Inch			Program
17:00 17:00 18:00 move time move time move time welcome reception; at World Beer Museum Tokyo Skytree Town Solamachi Store, Members & non-members (except students) Melonia Pools Members & non-members (except students)	July 28	th (Mon.)	
17:00	16:00-	Registration: at	Tokyo Denki University Building 1–2F. Room 1204
18:00 18:00 Welcome reception; at World Beer Museum Tokyo Skytree Town Solamachi Store,	17:00	00 Registration, at Tokyo Denki Oniversity Bunding 1, 21, Room 1204	
18:00 18:00 Welcome reception: at World Beer Museum Tokyo Skytree Town Solamachi Store, Members & non-members (except students) July 29th (Tue.), Building 1, 2F Room 1204 (Main ROOM) Chair: Profs. Yukihiro SAKAMOTO and Yohan YOON 08:40 09ening	17:00-	move time	
20:00 Members & non-members (except students)	18:00	move time	
July 29th (Tue.), Building 1, 2F Room 1204 (Main ROOM) Chair: Profs. Yukihiro SAKAMOTO and Yohan YOON 08:40-	18:00-	Welcome recept	ion; at World Beer Museum Tokyo Skytree Town Solamachi Store,
Chair: Profs. Yukihiro SAKAMOTO and Yohan YOON	20:00		Members & non-members (except students)
Opening Mitsuya MOTOHASHI, Tokyo Denki University, Japan	July 29	th (Tue.), Buildin	g 1, 2F Room 1204 (Main ROOM)
08:45 remark Tokyo Denki University, Japan 08:45- congratulatory 08:50 address Hanbat National University, Republic of Korea 08:50- o9:25 region 10:00 10:10 LPlenary 2.Plenary 2.Plenary 3. Invited 10:00-total 10:30-total 10:35-11:20 Masoscopic Structures and Their Dislocations, Mitsuya MOTOHASHI. Tokyo Denki University, Japan 1. Tokyo Denki University, Japan 1. Tokyo Denki University, Japan 1. Tokyo Denki University, Republic of Korea 1. Tokyo Denki University, Research Institute of Science and Technology, Japan 1. Tokyo Denki University, Republic of Korea 1. Tokyo Denki University, Republic of Korea 1. Tokyo Denki University, Japan 2. Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN¹*, Hayun JEON², Minju KIM²,	Chair: l	Profs. Yukihiro Sa	AKAMOTO and Yohan YOON
O8:45- Congratulatory Yoon Kee KIM. Hanbat National University, Republic of Korea	08:40-	Opening	Mitsuya MOTOHASHI,
08:50 address	08:45	remark	Tokyo Denki University, Japan
Mesoscopic Structures and Their Dislocations, Mitsuya MOTOHASHI, Tokyo Denki University, Japan	08:45-	Congratulatory	Yoon Kee KIM,
Os.50- Os.25- Os.25- Os.25- Os.25- Os.25- Os.25- Os.25- Os.265- Os.25- Os.265- O	08:50	address	Hanbat National University, Republic of Korea
1.Plenary Mitsuya MOTOHASHI, Tokyo Denki University, Japan	00.50		Mesoscopic Structures and Their Dislocations,
Tokyo Denki University, Japan Materials design of low-latency/low-loss dielectric substrates exploiting silicate ceramic nanofillers, Do-Kyun KWON, Korea Aerospace University, Republic of Korea 10:00- 10:10 10:10 10:10 10:30 Coffee break Coffee break Coffee break 10:30 10:55 11:20 4. Invited Possible Strategies to Overcome Linear Scaling Relation, Yoon Kee KIM, Kihyun SHIN*, Hanbat National University, Republic of Korea Synthesis of inverse opal TiO ₂ thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,		1.Plenary	Mitsuya MOTOHASHI,
10:00 2.Plenary nanofillers, Do-Kyun KWON, Korea Aerospace University, Republic of Korea	09.23		Tokyo Denki University, Japan
10:00 2.Plenary Do-Kyun KWON. Korea Aerospace University, Republic of Korea			Materials design of low-latency/low-loss dielectric substrates exploiting silicate ceramic
10:00- 10:10 Photograph of all participants Coffee break Chair: Profs. Yasushi INOUE and Chang Kyu JEONG 10:30- 10:55 10:55 10:55 10:55- 11:20 A Invited Possible Strategies to Overcome Linear Scaling Relation, Yoon Kee KIM, Kihvun SHIN*, Hanbat National University, Republic of Korea Synthesis of inverse opal TiO ₂ thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	09:25-	2 Dlanami	nanofillers,
10:00- 10:10 10:10 10:10 10:10 10:10 10:30 10:30 10:30 10:55 3. Invited Laser-Assisted Fabrication of Nanomaterials in Liquid for Photocatalytic Applications, Sergei A. KULINICH*, * Tokai University, Research Institute of Science and Technology, Japan Possible Strategies to Overcome Linear Scaling Relation, Yoon Kee KIM, Kihyun SHIN*, Hanbat National University, Republic of Korea Synthesis of inverse opal TiO2 thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	10:00	2.Plenary	Do-Kyun KWON,
10:10 Photograph of all participants			Korea Aerospace University, Republic of Korea
10:10- 10:30 Coffee break Chair: Profs. Yasushi INOUE and Chang Kyu JEONG 10:30- 10:55 3. Invited Laser-Assisted Fabrication of Nanomaterials in Liquid for Photocatalytic Applications, Sergei A. KULINICH*, * Tokai University, Research Institute of Science and Technology, Japan Possible Strategies to Overcome Linear Scaling Relation, Yoon Kee KIM, Kihyun SHIN*, Hanbat National University, Republic of Korea Synthesis of inverse opal TiO2 thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN¹.*, Hayun JEON², Minju KIM²,	10:00-	Dhotograph of o	Il monticiments
Coffee break Chair: Profs. Yasushi INOUE and Chang Kyu JEONG 10:30- 10:55 3. Invited 3. Invited 3. Invited 3. Invited 10:55- 11:20 4. Invited Possible Strategies to Overcome Linear Scaling Relation, Yoon Kee KIM, Kihyun SHIN*, Hanbat National University, Republic of Korea Synthesis of inverse opal TiO ₂ thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	10:10	Photograph of a	n participants
Chair: Profs. Yasushi INOUE and Chang Kyu JEONG 10:30- 10:30- 10:55 3. Invited 2. Invited 3. Invited 3. Invited 4. Invited 11:20- 11:20- 11:45 11:45 6. Invited Chair: Profs. Yasushi INOUE and Chang Kyu JEONG Laser-Assisted Fabrication of Nanomaterials in Liquid for Photocatalytic Applications, Sergei A. KULINICH*, * Tokai University, Research Institute of Science and Technology, Japan Possible Strategies to Overcome Linear Scaling Relation, Yoon Kee KIM, Kihyun SHIN*, Hanbat National University, Republic of Korea Synthesis of inverse opal TiO ₂ thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	10:10-	Coffee breek	
Laser-Assisted Fabrication of Nanomaterials in Liquid for Photocatalytic Applications, Sergei A. KULINICH*, * Tokai University, Research Institute of Science and Technology, Japan	10:30	Coffee bleak	
10:30- 10:55 10:55 11:20 3. Invited Sergei A. KULINICH*, * Tokai University, Research Institute of Science and Technology, Japan Possible Strategies to Overcome Linear Scaling Relation, Yoon Kee KIM, Kihyun SHIN*, Hanbat National University, Republic of Korea Synthesis of inverse opal TiO2 thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	Chair: l	Profs. Yasushi IN	OUE and Chang Kyu JEONG
3. Invited Sergei A. KULINICH*, * Tokai University, Research Institute of Science and Technology, Japan	10.20		Laser-Assisted Fabrication of Nanomaterials in Liquid for Photocatalytic Applications,
* Tokai University, Research Institute of Science and Technology, Japan Possible Strategies to Overcome Linear Scaling Relation, Yoon Kee KIM, Kihyun SHIN*, Hanbat National University, Republic of Korea Synthesis of inverse opal TiO ₂ thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1.*} , Hayun JEON ² , Minju KIM ² ,		3. Invited	Sergei A. KULINICH*,
10:55- 11:20 4. Invited Yoon Kee KIM, Kihyun SHIN*, Hanbat National University, Republic of Korea Synthesis of inverse opal TiO ₂ thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	10.55		* Tokai University, Research Institute of Science and Technology, Japan
4. Invited Yoon Kee KIM, Kihyun SHIN*, Hanbat National University, Republic of Korea Synthesis of inverse opal TiO ₂ thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	10.55		Possible Strategies to Overcome Linear Scaling Relation,
Hanbat National University, Republic of Korea Synthesis of inverse opal TiO ₂ thin film with a pseudo-single-crystal framework for enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,		4. Invited	Yoon Kee KIM, Kihyun SHIN*,
11:20- 11:45 5. Invited enhanced photocatalytic activity, Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	11.20		Hanbat National University, Republic of Korea
11:45 S. Invited Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,			Synthesis of inverse opal TiO ₂ thin film with a pseudo-single-crystal framework for
11:45 Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI, Tokyo Denki University, Japan Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	11:20-	5 Invited	enhanced photocatalytic activity,
Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	11:45	5. Invited	Rikuto UCHIDA, Takaharu KIUCHI, Norihiro SUZUKI,
11:45- 12:10 6. Invited in Water Electrolysis, Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,			Tokyo Denki University, Japan
12:10 6. Invited Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,			Strategies for the Advanced Electrocatalysts to Enhance the Oxygen Evolution Reaction
12:10 Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,	11:45-	6. Invited	in Water Electrolysis,
¹ Dongguk University, ² Kyonggi University, Republic of Korea	12:10		Sungwook MHIN ^{1,*} , Hayun JEON ² , Minju KIM ² ,
			¹ Dongguk University, ² Kyonggi University, Republic of Korea

		1 logiam
12:10-	Lunch	
13:30	N C XX : 1 : XX A	AWARA IV. WAY
	Profs. Yoichi KA	MIHARA and Jiwon JUNG
13:30-	Poster	
15:00		
15:00-	Coffee break	
15:10		
Chair: F	Profs. Shigeto HII	RAI and Jaeyeong HEO
		Control of Microstructure and Micropatterning of Carbon-based Functional Materials for
15:10-	7. Invited	Soft Electronics,
15:35	7. III vited	Jung Woo LEE*,
		Pusan National University, Republic of Korea
		Deposition of Amorphous Silicon Carbon Nitride Films Using High-Density Plasma with
15:35-	8. Invited	Duty-Ratio-Controlled Substrate Temperature,
16:00	8. Ilivited	Ippei TANAKA*, Yuki HATAE*, Yasunori HARADA*,
		University of Hyogo, Japan
16.00		Influences of Electrode Geometry on Electrochromic Properties of InN,
16:00-	9. Contributed	Yuto ARAKI*, Yasushi INOUE*, Osamu TAKAI**,
16:15		*Chiba Inst. Technol., **Surf. Superatom. Adv. Mater. Eng., Japan
		Chemical Resistance Property of Electroless Deposited Ni -Sn -P Layers Having High Sn
16:15-		Content,
16:13-	10. Invited	Futoshi MATSUMOTO*, Manato MIZUSHINA**, Akimasa KAWAI**,
16:40		Mika FUKUNISHI*,
		*Kanagawa University, **Sun Industry Co.,LTD., Japan
16.40	11. Invited	3D-printed plastic UWB antenna metalized with conductive paint,
16:40-		Satoshi KOUYA and Mitsuya MOTOHASHI,
17:05		Tokyo Denki University, Japan
		Enhancing mixed gas discrimination in e-nose system: Sparse recurrent neural networks
17:05-	10 Inchie	using transient current fluctuation of SMO array sensor
17:30	12. Invited	Sooncheol KWON*,
		Dongguk University-Seoul, Republic of Korea
17:30-		
18:30	move time	
Chair: Profs. Mitsuya MOTOHASHI and Byung-Koog JANG		
18:30-	Banquet & cere	mony; at Asakusa View Hotel
20:30		All participants including students
	1	

July 29t	July 29th (Tue.), Building 1, 2F Room 1205 (2nd ROOM)		
Chair: F	Profs. Ryosuk	e WATANABE and YongJoo KIM	
		Electrochemical and Electronic Modification of the Catalytic Surface for Highly Active and	
10:30-	10 1 1	Durable Oxygen Evolution Catalysts,	
10:55	13. invited	Shigeto HIRAI*, Jeevan Kumar PADARTI*, Tomoya OHNO*,	
		*Kitami Institute of Technology, Japan	
10.55		Active learning approach in designing entropy alloy nanocatalyst,	
10:55-	14. invited	YongJoo KIM*,	
11:20		*Korea University, Republic of Korea	
		Surface-Engineered Metal Oxide Nanomaterials for Room-Temperature NO ₂ Detection via	
11:20-	15 ' ' 1	Flame Chemical Vapor Deposition,	
11:45	15. invited	Myung Sik CHOI*,	
		Kyungpook National University, Republic of Korea	
		Biomass-Derived Functional Carbons as Electrodes for Next-Generation Energy Storage,	
11:45-	16 1 1 1	<u>Tirto PRAKOSO</u> ,	
12:10	16. invited	Bandung Institute of Technology, Faculty of Industrial Technology, Graduate School of	
		Chemical Engineering, Indonesia	
12:10-	T1.		
13:30	Lunch		
Chair: F	Profs. Yoichi	KAMIHARA and Jiwon JUNG	
13:30-			
15:00	Poster		
15:00-	Coffee breed		
15:10	Coffee break		
Chair: I	Profs. Mitsuya	MOTOHASHI and Kihyun SHIN	
		B-doped CVD diamond electrodes for electrochemical applications,	
15:10-	17. invited	Yukihiro SAKAMOTO ¹ ,	
15:35	17. mvited	¹ Department of Advanced Materials Science and Engineering, Chiba Institute of Technology,	
		Japan	
15:35-		Device simulation of resistance-based memories using phase-field method,	
	18. invited	Yongwoo KWON*,	
16:00		Hongik University, Republic of Korea	
	19 invited	Design of Plasma-engineered Chlorine-repulsive Electrocatalysts for Seawater Batteries and	
16:00-		Electrolysis,	
16:25		Hyunsu YANG, Oi Lun Helena LI*,	
		Pusan National University, Republic of Korea	

	20. invited	Influence of calcination conditions during the deposition of sol-gel alumina passivation layers
16:25-		for silicon solar cells,
16:50		Ryosuke WATANABE*, Mizuho KAWASHIMA**, Yoji SAITO**,
		*Hirosaki University, **Seikei University, Japan
	21. invited	Review on Thermoelectric properties of a mixed anion layered compound LaCu₁-δS₁-xSexO as
16:50-		a wide-gap semiconductor,
17:15		Yoichi KAMIHARA,
		Keio University, Japan
		Synthesis of nickel deficient hexagonal perovskite BaNi _{1-x} O _{3-y} and its oxygen evolution
17:15-	22.	reaction activity,
17:30	contributed	Taisuke KAIZUKA*, Yoichi KAMIHARA*,
		*Keio University, Faculty of Science and Engineering, Japan

July	July 29th (Tue.) Building 1, 2F ROOM1206 (Poster)		
	r: Profs. Yoichi KAMIHARA and Jiwon JUNG		
	The Relationship between the Electronic State of Pt in Pt-Based Nanoparticle Catalysts and their		
	Electrochemical Catalytic Activity in the Oxidation of Small Organic Compounds,		
P1	Tamaki MATSUMURA*, Mika FUKUNISHI*, Futoshi MATSUMOTO*,		
	*Kanagawa University, Japan		
	Composite Matrix of Relaxor Ferroelectric Polymer for Piezoelectric Nanogenerators,		
P2	Hyunseung KIM, Chang Kyu JEONG,		
	Jeonbuk National University, Republic of Korea, Republic of Korea		
	Enhanced Crystallinity and Energy Harvesting Performance of Piezoelectric Composite Films,		
P3	HakSu JANG, Hyejeong CHOI, Dong Yeol HYEON, Kwi-Il PARK,		
	Kyungpook National University, Republic of Korea		
	Surface coating and morphological change of cathode material particles for improving battery performance of		
P4	lithium-ion batteries,		
P4	<u>Dahan SUI*</u> , Mika FUKUNISHI*, Futoshi MATSUMOTO*,		
	*Kanagawa University, Japan		
	Microstructure and Mechanical Properties of AA5052/AA6061 Sheet Fabricated by Cold Roll-Bonding and		
P5	Subsequent Annealing		
13	Gi-Hyun LIM ¹ , Sang-Hyeon JO ² , Hyeon-Jun HEO ³ , Seong-Hee LEE ¹ ,		
	Department of Advanced Materials Science and Engineering, Mokpo National University, Republic of Korea		
	Improved Electrochemical Properties of Silicon Nanoparticles by Particle Downsizing and Porous Surface		
P6	Structuring,		
	Hidetaka NOMURA*, Keisuke SATO*,		
	*Tokyo Denki University, Japan		
P7	Cancel		
	Relation between surface roughness and surface free energy of PEEK resin,		
P8	Takeru KIDA*, Karori KIDA**, Hiroyuki SAITO*,		
	*Tokyo Denki University, **KDA Corporation, Japan		
	Stacked Modules based on Bismuth Telluride and Tin Telluride for Multiple-Temperature Workable		
P9	Thermoelectric Energy Conversion,		
	Hyejeong CHOI*.**, Cheol Min KIM*.**, Kwi-Il PARK*.**,		
	Kyungpook National University, Republic of Korea		
	Exploration of transparent semiconductor by synthesis of Sr ₂ CuZnSO _{3-δ} ,		
	<u>Daiki FUJII*</u> , Haruyoshi SUZUKI*, Kazuto FUKUDA*, Yoichi KAMIHARA*.**,		
P10	Masanori MATOBA*.**.,		
	*Department of Applied Physics and Physico-Informatics Faculty of Science and Technology Keio		
	University, Japan, **Center of Spintronics Research Network (CSRN), Keio University, Japan		

	Comparative Antibacterial Evaluation of Green-Synthesized Silver Nanoparticles and Metal-Doped Carbon
	Quantum Dots,
	Seulah YANG ¹ , Hyojin JEONG ² , Uk SIM ³ , Jinhyeok KIM ⁴ , Sooim SHIN ^{1,2,5} *,
	¹ Department of Biotechnology and Bioengineering, College of Engineering, Chonnam National University,
P11	Gwangju, 61186, Republic of Korea, ² Department of Biomaterials Convergence, College of Engineering,
FII	Chonnam National University, Gwangju, 61186, Republic of Korea, ³ Hydrogen Energy Technology
	Laboratory, Korea Institute of Energy Technology (KENTECH), Naju 58330, Republic of Korea, ⁴ School of
	Materials Science and Engineering, College of Engineering, Chonnam National University, Gwangju, 61186,
	Republic of Korea, ⁵ Department of Biomaterials Convergence, College of Engineering, Chonnam National
	University, Gwangju, 61186, Republic of Korea
	Zinc-tin Oxide Nanomaterial Produced by Laser Processing for Chemiresistive Gas Sensors,
P12	Ranyi ZHENG*, Sergei A. KULINICH**, Masaki HASHIDA**, Satoru IWAMORI**,
P12	*Graduate School of Engineering, Tokai University, **Research Institute for Science and Technology, Tokai
	University, Japan
	Plasma-Engineered PtRu / Nitrogen-Doped Carbon as Advanced Cathode Catalyst for High Performance and
P13	Durability in PEMFCs,
F13	<u>Je-won LEE</u> , LI Oi Lun Helena*,
	Pusan Nation University, Republic of Korea
	Leather Surface Modification by oxygen plasma and AOS treatment via UV lamp,
P14	Adel SANTO*, Masaki HASHIDA**, KLINICH A. Sergey**, Satoru IWAMORI**,
P14	*Tokai University Graduate School of Engineering, **Tokai University Research Institute of Science and
	Technology, Japan
	FeCoS-doped Conductive Polymer Hybrid Catalyst as Efficient Oxygen Evolution Reaction for Direct
P15	Seawater Electrolysis,
F13	Aye Myint Myat KYAW, Youri HAN, Oi Lun LI*,
	Pusan Nation University, Republic of Korea
	Improving Cell Adhesion of Poly (ether ether) Ketone,
P16	Takuto SUGO*, Masaki HASHIDA**, KLINICH A. Sergey**, Satoru IWAMORI**,
F 10	*Tokai University Graduate School of Engineering, **Tokai University Research Institute of Science and
	Technology, Japan
	Synergistic Effects of Pt-Ni Nanoalloy and Nitrogen-Doped Graphene Oxide for Electrocatalytic Oxygen
P17	Reduction and Hydrogen Evolution Reaction,
11/	Seung Geun JO, Jung Woo LEE*,
L	Pusan Nation University, Republic of Korea
P18	Influence on the Cell Adhesion of Polyimide by Ultraviolet Light Excitation Reaction Oxygen Species
	Treatment with Ethanol Addition,
	Junki MURAMATSU*, Masaki HASHIDA**, Sergei A. KULINICH**, Satoru IWAMORI**,
	*Tokai University Graduate School of Engineering, **Tokai University Research Institute of Science and
	Technology, Japan

	1 logiani
	Enhancement of Heterojunction Interface Properties Using Tin - Phosphate Glass with Low-Temperature
	Glass Formation,
P19	Hyo-Min KIM*, Ye-Ji SON*, Seung-Wook KIM*, Dae-Yong JEONG*,
	*Program in Semiconductor Convergence, Department of Materials Science and Engineering, Inha
	University, Republic of Korea
	Effect of Oxidants in Electrolytic Sulfuric Acid on Anodic Oxidation of Aluminum Alloys,
P20	Masaaki TSUTSUMI*, Yukihiro SAKAMOTO**,
	Graduate school Chiba Institute of Technology, Japan
	Optimizing Magnetic Performance of Fe-Based Amorphous Alloy Powders by Coating a Uniform Glass
	Layer,
P21	Ye-Ji SON*, Seung-Wook KIM*, Hyo-Min KIM*, Dae-Yong JEONG*,
	*Program in Semiconductor Convergence, Department of Materials Science and Engineering, Inha
	University, Republic of Korea
	Effects of Substrates on Electrical Resistance and Optical Properties of BDD Synthesized using Mode
Daa	Conversion Type MWPCVD,
P22	Chinatsu KATO*, Yukihiro SAKAMOTO**,
	*Graduate school, Chiba institute of technology, **Chiba institute of technology, Japan
	Electrochemical Urea Electrolysis with NiCoFeMnV Catalyst for Efficient Hydrogen Production,
Daa	Chanmin JO ¹ , Minseo JEON ¹ , Gyoung Hwa JEONG ¹ , Uk SIM ^{1,2*} ,
P23	¹ Korea Institute of Energy Technology (KENTECH), ² Research Institute, NEEL Sciences, INC., Republic of
	Korea
	Characteristics of electroless Ni plating using hydrazine as a reducing agent,
P24	Takahiro SASAKI*, Mika FUKUNISHI*, Futoshi MATSUMOTO*, Tomoyuki FUJINAMI**,
	*Kanagawa University, **EEJA Ltd., Japan
	Preparation of black Cr-C electroplating films from chromium(III) sulfate bath,
P25	Ryudo TABATA*, Mika FUKUNISHI*, Futoshi MATSUMOTO*,
	*Kanagawa University, Japan
	Proposal for a Language-Integrated Chemistry Teaching Method Using an Organic Synthesis Experiment as
Dac	Teaching Material,
P26	Akiko KIDO*, Mitsuya MOTOHASHI*,
	*School of Engineering, Tokyo Denki University, Japan
	Morphology and Electrochromic Properties of InN Thin Films Deposited by Glancing-angle Reactive
D05	Evaporation,
P27	Masaki WATANABE*, Yasushi INOUE*, Osamu TAKAI**,
	*Chiba Inst. Technol., **Surf. Superatom. Adv. Mater. Eng., Japan
	Optical Transparency of Ultra-hydrophobic SiO:CH Particle-deposited Films Fabricated by PECVD,
D. C. C.	Mayuki NISHIO*, Yasushi INOUE*, Osamu TAKAI**,
P28	*Department of Advanced Materials Science and Engineering, Chiba Institute of Technology, **Research
	Institute of Surface, Superatoms and Advanced Materials Engineering, Japan

	A Sample Approach to Teaching Science English with Simulations,			
P29	Satomi TANAKA,			
	Department of Natural Sciences, School of Engineering, Tokyo Denki University, Japan			
	Comparison of LIPSS on Stainless Steel Using 515 nm Femtosecond and 355 nm Nanosecond Laser,			
P30	Mikuru OKAZAKI*, Masaki HASHIDA, Satoru IWAMORI,			
	Tokai University, Japan			
	Exploring Biological Mechano-Electric Energy Harvesting Properties: Deep-Sea Tubeworm β-Chitin			
P31	Nanofibrils			
F31	Jimin KANG, Hyunseung KIM, Chang Kyu JEONG,			
	Jeonbuk National University, Republic of Korea			
	Fabrication of High-entropy-type metal chalcogenide thin films and evaluation of thermoelectric properties,			
P32	Koki AMAGASA*, Aichi YAMASHITA*, Kota. MUROI*, Asato. SESHITA*, Yoshikazu. MIZUGUCHI*,			
	*Tokyo Metropolitan University, Japan			
	Irradiation resistance of high-entropy REBa ₂ Cu ₃ O _{7-δ} superconductors with multiple sites substitution			
P33	Kota MUROI*, Aichi YAMASHITA*, Takuto KANEKO**, Yoshikazu MIZUGUCHI*, Naoko OONO**,			
133	Tamaki SHIBAYAMA***,			
	*Tokyo Metropolitan University, **Yokohama National University, ***Hokkaido University, Japan			

July 30	July 30th (Wed.), Building 1, 2F Room 1204 (Main ROOM)		
•	Chair: Profs. Aichi YAMASHITA and Myung Sik CHOI		
		JKMST's 10th Anniversary: Achievements and Future Prospects,	
08:40-	23. Plenary	Byung-Koog JANG,	
09:10		Kyushu University, Japan	
		Disordered Anti-Fluorite Sulfide Cathode: Li ₂ S-CuS,	
09:10-	24. invited	Akira MIURA,	
09:35		Graduate School of Engineering, Hokkaido University, Japan	
		Transmission Electron Microscopy-Based Microstructural Analysis of Hybrid Perovskite	
09:35-	25	Solar Cells: From fundamental analysis to electron beam damage mitigation strategy,	
10:00	25. invited	Tae Woong KIM*,	
		Konkuk University, Republic of Korea	
		Study on the Pre-Dispersion of Conductive Agent for Developing Thick Cathodes in	
10:00-	26: 1	Lithium-Ion Batteries,	
10:25	26.invited	Jiwon JUNG*,	
		Konkuk University, Republic of Korea	
10:25-	Coffee local		
10:45	Coffee break		
Chair: I	Profs. Satoru IWA	MORI and Do-Kyun KWON	
10:45-		Functionality and physical property of High-entropy-type thin films,	
11:10	27. invited	Aichi YAMASHITA*,	
11.10		*Tokyo Metropolitan University, Japan	
11:10-		Material engineering strategies towards higher reaction selectivity,	
11:35	28. invited	Hyunah KIM*,	
11.33		Korea Aerospace University, Republic of Korea	
11:35-	29. invited	Cancel	
12:00	29. 111.1100	Cunice?	
	30.	Policy and operation of measuring equipments at Tokyo Denki University,	
12:00-	Introduction of	Takayuki SUZUKI,	
12:15	TDU Analysis	TDU Analysis Center, Tokyo Denki University, Japan	
	Center		
12:15-	Lunch		
13:00			
13:00-	Excursion-I: Lab	Tour of Analysis Center, TDU	
14:00		All participants including students	
14:00-	Excursion-II: Fre	ee tours to art galleries, museums, and zoo in Ueno Park	
17:30		All participants including students	
17:30-	move time		
18:00			

18:00-	JKMST2025 executive committee dinner at Delirium Cafe Ueno
20:00	Members & non-members (except students)