Program

Room: 7039 (audio-video synchronization in 6040) **13 August (Wed.)**		
08:20-08:25	**Opening Remarks for 20th ISEAC** Weilin XU, Chairperson of 20th ISEAC	
08:25-08:30	**Opening Remarks for Sino-France International Research Network (IRN)** Neso SOJIC, Coordinator in France	
Plenary Lectures (audio-video synchronization in 6040)		
Chairs	Serge COSNIER, Neso SOJIC	
08:30-08:55	PL-1 (IRN)	**Vesicular Neurotransmitters Exocytosis Monitored by Amperometry: Theoretical Quantitative Links Between Experimental Current Spikes Shapes and Intravesicular Structures** Christian AMATORE *Xiamen University, China* *PSL Université, Sorbonne Université, CNRS, France*
08:55-09:20	PL-2 (IRN)	**Oxidase-Like Rhodium Single-Atom Nanozymes: Performance and Application** Shaojun DONG *Changchun Institute of Applied Chemistry, CAS, China*
09:20-9:45	PL-3 (IRN)	**Bioelectrochemical Devices Based on Different Configurations of Carbon Nanotubes** Serge COSNIER *Univ. Grenoble Alpes, CNRS, France* *Silesian University of Technology, Poland*
09:45-10:10	PL-4 (IRN)	**Light conversion by combining electrochemiluminescence and photoelectrochemistry at semiconductor surfaces** Neso SOJIC *University of Bordeaux, CNRS, France*
10:10-10:40	**Photograph & Break**	
Chairs	Fred LISDAT, Jianhua WANG, Yingfu LI	
10:40-10:55	I-1	**Tip-enhanced Raman scattering using a Chemically-modified Tip** Yukihiro OZAKI *Kwansei Gakuin University, Japan*
10:55-11:10	I-2	**Fluorescent RNA Tools for Molecular Imaging** Zhou NIE *Hunan University, China*
11:10-11:20	O-1	**Atomically Dispersed Metal Interfaces for Analytical Chemistry** Chengzhou ZHU *Central China Normal University, China*
11:20-11:30	O-2	**Programmable DNA-Nanomaterials for Biosensing and Bioimaging** Libing ZHANG *Tianjin University, China*
11:30-11:40	O-3	**Carbon Dots: Separation strategy, photoluminescence mechanisms, and imaging analysis** Yunsheng XIA *Anhui Normal University, China*
11:40-11:50	O-4	**Biological reaction network-based high-performance biosensing** Zhixin ZHOU *Southeast University, China*
11:50-12:00	O-5	**The ATPase cycle of the AAA-ATPase protein transporter Bcs1 is highly concerted** Yangang PAN *Changchun Institute of Applied Chemistry, CAS, China*
Lunch		

Session B: I&O Lectures **Room: 6040**		
13 August (Wed.)		
Chairs	Jiri BAREK, Wei QIN, Marcin KARBARZ, Weena SIANGPROH	
10:40-10:55	I-3	**Biomedical Application of Boron-doped Diamond Electrodes** Yasuaki EINAGA *Keio University, Japan*
10:55-11:10	I-4	**The Development and Sensing Application of Antifouling Electrochemical Biosensors Based on Designed Peptides** Xiliang LUO *Qingdao University of Science and Technology, China*
11:10-11:20	O-6	**Additive Manufacturing Approaches for Advanced Boron-Doped Diamond Electrodes** Simona BALUCHOVÁ *Charles University, Czech Republic*
11:20-11:30	O-7	**Continuous In Vivo Pharmacokinetic Tracking via Implantable Aptamer-Based Sensors** Kaiyu FU *University of Notre Dame, USA*
11:30-11:40	O-8	**New Electroanalytical Method for Solid-Contact Ion-Selective Electrodes - Coulometry/Impedance/Mass changes** Tingting HAN *Guangzhou University, China*
11:40-11:50	O-9	**A portable micro coulometric titration on open-surface droplet-based microfluidics with potentiometric end-point detection** Tinakorn KANYANEE *Chiang Mai University, Thailand*
11:50-12:00	O-10	**Construction of Anti-Fouling Polymeric Membrane Potentiometric Sensors for Marine Environmental Monitoring** Longbin QI *Yantai Institute of Coastal Zone Research, CAS, China*
Lunch		

Session C: I&O Lectures **Room: 5040**		
13 August (Wed.)		
Chairs	Daniel MANDLER, Xiaoquan LU, Guizheng ZOU, Shimeles Addisu KITTE	
10:40-10:55	I-55	**Single-molecule chemiluminescence imaging** Jiandong FENG *Zhejiang University, China*
10:55-11:10	I-6	**Instrumentation for ECL Analysis** Dmytro SNIZHKO *Kharkiv National University of Radio Electronics, Ukraine*
11:10-11:20		
11:20-11:30	O-12	**Metal nanoparticles for sensitive colorimetric and electrochemiluminescent immunoassay** Xiaoli QIN *Hunan Agricultural University, China*
11:30-11:40	O-13	**Nanoconfinement-Enhanced Electrochemiluminescence for Machine Learning-Assisted Imaging Analysis of Biomarkers** Chuanping LI *Anhui Polytechnic University, China*
11:40-11:50	O-14	**Electrochemiluminescence of Atomically Precise Metal Nanoclusters and Their Biosensing Applications** Ruizhong ZHANG *Tianjin University, China*
11:50-12:00	O-15	**Peptide Sequence Modulating Analytical Performance of Electrogenerated Chemiluminescence Peptide-Based Biosensor for Matrix Metalloproteinase2** Meng LI *Shaanxi Normal University, China*
Lunch		

Session D: I&O Lectures **Room: 4039**		
13 August (Wed.)		
Chairs	Janine MAUZEROLL, Shen YE, Masahiro YAMAMOTO, Peter RODIČ	
10:40-10:55	I-7	**Asymmetric Mass Transport in Polybromide Ionic Liquid Cathodes** Taek Dong CHUNG *Seoul National University, Republic of Korea*
10:55-11:10	I-8	**Electrochemical Properties of Highly Concentrated Electrolyte Phases** Robert DRYFE *University of Manchester, United Kingdom*
11:10-11:20	O-16	**Oxygen Vacancy-Tailored CDI Electrodes for Selective Phosphate Recovery from Aquatic Systems** Jianyun LIU *Donghua University, China*
11:20-11:30	O-17	**Development of Electrospun Fibrous Electrode Materials: Influence of Processing Parameters on Structure and Electrochemical Performance** Ayaulym BELGIBAYEVA *National Laboratory Astana, Kazakhstan*
11:30-11:40	O-18	**Enhanced Gas-Solid Mass Transfer and High-Efficiency Energy Conversion Mechanisms in Low-to-Intermediate Temperature Solid Oxide Cell Materials** Meigui XU *Nanjing Tech University, China*
11:40-11:50	O-19	**Nano-Impact Electrochemistry Reveals Kinetics Information of Metal-Ion Battery Materials** Wei XU *Hunan University, China*
11:50-12:00	O-20	**Elucidation of Formation Mechanism of Solid Electrolyte Interphase (SEI) in Alkali Metal Ion Batteries** Puhan ZHANG *Tohoku University, Japan*
Lunch		

Session E: I&O Lectures **Room: 4040**		
13 August (Wed.)		
Chairs	, Yuko UENO, Hui WEI, Yun-Yee LOW	
10:40-10:55	I-9	**High-performance nanozymes: rational design and biomedical applications** Hui WEI *Nanjing University, China*
10:55-11:10	I-10	**Enhanced Hydrogen Peroxide Synthesis and Antibacterial Action via Thermocatalytic Metal-Organic Frameworks** Zong-Hong LIN *National Taiwan University, Taiwan, China*
11:10-11:20	O-21	**Peroxidase-like nanozymes: peculiarities of redox catalysis and analytical applications** Aleksandra SHNEIDERMAN *Moscow State University, Russia*
11:20-11:30	O-22	**Nanozyme Sensing: Exploration of Microdisturbance Factors and Immobilization Study** Baoji DU *Xi'an Jiaotong University, China*
11:30-11:40	O-23	**Precise Biomimetic Construction of Atomic-scale Nanozymes for Biosensing** Ying WANG *Harbin Engineering University, China*
11:40-11:50	O-24	**Axial Oxygen Coordinated Iron Single-Atom Nanozyme: Highly Selective Peroxidase-Like Activity for Visual Biosensing** Rong HUANG *Shanghai University, China*
11:50-12:00	O-25	**Structural Regulation of Au-Pt Bimetallic Aerogels for Catalyzing the Glucose Cascade Reaction** Cui WANG *Shandong University, China*
Lunch		

Session F: I&O Lectures **Room: 4042**		
13 August (Wed.)		
Chairs	Ali Hossein REZAYAN, Yuanhong XU, Elena V. SUPRUN, Slađana ĐURĐIĆ	
10:40-10:55	I-27	**Neuroelectrochemistry: From Multi-Spatiotemporal Sensing to Neurofunctional Mimicking** Lanqun MAO *Beijing Normal University, China*
10:55-11:10	I-79	**Copper-doped strontium metal-organic framework for oxygen evolution reaction** Khalid M. Omer *University of Sulaimani, Iraq*
11:10-11:20	O-107	**Disordered hyperuniform two-dimensional materials** Duyu CHEN *University of Science and Technology of China, China*
11:20-11:30	O-108	**Low power conductometric Gas sensors based on p-type Semiconductors** Vasileios BINAS *Institute of Electronic Structure & Laser & Aristotle University of Thessaloniki, Greece*
11:30-11:40	O-109	**Precise Synthesis of Discrete Chiral Nanomaterials for Circularly Polarized Photocatalysis and Chiral Sensors** Guangchao ZHENG *Zhengzhou University, China*
11:40-11:50	O-110	**Electrochemical Chiral Recognition Based on Helical Chiral Gold Nanoparticles** Fengxia WU *Changchun Institute of Applied Chemistry, CAS, China*
11:50-12:00	O-111	**A Single-Electrode System for ZIF-67 Enhanced Luminol Electrochemiluminescence Detection of AQP4 Antibody** Tadele ETICHA *Changchun Institute of Applied Chemistry & University of Science and Technology of China, China*
Lunch		

Plenary Lectures **Room: 7039 (audio-video synchronization in 6040)**		
13 August (Wed.)		
Chairs	Christian AMATORE, Erkang WANG	
14:00-14:25	PL-5	**Nanoelectrochemical measurements of nano vesicular subcompartments and stress granules** Andrew EWING *University of Gothenburg, Sweden*
14:25-14:50	PL-6 (IRN)	**Real time label free study of biomolecule interactions in neuroscience** Xiurong YANG *Changchun Institute of Applied Chemistry, CAS, China*
14:50-15:15	PL-7	**(Bio)catalytic and chemosensitive materials for electrochemical biosensors** Arkady A. KARYAKIN *M.V. Lomonosov Moscow State University, Russia*
15:15-15:40	PL-21	**Anticipated Excellence in Chemical Measurement Science** Yong WANG *National Natural Science Foundation of China, China*
15:40-15:55	Break	
Chairs	Hai-Long WU, Yasuaki EINAGA, Lanqun MAO, Irshad HUSSAIN	
15:55-16:10	I-11	**Aptamer-Enabled Strategies for Sensitive and Versatile Detection of SARS-CoV-2 in Point-of-Care Settings** Yingfu LI *McMaster University, Canada*
16:10-16:25		
16:25-16:40	I-13	**Fundamental Studies of Aptamer Selection for Biosensors** Juewen LIU *University of Waterloo, Canada*
16:40-16:50	O-26	**MicroRNA Bioanalysis** Haifeng DONG *Shenzhen University, China*
16:50-17:00	O-27	**Boosting Nanopore Electrochemistry for Protein Posttranslational Modification Identification at the Single-Molecule Level** Jie JIANG *University of Science and Technology of China, China*
17:00-17:10	O-28	**Single Protein Study Based on Solid-State Nanonet** Yueming ZHAI *Wuhan University, China*
17:10-17:20	O-29	**Wearable Sweat Biosensors for Personalized Medicine** Minqiang WANG *Shanghai Jiao Tong University, China*
17:20-17:30	O-30	**Electrochemical aptamer-based biosensors for real-time monitoring of biomolecules in vivo in the living animals** Hui LI *China University of Geosciences (Wuhan), China*
17:30-17:40	O-31	**Individually-Addressable Multi-Channel Nanoelectrodes for Single-Cell Exocytosis Investigation** Keke HU *Xiamen University, China*
Dinner		

Session B: I&O Lectures **Room: 6040**		
13 August (Wed.)		
Chairs	Zbigniew STOJEK, Ping YU, Kaiyu FU, Tinakorn KANYANEE	
15:55-16:10	I-14	**Advanced voltammetric techniques derived from square-wave voltammetry** Valentin MIRCESKI *University of Lodz, Poland* *University in Skopje & Research Center for Environment and Materials, Macedonian Academy of Sciences and Arts, North Macedonia*
16:10-16:25	I-15	**Nanomaterial-Based Electrochemical Sensors and Biosensors for the Detection of Pharmaceuticals and Biomarkers** Aicheng CHEN *University of Guelph, Canada*
16:25-16:40	I-16	**Fabrication of Implantable Hydrogel Neural Probes and Their Applications in Brain-Computer Interfaces** Qiang ZHANG *Changchun Institute of Applied Chemistry, CAS, China*
16:40-16:50	O-32	**Electroactive and electroresponsive hydrogel materials for soft electrochemical actuators** Marcin KARBARZ *University of Warsaw, Poland*
16:50-17:00	O-33	**Graphitic Carbon Nitride: a promising material in electrochemical sensing** Slađana ĐURĐIĆ *University of Belgrade, Serbia*
17:00-17:10	O-34	**Co_3O_4 based materials for Enhanced Acetone Gas Sensing Performance** Chunmei ZHANG *Suzhou University of Science and Technology, China*
17:10-17:20	O-35	**Improved performance of Prussian blue solid contact allowing flow injection amperometric detection of potassium and sodium ions in biological fluids** Vera SHAVOKSHINA *M.V. Lomonosov Moscow State University, Russia*
17:20-17:30	O-36	**Development of Electrodes Modified by Gold Nanostructures for Sensitive Detection of Ovarian Cancer Biomarker CA125 in clinical samples** Maryam NIKKHAH *Tarbiat Modares University, Iran*
17:30-17:40	O-37	**Enhanced Voltammetric Detection of Tryptophan Using Nitrogen Defect-Rich Graphitic Carbon Nitride-Modified Electrodes** Shimeles Addisu KITTE *Jimma University, Ethiopia*
Dinner		

Session C: I&O Lectures **Room: 5040**		
13 August (Wed.)		
Chairs	Junjie ZHU, Jiandong FENG, Simona BALUCHOVÁ, Yanfei SHEN	
15:55-16:10	I-17	**Determining Electrochemiluminescence Reaction Rate Constants in $Ru(bpy)_3^{2+}$/Tri-*n*-propylamine Coreactant System** Zhifeng DING *The University of Western Ontario, Canada*
16:10-16:25	I-18	**Electrochemiluminescence Biosensor Based on an Efficient Antifouling Cell Membrane Hydrogel for the Direct Detection of Alkaline Phosphatase in Human Serum and Cell Lysate** Caifeng DING *Qingdao University of Science and Technology, China*
16:25-16:40	I-19	**Heterogeneous Electrochemiluminescence in Film-modified Electrodes** Yuriy ZHOLUDOV *Kharkiv National University of Radio Electronics, Ukraine*
16:40-16:50	O-38	**Electrochemical Analysis of Single Nerve Vesicles** Xianchan LI *Peking University, China*
16:50-17:00	O-39	**Design and application of high-performance gold nanocluster-based electrochemiluminescence probes** Huaping PENG *Fujian Medical University, China*
17:00-17:10	O-40	**Multi-functional electrochemiluminescence biosensor for efficient capture, elimination, and sensitive monitoring of *Staphylococcus aureus*** Longsheng JIN *Nanjing Agricultural University, China*
17:10-17:20	O-41	**Endogenous and Exogenous Wireless Multimodal Light-Emitting Devices** Miaoxia LIU *University of Bordeaux, France*
17:20-17:30	O-42	**Water-responsive Xerogel-Based Flood Alarm Device Utilizing Smartphone Electrogenerated Chemiluminescence Imaging** Xiaolin YANG *Shaanxi Normal University, China*
17:30-17:40	O-43	**Modeling and cyclic voltammetry study of complicated electron transfer reactions: electrochemical oxidation of luminol and electrodeposition of copper** Ran CHEN *Southeast University, China*
Dinner		

Session D: I&O Lectures **Room: 4039**		
13 August (Wed.)		
Chairs	Christine KRANZ, Zong-Hong LIN, Wei XIE, Rui HAO	
15:55-16:10	I-20	**Electrical Catalysis of Forbidden Reactions in Single-Molecule Devices** Josh HIHATH *Arizona State University, USA*
16:10-16:25	I-21	**Microfabrication and devices for optoelectronic functional materials** Yuchen WU *Technical Institute of Physics and Chemistry, CAS, China*
16:25-16:40	I-22	**Regulation of the electrical double layer: Contact-electro-chemistry** Di WEI *Beijing Institute of Nanoenergy and Nanosystems, CAS, China*
16:40-16:50	O-44	**Non-covalent Interactions in Solid-State Molecular Charge Transport** Cunlan GUO *Wuhan University, China*
16:50-17:00	O-45	**Design and Measurement of Photoelectrochemical Interface** Peiyao DU *Xi'an Jiaotong University, China*
17:00-17:10	O-46	**In Situ Electrochemical Titration of Catalytic Intermediates** Zhaoyu JIN *University of Electronic Science and Technology of China, China*
17:10-17:20	O-47	**Electrospun nanofibers for energy-related electrocatalytic small molecules conversion** Xiaofeng LU *Jilin University, China*
17:20-17:30	O-48	**Electrocatalytic oxidation of protein amino acids by transition metal hexacyanoferrates** Elena V. SUPRUN *M.V. Lomonosov Moscow State University, Russia*
17:30-17:40	O-49	**Bioelectrocatalytic Carbon Dioxide Reduction by Formate Dehydrogenases** Lingling ZHANG *Tianjin Institute of Industrial Biotechnology, CAS, China*
Dinner		

Session E: I&O Lectures **Room: 4040**		
13 August (Wed.)		
Chairs	Saman HOSSEINKHANI, Xiliang LUO, Baohong LIU, Egor ANDREEV	
15:55-16:10	I-23	**Single Cell Analysis for the Elucidation of Intracellular Events & Interactions** Jianhua WANG *Northeastern University, China*
16:10-16:25	I-24	**Single-cell metabolomics platforms and their applications** Yu BAI *Peking University, China*
16:25-16:40	I-25	**Development and Application for Novel Functionalized Open-Tubular Capillary Microcolumn-Mass Spectrometry Online Coupling Technology** Li YANG *Northeast Normal University, China*
16:40-16:50	O-51	**Machine Learning-powered Theranostic Platform for Intelligent Periodontitis Management** Lin XU *Jilin University, China*
16:50-17:00	O-52	**Iron-Based MOF with Peroxidase-Like Activity Enhances Synergistic Therapeutic Efficacy of PDT/Ferroptosis/Starvation Therapy by Alleviating Tumor Hypoxia** Zhanxia ZHANG *Shanghai University of Traditional Chinese Medicine, China*
17:00-17:10	O-53	**Engineered Cryo-Shocked Cancer Cells Deliver Dual-Function Gene Medicines to Recruit and Activate T cells for Tumor Immunotherapy** Yali LIU *Southwest University, China*
17:10-17:20	O-55	**A Next-Generation Wearable Glucose Biosensor: Spore-Enabled Microbial Fuel Cells with Integrated Supercapacitor-Based Alert System** Sara MORADI *University of Tehran, Iran*
17:20-17:30	O-56	**Facet-Selective Zirconium Doping in $LiLnF_4$ Enables Controlled Biodegradation and Bright Upconversion** Murad M.A ABUALREJAL *Sungkyunkwan University, Republic of Korea*
17:30-17:40	O-119	**Electrochemical biosensors utilizing aptamers that are enhanced with MXenes nanoscale catalyst layers** Hassan KARIMI-MALEH *Quzhou Affiliated Hospital, Wenzhou Medical University, China*
Dinner		

Session F: I&O Lectures **Room: 4042**		
13 August (Wed.)		
Chairs	Zerihun ASSEFA, Caifeng DING, Khalid OMER, Dativa Joseph SHILLA	
15:55-16:10	I-80	**Development of Thin-Film Electrodes Using Shadow Masking for Precise Point-of-Care Measurement of C - Reactive Protein in Sepsis Diagnosis** Ali Hossein REZAYAN *University of Tehran, Iran*
16:10-16:25	I-81	**Tumor Marker Detection Technologies, Equipment, and Theranostic Integration** Shusheng ZHANG *Linyi University, China*
16:25-16:40	I-82	**Construction of functional artificial cells** Xiaojun HAN *Harbin Institute of Technology, China*
16:40-16:50	O-97	**Flexible Wearable Electronic Sensors for Proactive Health Management** Cui YE *Shanghai Jiao Tong University, China*
16:50-17:00	O-118	**The Interface Challenges of Solid State battery** Wen YANG *Shenzhen University of Advanced Technology, China*
17:00-17:10	O-112	**Applications of transition metal nanomaterials in the fast degradations and detections of antibiotics** Ling ZHANG *Harbin Institute of Technology (Shenzhen), China*
17:10-17:20	O-113	**Electrocatalytic glucose oxidation by AuNi bimetallic aerogel to promote diabetic wound healing** Wei GAO *Northwestern Polytechnical University, China*
17:20-17:30	O-50	**Confinement and Heterointerface Re-construction in 2D Materials for Water Oxidation Catalysis** Kassa Belay IBRAHIM *Ca' Foscari University of Venice, Italy*
17:30-17:40	O-114	**Ni-Co Layered Double Hydroxide Nanocages Mediated Reactive Oxygen Species Generation for Ultra-Sensitive Chemiluminescent Detection of Dopamine** Solomon Sime TESSEMA *Changchun Institute of Applied Chemistry & University of Science and Technology of China, China*
17:40-17:50	O-115	**Oxidation of 4-Aminophenylboronic Acid with Artesunate Accelerated by Ethanol for Artesunate Detection** Ala'a Mhmoued Abdllh ALBOULL *Changchun Institute of Applied Chemistry & University of Science and Technology of China, China*
Dinner		

Plenary Lectures **Room: 7039 (audio-video synchronization in 6040)**		
14 August (Thur.)		
Chairs	Andrew EWING, Arkady KARYAKIN	
08:30-08:55	PL-9	**Stimuli-Responsive Dynamic Electrochemical Systems** Itamar WILLNER *The Hebrew University of Jerusalem, Israel*
08:55-09:20	PL-11	**Spatial Engineering of Single-Atom Fe Adjacent to Cu-Assisted Nanozymes for Biomimetic O2 Activation** Kwok-Yin WONG *The Hong Kong Polytechnic University, Hong Kong, China*
09:20-09:45	PL-12	**Nucleic Acid Based Bioengineering for Diagnostics and Nature-derived Biomaterials for Chronic Wound Care** I-Ming HSING *The Hong Kong University of Science and Technology, Hong Kong, China*
09:45-10:00	O-116	**Introduction of Journal Advanced Sensor and Energy Materials** Yuting CHEN *Advanced Sensor and Energy Materials, China*
10:10-10:30	Break	
Sino-France IRN		
Chairs	Xiurong YANG, Olivier BURIEZ, Huangxian JU	
10:30-10:45	I-26	**Fine-Tuning the Optoelectronic and Redox Properties of an Electropolymerized Thiophene Derivative for Highly Selective OECT-Based Zinc Detection** Alexander KUHN *University of Bordeaux, CNRS, France*
10:45-11:00	I-73	**Nanoelectrochemical Monitoring of ROS/RNS Homeostasis During Macrophages Immune Stress** Wei-Hua HUANG *Wuhan University & Zhongnan Hospital of Wuhan University, China*
11:00-11:15	I-28	**Dual-Signal Electrochemical Biosensor Based on Aptamer Recognition and Cbago-Mediated Amplification for Ultrasensitive Detection of Coxsackievirus A6** Nicole JAFFREZIC-RENAULT *University of Franche-Comte, CNRS, France*
11:15-11:30	I-29	**A Three-Biomarker Electrochemiluminescence immunoarray Coupled with Machine Learning for Diagnosis of Acute Myocardial Infarction** Hua CUI *University of Science and Technology of China, China*
11:30-11:45	I-30	**Coupled Scanning electrochemical and Fluorescence microscopies for analyzing plasmon driven chemistry** Vitor BRASILIENSE *Université Paris Saclay, France*
11:45-12:00	I-31	**Smart Hydrogel-Based Bioseparation and Biosensing Systems** Weiwei GUO *Nankai University, China*
Lunch		

Session B: I&O Lectures **Room: 6040**		
14 August (Thur.)		
Chairs	Orawon CHAILAPAKUL, Yuming ZHAI, Jiawang DING, Klaudia KANIEWSKA	
10:30-10:45	I-32	**Nanofluidic sensing and energy conversion systems** Xing-Hua XIA *Nanjing University, China*
10:45-11:00	I-33	**Exploiting Single Nanoparticle and Spectro-Electrochemistry to Explore the Solid/Liquid Interface at Electrocatalysts** Kristina TSCHULIK *Ruhr University Bochum, Germany*
11:00-11:15	I-83	**Electrochemical control and detection of pathogenic microorganisms** Yuanhong XU *Qingdao University, China*
11:15-11:25		
11:25-11:35	O-58	**Enhancing Signal-to-Noise Ratio in Nanopore Current Pulse Detection Using 3D DNA Nanostructures** Jiahai WANG *Guangzhou University, China*
11:35-11:45	O-59	**Lanthan's touch: designing GCE/La-Dy_2O_3/MWCNT sensor for electrochemical detection of metol in enviromental and bio-fluids samples** Dalibor STANKOVIĆ *University of Belgrade, Serbia*
11:45-11:55	O-60	**Nanopore-based enzyme-linked immunosorbent assay** Yakun YI *Institute of Chemistry, CAS, China*
Lunch		

Session C: I&O Lectures **Room: 5040**		
14 August (Thur.)		
Chairs	Yuanjian ZHANG, Kateryna MUZYKA, Naoya NISHI, Charoenkwan KRAIYA	
10:30-10:45	I-35	**Electrochemiluminescence Microscopy for Analytical Application** Jun-Jie ZHU *Nanjing University, China*
10:45-11:00	I-36	**Coreactant-Free Electrochemiluminescence from Nanocluster and Its Immunoassay Application** Guizheng ZOU *Shandong University, China*
11:00-11:15	I-37	**Ultrasensitive Electrochemiluminescence Immunoassay via Cerasome within MXene-Modified Single Electrode Electrochemical Systems For the Multiplex Diagnosis of Circulating Tumor Cells** Morteza HOSSEINI *University of Tehran, Iran*
11:15-11:25	O-61	**Biofuel Cell-Based Self-Powered Biosensors** Panpan GAI *Qingdao Agricultural University, China*
11:25-11:35	O-62	**Cooling-free sampling of exhaled breath for respiratory diagnostics** Egor A. ANDREEV *M.V. Lomonosov Moscow State University, Russia*
11:35-11:45	O-63	**Multiplexed Nano-Flexible Electrochemical Biosensors for Point-of-Care Biomedical Applications** Bey-Fen LEO *Universiti Malaya, Malaysia*
11:45-11:55	O-64	**Enhanced luminol/H_2O_2 chemiluminescence sensor based on peroxidase-mimic activity of lattice-confined Ru single-atom anchored on ZIF-derived Co_9S_8 hollow polyhedron** Tsegu LIJALEM *Changchun Institute of Applied Chemistry, CAS & University of Science and Technology of China, China*
Lunch		

Session D: I&O Lectures **Room: 4039**		
14 August (Thur.)		
Chairs	Aicheng CHEN, Xiaofeng LU, Wenlei ZHU, Isehaq Saif Mansoor Jaber AL-NAFAI	
10:30-10:45	I-38	**Importance of Advanced Diagnostics for Unlocking Complexity of Electrocatalytic Water Splitting** Aleksandar R. ZERADJANIN *Max Planck Institute for Chemical Energy Conversion, Germany*
10:45-11:00	I-39	**Functional Nanomaterials – Tuning the Size and Surface Chemistry for Applications in Electrocatalysis** Irshad HUSSAIN *Lahore University of Management Sciences, Pakistan*
11:00-11:15	I-40	**Highly active sites of $FeTe_2$ nanosphere encapsulated with graphene nanosheets towards efficient electrocatalysts for overall water splitting applications** Shahzad MURTAZA *Khwaja Fareed University of Engineering and information Technology, Pakistan*
11:15-11:30	I-41	**Analysis, measurement and application of interfacial charge transfer** Xiaoquan LU *Northwest Normal University, China*
11:30-11:40	O-65	**Novel catalyst layer design with in-situ constructed cross-linked porous network towards high-performance PEMWE** Zhao JIN *Changchun Institute of Applied Chemistry, CAS, China*
11:40-11:50	O-66	**Tissue Papers Derived Scalable One-Pot Fabrication of Carbon-Nanofiber Supported Noble-Metal-Free Nanocrystals for Hydrogen Production** Kamel EID *Qatar University, Qatar*
11:50-12:00	O-67	**Reactivity of Anodically-Generated Stilbene Cation Radicals** Yun-Yee LOW *Universiti Malaya, Malaysia*
Lunch		

Session E: I&O Lectures **Room: 4040**		
14 August (Thur.)		
Chairs	Zhou NIE, Juewen LIU, Xiaolei WANG, Jehad Khaled Ismail AbdelRahman ELDEMELLAWI	
10:30-10:45	I-42	**NPY-based Nanoprobes in Cancer Boundarics** Aiguo WU *Ningbo Institute of Materials Technology and Engineering, CAS, China*
10:45-11:00	I-43	**Raman spectroscopy analysis of nanoplastics and the challenges** Jinhua ZHAN *Shandong University, China*
11:00-11:15	I-44	**A Fluorescence/Colorimetric Synergistic-Enhanced Type-I Heterostructured MOF@QDs for Both Multi-Depth Food-Freshness Prediction and Extra Preservation** Xiaolei WANG *Nanchang University, China*
11:15-11:25	O-68	**Biomimetic coacervates for cellular targeting and intervention** Hui JIANG *Southeast University, China*
11:25-11:35	O-69	**Image Recognition based Cell State Quantification and Environmental Pollutant Concentration Detection** Xiaolong XU *Wuyi University, China*
11:45-11:55	O-70	**Microplastic Pollution in Coastal Waters and Sediments of East Africa: Impacts on Fish Intestinal Health, Growth, and Reproduction** Dativa Joseph SHILLA *University of Dar es Salaam, Tanzania*
11:55-12:05	O-71	**Studying Stress Response Process of Cell during Electrical Stimulation Through Spectra Techniques** Guohua QI *Shenzhen University, China*
Lunch		

Plenary Lectures **Room: 7039 (audio-video synchronization in 6040)**		
14 August (Thur.)		
Chairs	Itamar WILLNER, Kwok-Yin WONG	
14:00-14:25	PL-13	**Electroanalytical aspects of the lithium-ion battery** Hubert GIRAULT *École Polytechnique Fédérale de Lausanne, Switzerland*
14:25-14:50	PL-14	**The Role of Electrocatalysis in Energy Storage and Conversion** Shizhang QIAO *The University of Adelaide, Australia*
14:50-15:15	PL-16	**Green Electrochemical Transformation of Carbon Dioxide: Challenges and Solutions** Huijun ZHAO *Griffith University, Australia*
15:15-15:40	PL-8	**Intelligent Soft Bioelectronics** Wenlong CHENG *The University of Sydney, Australia*
15:40-15:55	Break	
Sino-France IRN		
Chairs	Alexander KUHN, Wei-Hua HUANG, Taek Dong CHUNG	
15:55-16:10	I-45	**Nanobiosensing Pomotes the Development of Life Analytical Chemistry** Huangxian JU *Nanjing University, China*
16:10-16:25	I-46	**Development of An Electrochemiluminescence Imaging Strategy To Analyse Giant Liposome Release Events** Olivier BURIEZ *Ecole Normale Supérieure, PSL University, Sorbonne Université, CNRS, France*
16:25-16:40	I-47	**Imaging and biosensing in the brain of freely behaving animals** Yang TIAN *East China Normal University, China*
16:40-16:55	I-48	**High-throughput biosensors with increased sensitivity and specificity** Jean Louis MARTY *Université de Perpignan Via Domitia, France* *International Centre of Biodynamics, Romania*
16:55-17:10	I-49	**Single Particle Electrochemiluminescence Imaging** Baohong LIU *Fudan University, China*
17:10-17:25	I-50	**Brain Chemistry in Vivo Iontronic Sensing** Ping YU *Institute of Chemistry, CAS, China*
17:25-17:40	I-84	**The design of implantable biosensor for in vivo Electrochemical Sensing** Meining ZHANG *Renmin University of China, China*
Banquet in Redbuds Hotel		

Session B: I&O Lectures **Room: 6040**		
14 August (Thur.)		
Chairs	Josh HIHATH, Xing-Hua XIA, Aleksandar ZERADJANIN, Yuriy ZHOLUDOV	
15:55-16:10	I-52	**Intelligent bio-imaging and monitoring of cancers via bio-responsive self-assembly and electrochemical nanointerface** Xuemei WANG *Southeast University, China*
16:10-16:25	I-53	**Size-selective Enzyme Adsorption Electrode Using Interlayer Distance Control of Monolayer Graphene and Graphene Oxide** Yuko UENO *Chuo University, Japan*
16:25-16:40	I-54	**Improving The Selectivity of Electrochemiluminescence-Based Sensors by Applying Molecularly Imprinted Polymers** Tribidasari A. IVANDINI *University of Indonesia, Indonesia*
16:40-16:50	O-72	**Single Nanoparticle Impact Electroanalytical Chemistry** Yige ZHOU *Hunan University, China*
16:50-17:00	O-73	**Fully Integrated Wearable Sweat Sensors** Ming ZHOU *Northeast Normal University, China*
17:00-17:10	O-74	**Fune-Tuned Nanomaterials for Electrochemical CO_2 Conversion** Wenlei ZHU *Nanjing University, China*
17:10-17:20	O-75	**Nanopore electrochemical decoding of single polymers for molecular information storage** Zheng-Li HU *Nanjing University, China*
17:20-17:30	O-76	***Operando* Raman Insights into Pressure-Dependent Mechanisms of CO_2 Electroreduction** Liang HUANG *Nankai University, China*
Banquet in Redbuds Hotel		

Session C: I&O Lectures **Room: 5040**		
14 August (Thur.)		
Chairs	Chenzhong LI, Haifeng DONG, Chengzhou ZHU, Dalibor STANKOVIĆ	
15:55-16:10	I-85	**Double-layer capacitance properties suggestive of two-dimensional ice** Jingyuan CHEN *University of Fukui, Japan*
16:10-16:25	I-56	**Chemical Modulation of Carbon Nitride for Electrochemiluminescent Sensing** Yuanjian ZHANG *Southeast University, China*
16:25-16:40	I-57	**Electrically Modulated Calcium Nanodynamics in High-Speed AFM: Toward a New Paradigm for Imaging Stimulated Biointerfaces** Kateryna MUZYKA *INSERM Marseille, France* *Kharkiv National University of Radio Electronics, Ukraine*
16:40-16:50	O-77	**Electrochemiluminescence imaging for dynamic process on micro-interface reactions** Cheng MA *Yangzhou University, China*
16:50-17:00	O-78	**Ultra-stable transducer for oxidase-based biosensors** Darya V. VOKHMYANINA *Moscow State University, Russia*
17:00-17:10	O-79	**In Vivo Sensors for the Detection of Plant Metabolites** Aixue LI *Beijing Academy of Agriculture and Forestry Sciences, China*
Banquet in Redbuds Hotel		

Session D: I&O Lectures **Room: 4039**		
14 August (Thur.)		
Chairs	Robert DRYFE, Zhijie WANG, Dmytro SNIZHKO, Ayaulym BELGIBAYEVA	
15:55-16:10	I-58	**Reversibility of Disproportionation Reaction of Superoxide Species for Li-O_2 Batteries** Shen YE *Tohoku University, Japan*
16:10-16:25	I-59	**The structure and energetics of graphite intercalation compounds of alkaline metal: van der Waals DFT calculation** Masahiro YAMAMOTO *Konan University, Japan*
16:25-16:40	I-60	**KOVAR as a Promising Anode Material for Lithium-ion-Batteries** Zia Ur REHMAN *Quaid-i-Azam University, Pakistan*
16:40-16:50	O-82	**Enhanced Corrosion Inhibition of AA7075-T6 via Synergistic Action of Cerium Salts and Sodium Sulphate** Peter RODIČ *Jožef Stefan Institute, Slovenia*
16:50-17:00	O-83	**Electrochemical investigation of the corrosion inhibition efficiency of choline-based ionic liquids in protecting mild steel structures** Isehaq Saif Mansoor Jaber AL-NAFAI *Sultan Qaboos University, Oman*
17:00-17:10	O-84	**Scalable Synthesis of Hierarchal Porous Carbon Nanotubes Encapsulated Metal Nanocrystals with a Strong Metal-Carbon Interaction for High Performance Supercapacitors** Hassan Idris ABDU *Shangluo University, China*
17:10-17:20	O-85	**Determination of Environmental Polylactic Acid Microplastic Residues by Indirect Method using Single-atom Nickel Composite Electrode** Hong ZHU *Beijing University of Agriculture, China*
17:20-17:30	O-86	**Multilayered Graphene Prepared from LCO-Based Spent Battery Graphite as the Anode Material of Li-Ion Battery** Fathima Ali KAYAKOOL *University of Hyderabad, India*
Banquet in Redbuds Hotel		

Session E: I&O Lectures **Room: 4040**		
14 August (Thur.)		
Chairs	Zhifeng DING, Shahzad MURTAZA, Kosuke INO, Xuan YANG	
15:55-16:10	I-61	**In situ Monitoring of Photocatalytically Generated Species via Scanning Electrochemical Probe Microscopy** Christine KRANZ *Ulm University, Germany*
16:10-16:25	I-62	**In situ probing the electrochemical interfaces** Yuanhua SHAO *Peking University, China*
16:25-16:40	I-63	**Are all battery particles created equally?: How scanning electrochemical microscopy can help answer this question** Janine MAUZEROLL *McGill University, Canada*
16:40-16:50	O-87	**Effects of Mechanical Microenvironment on Cell Characteristics Investigated by Scanning Electrochemical Microscopy** Fei LI *Xi'an Jiaotong University, China*
16:50-17:00	O-88	**Multi-resolved Imaging of Electrochemical Interfaces** Rui HAO *Southern University of Science and Technology, China*
17:00-17:10	O-89	**Epitaxy Orientation and Kinetics Diagnosis for Zinc Electrodeposition** Jingshu HUI *Soochow University, China*
17:10-17:20	O-90	**A Thermosensitive α-Amino Acid Hydrogel Layer Deposited on an Electrode Surface: Actuator and Sensor Performance** Klaudia KANIEWSKA *University of Warsaw, Poland*
17:20-17:30	O-91	**Nanoelectrochemical Insight into the Single Polymersomes Activation for Drug Delivery** Si-Min LU *Université Paris Cité, France*
Banquet in Redbuds Hotel		

Plenary Lectures **Room: 7039 (audio-video synchronization in 6040)**		
15 August (Fri.)		
Chairs	Hubert GIRAULT, Takashi KAKIUCHI	
08:30-08:55	PL-17	**A New Potentiometric Estimate of the p*K*a of Acetic Acid in Water Based on the Electrochemical Cell Equipped with Ionic Liquid Salt Bridge** Takashi KAKIUCHI *pH Science and Technology Laboratory, Japan*
08:55-09:20	PL-18	**Nanofluidics in High-Density Pore Monolayer Membranes** Zhiyong TANG *National Center for Nanoscience and Technology, China*
09:20-09:45	PL-19	**Redox Mediation and the Role of Electrode Material for the Enhancement of Electrogenerated Chemiluminescence** Francesco PAOLUCCI *University of Bologna, Italy*
09:45-10:10	PL-20	**Electrochemical Biosensors Integrated Organ/Organ-on-a-Chip for Multidimensional Precision Measurement and Evaluation** Chenzhong LI *Chinese University of Hong Kong (Shenzhen) & Juxintang (Chengdu) Biotechnology Inc., China*
10:20-10:50	**Poster Award & Break**	
Chairs	Yukihiro OZAKI, Kristina TSCHULIK, Minhua SHAO	
10:50-11:05	I-64	**Photocurrents as analytical tool-principles and advancements based on semiconductor nanostructures** Fred LISDAT *Technical University of Applied Sciences Wildau, Germany*
11:05-11:20	I-65	**Development of Electrochemical Tip-enhanced Raman Spectroscopy for Nanoscale Characterization of Electrocatalytic Reactions** Bin REN *Xiamen University, China*
11:20-11:35	I-51	**The Electrode/Electrolyte Interface Study Using Rotating Ring Disk Electrode** Minhua SHAO *Hong Kong University of Science and Technology, Hongkong, China*
11:35-11:45	O-92	**Quantitative Study of the Stability of Colloidal Metallic Nanoparticles at an Atomic Level** Xuan YANG *Huazhong University of Science and Technology, China*
11:45-11:55	O-93	**Insights into the interfacial processes in Li-S batteries *via in situ*/*operando* methods** Shuang-Yan LANG *Institute of Chemistry, CAS, China*
11:55-12:05	O-94	**Understanding and Controlling Electrolyte-Induced Interfacial Side Reactions in Lithium Metal Batteries** Zhijie WANG *Changchun Institute of Applied Chemistry, CAS, China*
Lunch		

Session B: I&O Lectures **Room: 6040**		
15 August (Fri.)		
Chairs	Nicole JAFFREZIC-RENAULT, Caifeng DING, Tribidasari A. IVANDINI, Vasileios BINAS	
10:50-11:05	I-67	**Speciation of Nanoparticles: Nanoparticle-Imprinted Matrices (NAIM)** Daniel MANDLER *The Hebrew University of Jerusalem, Isreal*
11:05-11:20	I-68	**Electrochemical Detection of Organic Compounds in Flowing Systems** Jiri BAREK *Charles University, Czech Republic*
11:20-11:35	I-69	**Interfacial properties of non-conventional electrochemical liquid/liquid interfaces** Naoya NISHI *Kyoto University, Japan*
11:35-11:45	O-95	**Potentiometric Sensor with High Sensitivity for Peroxidase** Jiawang DING *Yantai Institute of Coastal Zone Research, CAS, China*
11:45-11:55	O-96	**Nanopore Approach for Single-Molecule Temporal Omics** Meng-Yin LI *Nanjing University, China*
11:55-12:05	O-117	**Multi-Principal-Element Nanoalloy Electrocatalysts: A Dual-Strategy Electrochemical Synthesis and Performance Investigation** Xiuting LI *Shenzhen University, China*
Lunch		

Session C: I&O Lectures **Room: 5040**		
15 August (Fri.)		
Chairs	Jean Louis MARTY, Fei LI, Morteza HOSSEINI	
10:50-11:05	I-70	**Modification and Functionalization of Hydrogel Materials for Motion Sensing** Zbigniew STOJEK *University of Warsaw, Poland*
11:05-11:20	I-71	**Surface Blocking-Based Potentiometric Biosensors Using Molecularly Imprinted Polymers as Receptors for Label-Free Detection** Wei QIN *Yantai Institute of Coastal Zone Research, CAS, China*
11:20-11:35	I-72	**Smart Electrochemical Platforms for Environmental and Biomedical Diagnostics: Toward Practical and Portable Analysis** Orawon CHAILAPAKUL *Chulalongkorn University, Thailand*
11:35-11:45	O-98	**Core-sheath braided yarn wearable bioelectronics for sweat capture and multimodal sensing** Xueping ZHANG *Donghua University, China*
11:45-11:55	O-99	**Interface Regulation for Photoelectrochemical Analysis** Liuyong HU *Wuhan Institute of Technology, China*
11:55-12:05	O-100	**Self-powered biosensor: from analysis to therapy** Linlin WANG *Shaanxi University of Science and Technology, China*
Lunch		

Session D: I&O Lectures **Room: 4039**		
15 August (Fri.)		
Chairs	Yi-Tao LONG, Zoltán BENKŐ, Ming ZHOU	
10:50-11:05	I-66	**Confinement Controlled Electrochemistry for Single Entity Analysis** Yi-Tao LONG *Nanjing University, China*
11:05-11:20	I-74	**Bioluminescence Biosensors for large protein complexes in programed cell death modalities** Saman HOSSEINKHANI *Tarbiat Modares University, Iran*
11:20-11:35	I-75	**Porous Electrodes for Cell Analysis in Microphysiological Systems** Kosuke INO *Tohoku University, Japan*
11:35-11:45	O-101	**Monitoring Abundance and Activity of Electrochemically Inactive Protein in a Single Cell by an Atomically Precise Metal Cluster Based Electrochemical Sensor** Liang GAO *Beijing University of Technology, China*
11:45-11:55	O-102	**Single-entity resolution nanosensor reveals interfacial redox activity of stress granules** Hui GU *Hunan University of Science and Technology, China* *University of Gothenburg, Sweden*
11:55-12:05	O-103	**Real-Time Nanoscale Tracking of Single-Particle Anisotropy in Photoelectrochemistry** Haowei WANG *Nanjing University, China*
Lunch		

Session E: I&O Lectures **Room: 4040**		
15 August (Fri.)		
Chairs	Yuanhua SHAO, Zia Ur REHMAN, Vitor BRASILIENSE	
10:50-11:05	I-76	**Smart mathematical separation empowers rapid qualitative and quantitative analysis of complex systems** Hai-Long WU *Hunan University, China*
11:05-11:20	I-77	**Extending in situ Surface Enhanced Infrared Absorption Spectroscopy to Investigate Interfacial Adsorption and Functionality of Additives for Superconformal Copper Electrodeposition** Wen-Bin CAI *Fudan University, China*
11:20-11:35	I-78	**In situ monitoring of electrocatalytic hydrogen production reactions by using SERS** Wei XIE *Nankai University, China*
11:35-11:45	O-104	**Anion Modulated Reductive Proton-Coupled Electron Transfer** Lie WU *Nankai University & Changchun Institute of Applied Chemistry, CAS, China*
11:45-11:55	O-105	**Investigating enhanced ethanol selectivity on Ag-Based catalysts for CO_2 electroreduction by operando EC-SERS** Ping-Ping FANG *Sun Yat-Sen University (Shenzhen), China*
11:55-12:05	O-106	**Application of Chemometrics in Nanosensing Measurement** Yong WANG *Nanchang University, China*
Lunch		