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	Title	Authors
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A A11 11	The Effects of Packing Particle Shape on the Flow Dynamics and Heat Recovery	2 National Taiwan University, Taiwan
. An-Ni Huang	in a Packed Bed	3 Chang Gung University, Taiwan
	Design of interparticle photo-cross-linkable suspension using γ -Al2O3	F. Yokomori*1, J. Tatami*1, M. lijima*1
Fumiya Yokomori	nanoparticles and 3D printing by stereolithography	1 Yokohama National University, Japan
		Haruki Sakurai* 1, Junichi Tatami 2, Motoyuki lijima 2
		1 Graduate School of Environment and Information Sciences, Yokohama National
		University, Japan
	Three-dimensional structuring of porous materials using interparticle photo-	2 Faculty of Environment and Information Sciences, Yokohama National University,
Haruki Sakurai	cross-linkable slurry and ceramic beads	Japan
		Katsuya Onishi*, Tomonori Fukasawa, Toru Ishigami, Ayaka Tamaru, Kunihiro Fukui
Katsuya Unishi		Hiroshima University, Japan
		A. Honda*1, J. Tatami 1, M. lijima 1
Akari Honda		1 Yokohama National University, Japan
		N. Tozawa*1, J. Tatami1, M. lijima
Nozomu Tozawa	sintering of CaSiO3-doped Al2O3 green bodies	1 Yokohama National University, Japan
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Reona Nomura	flowability	
		Yuto Masuda* 1), Junichi Tatami 1), Motoyuki lijima 1),Tatsuki Ohji 1),
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		1) Graduate School of Environment and Information Sciences, Yokohama National
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Yuto Masuda	composite ceramics	
		Komaki Matsuura* 1), Junichi Tatami 1), Motoyuki lijima 1) Tatsuki Ohji 1), Takuma
		Takahashi 2), Hiromi Nakano 3)
		1) Yokohama National University, Japan
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	Effect of cyclic applied stress on grain boundary strength of silicon nitride	
Komaki Matsuura	ceramics	
		I. Kubota*1, Y. Imayoshi1, S. Ohsaki1, H. Nakamura1, S. Watano1
		1) Department of Chemical Engineering, Osaka Metropolitan University, Japan
Issei Kubota	measuring the distribution of die wall pressure	
		H. Kanai*1, S. Ohsaki1, H. Nakamura1, S. Watano1
Haruki Kanai	Effect of structural defects in MOFs on drug loading capacity	1 Osaka Metropolitan University, Japan
		Yugo Sato*1, Toshiyuki Nomura1
Yugo Sato	Synthesis of high functional pesticides using biodegradable carrier particles	1 Osaka Metropolitan University, Japan
		Shunichi Ishibashi*1, Toshiyuki Nomura1
		1 Osaka Metropolitan University, Japan
Shunichi Ishibashi	from urban mines	
		Takahiro Oikawa*1, Junichi Tatami2, Motoyuki lijima2
		1 Graduate School of Environment and Information Sciences, Yokohama National
		University, Japan
	Homogenized silicon nitride green compacts prepared by in-situ solidification of	
		2 Faculty of Environment and Information Sciences, Yokohama National University,
Takahiro Oikawa	nonaqueous slurries	Japan
	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of	Japan A. Ide*1, J. Tatami1, M. Iijima1
Takahiro Oikawa Akihito Ide	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan
	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of	Japan A. Ide*1, J. Tatami1, M. Iijima1
	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan
Akihito Ide	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2
Akihito Ide	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan
Akihito Ide	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2
Akihito Ide	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University, Japan
Akihito Ide Minami Matsuo	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism Aqueous based photocurable ZrO2 suspensions for greener DLP-3D printing	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University,
Akihito Ide Minami Matsuo	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism Aqueous based photocurable ZrO2 suspensions for greener DLP-3D printing	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University, Japan
Akihito Ide Minami Matsuo	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism Aqueous based photocurable ZrO2 suspensions for greener DLP-3D printing	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University, Japan Hiromasa Kuroda *1, Junichi Tatami 1, Motoyuki Iijima 1, Takuma Takahashi 2
Akihito Ide Minami Matsuo	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism Aqueous based photocurable ZrO2 suspensions for greener DLP-3D printing	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University, Japan Hiromasa Kuroda *1, Junichi Tatami 1, Motoyuki Iijima 1, Takuma Takahashi 2 1 Graduate School of Engineering Science and Faculty of Engineering, Yokohama
Akihito Ide Minami Matsuo	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism Aqueous based photocurable ZrO2 suspensions for greener DLP-3D printing process	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University, Japan Hiromasa Kuroda *1, Junichi Tatami 1, Motoyuki Iijima 1, Takuma Takahashi 2 1 Graduate School of Engineering Science and Faculty of Engineering, Yokohama National University, Japan
Akihito Ide Minami Matsuo Ryota Tomiyama	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism Aqueous based photocurable ZrO2 suspensions for greener DLP-3D printing process Visualization of drying behavior of aqueous silica slurries with different organic	Japan A. Ide*1, J. Tatami1, M. lijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki lijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University, Japan Hiromasa Kuroda *1, Junichi Tatami 1, Motoyuki lijima 1, Takuma Takahashi 2 1 Graduate School of Engineering Science and Faculty of Engineering, Yokohama National University, Japan 2 Kanagawa Institute of Industrial Science and Technology, Japan
Akihito Ide Minami Matsuo Ryota Tomiyama	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism Aqueous based photocurable ZrO2 suspensions for greener DLP-3D printing process Visualization of drying behavior of aqueous silica slurries with different organic additives by operand OCT observation	Japan A. Ide*1, J. Tatami1, M. lijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki lijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University, Japan Hiromasa Kuroda *1, Junichi Tatami 1, Motoyuki lijima 1, Takuma Takahashi 2 1 Graduate School of Engineering Science and Faculty of Engineering, Yokohama National University, Japan 2 Kanagawa Institute of Industrial Science and Technology, Japan
Akihito Ide Minami Matsuo Ryota Tomiyama Hiromasa Kuroda	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism Aqueous based photocurable ZrO2 suspensions for greener DLP-3D printing process Visualization of drying behavior of aqueous silica slurries with different organic additives by operand OCT observation Analysis of the Adsorption Kinetics of Metal–Organic Frameworks Using a Quartz	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University, Japan Hiromasa Kuroda *1, Junichi Tatami 1, Motoyuki Iijima 1, Takuma Takahashi 2 1 Graduate School of Engineering Science and Faculty of Engineering, Yokohama National University, Japan 2 Kanagawa Institute of Industrial Science and Technology, Japan M. Moriwaki*1, H. Uematsu1, S. Hiraide1, S. Watanbe1
Akihito Ide Minami Matsuo Ryota Tomiyama Hiromasa Kuroda	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism Aqueous based photocurable ZrO2 suspensions for greener DLP-3D printing process Visualization of drying behavior of aqueous silica slurries with different organic additives by operand OCT observation Analysis of the Adsorption Kinetics of Metal–Organic Frameworks Using a Quartz	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University, Japan Hiromasa Kuroda *1, Junichi Tatami 1, Motoyuki Iijima 1, Takuma Takahashi 2 1 Graduate School of Engineering Science and Faculty of Engineering, Yokohama National University, Japan 2 Kanagawa Institute of Industrial Science and Technology, Japan M. Moriwaki*1, H. Uematsu1, S. Hiraide1, S. Watanbe1 1 Kyoto University, Japan
Akihito Ide Minami Matsuo Ryota Tomiyama Hiromasa Kuroda	nonaqueous slurries Design of interparticle photo-cross-linkable suspension for DLP-3D printing of ZrO2 ceramic components Synthesis of Co-Crystals via Liquid-Liquid Interfacial Crystallization and Effects of Precipitation Conditions on Polymorphism Aqueous based photocurable ZrO2 suspensions for greener DLP-3D printing process Visualization of drying behavior of aqueous silica slurries with different organic additives by operand OCT observation Analysis of the Adsorption Kinetics of Metal–Organic Frameworks Using a Quartz	Japan A. Ide*1, J. Tatami1, M. Iijima1 1 Yokohama National University, Japan M. Matsuo*1, M. Yoshida1, Y. Shirakawa1 1 Graduate School of Science and Engineering, Doshisha University, Japan R. Tomiyama* 1, Junichi Tatami 2, Motoyuki Iijima 2 1 Graduate School of Enginnering Science, Yokohama National University, Japan 2 Faculty of Environment and Information Sciences, Yokohama National University, Japan Hiromasa Kuroda *1, Junichi Tatami 1, Motoyuki Iijima 1, Takuma Takahashi 2 1 Graduate School of Engineering Science and Faculty of Engineering, Yokohama National University, Japan 2 Kanagawa Institute of Industrial Science and Technology, Japan M. Moriwaki*1, H. Uematsu1, S. Hiraide1, S. Watanbe1 1 Kyoto University, Japan Kenta Kitamura*1, 2, Takamasa Mori 1,2 1 Department of Chemical Science and Technology, Faculty of Bioscience and Applied Chemistry, Hosei University, Japan, 2
	uto Masuda omaki Matsuura sei Kubota aruki Kanai ugo Sato	Internal Structure evolution of alumina slurry during slip casting process visualized by OCT in situ observation - Effect of the amount of PVA binder - In-situ OCT visualization of internal structural changes during liquid phase sintering of CaSiO3-doped Al2O3 green bodies eona Nomura Effects of aerating methods and conditions on the improvement of particle flowability uto Masuda Microscale mechanical properties of sliding friction surface of α/β SiAlON composite ceramics uto Masuda Effect of cyclic applied stress on grain boundary strength of silicon nitride ceramics uto Matsuura Effect of cyclic applied stress on grain boundary strength of silicon nitride measuring the distribution of die wall pressure sei Kubota Effect of structural defects in MOFs on drug loading capacity ugo Sato Synthesis of high functional pesticides using biodegradable carrier particles

			Fumiya Kimura 1), Junichi Tatami 1), Motoyuki lijima 1) Takumi Takahashi2)
		Doweving holowies of coromic compacts observed in situ by a combined OCT	1)Yokohama National University
P-A-21	Mr. Fumiya Kimura	Dewaxing behavior of ceramic compacts observed in-situ by a combined OCT- TG-FTIR-MS system	2)Kanagawa Institute of Industrial Science and Technology
1 77 21	ini. Fulliya Kinara	Ultra-fast tetracycline degradation utilizing ZIF-derived C, N-	
		ZnO/Co304/CoFe204/Fe304 catalyst and in-silico environmental impact	Abhivyakti .*1, Sonal Singhal1
P-A-22	Ms. Abhivyakti .	assessment of degradation products	1 Panjab University, India
			Kaito Yamada*1, Mikio Yoshida1,2, Yoshiyuki Shirakawa1,2
			1 Conducts Cohool of Colones and Engineering Dashields University Jacob
		Simulation analysis of the effects of adhesive and frictional particle interactions	1 Graduate School of Science and Engineering, Doshisha University, Japan 2 Faculty of Science and Engineering, Doshisha University, Japan
P-A-23	Mr. Kaito Yamada	on slurry viscosity behaviors	
			Ryo Osaki* 1), Shuji Ohsaki 1), Hideya Nakamura1), Satoru Watano1)
		Oxide coating of cathode active material in all-solid-state batteries using spray	1) Department of Chemical Engineering, Osaka Metropolitan University, Japan
P-A-24	Mr. Ryo Osaki	drying method	
		Preparation of Poly-L-Lactic Acid Microparticles Encapsulating Drug-Containing	Takayoshi Kiguchi*1, Miori Sato2, Akihiro C. Yamashita1,2 1 Faculty of Bioscience and Applied Chemistry, Hosei University, Tokyo, Japan
P-A-25	Dr. Takayoshi Kiguchi	Gel for Sustained-Release	2 Graduate School of Science and Engineering, Hosei University, Tokyo, Japan
1 11 23	Dit fukuyoshi filguoni		Takuto Furukawa*1, Junichi Tatami2, Motoyuki lijima2
			1) Graduate School of Environment and Information Sciences, Yokohama National
			University, Japan
		Dispersion of cellulose nanofibers in acrylic resin with surface modified SiO2	2) Faculty of Environment and Information Sciences, Yokohama National University,
P-B-01	Mr. Takuto Furukawa	nanoparticles	Japan
			Nao Ozamoto*1, Tomoomi Segawa2, Katsunori Ishii2, Koichi Kawaguchi2, Tomonori Fukasawa1, Toru Ishigami1, Kunihiro Fukui1
			1 Hiroshima University, Japan
			2 MOX Fuel Cyclone Design Group, Strategy and Management Department, Japan
		Effect of Particle Properties and Concentration on Classification Performance of	Atomic Energy Agency
P-B-02	Ms. Nao Ozamoto	Cyclone Separator	
			Haruto Ikeda*, Toru Ishigami, Kunihiro Fukui, Tomonori Fukasawa
		Effect of Mixing Ratio of Multivalent Cations on Shear Yield Stress of Particle	Hiroshima University, Japan
P-B-03	Mr. Haruto Ikeda	Suspensions	
			Misato Takahashi*1, Junichi Tatami2, Motoyuki lijima2
			1 Graduate School of Environment and Information Sciences, Yokohama National
			University, Japan
		Drying shrinkage behavior of green bodies 3D printed using interparticle photo-	2 Faculty of Environment and Information Sciences, Yokohama National University, Japan
P-B-04	Ms. Misato Takahashi	cross-linkable SiO2 slurry	
			Kazumi Yoshiya*1, 2, Yuto Yamamoto 2, Kento Izumi 1, Yutaro Takaya1, 2, Chiharu
			Tokoro1, 2
			1 Department of Resources and Environmental Engineering, Graduate School of
		Exploring the optimal crushing method of iron ore – Proposal based on cross-	Creative Science and Engineering, Waseda University, Tokyo, Japan 2 Department of Systems Innovation, Graduate School of Engineering, The University
P-B-05	Dr. Kazumi Yoshiya	sectional morphology and crack observation of iron ore	of Tokyo, Tokyo, Japan
			S. Tsutaki*1, J. Tatami2, M. lijma2
			1 Graduate School of Environment and Information Sciences, Yokohama National
			University, Japan
P-B-06	Mr. Shogo Tsutaki	Design of transparent photocurable Pickering emulsion for high-resolution DLP- 3D printing of porous ceramics	2 Faculty of Environment and Information Sciences, Yokohama National University, Japan
1-0-00	WIT. SHOUD I SULAKI	Effect of polyethyleneimine molecular weight on the flowing properties of highly	Yuki Imai*1, Junichi Tatami1, Motoyuki lijima1
P-B-07	Mr. Yuki Imai	concentrated SiO2/BC slurry	1 Yokohama National University, Japan
			Yuto Yamamoto*1, Kazumi Yoshiya2,1, Chiharu Tokoro2,1, Yutaro Takaya1,2
		Automation of mineral liberation measurement of iron ore by using image	1 Graduate School of Engineering, The University of Tokyo, Japan
P-B-08	Mr. Yuto Yamamoto	processing	2 Faculty of Science and Engineering, Waseda University, Japan
			Zehao Xu*1,2, Hiroaki Furuse2, Tohru S. Suzuki1,2
			1 Department of Nanoscience and Nanoengineering, Graduate School of Advanced
			1 Department of Nanoscience and Nanoengineering, Graduate School of Advanced Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN
		Fabrication of Er:(Y, La)2O3 ceramics with high transparency by spark plasma	Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN
P-B-09	Mr. Zehao XU	sintering	Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN 2 Research Center for Electronic and Optical Materials, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki 305-0047, JAPAN
		sintering Green luminescence of ZnSi2O4:Mn2+ derived from precursors prepared by	Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN 2 Research Center for Electronic and Optical Materials, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki 305-0047, JAPAN T. Suzuki*, Y. Matsushima
P-B-09 P-B-10	Mr. Zehao XU Mr. Taisei Suzuki	sintering Green luminescence of ZnSi2O4:Mn2+ derived from precursors prepared by hydrothermal synthesis	Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN 2 Research Center for Electronic and Optical Materials, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki 305-0047, JAPAN
		sintering Green luminescence of ZnSi2O4:Mn2+ derived from precursors prepared by	Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN 2 Research Center for Electronic and Optical Materials, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki 305-0047, JAPAN T. Suzuki*, Y. Matsushima
P-B-10	Mr. Taisei Suzuki	sintering Green luminescence of ZnSi2O4:Mn2+ derived from precursors prepared by hydrothermal synthesis Effects of Precursors on the Synthesis and Dielectric Properties for (Mg _{0.2} Ni _{0.2} Zn	Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN 2 Research Center for Electronic and Optical Materials, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki 305-0047, JAPAN T. Suzuki*, Y. Matsushima Yamagata University, Japan
P-B-10	Mr. Taisei Suzuki	sintering Green luminescence of ZnSi2O4:Mn2+ derived from precursors prepared by hydrothermal synthesis Effects of Precursors on the Synthesis and Dielectric Properties for (Mg _{0.2} Ni _{0.2} Zn	Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN 2 Research Center for Electronic and Optical Materials, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki 305-0047, JAPAN T. Suzuki*, Y. Matsushima Yamagata University, Japan Li-Heng Tai*, Shao-Ju Shih and Tzu-Yun Lin
P-B-10	Mr. Taisei Suzuki	sintering Green luminescence of ZnSi2O4:Mn2+ derived from precursors prepared by hydrothermal synthesis Effects of Precursors on the Synthesis and Dielectric Properties for (Mg ₀₋₂ Ni ₀₋₂ Zn ₀₋₂ Co ₀₋₂ Mn ₀₋₂) ₂ SiO ₄ High-Entropy Ceramics	Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN 2 Research Center for Electronic and Optical Materials, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki 305-0047, JAPAN T. Suzuki*, Y. Matsushima Yamagata University, Japan Li-Heng Tai*, Shao-Ju Shih and Tzu-Yun Lin Riko Yamazaki*1, Junichi Tatami*1, Motoyuki lijima*1, Shinya Kawaguchi*2, Naoki Kondo*3 1 Yokohama National University, Japan
P-B-10 P-B-11	Mr. Taisei Suzuki Mr. Li-Heng Tai	sintering Green luminescence of ZnSi2O4:Mn2+ derived from precursors prepared by hydrothermal synthesis Effects of Precursors on the Synthesis and Dielectric Properties for (Mg ₀₋₂ Ni ₀₋₂ Zn ₀₋₂ Co ₀₋₂ Mn ₀₋₂) ₂ SiO ₄ High-Entropy Ceramics Properties of Si3N4 granules fabricated by spray freeze granulation drying from	Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN 2 Research Center for Electronic and Optical Materials, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki 305-0047, JAPAN T. Suzuki*, Y. Matsushima Yamagata University, Japan Li-Heng Tai*, Shao-Ju Shih and Tzu-Yun Lin Riko Yamazaki*1, Junichi Tatami*1, Motoyuki lijima*1, Shinya Kawaguchi*2, Naoki Kondo*3 1 Yokohama National University, Japan 2 Preci Co. Ltd., Japan
P-B-10	Mr. Taisei Suzuki	sintering Green luminescence of ZnSi2O4:Mn2+ derived from precursors prepared by hydrothermal synthesis Effects of Precursors on the Synthesis and Dielectric Properties for (Mg ₀₋₂ Ni ₀₋₂ Zn ₀₋₂ Co ₀₋₂ Mn ₀₋₂) ₂ SiO ₄ High-Entropy Ceramics	Science and Engineering, Waseda University, Tokyo 169-8555, JAPAN 2 Research Center for Electronic and Optical Materials, National Institute for Materials Science (NIMS), Tsukuba, Ibaraki 305-0047, JAPAN T. Suzuki*, Y. Matsushima Yamagata University, Japan Li-Heng Tai*, Shao-Ju Shih and Tzu-Yun Lin Riko Yamazaki*1, Junichi Tatami*1, Motoyuki lijima*1, Shinya Kawaguchi*2, Naoki Kondo*3 1 Yokohama National University, Japan

			Wan Chin Yu* Chang En Taoi Naathu Sabaatian
		Construction of NiCo All average Develop Undervide (Contra Negative Conservite	Wan-Chin Yu*, Cheng-En Tsai, Neethu Sebastian
D D 14	Durf Weig Chin Vie	Construction of NiCuAl Layered Double Hydroxide/Carbon Nanotube Composite for Electrochemical Detection of Tert-Butylhydroguinone	Department of Molecular Science and Engineering, National Taipei University of Technology, Taiwan, R.O.C.
P-B-14	Prof. Wan-Chin Yu	for Electrochemical Detection of Tert-Butyinydroquinone	
			H. Okaya1, J. Tatami1, M. lijima1, T. Takahashi1,2
		Influence of granulation process on optical properties of Ca- α -SiAlON:Eu2+	1 Yokohama National University, Japan
P-B-15	Mr. Hidekazu Okaya	ceramics	2 Kanagawa Institute of Industrial Science and Technology, Japan
			V. Pouchly* 1,2, E. Scasnovic 2, T. Spusta 2, D. Sobola 2
		Compositionally Complex Ceramic oxides based on (MgCoCuNiZn)O and	1 Faculty of Mechanical Engineering, Brno University of Technology, Czech Republic
		(CoCrFeNiMn)304: Sintering behavior, final microstructure, chemical	2 CEITEC, Brno University of Technology, Czech Republic
P-B-16	Dr. Vaclav Pouchly	homogeneity and their final electro-magnetic properties.	
			To-Yu Wang1*, Hsin-Yu Fan1, Chao-Wei Huang1
P-C-01	Mr. To-Yu Wang	Scalable Inorganic Aqueous Coatings for Passive Daytime Radiative Cooling	1 National Cheng Kung University, Taiwan
		Preparation and Visible-Light-Driven Photocatalytic Degradation Properties of	Yu-Tse Lin1, Chin-Yi Chen*1
P-C-02	Prof. Chin-Yi Chen	Heterostructured MoS ₂ /Bi ₂ WO ₆ /BiOBr Composite Powder	1 Department of Materials Science and Engineering, Feng Chia University, Taiwan.
			S. Sugimoto*1, Y. Tsugawa1, M. Morimitsu1, M. Yoshida1, Y. Shirakawa1
P-C-03	Mr. Shunsuke Sugimoto	Design of Zinc Battery Separator for Dendrite Suppression	1 Graduate School of Science and Engineering, Doshisha University, Japan
			K. Arai*, T. Shimizu, S. Wajima, Y. Matsushima
P-C-04	Mr. Kakeru Arai	All-solid-state Batteries Composed of Ag+ Superionic Conductor	Yamagata University, Japan
			Takatoshi Kurihara*1, Asako Narita2, Moe Nakahara1, Chiharu Tokoro2,3
			1 Graduate School of Creative Science and Engineering, Waseda University, Japan
		Effect of the resistance at the interface with discharge electrodes on separation	2 Faculty of Science and Engineering, Waseda University, Japan
		of lithium-ion batteries cathode materials by direct electrical pulsed discharge	3 Faculty of Engineering, The University of Tokyo, Japan
P-C-05	Mr. Takatoshi Kurihara	method	
			Tomoyuki Yonezawa*1), Akiko Kubota2), Manabu Inutsuka3), Michio Kondo4), Hidehiro
			Kamiya2), Chiharu Tokoro5,6)
			namyaz, omnaru rokoros,o/
			1) Cohool of Coroting Colones and Engineering Woods University Jacob
			1) School of Creative Science and Engineering, Waseda University, Japan
			2) Sustainable Energy & Environmental Society Open Innovation Research
			Organization, Waseda University, Japan
			3) Waseda Center for a Carbon Neutral Society, Waseda University, Japan
			4) Research Innovation Center, Waseda University, Japan
			5) Faculty of Science and Engineering, Waseda University, Japan
			6) Graduate School of Engineering, The University of Tokyo, Japan
P-C-06	Mr. Tomoyuki Yonezawa	Dismantling of photovoltaic panels for silicon recovery using microwave heating	
			Mehdi Estili,* Tohru S. Suzuki
			,
P-C-07	Dr. Mehdi Estili	Carbon nanotube–MXene membranes for electrochemical energy applications	National Institute for Materials Science (NIMS), Tsukuba, Ibaraki, Japan
		0.11	Wan-Yi Hsu*1, Wei-Han Jen2, Hsiu-Po Kuo2
		Experimental and Simulation Studies on Countercurrent Fluidized Bed VOC	1 Chang Gung University, Taiwan
P-C-08	Ms. Wan-Yi Hsu	Absorber using Bead Activated Carbon as the Fluidizing Media	2 National Taiwan University, Taiwan
1 0 00	1013. Wall 11 1130		Jingwen Sun*
P-D-01	Drof linguon Sun	Manipulating Spin State of PuO2 for Pobulat Asidia Ovugan Evolution	
F-D-01	Prof. Jingwen Sun	Manipulating Spin State of RuO2 for Robust Acidic Oxygen Evolution	1 Nanjing University of Science and Technology, China
			Chin-Wei Wu, Ming-Hung Chiang, Chien-Liang Lee*
D D 00		Specific Activities of PdAu Octahedral, Truncated Octahedral, and Cubic	Department of Chemical and Materials Engineering, National Kaohsiung University of
P-D-02	Prof. Chien-Liang Lee	Specific Activities of PdAu Octahedral, Truncated Octahedral, and Cubic Nanopowders as Non-Enzymatic Glucose Sensors	Science and Technology, Kaohsiung 807, Taiwan.
P-D-02	Prof. Chien-Liang Lee		Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1
		Nanopowders as Non-Enzymatic Glucose Sensors	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University,
P-D-02 P-D-03	Prof. Chien-Liang Lee Ms. I-Ting Kuo		Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan
		Nanopowders as Non-Enzymatic Glucose Sensors	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin
		Nanopowders as Non-Enzymatic Glucose Sensors	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2
		Nanopowders as Non-Enzymatic Glucose Sensors	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin
		Nanopowders as Non-Enzymatic Glucose Sensors	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2
		Nanopowders as Non-Enzymatic Glucose Sensors	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of
		Nanopowders as Non-Enzymatic Glucose Sensors	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan
		Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei,
P-D-03	Ms. I-Ting Kuo	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan
P-D-03 P-D-04	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNbO3 ferroelectric thin films by a solution process and their	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1
P-D-03	Ms. I-Ting Kuo	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan
P-D-03 P-D-04	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNbO3 ferroelectric thin films by a solution process and their photoinduced properties	 Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2
P-D-03 P-D-04 P-D-05	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNbO3 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical	 Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan
P-D-03 P-D-04	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNb03 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution method	 Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan 2 National Institute of Advanced Industrial Science and Technology, Japan
P-D-03 P-D-04 P-D-05 P-D-06	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNb03 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant	 Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan 2 National Institute of Advanced Industrial Science and Technology, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1
P-D-03 P-D-04 P-D-05	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNb03 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution method	 Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan
P-D-03 P-D-04 P-D-05 P-D-06	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNb03 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant	 Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan Yu-Wen Hsiao*1, Wei-Hsing Tuan1, Jin-Ren Chen2, Po-Liang Lai2
P-D-03 P-D-04 P-D-05 P-D-06	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNb03 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan 2 National Institute of Advanced Industrial Science and Technology, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan
P-D-03 P-D-04 P-D-05 P-D-06	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNb03 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurail, Y. Fujiil, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan 2 National Institute of Advanced Industrial Science and Technology, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan Yu-Wen Hsiao*1, Wei-Hsing Tuan1, Jin-Ren Chen2, Po-Liang Lai2
P-D-03 P-D-04 P-D-05 P-D-06	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNb03 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurail, Y. Fujiil, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan 2 National Institute of Advanced Industrial Science and Technology, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan Yu-Wen Hsiao*1, Wei-Hsing Tuan1, Jin-Ren Chen2, Po-Liang Lai2 1 Department of Materials Science and Engineering, National Taiwan University,
P-D-03 P-D-04 P-D-05 P-D-06	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNb03 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan 2 National Institute of Advanced Industrial Science and Technology, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan Yu-Wen Hsiao*1, Wei-Hsing Tuan1, Jin-Ren Chen2, Po-Liang Lai2 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan.
P-D-03 P-D-04 P-D-05 P-D-06 P-D-07	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida Ms. Yuki Tsuchiya	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNbO3 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant (Na,Ba)(Nb,Ti)O3 Piezoelectric Ceramics	Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan Yu-Wen Hsiao*1, Wei-Hsing Tuan1, Jin-Ren Chen2, Po-Liang Lai2 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan. 2 Department of Orthopedic Surgery, Bone and Joint Research Center, Chang Gung Memorial Hospital, Taiwan.
P-D-03 P-D-04 P-D-05 P-D-06 P-D-07	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida Ms. Yuki Tsuchiya	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNbO3 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant (Na,Ba)(Nb,Ti)O3 Piezoelectric Ceramics	 Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan K. Nishida*1, W. Sakamoto1, K. Mimura2 1 Chubu University, Japan 2 National Institute of Advanced Industrial Science and Technology, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan Yu-Wen Hsiao*1, Wei-Hsing Tuan1, Jin-Ren Chen2, Po-Liang Lai2 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan. 2 Department of Orthopedic Surgery, Bone and Joint Research Center, Chang Gung Memorial Hospital, Taiwan. E. Hatano*1, R. Simancas1, M. Takemura1, Y. Sasaki2, A. Chokkalingam1, S. P.
P-D-03 P-D-04 P-D-05 P-D-06 P-D-07	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida Ms. Yuki Tsuchiya	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNbO3 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant (Na,Ba)(Nb,Ti)O3 Piezoelectric Ceramics	 Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan 2 National Institute of Advanced Industrial Science and Technology, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan Yu-Wen Hsiao*1, Wei-Hsing Tuan1, Jin-Ren Chen2, Po-Liang Lai2 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan. 2 Department of Orthopedic Surgery, Bone and Joint Research Center, Chang Gung Memorial Hospital, Taiwan. E. Hatano*1, R. Simancas1, M. Takemura1, Y. Sasaki2, A. Chokkalingam1, S. P. Elangovan1, K. Iyoki1, T. Okubo1, T. Wakihara1,3
P-D-03 P-D-04 P-D-05 P-D-06 P-D-07	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida Ms. Yuki Tsuchiya	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNbO3 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant (Na,Ba)(Nb,Ti)O3 Piezoelectric Ceramics Aging and fatigue resistance of zirconia with low yttria addition	 Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan 2 National Institute of Advanced Industrial Science and Technology, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan Yu-Wen Hsiao*1, Wei-Hsing Tuan1, Jin-Ren Chen2, Po-Liang Lai2 1 Department of Orthopedic Surgery, Bone and Joint Research Center, Chang Gung Memorial Hospital, Taiwan. E. Hatano*1, R. Simancas1, M. Takemura1, Y. Sasaki2, A. Chokkalingam1, S. P. Elangovan1, K. Iyoki1, T. Okubo1, T. Wakihara1,3 1 Department of Chemical System Engineering, The University of Tokyo, Japan
P-D-03 P-D-04 P-D-05 P-D-06 P-D-07	Ms. I-Ting Kuo Prof. Hsiao-Hsuan Hsu Mr. Hidetomo Nishio Mr. Keisuke Nishida Ms. Yuki Tsuchiya	Nanopowders as Non-Enzymatic Glucose Sensors Effect of Phase Transformation on Wear Resistance of Yttria-stabilized Zirconia Effect of Inserting Layer on Electrical Characterization of Hafnium Aluminum Oxide Ferroelectric Memory Fabrication of NaNbO3 ferroelectric thin films by a solution process and their photoinduced properties Synthesis and characterization of CeO2-HfO2 ferroelectric thin films by chemical solution deposition method Effect of ZrO2 Addition on the Properties of Reduction-Resistant (Na,Ba)(Nb,Ti)O3 Piezoelectric Ceramics	 Science and Technology, Kaohsiung 807, Taiwan. I-Ting Kuo*1, Wei-Hsing Tuan1 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan Jia-Hui Lin 1, Cheng-Chun Lin 1, Sheng-Hong Wang 1, Kuan-Chieh Lee1, Shu-Xuan Lin 2, Hsiao-Hsuan Hsu*1 and Chun-Hu Cheng 2 1 Institute of Materials Science and Engineering, National Taipei University of Technology, Taipei, Taiwan 2 Department of Mechatronic Engineering, National Taiwan Normal University, Taipei, Taiwan H. Nishio*1, K. Sakurai1, Y. Fujii1, W. Sakamoto1 1 Chubu University, Japan 2 National Institute of Advanced Industrial Science and Technology, Japan Y. Tsuchiya*1, A. Terada1, M. Fukaya1, W. Sakamoto1 1 Chubu University, Japan Yu-Wen Hsiao*1, Wei-Hsing Tuan1, Jin-Ren Chen2, Po-Liang Lai2 1 Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan. 2 Department of Orthopedic Surgery, Bone and Joint Research Center, Chang Gung Memorial Hospital, Taiwan. E. Hatano*1, R. Simancas1, M. Takemura1, Y. Sasaki2, A. Chokkalingam1, S. P. Elangovan1, K. Iyoki1, T. Okubo1, T. Wakihara1,3

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			1Department of Materials Convergence and System Engineering /
		Evaluation of Microstructure and Properties of Thermal Barrier Coating Co-doned	2School of Materials Science and Engineering, Changwon National University, 51140
-D-10	Ms. Jeonghyeon Lee	with Rare Earth Elements	Republic of Korea
-D-10	INIS. Jeonghyeon Lee		N. Baba*1, J. Tatami1, T. Ohji1, M. lijima1, T. Takahashi2, H. Nakano3
			1 Yokohama National University
		Degradation evaluation of mechanical properties near single crystal 8YSZ surface	
-D-11	Mr. Nagaru Baba	heat-treated in vacuum	3 Toyohashi University of Technology
-D-11	IVIT. Nagaru Daba		Che-Feng Hsu*1, Chian-Yu Yao1, Jei-Li Hou2, Ting-Jen Hsueh1
			1.Department of Electronic Engineering National Kaohsiung University of Science an
			Technology Kaohsiung 807, Taiwan
D 12	Ma Cha Faar Hau	SnO ₂ /ITO-Based Self-Powered Triboelectric Nanogenerator for Environmental	2.Department of Microelectronics Engineering National Kaohsiung University of
-D-12	Mr. Che-Feng Hsu	and Multi-Mode Sensing Applications	Science and Technology Kaohsiung 807, Taiwan
			Tzung-Yuan Wu*1, Shao-Ju Shih1
D 12			1 Department of Materials Science and Engineering, National Taiwan University of
-D-13	Mr. Tzung-Yuan Wu	(Mg1-xZnx)2SiO4 Dielectric Ceramics	Science and Technology, Taipei, Taiwan
			Kaoru Miyashita*1, Masanori Takemoto1, Tatsuya Okubo1, Toru Wakihara1,2
		Substitution behavior of rare-earth elements in apatite under high pressure	1 Department of Chemical System Engineering, The University of Tokyo, Japan
-D-14	Mr. Kaoru Miyashita	condition	2 Institute of Engineering Innovation, The University of Tokyo, Japan
			Y.T. Nien*, Z.Y. Ho, X.M. Su, S.C. Ma, C.Y. Chen
		Preparation and characterization of yttrium aluminum garnet phosphor ceramics	Department of Materials Science and Engineering, National Formosa University,
-D-15	Prof. Yung-Tang Nien	using laser-assisted flash sintering	Taiwan
			Yan-Ting Lin *1, Wei-Hsing Tuan 1, Jin-Ren Chen 2, Po-Liang Lai 2
			1 Department of Materials Science and Engineering, National Taiwan University
			2 Department of Orthopedic Surgery, Bone and Joint Research Center, Chang Gung
-D-16	Mr. Yan-Ting Lin	Effect of residual stress on low-temperature degradation resistance of zirconia	Memorial Hospital at Linkou, Taoyuan, Taiwan 333
			Seika Tokumitsu 1, Tsuneo Kusunoki1, Satoshi Makio1, Hisashi Minemoto 2
			1 OXIDE Corporation, Japan
		Design and evaluation of ternary-composite-ceramic phosphors using SPS	2 Institute of Laser Engineering, Osaka University, Japan
-D-17	Ms. Seika Tokumitsu	method	
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			Science and Technology (AIST), Japan
			2 Advanced Manufacturing Research Institute (AMRI), AIST, Japan
		Evaluation of Thermal Properties of Thermal Barrier Coatings Deposited with	3 Department of Energy and Environment, AIST, Japan
-D-18	Dr. Haruka Abe	Ceramic Fine Particles	
-D-18	Dr. Haruka Abe		4 Global Zero Emission Research Center (GZR), AIST, Japan Haruka Abe*1
			1 National Metrology Institute of Japan, National Institute of Advanced Industrial
			Science and
		Development of a Method for Measuring Thermal Conductivity of Powders using	Technology (AIST), Japan
-D-19	Dr. Haruka Abe	Spherical Structures	
			Takahiro Saito*1, Junichi Tatami1, Motoyuki lijima1, Tatsuki Ohji1, Tsukaho Yahagi2
			Takuma Takahashi2, Hiromi Nakano3
			1 Yokohama National University
		Effect of TiO2 and AIN addition on the mesoscale mechanical properties of Si3N4	2 Kanagawa Institute of Industrial Science and Technology
'-D-20	Mr. Takahiro Saito	ceramics	3 Toyohashi University of Technology
		Surface affinity of silica particles investigated by a time-domain nuclear	Tomoya Nagata*1), Ariga Kato1), Junko Ikeda2,3), Tomonori Fukasawa4), Paul
-D-21	Prof. Chika Takai	magnetic resonance (TD-NMR)	Kinyanjui Kimani5), Yukari Sasaki5), Chika Takai-Yamashita1, 3, 5)
			Sheng-Po Chang*1, Yi Chou*1
			1 Department of Microelectronics Engineering, National Kaohsiung University of
			Science and Technology, Taiwan
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	Prof. Sheng-Po Chang	Fabrication and Characteristics of WIZO MSM UV Photodetectors	
	Prof. Sheng-Po Chang	Fabrication and Characteristics of WIZO MSM UV Photodetectors	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2)
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	Prof. Sheng-Po Chang	Fabrication and Characteristics of WIZO MSM UV Photodetectors	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2)
	Prof. Sheng-Po Chang	Fabrication and Characteristics of WIZO MSM UV Photodetectors Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan
P-D-23	Prof. Sheng-Po Chang Prof. Chun-Kai Wang		Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan
P-D-23		Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an
P-D-23		Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1
	Prof. Chun-Kai Wang	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo,
		Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan
	Prof. Chun-Kai Wang	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate Development of a Reduced-order Model for Gas-Solid Flow with Heat Transfer	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan Jhe-Wei Wu*1, Dhanang Edy Pratama1, Chia-Yen Huang1, Tu Lee1
P-E-01	Prof. Chun-Kai Wang Mr. Michael Castro	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate Development of a Reduced-order Model for Gas-Solid Flow with Heat Transfer Mathematically Simplified Solid-Solid-Liquid Phase Diagram for Chiral Resolution	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan Jhe-Wei Wu*1, Dhanang Edy Pratama1, Chia-Yen Huang1, Tu Lee1 1 Department of Chemical and Materials Engineering, National Central University, 30
-E-01	Prof. Chun-Kai Wang	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate Development of a Reduced-order Model for Gas-Solid Flow with Heat Transfer Mathematically Simplified Solid-Solid-Liquid Phase Diagram for Chiral Resolution Process Development	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan Jhe-Wei Wu*1, Dhanang Edy Pratama1, Chia-Yen Huang1, Tu Lee1 1 Department of Chemical and Materials Engineering, National Central University, 30 Zhongda Road, Zhongli District, Taoyuan City 320317, Taiwan R.O.C
P-E-01 P-E-02	Prof. Chun-Kai Wang Mr. Michael Castro Mr. JHE-WEI WU	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate Development of a Reduced-order Model for Gas-Solid Flow with Heat Transfer Mathematically Simplified Solid-Solid-Liquid Phase Diagram for Chiral Resolution Process Development Numerical simulation on sequential powder die-filling processes in a rotary tablet	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan Jhe-Wei Wu*1, Dhanang Edy Pratama1, Chia-Yen Huang1, Tu Lee1 1 Department of Chemical and Materials Engineering, National Central University, 30 Zhongda Road, Zhongli District, Taoyuan City 320317, Taiwan R.O.C A. Hashimoto*1, M. Sakai1
-E-01 -E-02	Prof. Chun-Kai Wang Mr. Michael Castro	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate Development of a Reduced-order Model for Gas-Solid Flow with Heat Transfer Mathematically Simplified Solid-Solid-Liquid Phase Diagram for Chiral Resolution Process Development	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan Jhe-Wei Wu*1, Dhanang Edy Pratama1, Chia-Yen Huang1, Tu Lee1 1 Department of Chemical and Materials Engineering, National Central University, 30 Zhongda Road, Zhongli District, Taoyuan City 320317, Taiwan R.O.C A. Hashimoto*1, M. Sakai1 1 The University of Tokyo, Japan
-E-01 -E-02	Prof. Chun-Kai Wang Mr. Michael Castro Mr. JHE-WEI WU	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate Development of a Reduced-order Model for Gas-Solid Flow with Heat Transfer Mathematically Simplified Solid-Solid-Liquid Phase Diagram for Chiral Resolution Process Development Numerical simulation on sequential powder die-filling processes in a rotary tablet	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan Jhe-Wei Wu*1, Dhanang Edy Pratama1, Chia-Yen Huang1, Tu Lee1 1 Department of Chemical and Materials Engineering, National Central University, 30 Zhongda Road, Zhongli District, Taoyuan City 320317, Taiwan R.O.C A. Hashimoto*1, M. Sakai1 1 The University of Tokyo, Japan Jiangkuan Xing *1, Satoshi Umemoto 2, Kenji Tanno 2, Hiroaki Watanabe 3, Ryoichi
P-E-01 P-E-02	Prof. Chun-Kai Wang Mr. Michael Castro Mr. JHE-WEI WU	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate Development of a Reduced-order Model for Gas-Solid Flow with Heat Transfer Mathematically Simplified Solid-Solid-Liquid Phase Diagram for Chiral Resolution Process Development Numerical simulation on sequential powder die-filling processes in a rotary tablet	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan Jhe-Wei Wu*1, Dhanang Edy Pratama1, Chia-Yen Huang1, Tu Lee1 1 Department of Chemical and Materials Engineering, National Central University, 30 Zhongda Road, Zhongli District, Taoyuan City 320317, Taiwan R.O.C A. Hashimoto*1, M. Sakai1 1 The University of Tokyo, Japan
P-D-23 P-E-01 P-E-02 P-E-03	Prof. Chun-Kai Wang Mr. Michael Castro Mr. JHE-WEI WU	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate Development of a Reduced-order Model for Gas-Solid Flow with Heat Transfer Mathematically Simplified Solid-Solid-Liquid Phase Diagram for Chiral Resolution Process Development Numerical simulation on sequential powder die-filling processes in a rotary tablet	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan Jhe-Wei Wu*1, Dhanang Edy Pratama1, Chia-Yen Huang1, Tu Lee1 1 Department of Chemical and Materials Engineering, National Central University, 30 Zhongda Road, Zhongli District, Taoyuan City 320317, Taiwan R.O.C A. Hashimoto*1, M. Sakai1 1 The University of Tokyo, Japan Jiangkuan Xing *1, Satoshi Umemoto 2, Kenji Tanno 2, Hiroaki Watanabe 3, Ryoichi Kurose1
Р-Е-01 Р-Е-02	Prof. Chun-Kai Wang Mr. Michael Castro Mr. JHE-WEI WU	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate Development of a Reduced-order Model for Gas-Solid Flow with Heat Transfer Mathematically Simplified Solid-Solid-Liquid Phase Diagram for Chiral Resolution Process Development Numerical simulation on sequential powder die-filling processes in a rotary tablet	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan Jhe-Wei Wu*1, Dhanang Edy Pratama1, Chia-Yen Huang1, Tu Lee1 1 Department of Chemical and Materials Engineering, National Central University, 30 Zhongda Road, Zhongli District, Taoyuan City 320317, Taiwan R.O.C A. Hashimoto*1, M. Sakai1 1 The University of Tokyo, Japan Jiangkuan Xing *1, Satoshi Umemoto 2, Kenji Tanno 2, Hiroaki Watanabe 3, Ryoichi
Р-Е-01 Р-Е-02	Prof. Chun-Kai Wang Mr. Michael Castro Mr. JHE-WEI WU	Effect of Annealing Temperature on RF-Sputtered Ga ₂ O ₃ MSM Deep Ultraviolet Photodetectors on Sapphire Substrate Development of a Reduced-order Model for Gas-Solid Flow with Heat Transfer Mathematically Simplified Solid-Solid-Liquid Phase Diagram for Chiral Resolution Process Development Numerical simulation on sequential powder die-filling processes in a rotary tablet	Chun-Kai Wang*1), Yu-Zung Chiou 2), Hong-De Liou 2) 1) Department of Microelectronics Engineering, National Kaohsiung University of Science and Technology, Taiwan 2) Department of Electronics Engineering, Southern Taiwan University of Science an Technology, Taiwan M. Castro* 1, S. Li 1, K. Yang 1, T. Imatani 1, M. Sakai 1 1 Department of Nuclear Engineering and Management, The University of Tokyo, Tokyo, Japan Jhe-Wei Wu*1, Dhanang Edy Pratama1, Chia-Yen Huang1, Tu Lee1 1 Department of Chemical and Materials Engineering, National Central University, 30 Zhongda Road, Zhongli District, Taoyuan City 320317, Taiwan R.O.C A. Hashimoto*1, M. Sakai1 1 The University of Tokyo, Japan Jiangkuan Xing *1, Satoshi Umemoto 2, Kenji Tanno 2, Hiroaki Watanabe 3, Ryoichi Kurose1
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P-E-06	Mr. Boen LI	Numerical analysis on gas-solid-liquid flow system by the DEM-VOF method	1 Department of Nuclear Engineering & Management, the University of Tokyo
		Influences of interfacial shear stress in phase change heat transfer on an on-	Hai-Ping Hu
P-E-07	Prof. Hai-Ping Hu	isothermal sphere with eddy diffusivity	Department of Marine Engineering, National Taiwan Ocean University, Taiwan
		Mesoscale numerical modeling of reactive flow in packed bed reactor of porous	
P-E-08	Mr. Masato Nii	particles	M. Nii *, M. Shirzadi, T. Ogi, T. Fukasawa, K. Fukui, T. Ishigami
-			Li-Shin Lu *1, Qi-Han Jiang 2, Shu-San Hsiau 2,3 , Tsung-Yen Huang 4, Yong-Hao Siao
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			1. Department of Industrial Engineering and Management, National Quemoy University,
			Kinmen, Taiwan
			2. Department of Mechanical Engineering, National Central University, Taoyuan,
		Analysis of the Influence of Hot Briquetted Iron Addition on the Charging and	Taiwan
		Discharging Behavior in a Blast Furnace-Top Hopper Using the Discrete Element	3. Institute of Energy Engineering, National Central University, Taoyuan, Taiwan
P-E-09	Dr. Li-Shin Lu	Method	4. China Steel Corporation, Kaohsiung, Taiwan
-			Ryo Tamai*, Takuya Tsuji, Toshitsugu Tanaka, Kimiaki Washino
			Department of Mechanical Engineering, The University of Osaka, Osaka, Japan
P-E-10	Mr. Ryo Tamai	CFD-DEM simulation of pneumatic conveying using a coarse grain model	
-			lori Nishizawa *1), Kizuku Kushimoto 2), Junya Kano 2)
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P-E-11	Mr. lori Nishizawa	Modeling Consolidation Behaviour Using DEM-Based Approach	
			Qi Chen*1,2, Jiemin Wang1, Jie Zhang1, Jingyang Wang1
		Numerical Simulation of the Interface Failure Behavior of Ytterbium Disilicate	1 Institute of Metal Research, Chinese Academy of Sciences, China
		Environmental Barrier Coatings under Water Vapor Corrosion and Thermal	2 School of Materials Science and Engineering, University of Science and Technology
P-E-12	Dr. Qi Chen	Cycling Conditions	of China, China
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			1 Graduate School of Civil Engineering, Kyushu University, Japan
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		LS-SPH: A high order SPH formulation based on the moving least squares with	University, Japan
P-E-13	Mr. Kota Matsunaga	boundary constraints	
			Taiki Segawa*1, Yoshiya Shirakami*1, Yoichi Yuki*2, Suguru Kano*2, Mitsuteru Asai*1
			1 Graduate School of Civil Engineering, Kyushu University, Japan
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P-E-14	Mr. Taiki Segawa	SPH Formulation on Non-Newtonian Model for Fresh Concrete Flow Prediction	
			Xiaoying Cheng, Xiaoxia Guo*, Shunying Ji
		Discrete Element Analysis of the Dynamic Behavior of Frozen Gravel Runways	State Key Laboratory of Structural Analysis, Optimization and CAE Software for
P-E-15	Prof. Xiaoxia Guo	Under Aircraft Load Effects	Industrial Equipment, Dalian University of Technology, Dalian 116024, China