The International Meeting of the Polarographic Society of Japan (PSJ)

Program

Place: Faculty of Agriculture Main Bldg. W100 (invited lectures), C102 (poster presentations)

Kyoto University

Shikata International Medal (25 min), Shikata Medal (20 min)

Invited lecture (talk: 20 min, discussion: 5 min)

Flash talk for poster presentation 1 min

Poster presentation (120 min) Odd number: first half (60 min), Even number: second half (60 min)

Notes for presenters

Lecturers

We recommend a slide screen ratio of 4:3.

Please bring your lecture data (PowerPoint) on a USB memory stick.

Poster presenters

Please send your flash presentation material (1 sheet, ppt and pdf files) by November 11 using Google Forms (https://forms.gle/NHFoAuUfcmgCwxCH7) on our website (https://polaro-jp.secure-web.jp/meeting.html). Flash presentations will be given in W100. Presentation time of the flash talk is 1 minute (punctual). You will speak in order of number. Poster presentations will be given in C102. All presenters must stand in front of their posters during the presentation time. The posters should be prepared within the size of 120 cm (H) x 90 cm (W). On the first day, please put up your poster during the lunch break or afternoon short breaks. On the second day, please put up your poster by 9:00 a.m. Presenters on the second day are requested to make a flash presentation in W100 from 9:00 a.m. After that, please move to C102 for your poster presentation. After your poster presentation, please remove your poster and take it home. Those eligible for the Student Presentation Award are marked with an "*".

Participants in poster presentations

Those eligible for the Student Presentation Award are marked with an "*". Please select and vote for two student presentations that you think are excellent for each time slot. The award ceremony for the Student Presentation Awards will be held at the closing ceremony at the end of the second day.

1st: November 16 (Sat)

Place: Faculty of Agriculture Main Bldg. W100 (invited lectures), C102 (poster presentations)

8: 00 Start of the registration

	1 st. (11/16)			
Schedule	Number	Lecturer, Title		
9:00-9:10		Opening		
9:10-9:35	I1	Prof. Guobao Xu (Changchun Institute of Applied Chemistry),		
		"Single" Electrode Electrochemiluminescence		
9:35-10:00	I2	Prof. Soorathep Kheawhom (Chulalongkorn University),		
		Tailoring Molecular Structures and Metal Coordination for		
		High-Performance Bifunctional Electrocatalysts in Zinc-Air		
		Batteries		
10:00-10:25	I3	Prof. Taek Dong Chung (Seoul National University), Fourier		
		Transform Electrochemical Impedance Spectroscopy for In Situ		
		Realtime Monitoring of Etching and Deposition Processes		
10:25-10:35		Short break		
10:35-11:00	I4	Prof. Shigeru Amemiya (University of Pittsburgh), Recent		
		Advancement of Transient Scanning Electrochemical Microscopy		
11:00-11:25	I5	Prof. Zdeněk Samec (J. Heyrovský Inst. Phys. Chem. Czech		
		Acad. Sci.), Electrochemical Effects of Ion Hydration in Polar		
		Organic Solvents		
11:25-11:50	I6	Prof. Vladimír Mareček (J. Heyrovský Inst. Phys. Chem. Czech		
		Acad. Sci.), Ion Association Dynamics in Low Permittivity		
		Solvents		
11:50-12:50		Lunch		
12:50-13:15		Awards ceremony (Shikata International Medal, Shikata Medal)		
13:15-13:40	SI1	Prof. Jing LI on behalf of Prof. Erkang Wang (Changchun		
		Institute of Applied Chemistry), Modern Nano-Electroanalytical		
		Chemistry		
13:40-13:45		Short break		
13:45-14:05	S1	Dr. Hironobu Tahara (Nagasaki University), Development of		
		Redox-Active Ionic Liquids and Their Electrochemical Properties		

14:05-14:25	S2	Dr. Yuko Yokoyama (Kyoto University), Equilibrium and kinetic	
		analysis of electrolyte properties	
14:25-14:35		Short break	
14:35-15:15	1P1-1P41	Flash Presentation (1 min) (W100)	
15:15-15:25		Short break	
15:25-16:25	1P1-1P41	Poster session: Odd-numbered presentations (C102)	
16:25-17:25	1P2-1P40	Poster session: Even-numbered presentations (C102)	
18:00-20:00		Banquet (North CO-OP building 2F)	

2nd: November 17 (Sun)

Rooms open: 8:00

	2 nd. (11/17)			
Schedule	Number	Lecturer, Title		
-9:00	2P1-2P40	Preparation		
9:00-9:40	2P1-2P40	Flash Presentation (1 min) (W100)		
9:40-9:50		Short break		
9:50-10:50	2P1-2P39	Poster session: Odd-numbered presentations (C102)		
10:50-11:50	2P2-2P40	Poster session: Even-numbered presentations (C102)		
11:50-13:00		Lunch (Food trucks: 10:30-14:30)		
13:00-13:25	I7	Prof. Xiurong Yang (Changchun Institute of Applied Chemistry),		
		Development of ECL Biosensor for the Detection of Myocardial		
		Infarction Biomarker		
13:25-13:50	18	Prof. Hye Jin Lee (Kyungpook National University), Development		
		of Voltammetric Biosensing Platforms with Inorganic-organic		
		Hybrid Nanomaterials		
13:50-14:15	I 9	Prof. Philippe Buhlmann (University of Minnesota), What is		
		Missing in the Theory of Ionic Liquid Reference Electrodes?		
14:15-14:25		Short break		
14:25-14:50	I10	Prof. Damien Arrigan (Curtin University), Electrochemical		
		Analysis of "Forever Chemicals"		
14:50-15:15	I11	Prof. Eric Bakker (University of Geneva), A New Chemical		
		Microscopy Method with Ion Transfer Voltammetry		

15:15-15:40	I12	Prof. Robert Dryfe (University of Manchester), Electrochemical		
		Properties of Aqueous Biphasic Systems		
15:40-15:50		Short break		
15:50-16:15	I13	Cancellation		
16:15-16:40	I14	Prof. Łukasz Półtorak (University of Lodz), Detection of Illicit		
		Drugs at Polarized Liquid-Liquid Interfaces		
16:40-16:50		Short break		
16:50-17:15	I15	Associate Prof. Po-Chuan Hsieh (National Taiwan University),		
		Ultrathin Parylene Coatings as the Functionalized Insulation Layer		
		for Capacitive Aptasensor Constructions		
17:15-17:40	I16	Dr. Hongqi Xia (Institute of Fruit Tree Research), Construction of		
		Disposable Electrochemical Sensors for Detection of		
		Bioflavonoids in Fruits		
		Closing & Awards ceremony for students		

After the second day's lectures, we will immediately begin cleaning up the venue. We ask that all participating persons please help out.

Chairpersons

1 st. (11/16)		
9:00 - 9:10	Opening	Osamu Shirai
9:10 - 10:25	I1-I3	Masato Tominaga
10:35 - 11:50	I4-I6	Ryoichi Ishimatsu
12:50 - 13:15	Awards ceremony	Masahiro Yamamoto
13:15 - 13:40	SI1	Masahiro Yamamoto
13:45 - 14:25	S1,S2	Takamasa Sagara
14:35 - 15:15	FP 1P1-1P40	Keisei Sowa
2 nd. (11/17)		
9:00 - 9:40	FP 2P1-2P39	Yuki Kitazumi
13:00 - 14:15	17-19	Kohji Maeda
14:25 - 15:40	I10-I12	Yumi Yoshida
15:50 -16:40	I13-I14	Hirohisa Nagatani
16:50-17:40	I15-I16	Naoya Nishi
17:40-17:50	Closing	M. Yamamoto & O. Shirai

Poster Presentation (C102)

11/16 (Sat) *Student

No.	Title	Presenter	Affiliation
1P1*	An electrochemical detection of environmentally toxic small molecules with carbon nanocomposites	Seongyeop Kim, Jingjing Li, Chelladurai Karuppiah, and Hye Jin Lee	Kyungpook National University
1P2*	Design and analysis of imidazolium-based ionic liquids with BF ₄ - anion	Min Ho Lee, Muhammad Salman, and Hye Jin Lee	Kyungpook National University
1P3*	Evaluation of antioxidants in lubricants by bicontinuous microemulsion electrochemical analysis	Miki Ichise ¹ and Masashi Kunitake ²	¹ Graduate School of Major in Applied Chemistry, Kumamoto Univ., ² Institute of Industrial Nanomaterials, Kumamoto Univ.
1P4*	Electrochemical determination of vitamin K1 in acidic media by HPLC and its application to aojiru powder products	Misaki Kawakubo, Akira Kotani, Aya Shiozawa, Koichi Machida, Kazuhiro Yamamoto, Hideki Hakamata	Tokyo University of Pharmacy and Life Sciences
1P5*	Effect of tryptophan residues on direct electron transfer-type bioelectrocatalysis with D-fructose dehydrogenase	Yohei Suzuki, Keisei Sowa, Yuki Kitazumi, Osamu Shirai	Graduate School of Agriculture, Kyoto University
1P6*	"Plasmosol" as a redox reaction media: metal particle preparation at the microdroplet/plasma interface	Kai Kubota, Yuko Yokoyama, Naoya Nishi, Tetsuo Sakka	Graduate School of Engineering, Kyoto University
1P7	Synthetic exploration of Keggin-type isopolyoxometalate ion encapsulating protons	Kazuo Eda, Haruto Kamiyama, KahoWatanabe, Toshiyuki Osakai	Graduate School of Science, Kobe University
1P8*	Development of innovative diaphragm-free redox flow battery using bicontinuous microemulsion	Karin Haruna, Kodai Nakao, Akihiro Ohira, Masashi Kunitake	Faculty of Natural Science Education, Kumamoto University
1P9*	Electrowetting on Carbon Electrodes	Sittipong Kaewmorakot ¹ , A. A. Papaderakis ² , and R. A. W. Dryfe ³	¹ Department of Chemistry, University of Manchester, ² Faculty of Chemistry and Biochemistry, Ruhr-University Bochum, ³ Department of Chemistry, University of Manchester
1P10*	Electrochromism of a neat redox-active ionic liquid mixed with ferrocene and pyridinium derivatives	Naoaki Iwanaga, Hironobu Tahara, Hiroto Murakami	Graduate School of Engineering, Nagasaki University

1P11*	In-situ bioconversion of gaseous CO ₂ with formate dehydrogenase	Ami Kobayashi, Keisei Sowa, Yuki Kitazumi, Osamu Shirai	Graduate School of Agriculture, Kyoto University
1P12*	Liquid membrane model of non-simultaneous coupling of electron and ion permeations mediated by alternative ion channels	Ryota Kobayashi, Ayaka Ito, Shingo Sotoma, Yumi Yoshida, Kohji Maeda	Graduate School of Science and Technology, Kyoto Institute of Technology
1P13*	ESR analysis of TEMPONE as a spin probe in cyclodextrin-based deep eutectic ionic liquids	Yudai Hayashi, Narumi Koga, Hironobu Tahara, Hiroto Murakami	Graduate school of Integrated Science and Technology, Nagasaki University
1P14	Simulated electrochemical phenomena at the liquid-liquid interface based on the electrochemical potential of all ions in the system	Yuki Kitazumi, Keisei Sowa, Osamu Shirai	Graduate School of Agriculture, Kyoto University
1P15*	Solvent-activated 3D printed electrodes for electroanalytical quality control applications	Karolina Kwaczyński, Olga Szymaniec, Grzegorz Kowalski, and Lukasz Poltorak	Faculty of Chemistry, University of Lodz
1P16*	Glassy carbon-based paste electrode modified with bismuth(III) oxide as a tool for the electrochemical study of diphenoxuron	Maryia-Mazhena Dzemidovich ^{1,2} , Andrzej Leniart ¹ , Ľubomír Švorc ³ , Olha Sarakhman ³ , Sławomira Skrzypek ¹ , and Mariola Brycht ¹	¹ Faculty of Chemistry, University of Lodz, ² Doctoral School of Natural and Exact Sciences, University of Lodz, ³ Faculty of Chemical and Food Technology Slovak University of Technology in Bratislava
1P17*	Conductivity changes of a dialkyl viologen invoked in the phase transitions across crystal/liquid crystal/isotropic phases	Hidetoshi Tsubota, Hironobu Tahara, Hirotoshi Yamada, Hiroto Murakami, Takamasa Sagara	Graduate School of Engineering, Nagasaki University
1P18	Involvement of the Sixth Copper-Binding Site in Direct Electron Transfer-Type Bioelectrocatalysis of Copper Efflux Oxidase	Taiki Adachi ¹ , Toshitada Takei ² , Takumi Nishiyama ² , Kenji Kano ³ , Satoshi Yamashita ² , Kunishige Kataoka ² , Keisei Sowa ¹	¹ Graduate School of Agriculture, Kyoto University, ² Graduate School of Natural Science and Technology, Kanazawa University, ³ Center for Advanced Science and Innovation, Kyoto University
1P19	Recent achievements on voltammetric behavior of polyoxometalates	Tadaharu Ueda	Kochi University
1P20	Kinetic analysis of the distribution of ions with same valence to ion exchange membrane	Yu Sugimto ^{1,2} , Shunya Kayakiri ¹ , Yudai Utsumi ¹ , Mitsuru Higa ^{1,2}	¹ Yamaguchi university, ² Blue energy center
1P21*	Steady-state current-potential curve of HER/HOR in buffered near-neutral pH electrolytes	Kohei Ihara, Yuko Yokoyama, Naoya Nishi, Tetsuo Sakka	Graduate School of Engineering, Kyoto University
1P22*	Determination of Trace Amount of Cu in NCM of Lithium Ion Battery	Woo Yeoul Shim	Department of Chemistry Seoul National University

1P23	Redoxless Electrochemical Capacitance Spectroscopy for Investigating Surfactant Adsorption on Screen-Printed Carbon	Tzong-Jih Cheng	Department of Biomechatronics Engineering, National
1P24	Electrodes Multi-Active Sites Loaded Tri-Metallic Oxides Anchored Graphene Sheets as a Cathode for High-Performance Aqueous Supercapacitors	Durai Govindarajan ¹ , Kamalan Kirubaharan ² , Wanwisa Limphirat ³ , and Soorathep Kheawhom ^{1,4,5}	Taiwan University ¹Department of Chemical Engineering, Chulalongkorn University, ²Coating Department FunGlass-Centre for Functional and Surface Functionalized Glass, Alexander Dubcek University of Trencin ³Synchrotron Light Research Institute, ⁴Center of Excellence on Advanced Materials for Energy Storage, Chulalongkorn University, ⁵Bio-Circular-Green-eco nomy Technology & Engineering Center (BCGeTEC), Chulalongkorn University
1P25*	Specific adsorption of anions onto a renewable pencil lead electrode surface	Kanoko Ofude, Hirosuke Tatsumi	Graduate School of Engineering Science, Shinshu University
1P26*	Polarography using a renewable graphite silicone rubber as an electrode	Shou Ishida Armstrong, Hirosuke Tatsumi	Faculty of Science, Shinshu University
1P27	Electrochemical Boron Detection Using Inclusion Complex of Catechol-Modified Cyclodextrin and Ferrocene	Kai Sato, <u>Takeshi</u> <u>Hashimoto</u>	Faculty of Science and Technology, Sophia University
1P28*	Microdialysis-integrated HPLC system with dual-electrode detection using track-etched membrane electrodes for in vivo monitoring of neurotransmitters	Yuka Torii ¹ , Sohei Tsugita ¹ , Yukuto Ogawa ¹ , Hiten Iwamoto ² , Jiro Kasahara ² Masaki Takeuchi ² , Masamitsu Iiyama ³ , Toshio Takayanagi ¹ , Hitoshi Mizuguchi ¹	¹ Department of Applied Chemistry, Tokushima University, ² Faculty of Pharmaceutical Sciences, Tokushima University, ³ Nomura Micro Science Co., Ltd.
1P29*	Effect of counter cations on uphill accumulation of anionic species into vesicles	Kohei Nakabayashi ¹ , Tsuyoshi Yamazaki ¹ , Hikaru Yanai ² , Shingo Sotoma ¹ , Kohji Maeda ¹ , Yumi Yoshida ¹	¹ Graduate School of Science and Technology, Kyoto Institute of Technology, ² School of Pharmacy, Tokyo University of Pharmacy and Life Sciences
1P30	Quantitative explanation of double layer capacitors in terms of 2D-ice	Koichi Jeremiah Aoki ¹ , Jingyuan Chen ¹ , Yongdan Hou ²	¹ Electrochem. Museum, ² Hubei Univ. Tech.

1P31*	Oxidation reaction mechanism of caffeic acid under UV irradiation	Yuito Kitagawa ¹ , Sorai Kanno ¹ , Kenji Matsumoto ² , Yoshio Tsujino ² , Hiroki Hotta ^{1,2}	¹ Graduate School of Maritime, Sciences Kobe University, ² Graduate School of Science, Technology and Innovation
1P32	Detection of Biomarkers by Coupling Isothermal Amplification with Electrochemistry	Yan Du	State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry
1P33	Dynamic Changes of 2D Nanosheets Investigated by Electrochemical Atomic Force Microscopy	Haoran Guo, Yanxue Guan, <u>Jilin Tang</u>	State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry
1P34*	Structural and bioelectrochemical elucidation for the catalytic reaction mechanism of direct electron transfer-type fructose dehydrogenase	Eole Fukawa, Keisei Sowa, Yuki Kitazumi, Osamu Shirai	Graduate School of Agriculture, Kyoto University
1P35*	Redox Reaction of Coenzyme F420 in Methanogenesis on F420-Dependent Sulfite Reductase-Modified Electrodes	<u>Kazuma Shimada</u> ^{1,2} , Seiya Tsujimura ^{1,2} , Satoshi Furota ² , Daijiro Takesita ³ , Kensuke Igarashi ⁴	¹ Faculty of Pure and Applied Science, University of Tsukuba; ² Geological Survey of Japan, AIST; ³ Biomedical Research Institute, AIST; ⁴ Bioproduction Research Institute, AIST
1P36*	Tandem system of the thin-layer electrolysis flow cell for ion transfer —ionic separation and coulometry—	Hinata Okinaga, Ryo Iwasaki, Yudai Yamana, Shingo Sotoma, Kohji Maeda, Yumi Yoshida	Graduate School of Science and Technology, Kyoto Institute of Technology
1P37	Migration Effects Cause Linear Response in Cyclic Voltammetry of Zero-valent Products without Supporting Electrolyte	Yuko Yokoyama ¹ , Masahiro Yamamoto ² , Kenji Kano ¹	¹ Kyoto Univ., ² Konan Univ.
1P38*	Synthesis of a hydrophobic ionic liquid, <i>N</i> -ethyl- <i>N</i> -decylpyrrolidium (nonafluorobutanesulfonyl)(trifluoromethane sulfonyl)amide, and its application to ionic liquid salt bridge	Itsuki Ikeda, Kosuke Katagiri, Takashi Kakiuchi, Masahiro Yamamoto	Graduate School of Natural Science, Konan University, Department of Chemistry, Konan University, pH Science and Technology Laboratory
1P39*	Analysis of fluorescent anion transport through a bilayer lipid membrane by an electrochemical method combined with fluorometry	Hibiki Fujihara ¹ , Kohei Nakabayashi ¹ , Hikaru Yanai ² , Shingo Sotoma ¹ , Kohji Maeda ¹ , Yumi Yoshida ¹	¹ Kyoto institute of technology, ² Tokyo University of Pharmacy and Life Sciences
1P40*	Interfacial structure and its potential dependence at a water-free liquid/liquid interface between ionic liquid and oil studied using molecular dynamics simulation	Kazuma Yamaguchi, Yuko Yokoyama, Tetsuo Sakka, Naoya Nishi	Graduate School of Engineering, Kyoto University

1P41*	Interfacial structure at the electrochemical fluorous solvent/water interface studied using neutron reflectometry: electric double layer and protein nanolayer	Kosuke Ishii, Yuko Yokoyama, Tetsuo Sakka, and Naoya Nishi	Graduate School of Engineering, Kyoto University
	layer and protein nanorayer		

11/17 (Sun)

No.	Title	Presenter	Affiliation
2P1*	Voltammetric Magneto sandwich assay for protein biomarkers	Mun Gyeong Jeong, Jingjing Li, Sung Hwa Jhung, and Hye Jin Lee	Kyungpook National University
2P2	Effect of boron isotope composition on cyclic voltammograms of molten borosilicate glasses	Takayuki Nagai, Koji Kaneko, Ryuhei Motokawa	Japan Atomic Energy Agency
2P3*	Development of Rapid Electrochemical Immunoassay using Dielectrophoretic Liposome Manipulation	Saki Mizuta, Yushi Isozaki, Masato Suzuki, Tomoyuki Yasukawa	Graduate School of Material Science, University of Hyogo
2P4*	Electroactive monolayers on ITO electrode: Covalent immobilization including direct esterification method and spectroelectrochemical characterization	Shota Kojin, Sae Nakai, Takamasa Sagara	Graduate School of Integrated Science and Technology, Nagasaki University
2P5*	Kinetic and Thermodynamic Analysis of Truncated Aldehyde Dehydrogenase Based on Linear Free Energy Relationship	Konatsu Ichikawa, Taiki Adachi, Yuki Kitazumi, Osamu Shirai, and Keisei Sowa	Graduate School of Agriculture, Kyoto University
2P6*	Glassy carbon electrode <i>vs</i> electrified liquid-liquid interface. Danofloxacin as a case study	Konrad Rudnicki, Sławomira Skrzypek, Łukasz Półtorak	Faculty of Chemistry, University of Lodz
2P7	Selective determination of fluorous ions utilizing ion-transfer voltammetry at the fluorous solvent water interface	Kohei Uematsu, Erina Tanaka, Minato Tanaka, Hajime Katano	Department of Bioscience and Biotechnology, Fukui Prefectural University
2P8*	Facilitated potassium ion transport across a bilayer lipid membrane in the presence of triiodide ion	Weipai Chuang, Keisei Sowa, Yuki Kitazumi, Osamu Shirai	Graduate School of Agriculture, Kyoto University
2P9*	All-Solid-State Coulometric Potassium Ion Sensor	<u>Daigo Saito</u> , Takeshi Nakata, Shingo Sotoma, Kohji Maeda, Yumi Yoshida	Kyoto Institute of Technology
2P10*	Determination of antifungal drug posaconazole in human serum by HPLC with electrochemical detection	Masaaki Ito, Akira Kotani, Koichi Machida, Kazuhiro Yamamoto, Hideki Hakamata	Tokyo University of Pharmacy and Life Sciences
2P11*	Simultaneous Mapping of Surface Charge Density and Topography in Aqueous Solution State	Chang II Shin, <u>Taek Dong</u> <u>Chung</u>	Department of Chemistry, Seoul National University
2P12*	Electrochemistry at the atmospheric pressure plasma water interface: elucidation of the rate-determining process of charge transfer reaction considering mass transport in plasma	Yousuke Kinoshita ¹ , Koichi Sasaki ² , Yuko Yokoyama ¹ , Naoya Nishi ¹ , Tetsuo Sakka ¹	¹ Graduate School of Engineering, Kyoto University, ² Graduate School of Engineering, Hokkaido University

2P13*	Analysis of Phenolic Compounds in Beverages Using HPLC Equipped with Multiple Electrode Pairs Detection System Utilizing Track-Etched Membrane Electrodes	Yusuke Kita ¹ , Rikuo Hashimoto ¹ , Tomohiko Kuwabara ¹ , Kenji Matsumoto ² , Hiroki Hotta ³ , Masamitsu Iiyama ⁴ , Toshio Takayanagi ¹ , Hitoshi Mizuguchi ¹	¹ Graduate School of Science and Technology, Tokushima University, ² Graduate School of Science, Technology and Innovation, Kobe University, ³ Graduate School of Maritime Sciences, Kobe University, ⁴ Nomura Micro Science Co
2P14*	Factors determining ionic permeability through a charged bilayer lipid membrane	Kai Yamamoto, Tsuyoshi Yamazaki, Kohji Maeda, Shingo Sotoma, Yumi Yoshida	Kyoto Institute of Technology
2P15	Capacitive Sensing for Biofuel Blending Ratio Detection	Yi Kung	Department of Biomechatronics Engineering, National Chiayi University
2P16	Analysis of Extracellular Electron Transfer Mechanisms by Co-Culturing Chlorella Sorokiniana SU-1 and Shewanella Decolorationis NTOU1 on the Photosynthetic Bio-Anode to Metabolize Glucose to Carbon Felt Electrode	Ren-Fang Zheng, Shiue-Lin Li	Department of Environmental Science and Engineering, Tunghai University
2P17	Solvent-free synthesis of FeCo-carbon nanotubes for oxygen reduction and zinc-air battery	Mohammad Etesami, Anongnat Somwangthanaroj, Soorathep Kheawhom	Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University
2P18	Study of Basic Characteristics of Silicon Anode toward Next Generation Lithium-ion Batteries	Hideaki Ohta, Masahiro Yamamoto, Nobuya Machida	Department of Chemistry, Konan University
2P19*	Membrane-less electrochemical toluene hydrogenation in a liquid-liquid two-phase system using water and toluene-protic ionic liquids mixtures	Kengo Itai, Yuko Yokoyama, Tetsuo Sakka, Naoya Nishi	Graduate School of Engineering, Kyoto University
2P20*	Determination of the real potential of hydrogen ion using the Kenrick method with a streaming carbon powder electrode	<u>Kaori Noguchi</u> , Hirosuke Tatsumi	Graduate School of Science and Technology, Shinshu University
2P21*	Selective determination of halogens by silver disc electrode stripping voltammetry	Yoichiro Kurose, Shingo Sotoma, Yumi Yoshida, Kohji Maeda	Graduate School of Science and Technology, Kyoto Institute of Technology
2P22*	How soft are ionic plastic crystals at the electrode interface? A molecular dynamics simulation study	Iori Tabata, Yuko Yokoyama, Tetsuo Sakka, Naoya Nishi	Graduate School of Engineering, Kyoto University
2P23*	Quantum chemical calculation of solvation enthalpy using the mixed implicit-explicit solvation model: Comparison between experiment and calculation	<u>Haruki Ishiyama</u> , Masahiro Yamamoto	Department of Functional Molecular Chemistry, Konan University
2P24*	Self-supported nickel-based LDHs on stainless steel mesh as charging electrode for zinc-air battery	Wacharapisuth Thanapong-a-morn, Soorathep Kheawhom	Department of Chemical Engineering, Faculty of Engineering, ChulalongkornUniversity

2P25*	CNTs-supported Al-Doped ZnO@CuO Nanoflowers/rods in Redox-Mediated Electrolytes for High-Performance Supercapacitor	Abdulkadeem Sanni ¹ , Durai Govindarajan ¹ , Supinya Nijpaanich ² , Wanwisa Limphirat ² , Jayaraman Theerthagiri ³ , Myong Yong Choi ³ , Soorahthep Kheawhom ^{1,4}	¹ Faculty of Engineering, Chulalongkorn University, ² Synchrotron Light Research Institute, ³ Research Institute of Natural Sciences, Gyeongsang National University, ⁴ Center of Excellence on Advanced Materials for Energy Storage, Chulalongkorn University
2P26	Spectroelectrochemical analysis of phase transfer mechanisms of cell-penetrating peptides at liquid liquid interfaces: Effects of lipids and organic anions	Hiroki Sakae, Chitose Maruyama, Yoshimitsu Hamano, Hirohisa Nagatani	Faculty of Chemistry, Institute of Science and Engineering, Kanazawa University
2P27*	Optimization of Hydrogel Electrodes and Development of Novel Organic Redox Polymer	<u>Yutaro Sakano</u> , Seiya Tsujimura	Graduate School of Science and Technology, University of Tsukuba
2P28*	Transport of chemical transmitter ions across bilayer lipid membranes	Kazuto Nakamura, Keisei Sowa, Yuki Kitazumi, Osamu Shirai	Graduate school of agriculture, Kyoto university
2P29	Boosting Oxygen Reduction Reaction Kinetics by Designing Rich Vacancy Coupling Pentagons in the Defective Carbon	Jing LI	State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry
2P30*	Coulometric determination of cationic surfactant based on the ion transfer	Yudai Yamana, Ryo Iwasaki, Kohji Maeda, Shingo Sotoma, Yumi Yoshida	Graduate school of science and technology, Kyoto institute of technology
2P31*	Generation and Propagation of Electric Signals in Mimosa Pudica	Yuan Yucong, Keisei Sowa, Yuki Kitazumi, Osamu Shirai	Graduate School of Agriculture, Kyoto University
2P32*	Reaction mechanism of polyphenols containing reactivating metadihydroxybenzene moiety	S. Kanno ¹ , Y. Kitagawa ¹ , M. Shioji ¹ , K. Matsumoto ² , T. Kuwabara ³ , H. Mizuguchi ³ , Y. Tsujino ² , T. Osakai ⁴ , H. Hotta ^{1,2}	¹ Graduate School of Maritime, Sciences Kobe University, ² Graduate School of Science, Technology and Innovation Kobe University, ³ Graduate School of Faculty of Science and Technology Tokushima University, ⁴ Graduate School of Science Kobe University
2P33	Surface treatment of PTFE by radical anions of several polycyclic aromatic hydrocarbons	Ryoichi Ishimatsu, Shogo Kawashima	University of Fukui
2P34*	Impact of spray pyrolysis conditions of p-type CuBi ₂ O ₄ thin films for photoelectrochemical energy conversion process	Yusuke Aso ¹ , Tomohiro Higashi ² , Kenji Yoshino ¹	¹ Electrical and Electronic Engineering Program, Faculty of Engineering, University of Miyazaki, ² Institute for Tenure Track Promotion, University of Miyazaki

2P35*	Water-free liquid/liquid interface between a quaternary ammonium-based ionic liquid and oil for reductive deposition of base metal nanoparticles	Kota Araki, Yishan Zhou, Yuko Yokoyama, Tetsuo Sakka, Naoya Nishi	Graduate School of Engineering, Kyoto University
2P36	Flow electrolysis of Np ions for pretreatment separation for ICP-MS analysis	Yoshihiro Kitatsuji, Toshitaka Oka, Kazuki Ouchi, Makoto Matsueda, Kayo Yanagisawa	Japan Atomic Energy Agency
2P37*	Ni-Fe-Based Electrocatalysts for Oxygen Evolution toward the Development of Photoelectrochemical Water Splitting Devices	Koichi Yoshiyama ¹ , Tomohiro Higashi ² , Kenji Yoshino ¹	¹ Graduate School of Engineering, University of Miyazaki, ² Institute for Tenure Track Promotion, University of Miyazaki
2P38	On the epoch-making significance of ionic liquid salt bridge in electroanalytical chemistry	Takashi Kakiuchi	pH Science and Technology Laboratory
2P39	Coulometric determination of ionic perfluoroalkyl substances (PFAS)	Ryo Iwasaki, Shingo Sotoma, Kohji Maeda, <u>Yumi Yoshida</u>	Faculty of Molecular Chemistry and Engineering, Kyoto Institute of Technology
2P40*	In-situ analysis of Li electrodeposition and SEI formation in ionic liquids using electrochemical surface plasmon resonance	Tomoki Furuya, Tetsuo Sakka, Yuko Yokoyama, and Naoya Nishi	Graduate School of Engineering, Kyoto University