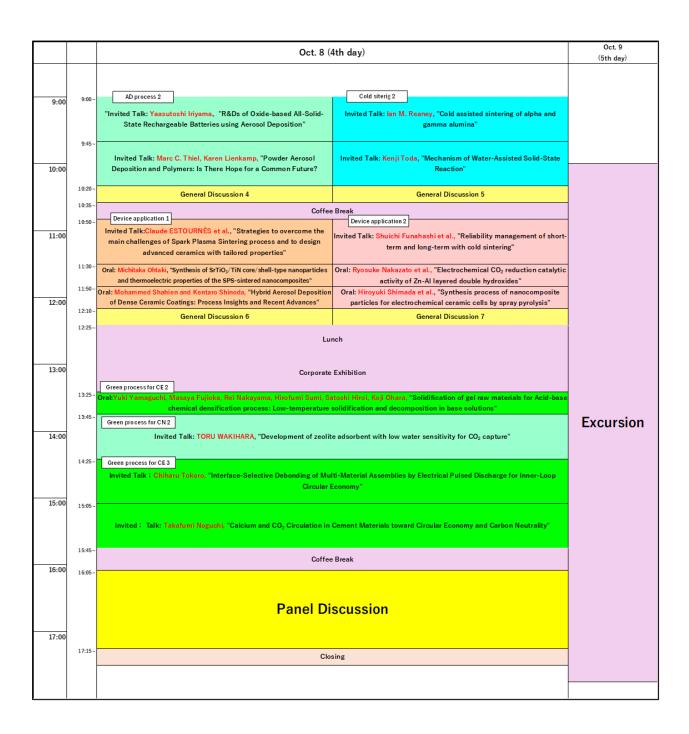
(The reception has already ended)



	Oct. 5		Oct. 6			Oct. 7		Oct. 8			Oct. 9		
	(1st day)		(2nd day)	day)		(3rd day)		(4th day)			(5th day)		
8:00			Opening										
9:00			Invited Speaker		Invited	Speaker		Invited Speaker	Invited Speaker	ion			
10:00			Coffee Break		Coffee	Break		General D	Discussion Break	Resistration			
11:00			Invited Speaker		Invited	Speaker		Invited Speaker	Invited Speaker	Re			
				_	Group	Photo	_	Oral	Oral				
12:00			Lunch	Resistration		nch	Resistration		Discussion				
			Oral	Resi					Resi	Lu	nch		
13:00			Invited Speaker		Oral	Invited Speaker		0	ral		Excursio		
14:00						Oral		Invited	Speaker				
15:00			Coffee Break		Invited	Break							
			Invited Speaker		Speaker Oral	Oral		Coffee Break					
16:00		u u	Oral General Discussion		General Discussion Coffee Break			Panel Di	scussion				
17:00	Welcome	Resistration	Coffee Break					Clo	sing				
18:00	Reception	Resi	Poster Presentation –		Poster Pro	esentation							
19:00													
20:00			Dinner		Banquet								

	Oct. 5 (1st day)		Oct. 6 (2nd day)
		8:45~	Opening Green Process 1
9:00		9:00~	Invited Talk: Clive A Randall, "High Level Introduction to the Advances in Cold Sintering"
10:00		9:45~	Invited Talk: Tomokazu Ito, "TOTO's Contribution to Semiconductor Manufacturing through Aerosol Deposition"
		10:20~	Coffee Break
11:00		10:35~	Invited Talk: Jing Guo, "Cold sintering assisted hybrid processing of high-performance ceramics"
11.00		11:15~	Invited Talk: Jae-Young Choi, "Next-Generation Low-Dimensional Nanomaterials: Innovative Exfoliation Methods and Device Integration"
12:00		11:45~	Lunch
13:00			Corporate Exhibition, Visual Absract Green Process 2
13.00		13:10~	Oral:Minoru Osada, "Green processing of 2D nanosheets for advanced electronic/energy materials"
		13:30~	Invited Talk: Catherine Elissalde et al., "Exploring the synergy between chemistry and non- conventional sintering processes: a first step towards the eco-design of functional ceramics
14:00		14:10~	and devices"
			Invited Talk: Hidehiro Yoshida et al., "Towards green processing for advanced ceramics by electric field/current-assisted technology"
15:00		14:40~ 15:15~	Coffee Break Green Process 3
			Invited Talk: Tobias Fey, "Shaping the Future: Additive Manufacturing of Porous Ceramics"
16:00		15:45~	Invited Talk: <mark>Kunio Ishikawa</mark> , "Carbonate apatite arti"
		16:20~	Oral: Jun Akedo, "The current status and future prospects of the aerosol deposition method \sim Focusing on the mechanism of room temperature shock solidification phenomenon \sim "
17.00		16:45~	General Discussion 1
17:00		17:15~	Coffee Break
	Welcome		
18:00	Reception		Poster Presentation 1
	@Room C		
19:00			
20:00			Dinner @ Room A
21:00			





INVITED SPEAKERS

Monday, Oct. 6, 2025 | Room A

9:00-9:40



Clive A Randall, The Pennsylvania State University, USA Title: High Level Introduction to the Advances in Cold Sintering

Session Chair: Takashi Teranishi

9:40-10:20



Tomokazu Ito, TOTO Ltd., Japan

Title: TOTO's Contribution to Semiconductor Manufacturing through Aerosol Deposition

Session Chair: Takashi Teranishi

10:35-11:15



Jing Guo, X'ian Jiantong University, China

Title: Cold sintering assisted hybrid processing of high-performance ceramics

Session Chair: Katsumi Yoshida

11:15-11:55



Jae-Young Choi, Sungkyunkwan University, Korea

Title: Next-Generation Low-Dimensional Nanomaterials: Innovative Exfoliation Methods and Device Integration

Session Chair: Katsumi Yoshida

13:30-14:10



Catherine Elissalde, CNRS Bordeaux, France

Title: Exploring the synergy between chemistry and non-conventional sintering processes: a first step towards the eco-design of functional ceramics and devices

Session Chair: Satoshi Wada and Daiki Ishii

14:10-14:50



Hidehiro Yoshida, The University of Tokyo, Japan

Title: Towards green processing for advanced ceramics by electric field/current-assisted technology

Session Chair: Satoshi Wada and Daiki Ishii

15:05-15:45



Tobias Fey, Univ. Erlangen-Nuremberg, Germany

Title: Shaping the Future: Additive Manufacturing of Porous Ceramics

Session Chair: Tohru Sekino and Tetsuro Uchikoshi

15:45-16:25



Kunio Ishikawa, Kyushu University, Japan

Title: Carbonate apatite arti

Session Chair: Tohru Sekino and Tetsuro Uchikoshi

9:00-9:40



Tuesday, Oct. 7, 2025 | Room A

Thomas Klassen, Institute of Hydrogen Technology & Helmholtz-Zentrum hereon GmbH,

Germany

Title: Aerosol deposition of photo-cathode coatings for solar hydrogen generation

Session Chair: Hana Ursic

09:40-10:20



Toru Wakihara, The University of Tokyo, Japan

Title: Development of zeolite adsorbent with low water sensitivity for CO₂ capture

Session Chair: Hana Ursic

10:35-11:15



11:15-11:55



Yuichi Ikuhara, The University of Tokyo, Japan

Shintaro Yasui, Institute of Science Tokyo, Japan

Title: Grain Boundary Atomic Structures and Their Dynamics in Ceramics

Session Chair: Chiharu Tokoro

Session Chair: Chiharu Tokoro



Tuesday, Oct. 7, 2025 | Room B

13:55-14:35



Daniel Paulus, University of Bayreuth, Germany

Title: How to produce ceramics in the millimeter thickness range at room temperature by the Powder Aerosol Deposition Method (ADM)

Title: Water-based quasi-solid-state lithium ion batteries with easy direct recycling system

Session Chair: Yoshitaka Masuda and Maki Inoue

15:10-15:50



Hana Ursic, Jozef Stefan Institute, Slovenia

Title: Aerosol deposition of functional films on metal and polymer substrates

Session Chair: Yoshitaka Masuda and Maki Inoue

13:15-13:55



Tuesday, Oct. 7, 2025 | Room C

Ju-Hyeon Lee, Ulsan National Institute of Science and Technology (UNIST), Korea Title: Non-Equilibrium Densification of MnO2 Polymorph Cathodes via Cold Sintering for Advanced Zn-Ion Batteries

Session Chair: Shintaro Yasui and Muneyasu Suzuki

13:55-14:35



Thomas Herisson de Beauvoir, CNRS - CIRIMAT, France

Title: Grain boundary impedance evolution during Cold Sintering Process of electroceramics

Session Chair: Shintaro Yasui and Muneyasu Suzuki

Wednesday, Oct. 8, 2025 | Room B

9:00-9:40



Yasutoshi Iriyama, Nagoya University, Japan

Title: R&Ds of Oxide-based All-Solid-State Rechargeable Batteries using Aerosol Deposition

Session Chair: Kentaro Shinoda

9:40-10:20



Karen Lienkamp, Universität des Saarlandes, Germany

Title: Powder Aerosol Deposition and Polymers: Is There Hope for a Common Future?

Session Chair: Kentaro Shinoda

10:50-11:30



Claude Estournès, CIRIMAT in Toulouse, France

Title: Strategies to overcome the main challenges of Spark Plasma Sintering process and to design advanced ceramics with tailored properties

Session Chair: Katsuhisa Tanaka

Wednesday, Oct. 8, 2025 | Room C





Ian M. Reaney, University of Sheffield, UK

Title: Cold assisted sintering of alpha and gamma alumina

Session Chair: Suichi Funahashi

9:40-10:20



10:50-11:30



Shuichi Funahashi, Murata Co. Ltd., Japan

Kenji Toda, Niigata University, Japan

Session Chair: Suichi Funahashi

Title: Mechanism of Water-Assisted Solid-State Reaction



Title: Reliability management of short-term and long-term with cold sintering

Session Chair: Ian M. Reaney

Wednesday, Oct. 8, 2025 | Room A

13:45-14:25



Naoki Ohashi, NIMS, Japan

Title: Chemothermal Pulverization Process -An attempt at recycling ceramics-

Session Chair: Clive A Randall and Jun Akedo

14:25-15:05



Chiharu Tokoro, Waseda University, Japan

Title: Interface-Selective Debonding of Multi-Material Assemblies by Electrical Pulsed Discharge for Inner-Loop Circular Economy

Session Chair: Clive A Randall and Jun Akedo

15:05-15:45



Takafumi Noguchi, The University of Tokyo, Japan

Title: Calcium and CO₂ Circulation in Cement Materials toward Circular Economy and Carbon Neutrality

Session Chair: Clive A Randall and Jun Akedo

SPECIAL TOPICS: PANEL DISCUSSION

Part 1. Green process and CN

Moderator

Prof. Shintaro Yasui [Science Tokyo, Japan]

16:00~



Prof. Thomas Klassen [Hereon, Germany]

Panelists



Prof. lan Reaney [Univ, Sheffield, UK]

Prof. Kiyoharu Tadanaga [Hokkaido Univ., Japan]

16:20~; Questions from audience and Free discussion

16:25~ Break time

Part 2. CE of ceramics devices

Moderator



Dr. Yuki Yamaguchi [AIST, Japan]

16:30~



Prof. Takahumi Noguchi [Univ. Tokyo, Japan]

Panelists



Prof. Chiharu Tokoro [Waseda Univ., Japan]



Dr. Kohmei Halada [NIMS, Japan]

16:50~~; Questions from audience and Discussion

16:55~ Closing the Panel

ORAL SESSION PROGRAM

○: Presenter, ★: Invited Talk

■■ Monday, Oct 6, 2025 (2nd day) (Room A) ■■

Green Process 1

(9:00) (Chair Takashi Teranishi)

1-A-1. ★ High Level Introduction to the Advances in Cold Sintering

○ Clive A Randall¹

¹Materials Research Institute, Pennsylvania State University, USA

1-A-2. ★ TOTO's Contribution to Semiconductor Manufacturing through Aerosol Deposition

○ Tomokazu Ito¹

¹TOTO Itd., Japan

(10:35) (Chair Katsumi Yoshida)

1-A-3. ★ Cold sintering assisted hybrid processing of high-performance ceramics

 \bigcirc Jing Guo¹, Xiaomeng Li¹, Weichen Xu¹

¹State Key Laboratory for Mechanical Behavior of Materials, School of Materials Science and Engineering, Xi'an Jiaotong University, China

1-A-4. ★ Next-Generation Low-Dimensional Nanomaterials: Innovative Exfoliation Methods and Device Integration

O Jae-Young Choi^{1,2,3}

¹School of Advanced Materials Science & Engineering, Sungkyunkwan University, Republic of Korea, ²School of Advance d Materials Science & Engineering and KIST SKKU Carbon Neutral Research, Center, Sungkyunkwan University, Republic of Korea, ³Clean Energy Research Center, Korea Institute of Science and Technology (KIST), Republic of Korea

Green Process 2

(13:10) (Satoshi Wada and Daiki Ishii)

1-A-5. Green processing of 2D nanosheets for advanced electronic/energy materials

○ Minoru Osada^{1,2}

¹Institute of Materials and Systems for Sustainability (IMaSS), Nagoya University, Japan, ²Research Institute for Quantum and Chemical Innovation, Institutes of Innovation for Future Society, Nagoya University, Japan

1-A-6. ★ Exploring the synergy between chemistry and non-conventional sintering processes: a first step towards the eco-design of functional ceramics and devices

○ C. Elissalde¹, N. Bencharef^{1,2}, Y. Denis¹, C. Castro Chavarria^{1,2}, E. Martin^{1,3}, J. De Landtsheer³, R. Aloui⁴, B. Lafarge⁴, M. Suchomel¹, M. Maglione¹, G. Goglio¹, E. Roitero⁵, H. Reveron⁵, J. Chevalier⁵, T. Hérisson de Beauvoir³, C. Estournès³, G. Philippot¹, H. Debéda¹, U.C. Chung¹

¹Univ. Bordeaux, CNRS, Bordeaux INP, ICMCB, France, ²Univ. Bordeaux, CNRS, Bordeaux INP, IMS, France, ³CIRIMAT, Université de Toulouse, Toulouse INP, CNRS, France ⁵INSA de Lyon, Université Claude Bernard Lyon 1, CNRS, MATEIS, France ⁴Roberval, Centre de recherche Royallieu, Université de Technologie de Compiègne, France.

1-A-7.	★ Towards green processing for advanced ceramics by electric field/current-assisted technology
	O Hidehiro Yoshida ¹ , Kamarul Aiman Bin Shariffuddin ¹ , Hiroki Motomura ¹ , Kohta Nambu ² , Yang Ying ¹ , Fei Shen
	Ong ¹ , Hiroshi Masuda ¹ , Koji Morita ² , Takahisa Yamamoto ³
	¹ The University of Tokyo, Japan, ² National Institute for Materials Science, Japan, ³ Nagoya University, Japan
Green Pro	ocess 3
(15:05) (To	ohru Sekino and Tetsuro Uchikoshi)
1-A-8.	★ Shaping the Future: Additive Manufacturing of Porous Ceramics
	Swantje Funk, David Köllner, Michelle Weichelt, Larissa Wahl, $ \bigcirc $ Tobias Fey 1*
	¹ Univ. Erlangen-Nuremberg, Germany
1-A-9.	★ Carbonate apatite arti
	○ Kunio Ishikawa¹
	¹ Kyushu University, Japan
1-A-10.	The current status and future prospects of the aerosol deposition method \sim Focusing on the deposition
	mechanism with RTIC phenomenon \sim
	\bigcirc Jun Akedo 1
	¹ National Institute of Advanced Industrial Science & Technology (AIST)
Graan Br	■■ Tuesday, Oct 7, 2025 (3rd day) (Room A) ■■ ocess for CN
(9:00) (Har	
2-A-1.	★ Aerosol deposition of photo-cathode coatings for solar hydrogen generation
Z-X-1.	○ Thomas Klassen¹, A. Elsenberg, F. Gärtner, M. Schieda, A. Bruera, M. Borghi, G. Dolcetti, G. Bolelli, L.
	Lusvarghi
	¹ Helmut Schmidt University Hamburg, Germany
2-A-2.	★ Development of zeolite adsorbent with low water sensitivity for CO₂ capture
Z-A-Z.	 Toru Wakihara¹
	¹ The University of Tokyo, Japan
D-44 0	lataria a
-	Interface
	niharu Tokoro)
2-A-3.	★ Water-based quasi-solid-state lithium ion batteries with easy direct recycling system
	○ Shintaro Yasui¹, Yosuke Shiratori¹
0.1.1	¹ Laboratory for Zero-Carbon Energy, Institute of Science Tokyo, Japan
2-A-4.	★ Grain Boundary Atomic Structures and Their Dynamics in Ceramics
	○ Yuichi Ikuhara¹
	¹ University of Tokyo, Japan

■■ Tuesday, Oct 7, 2025 (3rd day) (Room B) ■■

AD Process 1 -JEMS Co-sponsored Sessions-

(13:15) (Yoshitaka Masuda and Maki Inoue)

2-B-1.	Bonding and Layer Formation in Cold Gas Spraying and Aerosol Deposition					
	○ Frank Gaertner¹, Andreas Elsenberg, Bahamn Daneshian, Thomas Klassen					
	Helmut Schmidt University, University of the Federal Armed Forces Hamburg, Germany					
2-B-2.	Coating Formation Behavior Based on Strain Energy in the Aerosol Deposition Method					
	Yuki Furuya ¹ , O Makoto Hasegawa ¹					
	¹ Yokohama National University, Japan					
2-B-3.	★ How to produce ceramics in the millimeter thickness range at room temperature by the Powder Aerosol					
	Deposition Method (ADM)					
	○ D. Paulus¹, D. Schönauer-Kamin¹, R. Moos¹					
	¹ University of Bayreuth, Germany					
2-B-4.	An Entangled Material made from Fiber Aerosol Deposition Method Synthesis of Fiber Deposits Using					
	Aerosol Deposition Method					
	○ Hongwu Yu¹, Naoshi Ikeda², Masakazu Mori³, Jun Kano², Jae-Hyuk Park⁵,6, Jun Akedo⁴					
	¹ Institute of Science Tokyo, ² University of Okayama, ³ Ryukoku University, ⁴ National Institute of Advanced					
	Industrial Science and Technology, ⁵ Sungkyunkwan University, ⁶ Electro Static Technology, Inc					
2-B-5.	★ Aerosol deposition of functional films on metal and polymer substrates					
	○ Hana Ursic ^{1,2}					
	¹ Electronic Ceramics Department, Jožef Stefan Institute, Slovenia, ² Jožef Stefan International Postgraduate					
	School, Slovenia					
2-B-6.	Effect of poling conditions on generation energy by Vibration using BaTiO ₃ as-deposited thick films formed					
	by Aerosol Deposition					
	○ Kohei Maruyama¹, Yoshihiro Kawakami², Fumio Narita¹					
	¹ Tohoku university, Sendai, Japan, ² Research Institute for Electromagnetic Materials					
2-B-7.	Study on wear mechanism of zirconia film toward new applications of AD method					
	○ Ryoto Takizawa ^{1,2} , Katsumi Yoshida²					
	¹ TOTO Ltd., Japan, ² Institute of Science Tokyo, Japan					
	■■ Tuesday, Oct 7, 2025 (3rd day) (Room C) ■■					
Cold Sint	tering 1					
13:15) (Sł	hintaro Yasui and Muneyasu Suzuki)					
2-C-1.	★ Non-Equilibrium Densification of MnO₂ Polymorph Cathodes via Cold Sintering for Advanced Zn-Ion					
	Batteries					
	○ Ju-Hyeon Lee ¹ , Michael W. Mervosh ² , Rajagopalan Ramakrishnan ³ , Clive Randall ^{1,2}					
	1 Materials Research Institute, Pennsylvania State University, USA, 2 Department of Materials Science and					
	Engineering, Pennsylvania State University, USA, ³ Department of Engineering, Penn State DuBois, USA					
2-C-2.	★ Grain boundary impedance evolution during Cold Sintering Process of electroceramics					
	○ Thomas Herisson de Beauvoir¹, Catherine Elissalde, Claude Estournès					
	¹ CNRS – CIRIMAT, France					

2-C-3.	Diffusion Control at Solid Interfaces via Nonequilibrium Millimeter-Wave Irradiation
	○ Takashi Teranishi ^{1,2} , Nobuaki Nishikawa ¹ , Chihiro Toshioka ¹ , Rikuya Ueda ¹ , Akira Kishimoto ¹
	¹ Okayama University, ² Institute of Science Tokyo
2-C-4.	Cold Sintering of Hexagonal Boron Nitride Bulk Ceramic
	O Hiroshi Nishiyama ^{1,2} , Javier Mena-Garcia ² , Hiroyuki Shimizu ¹ , Andrew H. Jones ³ , John T. Gaskins ³ , Clive A.
	Randall ²
	¹ R&D Center, TAIYO YUDEN CO., LTD., Japan, ² Materials Research Institute, Department of Materials Science
	and Engineering, Center for Dielectrics and Piezoelectrics, The Pennsylvania State University, USA, ³ Laser
	Thermal, USA
2-C-5.	Near-zero thermal expansion of alumina/ $oldsymbol{eta}$ -eucryptite composites densified via cold sintering process and
	post-crystallization
	○ Yeongjun Seo¹, Sangmin Lee¹, Tohru Sekino¹
	¹ SANKEN, The University of Osaka, Japan
2-C-6.	Sustainable Recycling of NKN-based materials via Cold Sintering
	○ Alexander Martin¹, Kyle G. Webber², Kenichi Kakimoto¹
	¹ Nagoya Institute of Technology, ² Friedrich-Alexander Universit ä t Erlangen Nürnberg
2-C-7.	Catalysis related to ferroelectric
	\bigcirc Jun Kano 1 , Naoshi Ikeda 1
	¹ Faculty of Environmental, Life, Natural Science and Technology, Okayama University, Japan
	■■ Wednesday, Oct 8, 2025 (4th day) (Room B) ■■
AD Proce	ess 2 - JEMS Co-sponsored Sessions-
(9:00) (Ke	ntaro Shinoda)
3-B-1.	★ R&Ds of Oxide-based All-Solid-State Rechargeable Batteries using Aerosol Deposition
	○ Yasutoshi Iriyama¹
	¹ Department of Materials Design Innovation Engineering, Graduate School of Engineering, Nagoya University,
	Japan
3-B-2.	★ Powder Aerosol Deposition and Polymers: Is There Hope for a Common Future?
	Marc C. Thiel¹, ○ Karen Lienkamp¹*
Device A	pplication 1
	atsuhisa Tanaka)
3-B-3.	★ Strategies to overcome the main challenges of Spark Plasma Sintering process and to design advanced
	ceramics with tailored properties
	○ Claude ESTOURNÈS¹
	¹CNRS-CIRIMAT, France
3-B-4.	Synthesis of SrTiO ₃ /TiN core/shell-type nanoparticles and thermoelectric properties of the SPS-sintered
	nanocomposites
	○ Michitaka Ohtaki¹
	¹Kyushu University, Japan
3-B-5.	Hybrid Aerosol Deposition of Dense Ceramic Coatings: Process Insights and Recent Advances
J J J.	Mohammed Shahien ¹ , Kentaro Shinoda
	o monamined entitient, Nenture enineda

¹Integrated Research Center for Resilient Infrastructure, National Institute of Advanced Industrial Science and Technology (AIST)

■■ Wednesday, Oct 8, 2025 (4th day) (Room C) ■■

Cold Sintering 2

(9:00) (Suichi Funahashi)

3-C-1. ★ Cold assisted sintering of alpha and gamma alumina

O Ian M. Reaney¹

¹School of Chemical, Materials and Biological Engineering, University of Sheffield, Sheffield UK

3-C-2. ★ Mechanism of Water-Assisted Solid-State Reaction

○ Kenji Toda¹

¹Graduate School of Science and Technology, Niigata University

Device Application 2

(10:50) (Ian M. Reaney)

3-C-3. ★ Reliability management of short-term and long-term with cold sintering

Shuichi Funahashi¹, Hiroaki Ide¹, Ayumi Shinagawa¹, Tatsuya Fukutani¹, Satoshi Yokomizo¹, Julian Fanghanel², Clive A. Randall², Masahiko Kimura¹

¹Murata Manufacturing Co., Ltd., ²The Pennsylvania State University

3-C-4. Electrochemical CO₂ reduction catalytic activity of Zn-Al layered double hydroxides

Ryosuke Nakazato^{1,2}, Keeko Matsumoto¹, N. C. Rosero-Navarro^{1,3}, Akira Miura¹, O Kiyoharu Tadanaga¹
¹Faculty of Engineering, Hokkaido University, Japan, ²Energy Process Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), Japan, ³Instituto de Cerámica y Vidrio, Consejo Superior de Investigaciones Científicas (CSIC), Spain

3-C-5. Synthesis process of nanocomposite particles for electrochemical ceramic cells by spray pyrolysis

O Hiroyuki Shimada¹, Yuki Yamaguchi¹, Mizuki Momai¹, Masaya Fujioka¹

¹National Institute of Advanced Industrial Science and Technology (AIST), Japan

■■ Wednesday, Oct 8, 2025 (4th day) (Room A) ■■

Green Process for CE

(13:25) (Clive A Randall and Jun Akedo)

- 3-A-1. Solidification of gel raw materials for Acid-base chemical densification process: Low-temperature solidification and decomposition in base solutions
 - O Yuki Yamaguchi¹, Masaya Fujioka¹, Rei Nakayama¹, Hirofumi Sumi¹, Satoshi Hiroi², Koji Ohara²

¹Malti-Material Research Institute, National Institute of Advanced Industrial Science and Technology (AIST),

²Faculty of Materials for Energy, Shimane University

3-A-2. ★ Chemothermal Pulverization Process -An attempt at recycling ceramics-

O Naoki Ohashi^{1,2}, Hiroyo Segawa¹

¹National Institute for Materials Science, ²Institute of Science Tokyo

3-A-3. ★ Interface-Selective Debonding of Multi-Material Assemblies by Electrical Pulsed Discharge for Inner-Loop Circular Economy

○ Chiharu Tokoro^{1,2}

 1 Waseda University, 2 The University of Tokyo

3-A-4. ★ Calcium and CO₂ Circulation in Cement Materials toward Circular Economy and Carbon Ne
--

 \bigcirc Takafumi Noguchi 1

¹The University of Tokyo

POSTER SESSION PROGRAM

■■ Monday, Oct 6, 2025 (2nd day) 17:15-18:45 ■■

1-P-1. Fast Charge Transfer Architecture via Dielectric Interfaces for Lithium Ion Batteries

Kana Fujisawa¹, Takashi Teranishi^{1,2}, Yusuke Higaki¹, Aya Yoshioka¹, Akira Kishimoto¹, Chinatsu Sasaoka², Hikaru Hirabaru³, Shingo Katayama³

¹Graduate school of Environmental, life, Natural Science and Technology, Okayama University, ² Laboratory for Materials and Structures, Tokyo Institute of Technology, ³R&D Lab., Nippon Denko Co., Ltd

1-P-2. Non-firing solidification of ceramics using mechanochemical activation method and its applications

Kento Ishii¹, Masayoshi Fuji¹

¹Advanced Ceramics Research Center, Nagoya Institute of Technology, Japan

1-P-3. Synthesis of TiNb₂O₇ Particle with Enhanced Monodispersity for Anode Material

K. Matsumura^{1,2}, M. Suzuki², H. Takeda¹

¹Graduate School of Science and Engineering, Saitama University, Japan, ²Nanocarbon Material Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), Japan

1-P-4. Aerosol Deposited Piezoelectric Films with Corona Poling at Room Temperature for Integrated Energy Harvesting and Wireless Transmission

Kohei Maruyama¹, Yoshihiro Kawakami², Fumio Narita¹

¹Tohoku university, Japan, ²Research Institute for Electromagnetic Materials

1-P-5. Synthesis of p-type Nb-doped MoS₂ Nanosheets

Masaya Toyota^{1,2}, Ken-ichi Katsumata¹, Takaaki Taniguchi^{1,2,3}

¹Tokyo University of Science, ² National Institute for Materials Science, ³Institute of Science Tokyo

1-P-6. Stabilization of Semiconductor Photoelectrode by Metal Oxide Nanosheet Coating

Steven Novianto Tanjaya^{1,2}, Ken-ichi Katsumata², Takaaki Taniguchi^{1,2,3}

¹National Institute for Materials Science, ²Tokyo University of Science, ³Institute of Science Tokyo

1-P-7. Pulsed wire discharge-induced rapid melting and solidification of Ti-6Al-4V microstructures

Wataru Mita¹, Hideto Furuno¹, Yuya Takimoto¹, Tadachika Nakayama¹

¹Extreme Energy-Density Research Institute, Nagaoka University of Technology, Japan

1-P-8. Powder Aerosol Deposition and Polymers – Is There Hope for A Common Future?

Marc C. Thiel¹, Karen Lienkamp¹

¹Saarland University, Materials Science and Engineering, Germany

1-P-9. Enhancing Deposition Efficiency of Polymer-Ceramic Composites via Powder Aerosol Deposition: Effects of

Powder Composition and Process Parameters

Yannic Wagner¹, Marc C. Thiel¹, Karen Lienkamp^{1,2}

¹Chair of Polymer Materials, Saarland University, Germany, ² Saarene, Saarland Center for Energy Materials and Sustainability, Germany

1-P-10. Voltage-Applied Aerosol Deposition Enabling Faster Ceramic Film Fabrication

Yuya Kinoshita, Miyuki Sakakura, Takeshi Yajima, Yasutoshi Iriyama

Department of Materials Design Innovation Engineering, Graduate School of Engineering, Nagoya University, Japan

1-P-11. Bridging the Missing Link Between Cold Sintering Process and Water-Assisted Solid-State Reactions

Fukutaro Tanaka¹, Kenji Toda²

¹Faculty of Engineering, Niigata University, ²Graduate School of Science and Technology, Niigata University, Japan

1-P-12. Grain Size-Optimized Tuning of Piezoelectric Properties in Barium Titanate Ceramics Through AC Field Poling Above the Curie Temperature

Adisu Tsige Shibiru¹, Ichiro Fujii¹, Shintaro Ueno¹, Satoshi Wada¹

¹Graduate Faculty of Interdisciplinary Research, University of Yamanashi, Japan

1-P-13. Comparison of structural and mechanical properties of whitlockite ceramics fabricated via conventional and cold sintering process

Shiori Nawa¹, Yeongjun Seo¹, Yoshifumi Kondo¹, Sung Hun Cho¹, Jonas Stadulis², Aleksej Zarkov², Tomoyo Goto^{1,3}, Tohru Sekino¹

¹The University of Osaka, Japan, ² Vilnius University, ³ Nara Institute of Science and Technology

1-P-14. Mild Synthesis of Nano-Pigments via the Novel Water-Assisted Solid-State Reaction (WASSR) Method

Wataru Hikita, Ryusuke Ito, Fukutaro Tanaka, Kenji Toda

¹Niigata Univeristy

1-P-15. Multiscale Synchrotron X-ray Observation of Microstructural Heterogeneity and Defect Evolution in Ceramics during Sintering

Gaku Okuma¹

¹Research Center for Structural Materials, National Institute for Materials Science (NIMS), Japan

1-P-16. Rapid Posttreatment of Powder Aerosol Deposited Functional Ceramics Using LED Radiation

J. Schneider¹, D. Paulus¹, J. Kita¹, R. Moos¹

¹University of Bayreuth, Department of Functional Materials, Germany

1-P-17. Investigation of robustness in Ni-Al spinel oxide catalysts

Yoshinobu Nagashima¹, Shimpei Yamaguchi¹

¹Osaka Research Institute of Industrial Science and Technology

1-P-18. Application of spinel oxides for energy storages

Shimpei Yamaguchi¹, Yoshinobu Nagashima¹

¹Osaka Research Institute of Industrial Science and Technology

1-P-19 Pseudo-reversal phase transformation of hexacelsian in a purified kaolinite system

Shingo Machida¹

¹Japan Fine Ceramics Center

1-P-20. Revealing a new room temperature deposition mechanism for materials with layered-type crystal structure by a synchrotron study

Daniel Paulus¹, Jürgen Schneider¹, Daniela Schönauer-Kamin¹, Ralf Moos¹

¹University of Bayreuth, Germany

1-P-21. Preparation and evaluation of BT-BMT-BF ceramics at low sintering temperature using citrate method

Shota Nakagawa¹, Ichiro Fujii¹, Hyunwook Nam², Shintaro Ueno¹, Satoshi Wada¹

¹University of Yamanashi, ²Tokyo University of Science

1-P-22. Glass Coating Process on Ceramic Substrate by Electrophoretic Deposition Method

Mio Takakura¹, Takehiro Yonezawa², Katsumi Yoshida³

¹School of Materials and Chemical Technology-Department of Materials Science and Engineering, Institute of Science Tokyo, JAPAN, ²Innovation Center, Mitsubishi Materials Corporation, ³Laboratory for Zero-Carbon Energy, Institute of Innovative Research, Institute of Science Tokyo

1-P-23. Cold Sintering of SiC Ceramics using Planetary Ball-Milled SiC Powder

Haruki Setogawa¹, Anna Gubarevich¹, Katsumi Yoshida¹

¹Institute of Science Tokyo

1-P-24. Green synthesis of sea urchin-like Nb₂O₅ nanoparticles

Teruaki Fuchigami1

¹National Institute of Advanced Industrial Science and Technology, Japan

2-P-25. Fracto-emission during aerosol deposition of alumina films

Yasuhito Matsubayashi¹, Tsuyohito Ito², Kentaro Shinoda¹, Kazuo Terashima², Jun Akedo¹

¹National Institute of Advanced Industrial Science and Technology, ²University of Tokyo

1-P-26. Synthesis of fluorite-type superlattice structure compounds for synroc solidification

Ryosuke Maki¹, Satofumi Maruyama², Ryota Nakazawa³, Masahiko Nakase³, Kenji Shirasaki⁴, Yoshihiro Kusano¹

¹Okayama University of Science, ²Tokyo City University, ³Institute of Science Tokyo, ⁴The University of Osaka

1-P-27. Development of a surface treatment that does not use environmentally hazardous substances and is an alternative to chrome plating using the AD method

Noriaki Kaneko¹, Teruichi Watanabe¹, Ryotaro Imaizumi²

¹Hojitsu Seiko Co., Ltd. Yonezawa Office, ²Hojitsu Seiko Co., Ltd., Yonezawa City, Yamagata Prefecture

1-P-28. Low Temperature Sintering and Interface Control of Composite Dielectrics for Microwave Applications

Nayeon Kwon¹, Junwon Lee¹, Tae Yeong Song¹, Do-kyun Kwon¹

¹Department of Materials Science and Engineering, Korea Aerospace Univ., Republic of Korea

1-P-29. Low-energy processing of dielectric ceramics incorporated with 2D oxide nanosheets

Junwon Lee¹, Tae yeong Song¹, Nayeon Kwon¹, *Do-Kyun Kwon¹

¹Department of Materials Science and Engineering, Korea Aerospace Univ., Republic of Korea

1-P-30. Development of Hierarchically Porous Ceramic Membranes for Catalytic Membrane Reactors: Microstructure Engineering for Sustainable Synthetic Fuel Production

Dagmara Uhl^{1,2}, Dariusz Kata², Gurdial Blugan¹

¹ Empa, Swiss Federal Laboratories for Materials Science and Technology, Laboratory for High Performance Ceramics, 8600 Dübendorf CH

² AGH University of Science and Technology, Faculty of Material Science and Ceramics, 30-059 Krakow PL

■■ Tuesday, Oct 7, 2025 (3rd day) 17:00-18:30 ■■

2-P-1. Synthesis and charge-discharge properties of W-doped anatase TiO₂ nanoparticle by hydrothermal synthesis process

S. Taminato¹, Y. Yamada¹, D. Mori¹, N. Imanishi¹

¹Department of Applied Chemistry, Graduate School of Engineering, Mie University, Japan

2-P-2. Synthesis of Phosphorus Adsorbent from Waste Limestone Cake for Fertilizer Application

Takaaki Wajima¹

¹Graduate School of Engineering, Chiba University

2-P-3. Fracture toughness improvement of SiC dispersed Yb₂Si₂O₇ by heat treatment for environmental barrier coatings

Punnaphop Watcharamaisakul¹, Ayahisa Okawa², Hiroyuki Saito¹, Son Thanh Nguyen³, Hisayuki Suematsu¹, Thi Mai Dung Do¹, Hideto Furuno¹, Yuya Takimoto¹ and Tadachika Nakayama¹

¹Extreme Energy-Density Research Institute, Nagaoka University of Technology, Japan, ²Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Japan, ³National Institute of Technology, Kushiro College, Japan

2-P-4. Fabrication of Low-Power Consumption Hydrogen Sensor Based on TiO_x/Pt Nanocontacts via Local Atom Migration

Yasuhisa Naitoh, Hisashi Shima, Hiroyuki Akinaga

National Institute of Advanced Industrial Science and Technology (AIST)

2-P-5. Low-temperature sintering and improvement of ionic conductivity of LATP prepared via the glasscrystallization method

Tatsuya Tezuka^{1,2}, Shohei Kodama¹, Hiroaki Takeda¹, Ikuo Yanase¹

¹Saitama University, ² Sumita Optical Glass, Inc.

2-P-6. Prototyping of Multilayer Ceramic Components Using Cold Sintering Process

Satoshi Yokomizo¹, Shuichi Funahashi¹, Julian Fanghanel², Clive A. Randall², Masahiko Kimura¹

¹Murata Manufacturing Co., Ltd., ²The Pennsylvania State University

2-P-7. High heat dissipation circuit mounting using AD alumina insulating layer

Hiroki Tsuda¹, Jun Akedo¹, Yasuhito Matsubayashi¹, Taku Goto¹, Satoshi Yoshida², Satsuki Murakami², Yoichi Higashi²

¹National Institute of Advanced Industrial Science and Technology, ²Iwatani Corporation

2-P-8. Cold crystallization, morphology control, and facet control of metal oxide nano-materials in aqueous solutions for gas sensors and chemical sensors

Yoshitake Masuda¹

¹National Institute of Advanced Industrial Science and Technology (AIST)

2-P-9. Fabrication of Aluminum Nitride Thick Film by Aerosol Deposition Method

M. Mori¹, T. Ninomiya^{2,3}, T. Takagi^{2,3}, M. Niwa^{2,3}, T. Kuroda^{2,3}

¹Faculty of Advanced Science and Technology, Ryukoku University, Japan, ²Systems Design Lab., The University of Tokyo, ³Research Association for Advanced Systems (RaaS)

2-P-10. Enhanced energy storage in lead zirconate titanate (PZT) thick film deposited by Aerosol Deposition Method

Sewoong Oh1, Hiroki Tsuda1, Jun Akedo1

¹National Institute of Advanced Industrial Science and Technology (AIST)

2-P-11. Improvement for electrical properties and reduction of variation in their properties of Aerosol deposition (AD)

Sewoong Oh1, Jun Akedo1

films by using Robust Design

¹National Institute of Advanced Industrial Science and Technology (AIST)

2-P-12. No-firing Ceramic Coatings Using Electrophoretic Deposition Process

Tetsuo Uchikoshi¹

¹National Institute for Materials Science

2-P-13. Development of transparent ceramics through colloidal process and SPS methods

Tohru S. Suzuki¹, Kiyoshi Kobayashi¹

¹National Institute for Materials Science

2-P-14. Cold sintering process for densification of Zr₂SP₂O₁₂ with negative thermal expansion

Tsuyoshi Aburano¹, Yasuhide Mochizuki¹, Akira Nakajima¹, Toshihiro Isobe¹

¹Institute of Science Tokyo

2-P-15. Additive Manufactured Solid Oxide Electrochemical Stacks for Power Generation

T. Suzuki¹, C. Junaedi¹ and S. Roychoudhury¹

¹Precision Combustion, Inc., U.S.A

2-P-16. Low-Environmental-Impact Synthesis of LED Phosphor Materials via Microwave Heating

Masayuki Hirota¹, You Zhou², Kiyoshi Hirao²

¹College of Industrial Technology, ²National Institute of Advanced Industrial Science and Technology (AIST)

2-P-17. Creation of a YSZ film with a spiny surface that combines antibacterial properties and biocompatibility

Masami Hashimoto¹, Norio Yamaguchi¹, Soma Hashimoto¹, Satoshi Kitaoka¹, Hiroyasu Kanetaka²

¹Japan Fine Ceramics Center, ²Tohoku University

2-P-18. Preparation of orientation map of perovskite type compounds on fluorite structure oxides on Si(001)

Naoki Wakiya¹, Takahiko Kawaguchi¹, Naonori Sakamoto¹

¹Shizuoka University

2-P-19. LiOH-flux LPE growth of Li-ion solid electrolyte LLZTO epitaxial thin films

T. Kawaguchi¹, M. Moriya¹, A. Machino¹, N. Sakamoto¹, N. Wakiya¹

¹Graduate school of Integrated Science and Technology, Shizuoka University, Japan

2-P-20 Development and application of nano-coating technology to particles with sub-micron size diameter

Tomoya Ohno¹, Jeevan Kumar Padarti¹, Naonori Sakamoto² Shigeto Hirai¹

¹Kitami Institute of Technology, ²Shizuoka University

2-P-21. Investigation of lower process temperature for SiC ceramics diffusion bonding using insert material

T. Ozaki¹, H. Tsuda², S. Mori²

¹Osaka Research Institute of Industrial Science and Technology, ²Osaka Metropolitan University

2-P-22. Producing Solid-State Batteries by the Powder Aerosol Deposition Method: Overview and Recent Progress

Ralf Moos^{1,2}, Lukas Hennerici^{1,2}, Mutlucan Sozak^{1,2}, Kim Wiedemann^{1,2}, Daniel Paulus¹, Jürgen Schneider¹,

Nils Donker¹, Daniela Schönauer-Kamin¹

¹University of Bayreuth, Department of Functional Materials, Germany, ²Bavarian Center for Battery Technology (BayBatt), Germany,

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2-P-23. Relation Between Cooling Rate and Structural Phase Transition in Bi_{0.5}Na_{0.5}TiO₃-Based Energy Storage Ceramics

Y. Takagi, H, Nam, H. Nagata

¹Tokyo Institute of Technology

2-P-24. Low-Temperature Sputtering Growth of Supersaturated Sc-based Nitrides under Non-Thermal Equilibrium Conditions for Functional Devices

Masato Uehara¹, Kenji Hirata¹, Kazuki Okamoto², Sri Ayu Anggraini¹, Hiroshi Yamada¹, Hiroshi Funakubo², Morito Akiyama¹

¹National Institute of Advanced Industrial Science and Technology (AIST), Japan, ² Institute of Science Tokyo, Japan

2-P-25. Development of ceramic sintering process monitoring technology using nanosecond pulses

Tadachika Nakayama, Hiroyuki Saito, Wataru Mita, Hisayuki Suematsu, Koichi Niihara Nagaoka Univ of Tech

2-P-26. Interface Enhancement and Engineering in Solid-State Kinetic Spray Deposition

Kentaro Shinoda¹, Mitsugu Sato¹, Takashi Nagoshi¹

¹ Core Manufacturing Technology Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), 1-2-1 Namiki, Tsukuba, Ibaraki 305-8564, Japan

2-P-27. Li dendrite suppression effect of Li_{6.25}Ga_{0.25}La₃Zr₂O₁₂-chloride composite solid-electrolyte

Daisuke MORI¹, Ryota Katsu¹, Takuya Wada¹, Kazuki Yonezawa¹, Sou Taminato¹, Nobuyuki Imanishi¹, Kota Suzuki², Masaaki Hirayama³

¹ Department of Applied Chemistry, Graduate School of Engineering, Mie University, Mie 514-8507, Japan

² Research Center for All-Solid-State Battery, Institute of Innovative Research, Institute of Science Tokyo,

Yokohama, 226-8502, Japan. ³ Department of Chemical Science and Engineering, Institute of Science Tokyo, Yokohama, 226-8502, Japan.

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Please use as a notepad

A. Bruera	2-A-1
A. Elsenberg	2-A-1
A. Machino	2-P-19
Adisu Tsige Shibiru	1-P-12
Akira Kishimoto	1-P-1, 2-C-3
Akira Miura	3-C-4
Akira Nakajima	2-P-14
Aleksej Zarkov	1-P-13
Alexander Martin	2-C-6
Andreas Elsenberg	2-B-1
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Ayumi Shinagawa	3-C-3
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E. Roitero	1-A-6
F. Gärtner	2-A-1
Fei Shen Ong	1-A-7
Frank Gaertner	2-B-1
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G. Bolelli	2-A-1
G. Dolcetti	2-A-1
G. Goglio	1-A-6
G. Philippot	1-A-6
Gaku Okuma	1-P-15
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H. Debéda	1-A-6
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H. Reveron	1-A-6
H. Takeda	1-P-3
Hana Ursic	2-B-5
Haruki Setogawa	1-P-23
Hidehiro Yoshida	1-A-7
Hideto Furuno	1-P-7, 2-P-3
Hikaru Hirabaru	1-P-1
Hiroaki Ide	3-C-3
Hiroaki Takeda	2-P-5
Hirofumi Sumi	3-A-1
Hiroki Motomura	1-A-7
Hiroki Tsuda	2-P-7, 2-P-10, 2-P-21
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