

Scientific Program for Oral Presentations

| Session 1 Optical Spectroscopic Analysis (OS) | | |
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| Room: Functional Hall B | | |
| 6th May (Sat.) | | |
| Chairs | Bin Ren, <i>Xiamen University, China</i> Juyoung Yoon, <i>Ewha Womans University, Korea</i> | |
| 13:30-14:00 | 6p-OS-K1 | High Efficiency Organic Solar Cells Based on Absorption-complementary Donor and Acceptor Photoovoltaic Materials Yongfang Li, <i>Institute of Chemistry, China</i> |
| 14:00-14:30 | 6p-OS-K2 | Fluorescent Probes and Activable Photosensitizers Juyoung Yoon, <i>Ewha Womans University, Korea</i> |
| 14:30-14:50 | 6p-OS-I1 | Highly Chemiluminescent and Fluorescent Acridinium Ester/Carbon Nanoparticles for Array Sensing of Metal Ions Hua Cui, <i>University of Science and Technology of China, China</i> |
| 14:50-15:10 | 6p-OS-I2 | High Temporal and Spatial Resolution Electrochemical Raman Spectroscopy Bin Ren, <i>Xiamen University, China</i> |
| 15:10-15:30 | 6p-OS-I3 | Electrochemical Analysis of Disease Marker Proteins with Clinical Applications Genxi Li, <i>Nanjing University, China</i> |
| Coffee Break | | |
| Poster Presentation, 15:50-17:50, Poster Lobby | | |
| Dinner | | |
| 7th May (Sun.) | | |
| Chairs | Yun-Bao Jiang, <i>Xiamen University, China</i> Jaebum Choo, <i>Hanyang University, Korea</i> | |
| 8:30-9:00 | 7a-OS-K1 | Integrated SERS-based Microfluidic Platforms for Automatic Immunoassay Jaebum Choo, <i>Hanyang University, Korea</i> |
| 9:00-9:30 | 7a-OS-K2 | Molecular Interaction via NMR Spectroscopy from Blood Plasma to In-Cell Maili Liu, <i>Wuhan Institute of Physics and Mathematics, China</i> |
| 9:30-9:50 | 7a-OS-I1 | Amplified Sensing via Aggregation upon Binding of the Analyte Yun-Bao Jiang, <i>Xiamen University, China</i> |
| 9:50-10:10 | 7a-OS-I2 | Real-time Tracking of Cancer Cells through Fluorescence and Electrochemical Biosensors Xuemei Wang, <i>Southeast University, China</i> |
| 10:10-10:30 | 7a-OS-I3 | Development and Characterization of a Liquid-core/liquid-cladding Optical Waveguide for Chemical Analysis Kin-ichi Tsunoda, <i>Gunma University, Japan</i> |
| Coffee Break | | |
| Chairs | Xuemei Wang, <i>Southeast University, China</i> Morasso Carlo, <i>Fondazione Don Carlo Gnocchi, Italy</i> | |
| 10:50-11:05 | 7a-OS-O1 | Label-free Detection of Noble Metal-catalyzed Reactions by Using |

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| | | Surface-enhanced Raman Spectroscopy <i>Wei Xie, Nankai University, China</i> |
| 11:05-11:20 | 7a-OS-02 | Surface Enhanced Raman Spectroscopy hyphenated with extraction for Rapid detection of Environmental Pollutants <i>Jin-Hua Zhan, Shandong University, China</i> |
| 11:20-11:35 | 7a-OS-03 | Raman Analysis of Serum of an Italian Cohort of Subjects Shows Potential in the Diagnosis of Alzheimer's Disease <i>Morasso Carlo, Fondazione Don Carlo Gnocchi, Italy</i> |
| 11:35-11:50 | 7a-OS-04 | High Temporal and Spatial Resolution Electrochemical Raman Spectroscopy <i>Kai-Chao Deng, Xiamen University, China</i> |
| Lunch | | |
| Chairs | <i>Zhangrun Xu, Northeastern University, China</i> <i>Xiandeng Hou, Sichuan University, China</i> | |
| 13:30-13:50 | 7p-OS-11 | Analytical Atomic Spectrometric Instrumentation : from Parts to Integration for New Applications <i>Xiandeng Hou, Sichuan University, China</i> |
| 13:50-14:10 | 7p-OS-12 | Highly Sensitive and Multiplexed Quantification of microRNAs Based on Nucleic Acid Amplification <i>Zheng-Ping Li, Shaanxi Normal University, China</i> |
| 14:10-14:30 | 7p-OS-13 | Unravelling Invasion Mechanism of Influenza A Virus by Quantum Dot-based Single-virus Tracking <i>Dai-Wen Pang, Wuhan University, China</i> |
| 14:30-14:45 | 7p-OS-01 | Aptasensor for Thrombin Detection Based on Wide-range Attenuated Total Reflection Surface-enhanced Infrared Absorption Spectroscopy <i>Jian Li, Nanjing University, China</i> |
| 14:45-15:00 | 7p-OS-02 | Assay of Micro-RNA in Cell Samples Based on Enhanced Resonance Light Scattering Technique <i>Qiaoli Yue, Liaocheng University, China</i> |
| 15:00-15:15 | 7p-OS-03 | A microfluidic Droplet-based FRET System for Tumor Marker Detection <i>Zhang-Run Xu, Northeastern University, China</i> |
| 15:15-15:30 | 7p-OS-04 | Smart Enzymatic Bimetallic Ag/Au Nanoshells for Nanoplasmonic Biosensing <i>Yong-Dong Jin, Chinese Academy of Sciences, China</i> |
| Coffee Break | | |
| Chairs | <i>Genxi Li, Nanjing University, China</i> <i>Zhou Chen, Hunan University, China</i> | |
| 15:50-16:10 | 7p-OS-14 | Electrochemical Monitoring of Single Cells in Real-Time <i>Wei-Hua Huang, Wuhan University, China</i> |
| 16:10-16:30 | 7p-OS-15 | Nanomaterial-based Electrochemiluminescence Analysis <i>Guobao Xu, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> |
| 16:30-16:50 | 7p-OS-16 | Background-free Optical Sensing of Biochemical Molecules using Upconversion Nanoparticles <i>Yong-Ill Lee, Changwon National University, Korea</i> |
| 16:50-17:05 | 7p-OS-05 | Graphitic Nanomaterials Based Raman Bioimaging and Analysis |

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| | | Zhuo Chen, <i>Hunan University, China</i> |
| 17:05-17:20 | 7p-OS-06 | SERS Detection of Multiple Biomarkers by Means of on Polymer Nanopillar - gold Arrays Morasso Carlo, <i>Fondazione Don Carlo Gnocchi, Italy</i> |
| 17:20-17:35 | 7p-OS-07 | A Sensitive Modified Chemiluminescence Enzymatic Immunoassay for Deoxynivalenol Yong-Jun Wu, <i>Zhengzhou University, China</i> |
| 17:35-17:50 | 7p-OS-08 | Controlled Self-assembly of Small Molecule Probes and the Related Applications in Bioanalysis Cong Yu, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> |
| 17:50-18:05 | 7p-OS-09 | Advances in Carbon Dots Enhanced Chemiluminescence: Enhancement, Mechanism and Applications Syed Niaz Ali Shah, <i>Tsinghua University, China</i> |
| Dinner | | |
| 8th May (Mon.) | | |
| Chairs | Aijun Tong, <i>Tsinghua University, China</i> Jens Hasserodt, <i>University of Lyon – ENS, France</i> | |
| 8:30-8:50 | 8a-OS-11 | Genetically Encoded Fluorescent RNA Sensor for Ratiometric Imaging of MicroRNA in Living Tumor Cells Jian-Hui Jiang, <i>Hunan University, China</i> |
| 8:50-9:10 | 8a-OS-12 | Tagging Live Cells Competent in the Expression of A Catalytically Active Enzyme (Turnover) Jens Hasserodt, <i>University of Lyon – ENS, France</i> |
| 9:10-9:25 | 8a-OS-01 | Graphene Oxide Amplified Fluorescence Anisotropy for Sensitive Biochemical Analysis Shu-Jun Zhen, <i>Southwest University, China</i> |
| 9:25-9:40 | 8a-OS-02 | Fluorescence Light-up and Ratiometric Sensors Based on Aggregation Induced Emission Property of Salicylaldehyde Hydrazones Aijun Tong, <i>Tsinghua University, China</i> |
| 9:40-9:55 | 8a-OS-03 | Two-photon Fluorescent Probe for Revealing Drug-induced Hepatotoxicity via Mapping Fluctuation of Peroxynitrite Yong Li, <i>Shandong Normal University, China</i> |
| Coffee Break | | |
| Chair | Xiurong Yang, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> | |
| 10:00-10:40 | Youth Report Awards, Best Poster Awards and Closing Ceremony | |
| Lunch | | |

| Session 2 Electroanalytical Chemistry (EC) | | |
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| Room: Functional Hall C | | |
| 6th May (Sat.) | | |
| Chairs | Xinghua Xia, <i>Nanjing University, China</i> Neso Sojic, <i>Groupe NanoSystèmes Analytiques Institut des Sciences Moléculaires, France</i> | |
| 13:30-14:00 | 6p-EC-K1 | Photoinduced Electron Transfer (PET) between DNA/Ag Fluorescent Nanoclusters and G-quadruplex/hemin Complex Erkang Wang, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> |
| 14:00-14:30 | 6p-EC-K2 | From Light-Emitting Bioswimmers to 3D Electrogenerated Chemiluminescence Neso Sojic, <i>University of Bordeaux, France</i> |
| 14:30-14:50 | 6p-EC-I1 | Enabling Bioelectrochemistry for In Vivo Analysis Lanqun Mao, <i>Institute of Chemistry, China</i> |
| 14:50-15:10 | 6p-EC-I2 | Metal Nanoparticles Embedded Carbon Film Electrodes for Electroanalysis Osamu Niwa, <i>Saitama Institute of Technology, Japan</i> |
| 15:10-15:30 | 6p-EC-I3 | Plasmonics Enhanced Spectroscopic and Electrochemical Detection of Biomolecules Xing-Hua Xia, <i>Nanjing University, China</i> |
| Coffee Break | | |
| Chairs | Yuanhua Shao, <i>Peking University, China</i> He-You Han, <i>Huazhong Agricultural University, China</i> | |
| 15:50-16:10 | 6p-EC-I4 | Application of Glass Pipettes in Analytical Chemistry Yuanhua Shao, <i>Peking University, China</i> |
| 16:10-16:30 | 6p-EC-I5 | Multimode Detection and Analysis of Single Nanoparticle Translocation and Collision Events Using Nanopore and Nanoelectrode Probes Jin He, <i>Florida International University, USA</i> |
| 16:30-16:45 | 6p-EC-O1 | Electrospun Carbon Nanofibers Composites-Based Electrochemical Sensors Tian-Yan You, <i>Jiangsu University, China</i> |
| 16:45-17:00 | 6p-EC-O2 | Electroanalysis and Gas Sensing based on Carbon Nanocomposites Wei Chen, <i>Chinese Academy of Sciences, China</i> |
| 17:00-17:15 | 6p-EC-O3 | Flow-based Analysis on a Compact Disk-Type Microchip with Electrogenerated Chemiluminescence Detection Takuya Okada, <i>Kyushu University, Japan</i> |
| 17:15-17:30 | 6p-EC-O4 | Application of Raman Spectra in Electrode Characterization Jun Chen, <i>Nankai University, China</i> |
| 17:30-17:45 | 6p-EC-O5 | Electrochemiluminescence Immunosensor: A Triply- Amplified Strategy and Dual Signal System He-You Han, <i>Huazhong Agricultural University, China</i> |
| 17:45-18:00 | 6p-EC-O6 | Engineering Reduced Graphene Oxides Towards an Label-free Electrochemical Immunosensor for detection of Tumor Necrosis Factor-alpha (TNF-α) Guozhen Liu, <i>Macquarie University, Australia</i> |
| Dinner | | |
| 7th May (Sun.) | | |
| Chairs | Liang-Hong Guo, <i>Research Center for Eco-environmental Science, China</i> | |

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| | J. Justin Gooding, <i>the University of New South Wales, Australia</i> | |
| 8:30-9:00 | 7a-EC-K1 | Self-Powered Biosensors Utilizing Enzymatic Bioelectrocatalysis Shelley D Minter, <i>University of Utah, USA</i> |
| 9:00-9:30 | 7a-EC-K2 | Single Entity Electrochemistry: An Electroanalytical Perspective J. Justin Gooding, <i>the University of New South Wales, Australia</i> |
| 9:30-9:50 | 7a-EC-I1 | Electrochemiluminescence Ratiometry for Bioanalysis Jing-Juan Xu, <i>Nanjing University, China</i> |
| 9:50-10:10 | 7a-EC-I2 | Magnetic Bead Based Electrochemiluminescence Detection of 8-Oxo-dG in Cellular DNA Liang-Hong Guo, <i>Research Center for Eco-environmental Science, China</i> |
| 10:10-10:30 | 7a-EC-I3 | Development on Analytical Methods for Understanding the Processes of Oxidative Stress Yang Tian, <i>East China Normal University, China</i> |
| Coffee Break | | |
| Poster Presentation, 10:30-12:30, Poster Lobby | | |
| Lunch | | |
| Chairs | Li Niu, <i>Changchun Institute of Applied Chemistry, China</i> Zhifeng Ding, <i>University of Western Ontario, London</i> | |
| 13:30-13:50 | 7p-EC-11 | Electrochemical nanopore sensing Yi-Tao Long, <i>East China University of Science & Technology, China</i> |
| 13:50-14:10 | 7p-EC-12 | Further Development of Scanning Electrochemical Microscopy as A Powerful Analytical Chemistry Tool of Single Live Cells Zhifeng Ding, <i>University of Western Ontario, London</i> |
| 14:10-14:30 | 7p-EC-13 | Our latest progress in electrochemical sensors and instrument-integrated application Li Niu, <i>Changchun Institute of Applied Chemistry, China</i> |
| 14:30-14:45 | 7p-EC-O1 | Ultra-long Hierarchical Bud-like Branched TiO₂ Nanowire Arrays for Dye-Sensitized Solar Cells Yi-Yi Liu, <i>Hainan Normal University, China</i> |
| 14:45-15:00 | 7p-EC-O2 | Single Cell Electrochemical Analysis De-Chen Jiang, <i>Nanjing University, China</i> |
| 15:00-15:15 | 7p-EC-O3 | High-bandwidth Nanopore Sensing by Advanced Single-molecule Analysis Yi-Lun Ying, <i>East China University of Science and Technology, China</i> |
| 15:15-15:30 | 7p-EC-O4 | Electroformation of Lipid Vesicles/nanotubes and their Applications Xiao-Jun Han, <i>Harbin Institute of Technology, China</i> |
| Coffee Break | | |
| Chairs | Chunhai Fan, <i>Shanghai Institute of Applied Physics, China</i> Yang Tian, <i>East China Normal University, China</i> | |
| 15:50-16:10 | 7p-EC-14 | DNA Nanotechnology-enabled Organization for Biosensors Chunhai Fan, <i>Shanghai Institute of Applied Physics, China</i> |
| 16:10-16:30 | 7p-EC-15 | Stimuli-responsive Nanovehicles for Precise Cancer Theranostics Jun-Jie Zhu, <i>Nanjing University, China</i> |
| 16:30-16:50 | 7p-EC-16 | Electrochemical Analysis and Molecular Filtration Based on Silica Isoporous Membranes |

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| | | Bin Su, <i>Zhejiang University, China</i> |
| 16:50-17:05 | 7p-EC-05 | Effective Solid Contact for Ion-Selective Electrodes Feng-Hua Li, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> |
| 17:05-17:20 | 7p-EC-06 | Mechanical Pencil Lead-supported Nickel Sulfide/2D-Graphene Oxide as A Noble Metal-free Electrochemical Sensor for Detection of Bisphenol A Hoeil Chung, <i>Hanyang University, Korea</i> |
| 17:20-17:35 | 7p-EC-07 | In Vivo Monitoring of H₂O₂ with Polydopamine and Prussian Blue-coated Microelectrode Mei-Ning Zhang, <i>Renming University of China, China</i> |
| 17:35-17:50 | 7p-EC-08 | Electrochemical Determination of Nitrofurantoin Based on A Conducting Polymer Composite Film-modified Electrode Shu-Hua Cheng, <i>National Chi Nan University, Taiwan, China</i> |
| Dinner | | |
| 8th May (Mon.) | | |
| Chair | Xiurong Yang, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> | |
| 10:00-10:40 | Youth Report Awards, Poster Awards and Closing Ceremony | |
| Lunch | | |

| Session 3 Chromatographic Analysis (CA) | | |
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| Room: 203 | | |
| 6th May (Sat.) | | |
| Chairs | Lihua Zhang, <i>Dalin Institute of Chemical Physics, Chinese Academy of Sciences, China</i> Katsumi Uchiyama, <i>Department of Applied Chemistry, Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, Japan</i> | |
| 13:30-14:00 | 6p-CA-K1 | Deep Coverage Proteome Analysis Yukui Zhang, <i>Dalin Institute of Chemical Physics, Chinese Academy of Sciences, China</i> |
| 14:00-14:30 | 6p-CA-K2 | Analytical and Chemical Application of Ink-jet Katsumi Uchiyama, <i>Tokyo Metropolitan University, Japan</i> |
| 14:30-14:50 | 6p-CA-I1 | Novel Online Sample Preparation Media for Complicated Samples Analysis Coupling to High-performance Liquid Chromatography Gongke Li, <i>Sun Yat-sen University, China</i> |
| 14:50-15:10 | 6p-CA-I2 | Molecularly Imprinted Polymers for Separations and Extractions Jun Haginaka, <i>Mukogawa Women's University, Japan</i> |
| 15:10-15:30 | 6p-CA-I3 | New Enrichment Methods for Protein Terminome Analysis Lihua Zhang, <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China</i> |
| Coffee Break | | |
| Chairs | Yi Chen, <i>Institute of Chemistry, Chinese Academy of Sciences, China</i> Naoki Hamada, <i>Shimadzu(China), China</i> | |
| 15:50-16:10 | 6p-CA-I4 | Microfluidic-Based Immunoassays for Rapid Analysis Manabu Tokeshi, <i>Hokkaido University, Japan</i> |
| 16:10-16:30 | 6p-CA-I5 | Development-dependent Variation of Gibberellins in Floral Organs from A Single Tiny Flower of Arabidopsis Thaliana Yi Chen, <i>Institute of Chemistry, Chinese Academy of Sciences, China</i> |
| 16:30-16:45 | 6p-CA-O1 | Identification of Three Qi-lacquers Using in Situ Pyrolysis/Methylation-gas Chromatography-mass Spectrometry Ling He, <i>Xian Jiaotong University, China</i> |
| 16:45-17:00 | 6p-CA-O2 | Development of An Online Dilution Large Volume Injection Technique for UHPLC-MS/MS with Application to the Analysis of Trace Analytes in Complex Matrix Ting Zhou, <i>South China University of Technology, China</i> |
| 17:00-17:15 | 6p-CA-O3 | Non-targeted Analysis of Organic Pollutants in Environmental Samples by Comprehensive Two-dimensional Gas Chromatography Coupled with Time-of-Flight Mass Spectrometry Lin Qiao, <i>Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China</i> |
| 17:15-17:30 | 6p-CA-O4 | Developed on-line Pre-treatment System with SFE and LC/MS for Food Analysis Naoki Hamada, <i>Shimadzu(China), China</i> |
| 17:30-17:45 | 6p-CA-O5 | Pentagon-Fused Fullerenes Captured by Chlorination/Hydrogenation and Separated by HPLC |

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| | | Suyuan Xie, <i>Xiamen University, China</i> |
| Dinner | | |
| 7th May (Sun.) | | |
| Chairs | Peter de Boves Harrington, <i>Ohio University, USA</i> Hailin Wang, <i>Research Center for Eco-Environmental Sciences, CAS, China</i> | |
| 8:30-9:00 | 7a-CA-K1 | Chemometrics-assisted Mathematization and Informatization of Analytical Chemistry and Emergence of New Research Paradigm Ru-Qin Yu, <i>Hunan University, China</i> |
| 9:00-9:30 | 7a-CA-K2 | Single Set Validation for Classification and Calibration Leads to False Conclusions Peter de Boves Harrington, <i>Ohio University, USA</i> |
| 9:30-9:50 | 7a-CA-I1 | Capture of Dynamic and Transient Reca Nucleofilaments Using Fast Capillary Electrophoresis Hailin Wang, <i>Research Center for Eco-Environmental Sciences, China</i> |
| 9:50-10:10 | 7a-CA-I2 | Enhancement in Lipidomic Analysis by LC-ESI-MS/MS Myeong Hee Moon, <i>Yonsei University, Korea</i> |
| 10:10-10:30 | 7a-CA-I3 | Characterization of the Solute Accumulation Selectivity of Water/Hydrophobic Interfaces by Surface-Bubble-Modulated Liquid Chromatography Masami Shibukawa, <i>Saitama University, Japan</i> |
| Coffee Break | | |
| Poster Presentation, 10:30-12:30, Poster Lobby | | |
| Lunch | | |
| Chairs | Doo Soo Chung, <i>Seoul National University, Korea</i> Zhi-Yong Wu, <i>Northeastern University, China</i> | |
| 13:30-13:50 | 7p-CA-I1 | The Profiling of Tissue-Specific Differences of 5-Formylcytosine and 5-Carboxylcytosine by Sheathless Interfaced CESI-MS/MS Xin-Xiang Zhang, <i>Peking University, China</i> |
| 13:50-14:10 | 7p-CA-I2 | Optical Force Chromatography Separating Molecules Using Mechanical Forces of Light Doo Soo Chung, <i>Seoul National University, Korea</i> |
| 14:10-14:30 | 7p-CA-I3 | Aspects of Recent Developments on Smart Quantitative Analysis of Complex Chemical Systems Using High-order Analytical Instruments Coupled with High-order Tensorial Calibration Methods Hai-Long Wu*, Xiao-Li Yin, Hui-Wen Gu, Ru-Qin Yu, <i>Hunan University, China</i> |
| 14:30-14:45 | 7p-CA-O1 | An Integrated Analytical Platform for Direct Determination of Compounds with Wide Polarity and Content Ranges by Online PLE-TFC-RPLC-HILIC-MS/MS Qing-Qing Song, <i>Beijing University of Chinese Medicine, China</i> |
| 14:45-15:00 | 7p-CA-O2 | Cyclodextrin Modification for Versatile Drug Chiral Separation Wei-Hua Tang, <i>Nanjing University of Science and Technology, China</i> |
| 15:00-15:15 | 7p-CA-O3 | Applications of Capillary Electrophoresis in Forensic Sciences Can Hu, <i>Ministry of Public Security, China</i> |
| 15:15-15:30 | 7p-CA-O4 | Identification and Quantitative Analysis of Methanol Catalytic Selective Oxidation Products Using GC-MS Sheng-Fu Ji, <i>Beijing University of Chemical Technology, China</i> |

| Coffee Break | | |
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| Chairs | Hian-Kee Lee, <i>National University of Singapore, Singapore</i> Myeong Hee Moon, <i>Yonsei University, Korea</i> | |
| 15:50-16:10 | 7p-CA-I4 | New Methods for the Analysis of Low Abundance Post-Translational Modifications of Proteins Mingliang Ye, <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China</i> |
| 16:10-16:30 | 7p-CA-I5 | Experiences of Sorbent-Based Extraction from Aqueous Samples: The Road to Full Automation Hian Kee Lee, <i>National University of Singapore, Singapore</i> |
| 16:30-16:50 | 7p-CA-I6 | Capillary Electrochromatographiccolumn Technology for Pharmaceutical Analysis Zilin Chen, <i>Wuhan University, China</i> |
| 16:50-17:05 | 7p-CA-O5 | 2-D Metal-Organic Frameworks Nanosheets for Analytical Applications Zhi-Yuan Gu, <i>Nanjing Normal University, China</i> |
| 17:05-17:20 | 7p-CA-O6 | Fabrication of Hydrazone Covalent Organic Frameworks and Application to Solid Phase Microextraction Qiong Jia, <i>Jilin University, China</i> |
| 17:20-17:35 | 7p-CA-O7 | A New Lactone from the Ficus Auriculata Lour Tai-Ming Shao, <i>Hainan Normal University, Hainan Institute of Science and Technology, China</i> |
| 17:35-17:50 | 7p-CA-O8 | Boolean Calculation Modulated Smart Chromatographic Column Lu-Jun Wang, <i>Southwest Medical University, China</i> |
| Dinner | | |
| 8 th May (Mon.) | | |
| Chair | Xiurong Yang, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> | |
| 10:00-10:40 | Youth Report Awards, Poster Awards and Closing Ceremony | |
| Lunch | | |

| Session 4 Mass Spectrographic Analysis (MS) | | |
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| Room: 202 | | |
| 6 th May (Sat.) | | |
| Chairs | Zheng Ouyang, <i>Tsinghua University, China</i> Oliver J. Schmitz, <i>University of Duisburg-Essen, Germany</i> | |
| 13:30-14:00 | 6p-MS-K1 | Modern Analytical Techniques for the Study on the Origin of Life Yufen Zhao, <i>Xiamen University, China</i> |
| 14:00-14:30 | 6p-MS-K2 | 2D-LC and 2D-GC Coupled with IMS-qTOF-MS as A Potential Tool for the Analysis of Traditional Chinese Herbs Oliver. J. Schmitz, <i>University of Duisburg-Essen, Germany</i> |
| 14:30-14:50 | 6p-MS-I1 | Laser Desorption Ionization Using Microstructured Anti-Reflection Metal Surfaces for Mass Spectrometry Analysis Zheng Ouyang, <i>Tsinghua University, China</i> |
| 14:50-15:10 | 6p-MS-I2 | Mass Spectrometry-Based Metabolomics for Precision Medicine Guowang Xu, <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China</i> |
| 15:10-15:30 | 6p-MS-I3 | Old Wine in New Bottles–New Capabilities in Lipid Analysis Enabled by Classic Photochemical Reactions Yu Xia, <i>Tsinghua University, China</i> |
| Coffee Break | | |
| Poster Presentation, 15:50-17:50, Poster Lobby | | |
| Dinner | | |
| 7 th May (Sun.) | | |
| Chairs | Zong-Wei Cai, <i>Hong Kong Baptist University, China</i> Evgeny Nikolaev, <i>Skolkovo Institute of Science and Technology, Russia</i> | |
| 8:30-9:00 | 7a-MS-K1 | Ultrahigh Resolution in Mass Spectrometry for Analytical Purposes Evgeny Nikolaev, <i>Skolkovo Institute of Science and Technology, Russia</i> |
| 9:00-9:20 | 7a-MS-I1 | MALDI-TOFMS Imaging and Recent Applications Zongwei Cai, <i>Hong Kong Baptist University, China</i> |
| 9:20-9:40 | 7a-MS-I2 | Development of New Ion Source and Desorption in Mass Spectrometry Md Ahsan Habib, <i>University of Dhaka, Bangladesh</i> |
| 9:40-10:00 | 7a-MS-I3 | Direct Molecular Characterization of Biological Samples Using Extractive Electrospray Ionization Mass Spectrometry Huanwen Chen, <i>East China University of Technology, China</i> |
| 9:40-10:20 | 7a-MS-I4 | Investigation of Brain Tumors by Online Liquid Extraction Combined with Electrospray Ionization and Ultrahigh Resolution FTICR Mass spectrometry Igor Popov, <i>Moscow Institute of Physics and Technology, Russia</i> |
| Coffee Break | | |
| Chairs | Qiao Liang, <i>Fudan University, China</i> Vitaliy Chagovets, <i>Ministry of Healthcare of the Russian Federation, Russia</i> | |
| 10:50-11:05 | 7a-MS-O1 | Distribution of Plutonium in Marginal Seas off China: Transportation and Scavenging Processes in the Yangtze River estuary and the East China Sea Zhi-Yong Liu, <i>Soochow University, China</i> |

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| 11:05-11:20 | 7a-MS-O2 | Distribution, Correlation and Variability of Urinary Concentrations of Bisphenols, Benzophenones, Parabens, and Triclosan Among Pregnant Women Hong-Zhi Zhao, <i>Hong Kong Baptist University, China</i> |
| 11:20-11:35 | 7a-MS-O3 | Bacteria MS: An Open Source Tool for Bacterial Whole Cell Typing by Mass Spectra Pattern Matching with in silico Hypothesis Validation Liang Qiao, <i>Fudan University, China</i> |
| 11:35-11:50 | 7a-MS-O4 | Comparison of Tissue Spray Mass Spectrometry and Shotgun Lipidomics Vitaliy Chagovets, <i>Ministry of Healthcare of the Russian Federation, Russia</i> |
| Lunch | | |
| Chairs | Peng-Yuan Yang, <i>Fudan University, China</i> Fang-Jun Wang, <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China</i> | |
| 13:30-13:50 | 7p-MS-I1 | Mass Spectrometric Study of Organic Reactive Intermediates Yuanjiang Pan, <i>Zhejiang University, China</i> |
| 13:50-14:10 | 7p-MS-I2 | Online Monitoring of Enzymatic Reactions Using Time-Resolved Desorption Electrospray Ionization Mass Spectrometry Hao Chen, <i>Ohio University, USA</i> |
| 14:10-14:30 | 7p-MS-I3 | Identification of Intact Glycopeptides at A Proteome Scale—pGlyco++ Peng-Yuan Yang, <i>Fudan University, China</i> |
| 14:30-14:45 | 7p-MS-O1 | Probing the Lysine Proximal Microenvironments within Membrane Protein Complexes by Active Dimethyl Labeling and Mass Spectrometry Fang-Jun Wang, <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China</i> |
| 14:45-15:00 | 7p-MS-O2 | MS Based Technological Platform for Biological Sample Analysis in Obstetrics, Gynecology and Perinatology Vladimir Frankevich, <i>Ministry of Healthcare of the Russian Federation, Russia</i> |
| 15:00-15:15 | 7p-MS-O3 | Rapid Identification of Regulated Organic Chemical Compounds in Toys Using Ambient Ionization and A Miniature Mass Spectrometry System Qiang Ma, <i>Chinese Academy of Inspection and Quarantine, China</i> |
| 15:15-15:30 | 7p-MS-O4 | Illumination-assisted Droplet Spray Ionization: in Situ Analysis and Real-time Monitoring of Photocatalytic Reactions Jie Jiang, <i>Harbin Institute of Technology, China</i> |
| Coffee Break | | |
| Chairs | Hongying Zhong, <i>Central China Normal University, China</i> Takahisa Tsugoshi, <i>National Institute of Advanced Industrial Science and Technology (AIST), Japan</i> | |
| 15:50-16:10 | 7p-MS-I4 | Mass Spectrometric Imaging Based on Photoelectron Capture Ionization on Surfaces of Semiconductors Hongying Zhong, <i>Central China Normal University, China</i> |
| 16:10-16:30 | 7p-MS-I5 | Mass Spectrometry and Imaging of Particles Zongxiu Nie, <i>Institute of Chemistry, China</i> |
| 16:30-16:50 | 7p-MS-I6 | In situ Mass Spectrometry for Metabolism Study of Single Live Neuron Cells Guangming Huang, <i>University of Science and Technology of China, China</i> |
| 16:50-17:05 | 7p-MS-O5 | Bubble Bursting for the Preconcentration and Desalting of Organic Solutes Konstantin Chingina, <i>East China University of Technology, China</i> |

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| 17:05-17:20 | 7p-MS-O6 | Rapid Analysis of Residual Styrene Monomer and Oligomers in Polystyrene Using Fragmentless Ionization Mass Spectrometry Takahisa Tsugoshi, <i>National Institute of Advanced Industrial Science and Technology (AIST), Japan</i> |
| 17:20-17:35 | 7p-MS-O7 | Rethink GC-MS: Towards a Simple and Accurate GC-MS Analysis to Reveal Unknown Compounds Chua chun Kiang, <i>Chemo Power Technology Pte Ltd, Singapore</i> |
| 17:35-17:50 | 7p-MS-O8 | Investigation of stimuli-mediated lipids variations on single cell surface by ToF-SIMS Xin Hua, <i>East China University of Science & Technology, China</i> |
| 17:50-18:05 | 7p-MS-O9 | Rapid and High Throughput Determination of 129I Activity and 129I/127I Atom Ratio in Environmental Samples by Solvent Extraction Coupled to ICP-QQQ Guo-Sheng Yang, <i>Hirosaki University, Japan</i> |
| Dinner | | |
| 8th May (Mon.) | | |
| Chairs | Zeper Abliz, <i>Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, China</i> Guosheng Yang, <i>Institute of Radiation Emergency Medicine, Hirosaki University, Japan</i> | |
| 8:30-8:50 | 8a-MS-I1 | A Micro-region in situ Metabolomics Method to Classify Benign and Malignant Human Thyroid Cancer using Ambient Mass Spectrometry Imaging Zeper Abliz, <i>Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, China</i> |
| 8:50-9:05 | 8a-MS-O1 | Probing the Electron Beam Induced Reduction of Graphite Oxide by In Situ X-ray Photoelectron Spectroscopy/Mass Spectrometer Chun-Hua Zhu, <i>China Academy of Engineering Physics, China</i> |
| 9:05-9:20 | 8a-MS-O2 | Assembly and Activation of Complement Component C1 in Complex with IgG Monitored by Native Mass Spectrometry Guan-Bo Wang, <i>Utrecht University, Netherlands Proteomics Centre, Netherlands, Nanjing Normal University, China</i> |
| 9:20-9:35 | 8a-MS-O3 | LC-MS Bioanalysis of Adalimumab in Human Plasma by Nano-surface and Molecular-orientation Limited (nSMOL) Proteolysis Jin-Ting Yao, <i>Shimadzu (China), China</i> |
| Coffee Break | | |
| Chair | Xiurong Yang, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> | |
| 10:00-10:40 | Youth Report Awards, Poster Awards and Closing Ceremony | |
| Lunch | | |

| Session 5 Imaging Analysis (IA) | | |
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| Room: V302 | | |
| 6th May (Sat.) | | |
| Chairs | Israel Schechter, <i>Technion-Israel Institute of Technology, Israel</i> Li-Jun Wan, <i>Institute of Chemistry, Chinese Academy of Science (CAS), and University of Science and Technology of China (USTC), China</i> | |
| 13:30-14:00 | 6p-IA-K1 | Surface Molecular Modification for Analytical Chemistry: Structure and STM Imaging Li-Jun Wan, <i>Institute of Chemistry, Chinese Academy of Science (CAS), and University of Science and Technology of China (USTC), China</i> |
| 14:00-14:30 | 6p-IA-K2 | Bio-Scanning Electrochemical Microscopy and Electrochemical MALDI Plates for Bacteria Detection Huber H. Girault, <i>Federal Polytechnic School of Lausanne, Switzerland</i> |
| 14:30-14:50 | 6p-IA-I1 | Sensitive Bioimaging of Cellular Functional Biomolecules Huangxian Ju, <i>Nanjing University, China</i> |
| 14:50-15:10 | 6p-IA-I2 | Detection and Mapping of Trace Materials on Surfaces Under Ambient Conditions using Multiphoton Electron Extraction Spectroscopy (MEES) Israel Schechter, <i>Technion-Israel Institute of Technology, Israel</i> |
| 15:10-15:30 | 6p-IA-I3 | Single Molecule Spectroscopy of Plasmonic Metal Nanoparticles in Living Cells Yan He, <i>Tsinghua University, China</i> |
| Coffee Break | | |
| Chairs | Frédéric Kanoufi, <i>Université Paris Diderot-CNRS, France</i> Zhen Li, <i>Medical College of Soochow University, China</i> | |
| 15:50-16:10 | 6p-IA-I4 | Optical Microscopies for Mechanistic Nano-Imaging of (Electro) Chemical Processes Frédéric Kanoufi, <i>Université Paris Diderot-CNRS, France</i> |
| 16:10-16:30 | 6p-IA-I5 | Ultra-highly sensitive and dynamic fluorescence imaging of ROS in live cells and in vivo Bo Tang, <i>Shandong Normal University, China</i> |
| 16:30-16:45 | 6p-IA-O1 | Dual Aggregation-Induced Emission for Enhanced Fluorescence Sensing of Furin Activity in Vitro and in Living Cells Gao-Lin Liang, <i>University of Science and Technology of China, China</i> |
| 16:45-17:00 | 6p-IA-O2 | Phospholipase A2-responsive Phosphate Micelles loaded on UCNPs for Imaging Prostate Cancer Cells Mirkomil Sharipov, <i>Changwon National University, Korea</i> |
| 17:00-17:15 | 6p-IA-O3 | Design of Biosensor for Cancer Cells Detection Based on FNDs Yuan Zhuang, <i>Huazhong University of Science and Technology, China</i> |
| 17:15-17:30 | 6p-IA-O4 | Fluorescent Probes for Cancer Cells Based on Micro-environmental Responses Xiao-Jun Peng, <i>Dalian University of Technology, China</i> |
| 17:30-17:45 | 6p-IA-O5 | Ultrasmall Nanotheranostic Agents for Multimodal Imaging and Therapy Of Cancer Zhen Li, <i>Medical College of Soochow University, China</i> |
| Dinner | | |

| 7th May (Sun.) | | |
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| Chairs | Akihiro Kusumi, <i>Kyoto University, Japan</i> Xiaobing Zhang, <i>Hunan University, China</i> | |
| 8:30-9:00 | 7a-IA-K1 | Very Transient Molecular Complexes Enable Signal Transduction: Findings by Single-Molecule Tracking Akihiro Kusumi, <i>Kyoto University, Japan</i> |
| 9:00-9:30 | 7a-IA-K2 | Plasmonic Imaging of Electrochemical Phenomena Nongjian Tao, <i>Arizona State University, USA</i> |
| 9:30-9:50 | 7a-IA-I1 | Development of Efficient Fluorescent Probes for Bio-imaging Applications Xiaobing Zhang, <i>Hunan University, China</i> |
| 9:50-10:10 | 7a-IA-I2 | Simultaneous Optical and Electrochemical Recordings of Single Nanoparticle Electrochemistry Wei Wang, <i>Nanjing University, China</i> |
| 10:10-10:30 | 7a-IA-I3 | Not 1:1 Detection of Biomolecules Fan Xia, <i>China University of Geosciences, China</i> |
| Coffee Break | | |
| Chairs | Kelvin Sze-Yin Leung, <i>Hong Kong Baptist University, China</i> Aiguo Wu, <i>Chinese Academy of Sciences, China</i> | |
| 10:50-11:05 | 7a-IA-O1 | Neuropeptide Y Y1-A Novel Receptors for Actively Targeted Delivery Nanoparticles in Cancer Therapy Aiguo Wu, <i>Chinese Academy of Sciences, China</i> |
| 11:05-11:20 | 7a-IA-O2 | LA-ICP-MS Elemental Imaging for Drug Development and Therapeutic Drug Monitoring Kelvin Sze-Yin Leung, <i>Hong Kong Baptist University, China</i> |
| 11:20-11:35 | 7a-IA-O3 | High-Performance MRI Contrast Agents for Imaging and Analysis Jin-Hao Gao, <i>Xiamen University, China</i> |
| 11:35-11:50 | 7a-IA-O4 | Components Recognized and Interaction Forces Measured of Polymer Bonded Explosive by Atomic Force Microscopy Jin-Jiang Xu, <i>People's Republic of China, China</i> |
| Lunch | | |
| Chairs | Lehui Lu, <i>State Key Laboratory of Electroanalytical Chemistry, China</i> Xue-Bo Yin, <i>Nankai University, China</i> | |
| 13:30-13:50 | 7p-IA-I1 | Computerized Tomography Imaging Nanoprobes Lehui Lu, <i>State Key Laboratory of Electroanalytical Chemistry, China</i> |
| 13:50-14:10 | 7p-IA-I2 | Dual-site Fluorescent Probe for Visualizing the Metabolism of Cys in Living Cells Caixia Yin, <i>Shanxi University, China</i> |
| 14:10-14:30 | 7p-IA-I3 | Spectroscopic Probes and Imaging Analysis (2017) Hui-Min Ma, <i>Institute of Chemistry, Chinese Academy of Sciences</i> |
| 14:30-14:45 | 7p-IA-O1 | Light-triggered Assembly of Gold Nanoparticles for Tumour Theranostics Hai-Bin Shi, <i>Soochow University, China</i> |
| 14:45-15:00 | 7p-IA-O2 | Two Dimensional Nanoprobe for MicroRNA Intracellular Analysis and Biomedical Application Haifeng Dong, <i>University of Science and technology Beijing, China</i> |
| 15:00-15:15 | 7p-IA-O3 | Synthesis and Functionalization of Fluorescent Carbon Nanodots for Bioimaging |

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| | | Applications Chang-Qing Yi, <i>Sun Yat-Sen University, China</i> |
| 15:15-15:30 | 7p-IA-O4 | RGD Peptide-Targeted Polyethylenimine-Entrapped Gold Nanoparticles Radiolabeled with 99mTc for Targeted SPECT/CT Imaging of Orthotopic Model of Human Hepatocellular Carcinoma Xiang-Yang Shi, <i>Donghua University, China</i> |
| Coffee Break | | |
| Poster Presentation, 15:50-17:50, Poster Lobby | | |
| Dinner | | |
| 8th May (Mon.) | | |
| Chairs | Yan He, <i>Tsinghua University, China</i> Xiangyang Shi, <i>Donghua University, China</i> | |
| 8:30-8:50 | 8a-IA-I1 | Single Molecule Spectroscopy of Plasmonic Metal Nanoparticles in Living Cells Yan He, <i>Tsinghua University, China</i> |
| 8:50-9:10 | 8a-IA-I2 | DNA-Mediated Binding Assays of Nucleic Acids and Proteins with a Triplex-Molecular Switch Ronghua Yang, <i>Changsha University of Science and Technology, China</i> |
| 9:10-9:25 | 8a-IA-O1 | Smart Human Serum Albumin-As₂O₃ Nanodrug with Self-amplified Folate Receptor-targeting Ability for Chronic Myeloid Leukemia Treatment Yong-Bo Peng, <i>Hunan University, China</i> |
| 9:25-9:40 | 8a-IA-O2 | A DNA-directed covalent conjugation fluorescence probe for in vitro detection of functional matrix metalloproteinases Nan Li, <i>Tsinghua University, China</i> |
| Coffee Break | | |
| Chair | Xiurong Yang, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> | |
| 10:00-10:40 | Youth Report Awards, Poster Awards and Closing Ceremony | |
| Lunch | | |

| Session 6 Food, Pharmaceutical and Environmental Analysis (FP) | | |
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| Room: Functional Hall D | | |
| 6th May (Sat.) | | |
| Chairs | Hongmei Li, <i>National Institute of Metrology, Canada</i> X. Chris Le, <i>University of Alberta, Canada</i> | |
| 13:30-14:00 | 6p-FP-K1 | Arsenic Speciation in the Environment and Identification of New Arsenic Metabolites of Toxicological Relevance X. Chris Le, <i>University of Alberta, Canada</i> |
| 14:00-14:30 | 6p-FP-K2 | Quality Control of Panax Species Based on Glyco-analysis Shaoping Li, <i>University of Macau, China</i> |
| 14:30-14:50 | 6p-FP-I1 | The Technologies of Chemical Metrology and Quality Assurance of Measurement Results in Food Analysis Hongmei Li, <i>National Institute of Metrology, Chinaeng</i> |
| 14:50-15:10 | 6p-FP-I2 | Recent Urban Air Pollution in Japan from the View Point of Polycyclic Aromatic Hydrocarbons in PM_{2.5} Kazuichi Hayakawa, <i>Institute of Nature and Environmental Technology, Japan</i> |
| 15:10-15:30 | 6p-FP-I3 | Fluorescence Sensing of Lead Based Perovskite Xi Chen, <i>Xiamen University, China</i> |
| Coffee Break | | |
| Chairs | Xi Chen, <i>Xiamen University, China</i> I-Ming Hsing, <i>the Hong Kong University of Science and Technology, China</i> | |
| 15:50-16:10 | 6p-FP-I4 | Single Nanoparticle-Based Dark-Field Microscopy Imaging Technique and its Applications in Analytical Chemistry Cheng Zhi Huang, <i>Southwest University, China</i> |
| 16:10-16:30 | 6p-FP-I5 | Enzyme-Free Molecular Diagnostics Exploiting Thermodynamics and Kinetics of DNA Self-Assembly Reactions I-Ming Hsing, <i>the Hong Kong University of Science and Technology, China</i> |
| 16:30-16:45 | 6p-FP-O1 | Fluorescence Resonance Energy Transfer Between Carbon Dots and DOX for Real-time Monitoring of Drugs Release Yang Shu, <i>Northeastern University, China</i> |
| 16:45-17:00 | 6p-FP-O2 | Sensitive and Quantitative Immunochromatographic Assays (ICAs) and Their Application in Food Analysis An-Ping Deng, <i>Soochow University, China</i> |
| 17:00-17:15 | 6p-FP-O3 | Analysis of Fungal Development and Aflatoxin Production with Nanomaterials-based Biosensors Zhi-Song Lu, <i>Southwest University, China</i> |
| 17:15-17:30 | 6p-FP-O4 | On-line in-syringe Sugaring-out Liquid-liquid Extraction Technique for HPLC-MS/MS Determination of Pesticides in Juices Irina Timofeeva, <i>Saint Petersburg State University, Russia</i> |
| 17:30-17:45 | 6p-FP-O5 | A Paper Based Cantilever Sensor for Detecting Hydrocarbons via Cellphone Camera Xing-Cai Qin, <i>Nanjing University, China</i> |

| Dinner | | |
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| 7th May (Sun.) | | |
| Chairs | Xing-Fang Li, <i>University of Alberta, Canada</i> Yuliang Zhao, <i>National Centre for Nanosciences and Technology, China</i> | |
| 8:30-9:00 | 7a-FP-K1 | Trends and Current Challenges in Trace Elements Determination in Crude Oil and Related Matrices Érico M. M. Flores, <i>Federal University of Santa Maria, Brazil</i> |
| 9:00-9:30 | 7a-FP-K2 | Analysis of Nano/Bio Interface Interactions for Nanomaterials Safety and Medical Applications Yuliang Zhao, <i>National Centre for Nanosciences and Technology, China</i> |
| 9:30-9:50 | 7a-FP-I1 | Sweetened Swimming Pools Xing-Fang Li, <i>University of Alberta, Canada</i> |
| 9:50-10:10 | 7a-FP-I2 | Sensitive Nanofluidic Sensing in Glass Conical Nanopores Yao-Qun Li, <i>Xiamen University, China</i> |
| 10:10-10:30 | 7a-FP-I3 | Magnetic RNA Nanoflowers for Co-drug Delivery and Targeted Therapy Shusheng Zhang, <i>Linyi University, China</i> |
| Coffee Break | | |
| Chairs | Yaoqun Li, <i>Xiamen University, China</i> | |
| 10:50-11:05 | 7a-FP-O1 | The Fukushima Daiichi Nuclear Power Plant accident, its Six Years Fluctuation of the Environmental Radiocesium Contamination in the Tokyo Metropolitan Masanobu Ishida, <i>Kindai University, Japan</i> |
| 11:05-11:20 | 7a-FP-O2 | An array Fluorescent Biosensor Based on Planar Waveguide for Multi-analyte Determination in Water Samples Lan-Hua Liu, <i>Tsinghua University, China</i> |
| 11:20-11:35 | 7a-FP-O3 | A high-throughput Nanofibers Mat-based Solid-phase Extraction for the Simple, Rapid and Sensitive Determination of Endocrine-disrupting Chemicals Qian Xu, <i>Southeast University, China</i> |
| 11:35-11:50 | 7a-FP-O4 | Self-powered NO₂ Gas Sensor Based on SiNWs/ITO Heterojunction Dong Liu, <i>Zhejiang University, China</i> |
| 11:50-12:05 | 7a-FP-O5 | Innovation of Lab Equipment Afterservice in China: Activate Surplus Asset、Joint Maintenance and Financial Services Ziyuan Guo, <i>Easy Lab, China</i> |
| Lunch | | |
| Chairs | Jinhua Zhan, <i>Shandong University, China</i> Haitao Lu, <i>Shanghai Jiao Tong University, China</i> | |
| 13:30-13:50 | 7p-FP-I1 | Metabolomics Facilitated the Characterization of Functional Small Molecules Towards a Diversity of Biological Innovations Haitao Lu, <i>Shanghai Jiao Tong University, China</i> |
| 13:50-14:10 | 7p-FP-I2 | Selective Adsorption of Proteins with Polyoxometalate-A Case Study for the Improvement of Selectivity with Octamolybdate-MOFs Composite Jian-Hua Wang, <i>Northeastern University, China</i> |
| 14:10-14:30 | 7p-FP-I3 | the Application of Fluorescence Fingerprint and Amino Acid Analyzer in Food Analysis Miao Sun, <i>Hitachi High-Technologies Corporation, China</i> |

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| 14:30-14:45 | 7p-FP-O1 | Toxicant analysis for Marine Food Products Christian Zhou, <i>Shanghai Titan Scientific Co., Ltd., China</i> |
| 14:45-15:00 | 7p-FP-O2 | Long-Term and Inexpensive Monitoring of Total Organic Carbon by Coupling High-Efficiency Photo-oxidation Vapor Generation to Miniaturized Point Discharge OES Cheng-Bin Zheng, <i>Sichuan University, China</i> |
| 15:00-15:15 | 7p-FP-O3 | Surface Enhanced Raman Spectroscopy hyphenated with extraction for Rapid detection of Environmental Pollutants Jinhua Zhan, <i>Shandong University, China</i> |
| 15:15-15:30 | 7p-FP-O4 | Multi-analysis: from Sensing to Perception Fengyu Li, <i>Institute of Chemistry, Chinese Academy of Sciences, China</i> |
| Coffee Break | | |
| Poster Presentation, 15:50-17:50, Poster Lobby | | |
| Dinner | | |
| 8th May (Mon.) | | |
| Coffee Break | | |
| Chair | Xiurong Yang, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> | |
| 10:00-10:40 | Youth Report Awards, Poster Awards and Closing Ceremony | |
| Lunch | | |

| Session 7 Biological and Omics Bioanalysis (BO) | | |
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| Room: V301 | | |
| 6th May (Sat.) | | |
| Chairs | Huwei Liu, <i>Peking University, China</i> Lingjun Li, <i>University of Wisconsin-Madison, USA</i> | |
| 13:30-14:00 | 6p-BO-K1 | Nanobiodevices For Society 5.0; Super Smart Society Yoshinobu Baba, <i>Nagoya University, Japan</i> |
| 14:00-14:30 | 6p-BO-K2 | Painting Molecular Pictures of Biological Systems via Mass Spectrometric Imaging Lingjun Li, <i>University of Wisconsin-Madison, USA</i> |
| 14:30-14:50 | 6p-BO-I1 | Smartphone Based Diagnostics for Human Healthcare and Forensic Science Hyo-il Jung, <i>Yonsei University, Korea</i> |
| 14:50-15:10 | 6p-BO-I2 | Microfluidics-enabled Bioassay Xingyu Jiang, <i>National Center for NanoScience and Technology, China</i> |
| 15:10-15:30 | 6p-BO-I3 | Development and Applications of Analytical System for Clinical Lipidomics Huwei Liu, <i>Peking University, China</i> |
| Coffee Break | | |
| Chairs | Shih-Kang Scott Fan, <i>National Taiwan University, China</i> Peng Liu, <i>Tsinghua University, China</i> | |
| 15:50-16:10 | 6p-BO-I4 | 3D Cell-laden Hydrogel Formation and Assembly on an Electromicrofluidic Platform Shih-Kang Scott Fan, <i>National Taiwan University, China</i> |
| 16:10-16:30 | 6p-BO-I5 | Single Cell Analysis with Droplet-Based Microfluidic Technique Qun Fang, <i>Zhejiang University, China</i> |
| 16:30-16:45 | 6p-BO-O1 | Real-time Monitoring of H₂O₂ by Multifunctional Core-shell Architectures from Different Cancer Cells Lines in Normal State and After Plasma Therapy Muhammad Asif, <i>Huazhong University of Science and Technology, China</i> |
| 16:45-17:00 | 6p-BO-O2 | Probing Specific Cell Organelles by in Situ SERS Spectroscopy Shu-Ping Xu, <i>Jilin University, China</i> |
| 17:00-17:15 | 6p-BO-O3 | High-throughput Superhydrophobic Microwell Arrays for Cell-based Screening Peng Liu, <i>Tsinghua University, China</i> |
| 17:15-17:30 | 6p-BO-O4 | Development of Micro/Extended-nano Filtering Interface Using Extended-nano Pillars for Single Cell Analysis Kyojiro Morikawa, <i>The University of Tokyo, Japan</i> |
| 17:30-17:45 | 6p-BO-O5 | 2,2',4,4'- tetrabrominated Diphenyl Ether (BDE 47)-induced Oxidative Stress Enhance the Differentiation and Metabolism of 3T3-L1 Cells Chun-Xue Yang, <i>Hong Kong Baptist University, China</i> |
| Dinner | | |
| 7th May (Sun.) | | |
| Chairs | JoonMyong Song, <i>Seoul National University, Korea</i> Yanyi Huang, <i>Peking University, China</i> | |
| 8:30-9:00 | 7a-BO-K1 | Inkjet printing-based Antioxidant Enzyme Inhibition Assay Performed on Paper |

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| | | Joon Myong Song, <i>Seoul National University, Korea</i> |
| 9:00-9:30 | 7a-BO-K2 | Phosphoproteins in Extracellular Vesicles as Candidate Markers for Breast Cancer W. Andy Tao, <i>Hansen Life Science Building / Purdue University Center for Cancer Research, USA</i> |
| 9:30-9:50 | 7a-BO-I1 | Study of Peptide Post-Translational Modification Enabled by Supramolecular Receptors (in Session of Biological and Bioanalysis) Wenwan Zhong, <i>University of California, USA</i> |
| 9:50-10:10 | 7a-BO-I2 | Emulsion Single Cell Whole Genome Amplification and Sequencing Yanyi Huang, <i>Peking University, China</i> |
| 10:10-10:30 | 7a-BO-I3 | Electroanalysis for Sensitive Biosensing and Real-time Electrochemical Reaction Study Baohong Liu, <i>Fudan University, China</i> |
| Coffee Break | | |
| Chairs | Ye Liu, <i>National Center for NanoScience and Technology, China</i> Koji Nakano, <i>Kyushu University, Japan</i> | |
| 10:50-11:05 | 7a-BO-O1 | The Functional Analysis of Silver Nanorods as Adjuvant on Regulating HIV Vaccine-Induced Immunities Ye Liu, <i>National Center for NanoScience and Technology, China</i> |
| 11:05-11:20 | 7a-BO-O2 | Total Chemical Synthesis of Microperoxidase 11 and its Variants for Bioanalytical and Bioelectrochemical Purposes Koji Nakano, <i>Kyushu University, Japan</i> |
| 11:20-11:35 | 7a-BO-O3 | Application of Nucleic Acid Circuitry to Molecular Diagnostics Bing-Ling Li, <i>Chinese Academy of Sciences, China</i> |
| 11:35-11:50 | 7a-BO-O4 | A Novel Method to Construct High-Activity DNAzymes Jielin Chen, <i>Nanjing University, China</i> |
| Lunch | | |
| Chairs | Chen-Zhong Li, <i>Florida International University, USA</i> Chuan-Liu Wu, <i>Xiamen University, China</i> | |
| 13:30-13:50 | 7p-BO-I1 | Probing Low-Copy-Number Proteins in a Single Living Cell Zhen Liu, <i>Nanjing University, China</i> |
| 13:50-14:10 | 7p-BO-I2 | Enabling Microfluidic Technologies for Circulating Tumor Cell Enrichment and Single-Cell Analysis Chaoyong Yang, <i>Xiamen University, China</i> |
| 14:10-14:30 | 7p-BO-I3 | Miniaturized Neuron on Chips-From Single Cell to Brain Slice Mapping Chen-Zhong Li, <i>Florida International University, USA</i> |
| 14:30-14:45 | 7p-BO-O1 | Developing Structurally-constrained Bioactive Peptide Probes for Protein Analysis Chuan-Liu Wu, <i>Xiamen University, China</i> |
| 14:45-15:00 | 7p-BO-O2 | Construction of Biomimetic Magnetosome and its Application as a Target Delivery System for High-performance Anticancer Therapy Hai-Yan Xie, <i>Beijing Institute of Technology, China</i> |
| 15:00-15:15 | 7p-BO-O3 | Artificial Hydrophobic CF3 Bases Enable Intracellular Delivery of Nucleic Acids Cheng Jin, <i>Hunan University, China</i> |

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| 15:15-15:30 | 7p-BO-04 | Single Mole FRET Reveals the Functional and Regulating Mechanism of Eukaryotic Translation Initiation Factor eIF4A Jian-Wei Liu, <i>Fudan University, China</i> |
| Coffee Break | | |
| Poster Presentation, 15:50-17:50, Poster Lobby | | |
| Dinner | | |
| 8th May (Mon.) | | |
| Chairs | Baohong Liu, <i>Fudan University, China</i> Renzo Vanna, <i>Fondazione Don Carlo Gnocchi ONLUS, Italy</i> | |
| 8:30-8:50 | 8a-BO-11 | Graphene-based Nanomaterials and Their Applications Julia Xiaojun Zhao, <i>University of North Dakota, USA</i> |
| 8:50-9:10 | 8a-BO-12 | nSMOL: A Novel Approach to Simplify Quantitation of mAbs Lin Liu, <i>Shimadzu (China) Co., LTD, China</i> |
| 9:10-9:25 | 8a-BO-01 | Specific Fusion Protein Probe Selection from Landscape Phage Display Library and its Applications in Bioanalysis Ai-Hua Liu, <i>Qingdao University, China</i> |
| 9:25-9:40 | 8a-BO-02 | Development of a SPRI-based PCR-free Approach for the Multiplexing Detection of Circulating miRNAs Related to Multiple Sclerosis Renzo Vanna, <i>Fondazione Don Carlo Gnocchi ONLUS, Italy</i> |
| 9:40-9:55 | 8a-BO-03 | Engineering DNA Gatekeeper to Control Inner Cascade Reaction on Mimetic Artificial Cell Rui-Zi Peng, <i>Hunan University, China</i> |
| Coffee Break | | |
| Chair | Xiurong Yang, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> | |
| 10:00-10:40 | Youth Report Awards, Poster Awards and Closing Ceremony | |
| Lunch | | |

| Session 8 Young Forum and New Technologies and Methods (YF) | | |
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| Room: 201 | | |
| May 6 (Sat.) | | |
| Chairs | Chengzhi Huang, <i>Southwest University, China</i> Jianhua Wang, <i>Northeastern University, China</i> | |
| 13:30-14:00 | 6p-YF-K1 | Self powered Electrochemical Sensors by Different Energy Sources Shaojun Dong, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> |
| 14:00-14:30 | 6p-YF-K2 | Microfabricated Devices for Recapitulating Biological and Mechanical Characteristics in Disease Models Sungsu Park, <i>Sungkyunkwan University, Korea</i> |
| 14:30-14:50 | 6p-YF-I1 | Development of Photonic Crystal Sensor with Defect Structure towards Highly Sensitive Evaluation of Cell Membrane Transport Shoma Aki, <i>Osaka Prefecture University, Japan</i> |
| 14:50-15:10 | 6p-YF-I2 | An Efficient Upconversion Nanoparticles-Based LRET Strategy for Mir-122 Detection Na Na, <i>Beijing Normal University, China</i> |
| 15:10-15:30 | 6p-YF-I3 | Fluorescent Proteins as Efficient Tools to Evaluate Surface PEGylation of Silica Nanoparticles Xu-dong Wang, <i>Fudan University, China</i> |
| Coffee Break | | |
| Chairs | Xingyu Jiang, <i>National Center for NanoScience and Technology, China</i> Shaoping Li, <i>University of Macau, China</i> | |
| 15:50-16:10 | 6p-YF-I4 | Switchable Hydrophilicity Solvent Membrane-based Microextraction for HPLC-FLD Determination of Fluoroquinolones in Shrimps Aleksi Pochivalov, <i>Saint Petersburg State University, Russia</i> |
| 16:10-16:30 | 6p-YF-I5 | New Biosensors Based on Resurfaced Fluorescent Proteins Zhou Nie, <i>Hunan University, China</i> |
| 16:30-16:50 | 6p-YF-I6 | Metabolomics Study Reveals Aminoquinazolin Derivative 9d-induced ROS and G1 Arrest in A549 Lung Cancer Cells Wenrui Liu, <i>Tsinghua University, China</i> |
| 16:50-17:10 | 6p-YF-I7 | A microchip Platform for Highly Multiplexed Single Cell Protein Secretion Detection to Profile Heterogeneous Responses of Immune Cells Lu Yao, <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China</i> |
| 17:10-17:30 | 6p-YF-I8 | Enhancement of Sensitivity Using Polymer-based Photonic Crystal by Controlling of the Surface Reaction Area Okano Daiki, <i>Osaka Prefecture University, Japan</i> |
| Dinner | | |
| 7th May (Sun.) | | |
| Chairs | Xueji Zhang, <i>University of Science & Technology Beijing, China</i> Heyou Han, <i>Huazhong Agricultural University, China</i> | |
| 8:30-9:00 | 7a-YF-K1 | In Situ Spectroelectrochemistry of Organic Semiconductors |

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| | | Carita Kvarnström, <i>University of Turku, Finland</i> |
| 9:00-9:30 | 7a-YF-K2 | Bioanalysis Based on Novel Nanomaterials or Intelligent Interface Xueji Zhang, <i>University of Science & Technology Beijing, China</i> |
| 9:30-9:50 | 7a-YF-I1 | Highly Sensitive Biomedical Detection using SERS based Microfluidic Technology Rongke Gao, <i>Hefei University of Technology, China</i> |
| 9:50-10:10 | 7a-YF-I2 | Exploration of Nucleic Acid Modifications by Chemical Labeling–mass Spectrometry analysis Bi-Feng Yuan, <i>Wuhan University, China</i> |
| 10:10-10:30 | 7a-YF-I3 | Two-dimensional Titanoniobate-based Nanosheets for the Highly Efficient Enrichment and Ambient MS Detection of Phosphopeptides Qianhao Min, <i>Nanjing University, China</i> |
| Coffee Break | | |
| Poster Session, 10:30-12:30, Poster Lobby | | |
| Lunch | | |
| Chairs | Jin-Ming Lin, <i>Tsinghua University, China</i> Ronghua Yang, <i>Changsha University of Science and Technology, China</i> | |
| 13:30-13:50 | 7p-YF-I1 | Multi-channel Cell Co-culture based on Glass Microfluidic Chip Coupled with Mass Spectrometry Developed for Drug Screening Jing Wu, <i>China University of Geosciences, China</i> |
| 13:50-14:10 | 7p-YF-I2 | Raman Spectroscopy of Low-dimensional Materials Liming Xie, <i>National Center for Nanoscience and Technology, China</i> |
| 14:10-14:30 | 7p-YF-I3 | New Catalytic Beacons for Ultrasensitive and Selective Metal Detection Juewen Liu, <i>University of Waterloo, Canada</i> |
| 14:30-14:45 | 7p-YF-I4 | NIR Photocontrolled H₂S Release from the Thermal Degradation of Dithiocarbamate Based on Au-Ag@Au Nanoparticle Li Li, <i>Hunan University, China</i> |
| 14:45-15:00 | 7p-YF-I5 | Autofluorescence-Free Bioimaging Based on Persistent Luminescence Nanoparticles Quan Yuan, <i>Wuhan University, China</i> |
| 15:00-15:15 | 7p-YF-I6 | Pauli Repulsion-Induced Expansion and Electromechanical Properties of Graphene Hui Wang, <i>Nanjing University, China</i> |
| 15:15-15:30 | 7p-YF-I7 | Chemiluminescence property for Carbon nanoparticles and application for Arsenic determination Xiangnan Dou, <i>Tsinghua University, China</i> |
| Coffee Break | | |
| Chairs | Hui-min Ma, <i>Institute of Chemistry, Chinese Academy of Sciences, China</i> Zhen Liu, <i>Nanjing University, China</i> | |
| 15:50-16:10 | 7p-YF-I8 | Specific Fusion Protein Probe Selection from Landscape Phage Display Library and its Applications in Bioanalysis Aihua Liu, <i>Qingdao University, China</i> |
| 16:10-16:30 | 7p-YF-I9 | Double-enzyme Mediated Bioluminescent Sensor for Quantitative and Ultra-sensitive point-of-care testing |

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| | | Yiping Chen, <i>National Center for Nanoscience and Technology, China</i> |
| 16:30-16:50 | 7p-YF-I10 | Self-assembly Approach to Integrated Nanozymes: Rational Design and Biomedical Applications Hui Wei, <i>Nanjing University, China</i> |
| 16:50-17:10 | 7p-YF-I11 | Magnetic Linear Dichroism Depression of Magnetic Nanoparticles Induced by the Interaction with Metal Ions Hitoshi Watarai, <i>Osaka University, Japan</i> |
| 17:10-17:30 | 7p-YF-I12 | Acetylcholinesterase-functionalized Two-dimensional Photonic Crystal for the Detection of Nerve Agents Zihui Meng, <i>Beijing Institute of Technology, China</i> |
| 17:30-17:50 | 7p-YF-I13 | Continuous and Real-time Sensing of TET2-mediated DNA Demethylation in Vitro on Oxygen-sensitive MOFs Membrane Zong Dai, <i>Sun Yet-Sen University, China</i> |
| Dinner | | |
| 8th May (Mon.) | | |
| Chairs | Yanyi Huang, <i>Peking University, China</i> Fan Xia, <i>China University of Geosciences, China</i> | |
| 8:30-8:50 | 8a-YF-I1 | Supramolecular Self-assembly and its Application in Biomedicine Gao Yuan, <i>National Center for Nanoscience and Technology, China</i> |
| 8:50-9:10 | 8a-YF-I2 | Ratiometric and Colorimetric Detection of Ammonia Based on Solid Fluorescent Cellulose Materials: Toward Real-time and Visual Monitoring of Seafood Freshness Jun Zhang, <i>Institute of Chemistry, CAS, China</i> |
| 9:10-9:30 | 8a-YF-I3 | Silicon Nanotechnology for Bioimaging and Sensing Application Yao He, <i>Soochow University, China</i> |
| Coffee Break | | |
| Chair | Xiurong Yang, <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i> | |
| 10:00-10:40 | Youth Report Awards, Poster Awards and Closing Ceremony | |
| Lunch | | |