

# Presentations by Authors

66<sup>th</sup> Annual Meeting of the International Society of Electrochemistry  
in Taipei, Taiwan

| Presenting author            | Presentation Type | Abstract ID | Abstract title   |
|------------------------------|-------------------|-------------|--|
| Sofiene Abdellaoui           | Poster            | ise150618   | New enzymes for the hybrid enzymatic and organic electrocatalytic cascade for the complete oxidation of glycerol                           |
| Takeshi Abe                  | Invited Oral      | ise151672   | Rate Determining Factors at Graphite Electrodes- from charge transfer resistances to ion transport resistances -                           |
| Nathalia Abe Santos          | Poster            | ise151966   | Study of ethanol electro-oxidation on PtNd/C and PtSnNd/C: stability test and FTIR   |
| Hector Abruna                | Keynote           | ise152140   | Operando Methods for the Characterization Energy Materials   |
| Wojciech Adamiak             | Oral              | ise151478   | The Simplest Liquid-Liquid Two-Phase System for Hydrogen Peroxide Formation  |
| Arturas Adomkevicius         | Poster            | ise150846   | Synthesis and Characterisation of Sodium ion Pre-intercalated Manganese Oxide for High Performance Asymmetric Supercapacitors              |
| Minhaz Uddin Ahmed           | Poster            | ise150170   | Development of a Carbon Nanofiber-Based Label Free Immunosensor  |
| Min Min Aung Aishah Abdullah | Poster            | ise153318   | Non-aqueous gel polymer electrolyte from Jatropa (Jatropha curcas L.) oil-based Polyurethane Acrylate for lithium ion battery              |
| Min Min Aung Aishah Abdullah | Poster            | ise152116   | Synthesis and Characterization of Acrylated Epoxidized Jatropa Oil (AEJO) containing ZnO Anticorrosion Hybrid Coating                      |
| Sanaz Akbarzadeh             | Oral              | ise151215   | Simultaneous Determination of Hydroxylamine and Nitrite in drinking water Based on Self-Assembly of Oxadiazole on AgNPs/GCE                |
| Sanaz Akbarzadeh             | Poster            | ise151220   | The decolorization of Reactive Yellow 15 by Sonoelectrochemical method without H <sub>2</sub> O <sub>2</sub>                               |
| Rohan Akolkar                | Invited Oral      | ise151990   | A Novel Titanium Electrowinning Process Using Specialized Segmented Diaphragms   |
| Iain Aldous                  | Poster            | ise151567   | Adventures in Dioxygen Electrochemistry  |
| Leigh Aldous                 | Oral              | ise151678   | Ferrocenium triiodide ionic liquids: Synthesis, electron transfer and their (thermo)electrochemical waste heat harvesting properties       |
| Syed Afaq Ali Shah           | Poster            | ise151984   | Comparison of photovoltaic performances between using N719 and using RK1 dyes as sensitizers for dye-sensitized solar cells                |
| Abdullah AlMayouf            | Poster            | ise151085   | Photoelectrochemical characterization of ZnLaTaON based electrodes for water oxidation reaction  |
| Alejandro Alonso             | Oral              | ise150207   | Electrorecovery of Cobalt and Nickel from pregnant leach solutions based on the citrate-peroxide system, using a filter press type reactor |
| Baigang An                   | Poster            | ise151539   | Synthesis of SiC by Direct Electrochemical Reduction of C-SiO <sub>2</sub> Nanocomposite in Molten CaCl <sub>2</sub> at 850.0°C            |
| Conchi Ania                  | Oral              | ise150913   | Conductive mesoporous carbon electrodes for biosensing applications  |
| Ryoichi Aogaki               | Oral              | ise150538   | Chloride Effect on Chiral Catalytic Activity in Magneto-electrodeposition  |
| Shintaro Aoyagi              | Poster            | ise151397   | 4V-rated IgNanohybrid Supercapacitor utilizing Ultrafast b-axis-controlled TiO <sub>2</sub> (B) Nanocrystals                               |
| Raisa Apostolova             | Poster            | ise152125   | Electrodeposition of FeS <sub>2</sub> as Thin-Layer Electrode for Lithium Battery  |
| Juichi Arai                  | Poster            | ise150645   | Physical Model Simulation for Degradation of Li-ion Battery  |
| Hajime Arai                  | Poster            | ise151373   | Rechargeability of Zinc Electrodes Evaluated by In Situ Analysis   |
| Stephane Arbault             | Oral              | ise150423   | Monitoring Electrochemically the Early Events of Hydrogen Peroxide Production by Mitochondria  |
| Luis F. Arenas               | Poster            | ise150304   | Advances on the Zinc-Cerium Redox Flow Battery for Energy Storage  |
| Arenst Andreas Arie          | Poster            | ise150935   | Preparation and Electrochemical Performance of Turpentine Oil Derived Carbon Nanohorns as Anode Materials for Lithium-Ion Batteries        |
| Arenst Andreas Arie          | Poster            | ise152192   | Rice Husks Based Nanosilica as Anode Materials for Lithium-Ion Batteries   |
| Muhammad Mirza Ariffin       | Poster            | ise152118   | Synthesis and Characterization of Jatropa Oil-based Polyurethane Anti-corrosive Coating using UV Irradiation Technique                     |
| Serena Arnaboldi             | Oral              | ise150493   | Highly Enantioselective Electrodes based on Inherently Chiral Macrocyclic Oligothiophenes  |
| Omotayo Arotiba              | Poster            | ise151991   | Dealing with Interferences in the Electrochemical Detection of Arsenic – a Complexometric Masking Approach                                 |
| Damien Arrigan               | Oral              | ise150199   | Achieving diffusional independence in arrays of liquid-liquid nanointerfaces: improving the electroanalytical performance                  |
| Masafumi Asahi               | Poster            | ise152127   | Substituent Effects on Electrochemical Properties and Oxygen Reduction Reaction Activity of Copper Complexes                               |
| Ludwig Asen                  | Poster            | ise151752   | Electrodeposition of Novel Materials as ORR Catalysts for MEAs   |
| Gaukhar Askarova             | Poster            | ise151939   | Development of Charge Transport Model in Composite Polymer Electrolytes  |
| Nada Atta                    | Oral              | ise152007   | Electrochemistry and Determination of Some Biomedical and Biological Molecules at Carbon -Based Ionic Liquid Crystals Composite Electrodes |
| Sylvia Ayu Pradanawati       | Oral              | ise150623   | In-Situ Observation of Solid Electrolyte Interphase (SEI) Formation in Electrochemical Surface Plasma Resonance (EC-SPR)                   |
| Kazuhiisa Azumi              | Poster            | ise151820   | Electrochemical CO <sub>2</sub> Reduction in EMIN-TFSI Ionic Liquid  |
| Koki Baba                    | Poster            | ise150816   | Enhancement of polymer electrolyte fuel cell performance using a Marimo carbon   |

|                       |                   |           |   |
|-----------------------|-------------------|-----------|---|
| Chika Baba            | Poster            | ise151598 | A High Energy Density of MH/Air Secondary Battery Using A <sub>2</sub> B <sub>7</sub> Type of Hydrogen Storage Alloys   |
| Pawel Bacal           | Poster            | ise150331 | High-tungsten-content Cu-W alloys. Optimization of Electroplating Process   |
| Artavazd Badalyan     | Oral              | ise150527 | A Novel TEMPO-based Electrocatalyst for a Low-Potential, Fast and Selective Alcohol Oxidation   |
| Byungchan Bae         | Oral              | ise150433 | Development of Sulfonated Poly(Arylene Ether Sulfone) Multi-Block Membranes for PEMFC Application   |
| Esther Baek           | Poster            | ise151457 | Superior Power and Energy density based on hybrid electrodes of Activated carbon-H <sub>2</sub> Ti <sub>2</sub> O <sub>5</sub> anode for hybrid supercapacitor  |
| Peng Bai              | Poster            | ise152321 | A Solid-Electrolyte-Enabled Lithium-Bromine Flow Battery  |
| Priscilla Baker       | Oral              | ise150420 | Electrochemical protocols for measurement of polycyclic aromatic hydrocarbons in environmental samples  |
| Andrea Balducci       | Oral              | ise151210 | Innovative conducting salts and solvents for advanced electrochemical double layer capacitors   |
| Abd Almonam Baleg     | Oral              | ise150804 | Graphene stabilized dendritic star copolymer supercapacitor systems   |
| Helmut Baltruschat    | Oral              | ise152233 | Oxygen Reduction and Evolution for Li-Air batteries: Role of the Electrocatalyst  |
| Helmut Baltruschat    | Poster            | ise152247 | Synergistic Electrocatalytic Effects on Oxides + Ag - Electrodes for Oxygen Reduction and Evolution   |
| Thangaraj Balusamy    | Poster            | ise152055 | Evaluation of the corrosion behaviour of epoxy coated carbon steel at the damaged zone in saturated Ca(OH) <sub>2</sub> with varying concentration of chloride ions by localized electrochemical impedance spectroscopy |
| Aliaksandr Bandarenka | Invited Oral      | ise151155 | Oxygen Electroreduction at Non-uniform Pt Surfaces: From Model Electrodes to Nanostructured Catalysts   |
| Ausra Baradoke        | Poster            | ise150608 | Graphene Electrodes for Electrochemical Detection of Biomarkers   |
| Ausra Baradoke        | Poster            | ise151203 | Ruthenium Nanocomposites for Electrochemical Detection: Design and Modification of Graphene Electrodes for Biosensors   |
| Philip Bartlett       | Oral              | ise150663 | Electrodeposition of Nanowires and Nanostructures from Supercritical Fluids   |
| Stefan Barwe          | Poster            | ise150426 | A poly(benzoxazine) as binder matrix for OER catalysts derived from Prussian blue analogue precursors   |
| S Basu                | Oral              | ise151384 | Electrospun carbon nitride/polyacrylonitrile nanofibers as effective non-platinum electrocatalyst for oxygen reduction reaction in fuel cells   |
| S Basu                | Poster            | ise151206 | Electrochemical Synthesis of Polyaniline Modified PtCo Electrocatalyst for ORR in PEM Fuel Cell   |
| Belen Batanero        | Invited Oral      | ise151803 | Recent Electrochemically Induced Coupling Reactions by Electron-Transfer  |
| Dauren Batyrbekuly    | Poster            | ise151336 | Reinforced composite gel-polymer electrolytes for lithium-sulfur batteries  |
| James Y. Becker       | Oral              | ise150432 | The Effect of Ring-Size on the Anodic Oxidation of Cyclic Amides  |
| Fethi Bedioui         | Poster<br>Invited | ise150545 | Corrosion behavior of biocompatible stainless steels in physiological medium for application to non-invasive diagnosis of small fiber neuropathies  |
| Fethi Bedioui         | Oral              | ise150544 | In Vivo Electrochemical Assessment of Possible Melatonin Effect on Nitric Oxide Production From Kidneys of Sub-Acute Lead Treated Rats  |
| François Béguin       | Keynote           | ise151691 | The aqueous electrochemical capacitor: a high energy alternative solution to organic electrolyte-based systems  |
| Daniel Bélanger       | Invited Oral      | ise150066 | New materials for electrochemical capacitors  |
| Kolja Beltrop         | Oral              | ise151806 | Does Size really Matter? New Insights into the Intercalation Behavior of Anions into a Graphite Based Positive Electrode  |
| Kolja Beltrop         | Poster            | ise151851 | Electrochemical Intercalation of Anions into Graphite – The Role of Anion Structure and Solvent Properties  |
| Henry Bergmann        | Poster            | ise151030 | On the continuity of chlorine production during electrochemical water disinfection  |
| Henry Bergmann        | Oral              | ise151032 | On the necessity of field studies for direct electrochemical drinking water disinfection  |
| Taame Abraha Berhe    | Poster            | ise152085 | Laser Induced Degradation Study of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Light Harvesting Oih-Perovskite Semiconductor   |
| Balázs Berkes         | Oral              | ise150871 | Long-time, Simultaneous DEMS and DEIRS Investigations of LiBs Containing NMC-Type Materials   |
| Paul Bernhardt        | Keynote           | ise150214 | Molybdenum Enzyme Electrochemistry  |
| Jiajin Bi             | Poster            | ise151469 | Catalytic Activity and Durability for Oxygen Evolution on LaNiO <sub>3</sub> /Ni for Alkaline Water Electrolysis under Potential Cycling  |
| Renata Bilewicz       | Oral              | ise152110 | Lyotropic cubic phase gels and nanoparticles for drug delivery: tuning drug diffusion and sustained release from the mesophase  |
| Mohammad BinSabt      | Poster            | ise150734 | Effect of Nickel Oxide Type on the Electrochemical Behavior of Nickel-Graphene Oxide Hybrid – Towards Electrochemical Capacitor   |
| Mohammad BinSabt      | Poster            | ise150736 | Effect of Nickel Oxide Type on the Electrochemical Behavior of Nickel-Graphene Oxide Hybrid – Towards Electrochemical Capacitor   |
| Roel Bisselink        | Poster            | ise152026 | Electrochemical synthesis of hydrogen peroxide coupled with UV-C for the oxidation of endocrine disruptor compounds   |
| Roel Bisselink        | Poster            | ise151982 | Indium recovery from secondary sources by electrowinning  |
| Anna Bitner-Michalska | Poster            | ise151958 | Studies on optimization of imidazolate sodium salts based electrolytes for sodium-ion battery applications  |
| Solveig Böhme         | Poster            | ise150717 | Electrochemical behaviour of tin(IV) oxide electrodes in lithium-ion batteries at high potentials   |
| Paul Bohn             | Invited Oral      | ise150280 | Redox Cycling in Zero-Dimensional Nanopore Arrays Coupled to Fluorogenic Reporter Reactions Through Multiscale Bipolar Electrodes   |
| Alan Bond             | Oral              | ise150313 | A Voltammetric Odyssey: From Homogeneous Dropping Mercury to Heterogeneous Macro and Nano Electrodes; From the Manual Era to Advanced Automated High Speed Computation  |
| Alexandra Bondarenko  | Oral              | ise150086 | Scanning electrochemical microscopy of adherent melanoma cells: alive, fixed and permeabilized  |
| Nadège Bonnet-Mercier | Oral              | ise151583 | Understanding Na-O <sub>2</sub> Electrochemistry in Non-aqueous Na-O <sub>2</sub> Batteries   |
| Antoinette Boreave    | Poster            | ise150901 | Triode Operation for Enhancing the Performance of H <sub>2</sub> S-Poisoned SOFCs for CH <sub>4</sub> Steam Reforming   |
| Pauline Bornoz        | Oral              | ise150584 | An Organic Semiconductor as a Photoanode for Solar Water Splitting  |
| Andrea Boschin        | Poster            | ise150812 | Characterization of Sodium Based Ternary Polymer Electrolytes   |
| Daniel Brandell       | Poster            | ise150733 | A Renaissance for Solid Polymer Electrolyte through Alternative Host Materials: Polycarbonates  |
| Daniel Brandell       | Poster            | ise151967 | Combined Finite Element Modelling and EIS Studies for SoC Indication in Rechargeable Li-Ion Batteries   |
| Stanko Brankovic      | Invited Oral      | ise151981 | SLRR of UPD Monolayers – Fundamental Aspects and Interplay of UPD, Reaction Kinetics, and Nucleation  |
| Stanko Brankovic      | Poster            | ise150543 | Structure vs. Properties Relation in Novel RuPt Core-Edge Catalyst Nanoclusters   |
| Christopher Brett     | Oral              | ise151197 | Self-Assembled Layer-by-Layer Architectures for Electrochemical Sensors and Biosensors  |
| Tom Breugelmans       | Poster            | ise152015 | Influence of the morphology of electrodeposited nanoparticles on their activity for the cyclisation reaction of allyl 2-bromobenzyl   |

|                              |              |           |   |
|------------------------------|--------------|-----------|---|
| Ricardo Brocenschi           | Oral         | ise151983 | Electrochemical Responses of Boron-Doped Diamond After Its Surface Rehydrogenation Using Cathodic Treatments  |
| Peter Broekmann              | Invited Oral | ise151016 | Combining Superfill and Leveling Capabilities: New Hybrid Polymers for Advanced Damascene Applications  |
| Thierry Brousse              | Keynote      | ise150116 | Ionogels as safe and thermally stable electrolytes for macro and micro electrochemical capacitors   |
| Junfu Bu                     | Poster       | ise152294 | BaZr <sub>x</sub> Ce <sub>0.8-x</sub> Y <sub>0.2</sub> O <sub>3-<math>\lambda</math></sub> (x = 0.5, 0.6, 0.7) Proton Conductors Prepared by Spark Plasma Sintering   |
| Junfu Bu                     | Poster       | ise152301 | The Effect of NiO on the Conductivities of BaZr <sub>x</sub> Ce <sub>0.8-x</sub> Y <sub>0.2</sub> O <sub>3-<math>\lambda</math></sub> (x = 0.5, 0.6, 0.7, 0.8) Proton Conductors  |
| Pascal Buizard               | Poster       | ise152250 | Bubble Size Measurement of Electrolytic Hydrogen Evolution using an External Acoustic Emission Sensor   |
| Olivier Buriez               | Invited Oral | ise150424 | Contribution of Electrochemistry to Investigate the Solubilization and Transport Through Suspended Membranes of Redox Active Molecules  |
| Michael Busch                | Oral         | ise150218 | Water Oxidation at Exfoliated Transition Metal Oxides – A DFT Study   |
| Erika Bustos                 | Oral         | ise151237 | Electrocatalytic Effect of IrO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> /Ti in the Electrochemical Degradation of Phenanthrene, Naphthalene and Fluoranthene in Wastewater from the Electrokinetic Treatment of Polluted Soil by Hydrocarbons |
| Erika Bustos                 | Poster       | ise151241 | The Cone Penetration Test and 2D Imaging Resistivity as Tools to Simulate the Distribution of Hydrocarbon in Soil   |
| M. Fátima C. Guedes da Silva | Invited Oral | ise151028 | Electron-transfer Induced Reactions in Ru and Sn Complexes with Biological Activity   |
| Wen-Bin Cai                  | Oral         | ise150794 | Bridging across Electrocatalytic Performances of Nanomaterials & Interfacial Species Evolution with Realtime ATR-IR Spectroscopy  |
| Federico Calle-Vallejo       | Invited Oral | ise151209 | Designing Better Electrocatalysts by Simply Counting Surface nearest Neighbors  |
| Natalia Andrea Cañas         | Oral         | ise151853 | Investigations of Lithium-Sulfur Batteries at Low and Elevated Temperatures   |
| Natalia Andrea Cañas         | Poster       | ise151857 | In situ X-Ray Diffraction at Room and Elevated Temperatures during Battery Cycling: Studies on Graphite Anode   |
| Fei-Fei Cao                  | Poster       | ise151347 | Facile Synthesis of CuO Nanochains as Anode Materials for Lithium-Ion Batteries   |
| Anmin Cao                    | Poster       | ise150610 | Uniform coatings for improved battery performance   |
| Mario Castaño-Álvarez        | Oral         | ise150826 | Novel Microfluidic Electrochemical Sensors for Thin-Layer based Flow Analysis Systems   |
| Teresa A. Centeno            | Invited Oral | ise151872 | Physico-Chemical Features of Carbons and their Behavior in Electrochemical Capacitors   |
| Suman Chae                   | Poster       | ise150858 | The Effects of Substrates on the Phase Formation Behavior and the Electrochemical Properties of Li <sub>2</sub> MnSiO <sub>4</sub> Cathode Thin Films Deposited by RF Sputtering for Thin Film Batteries  |
| Ji Su Chae                   | Oral         | ise150643 | Understanding the Improved Electrochemical Properties of Li <sub>2</sub> O-2B <sub>2</sub> O <sub>3</sub> Coated LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> for Lithium-ion Batteries   |
| Barun Chakrabarti            | Poster       | ise151713 | One dimensional mathematical modelling of the all-vanadium and vanadium/oxygen redox flow batteries   |
| Po-Fan Chan                  | Oral         | ise151750 | The Spontaneous Potential Oscillations in a Galvanostatic Copper Electrodeposition  |
| Kwong-Yu Chan                | Oral         | ise151022 | Ion Exchange Polymer Threaded in MOF as a Potential Electrolyte with Fast Exchange and High Selectivity   |
| Shaneel Chandra              | Oral         | ise150256 | Gold nanoparticles-modified physically small carbon sensors towards sensitive and selective As(III) detection in aquatic samples  |
| Wonyoung Chang               | Poster       | ise151849 | Investigation of the Degradation Mechanism of Li <sub>x</sub> Ni <sub>y</sub> Mn <sub>z</sub> Co <sub>1-y-z</sub> O <sub>2</sub> Cathode Materials for Lithium Ion Batteries  |
| Gan-Zuei Chang               | Poster       | ise151735 | In situ ATR-IR spectroelectrochemical study of the deactivation of Pd/C catalysts used in DFAFC by common impurities found in formic acid   |
| Chia-Chin Chang              | Poster       | ise152311 | Effect of nano sized tin composite on graphite as anode for lithium ion battery   |
| Chia-Chin Chang              | Poster       | ise152190 | In-Situ X-ray Diffraction on the Lithium-Ion Migrating in Micro-Porous Separator  |
| Tso-Fu Mark Chang            | Invited Oral | ise150492 | Conducting Electrochemical Deposition Reactions in Supercritical Carbon Dioxide Emulsified Electrolyte  |
| Chia-Chin Chang              | Poster       | ise152189 | Mixture of ionic liquid and organic carbonate as an electrolyte for LiFePO <sub>4</sub> battery   |
| Min-Hsing Chang              | Poster       | ise151414 | Fabrication of Anode Microporous Layer with Carbon Nanotubes and its Effect on Proton Exchange Membrane Fuel Cell Performance   |
| Yu-Chen Chang                | Oral         | ise150665 | Controllable Synthesis of Heteroatom-Doped Carbon Nanotubes under Atmospheric Pressure and Their Electrocatalytic Ability to L-cysteine   |
| Jian CHEN                    | Poster       | ise151050 | High Energy Density Electrode Materials Prepared with Metal-Organic Coordination-Polymers for the Applications in LIBs  |
| Xingxing CHEN                | Oral         | ise150373 | Evaluation of Bifunctional Electrocatalysts for Oxygen Reduction and Evolution by Means of Scanning Electrochemical Microscopy (SECM)   |
| Guohua Chen                  | Keynote      | ise153325 | Magnéli Ti <sub>4</sub> O <sub>7</sub> Modified Ceramic Membrane for Electrically-assisted Filtration with Antifouling Property   |
| Yuan Chen                    | Poster       | ise150763 | Bacteria Derived Carbon as High-Performance Electrocatalysts  |
| Qiaoli Chen                  | Poster       | ise150585 | Synthesis of Excavated Trioctahedral Au <sup>0</sup> CPd Alloy Nanocrystals with Tunable Composition for Electro-Oxidation of Ethanol   |
| Ping-Yen Chen                | Poster       | ise151383 | Novel Polybenzimidazoles Containing Bulky Side Groups for High-temperature Polymer Electrolyte Membranes Fuel Cell Applications   |
| Jun Chen                     | Poster       | ise151516 | Graphene/N-doped Carbon Nanofiber Hybrid Aerogel as High-performance Electrocatalyst for Catalytic Oxygen Reduction Reaction in Li-O <sub>2</sub> Batteries   |
| George Zheng Chen            | Invited Oral | ise151019 | On Combined Capacitive and Nernstian Mechanisms for Improved Electrochemical Energy Storage   |
| Wei-Fu Chen                  | Oral         | ise152173 | Nitride-Stabilized Tungsten Carbide Electrocatalysts for Hydrogen Evolution Reaction  |
| Chi Chen                     | Poster       | ise151498 | Ba <sub>0.95</sub> La <sub>0.05</sub> FeO <sub>3-<math>\delta</math></sub> -multi-layer graphene as a low-cost and synergistic catalyst for oxygen evolution reaction   |
| Lin-Chi Chen                 | Oral         | ise150852 | Stability-enhanced Screen-Printed Ion-Selective Electrodes (SPISEs) for Plant Factory and Smart Farming Applications  |
| Chi Chen                     | Poster       | ise151503 | A bi-functional catalyst for oxygen reduction and oxygen evolution reactions from used baby diapers;-Fe <sub>2</sub> O <sub>3</sub> wrapped in P and S dual doped graphitic carbon  |
| Shengli Chen                 | Invited Oral | ise150558 | Nature of Active Sites and Origin of Large Overpotential of the Oxygen Reduction Reaction on Pt(111) Surface  |
| Yuan Chen                    | Invited Oral | ise150759 | Micro-supercapacitors based on carbon hybrid fibers   |
| Kuei-Hsien Chen              | Invited Oral | ise152100 | Graphene Oxides Based Photocatalyst for Solar Fuels   |

|                       |              |           |   |
|-----------------------|--------------|-----------|---|
| Jingyi Chen           | Poster       | ise151723 | An Ultrasensitive pH-Switchable Electrochemical Immunosensing based on Integrated 3D-KSCs Electrode as Singal Collector and AuNPs-Ab2-GOD-ConA as Tracing Tag for Assay of CEA  |
| Cheng-Chuan Chen      | Poster       | ise150213 | Pd-based bimetallic nanocatalysts for alkaline glucose electrooxidation and fuel cells application  |
| Jee-Jay Chen          | Oral         | ise150524 | Polyoxometalates for Non-aqueous Redox Flow Battery Applications  |
| Chih Chen             | Keynote      | ise151747 | Electrodeposition of Highly (111)-oriented Nanotwinned Cu and Its Application   |
| B. C. Chen            | Poster       | ise152236 | Electrical Current-Induced Thermal Characteristics in a Carbon Nanotube   |
| Yu-Min Chen           | Oral         | ise151940 | Analysis of Corrosion Behavior of ASTM A416 Steel by Electrochemical Impedance Spectroscopy   |
| Li-Chyong Chen        | Keynote      | ise151771 | Macrocyclics, Graphene Oxides-based Nano-catalysts, and Related Hybrids for Fuel Cells and Solar Fuels  |
| Kezheng Chen          | Poster       | ise151582 | Temperature Dependence of Effective Ionic Conductivity in Composite Electrode of Lithium Ion Battery  |
| Long Chen             | Poster       | ise150344 | Aqueous Lithium-Ion Batteries Using O <sub>2</sub> Self-elimination Polyimides Electrodes   |
| Jingyuan Chen         | Poster       | ise150969 | Catalytic reduction of dioxygen by ferrous hemin over formation of ferrous hemin -O <sub>2</sub> adduct   |
| Chun-Yi Chen          | Poster       | ise151007 | Effect of Supercritical Carbon Dioxide on Crystal Structure of Electrodeposited Cobalt Films  |
| Junxiang Chen         | Poster       | ise151004 | On the origin of the greatly different kinetics of the hydrogen electrode reactions on Pt in acid and alkaline media  |
| Qing-Song Chen        | Oral         | ise152089 | Electrochemical Synthesis of Pd Nanocrystals Supported on Graphene Nanoplatelets for Formic Acid Electrooxidation   |
| Hsun-Yi Chen          | Poster       | ise151837 | Buffer Effects of Electrolyte Additives on Lead-Acid Flow Batteries   |
| Yen-Jhih Chen         | Poster       | ise151295 | Fabrication of Ti doping Hematite Nanotubes Arrays Photoanode via Anodic Electrodeposition for Solar Water Splitting  |
| Ching-Hsiang Chen     | Poster       | ise151275 | Fabrication of AuNPs Array on ITO electrode via Nanospheres Lithography and its DNA Sensing Applications  |
| Aicheng Chen          | Poster       | ise150996 | Synthesis and Electrochemical FTIR Study of Nanoporous Palladium-Based Bimetallic Catalysts   |
| Xianlan Chen          | Poster       | ise150762 | Amperometric determination of hydrogen peroxide nitrogen-doped/ graphene Au@Ag core-shell nanoparticles modified glassy carbon electrode  |
| shen-ming chen        | Oral         | ise150349 | Synthesis and Characterization of carbon based nanocomposites and its electrocatalytic activity towards biomolecules and hazardous pollutants   |
| lu chen               | Oral         | ise150613 | Room Temperature Electrodeposition of Metallic Magnesium from Ethylmagnesiumbromide/ Tetrahydrofuran and Ionic Liquid Mixtures  |
| Dancheng Chen Legrand | Poster       | ise150870 | Gold Electrode Modified With Silver Nanoparticles for In Situ Nitrate Detection in Sea Water  |
| Xi CHENG              | Oral         | ise151419 | Oxygen evolution reaction: correlation between electronic property and OER activity for La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub> (x=0, 0.2, 0.4, 0.6, 0.8, 1) perovskite oxides                               |
| Shu-Hua Cheng         | Poster       | ise150557 | Electrochemical Determination of Bisphenol A at Conducting Poly(diallyldimethylammonium chloride) Film-Modified Preanodized Screen-Printed Carbon Electrodes  |
| Yu Cheng              | Poster       | ise151633 | A Rapid Detection of Biomarkers Applied by Electrochemical Biosensor Accelerated with an AC Electrokinetic Manipulation   |
| Kui Cheng             | Poster       | ise150298 | Design and fabrication Co <sub>3</sub> O <sub>4</sub> -based electrode and its application for H <sub>2</sub> O <sub>2</sub> electroreduction   |
| Ju-Hsiang Cheng       | Poster       | ise150758 | A Study on the Hollow Cubic SnO <sub>2</sub> as Anode Material for Lithium-ion Battery by Transmission X-ray Microscopy   |
| Heng-Wei Chiang       | Poster       | ise151581 | Modified Carbon Felt via a Facile Oxidation Treatment as an Efficient Electrode for a Vanadium Redox Flow Battery   |
| Kuo-Wei Chiang        | Poster       | ise150785 | Mathematical Model of Non-Uniform Cathode Catalyst Layer on the Performance of PEMFC  |
| Chia-Ying Chiang      | Poster       | ise151102 | Multi-Components Amorphous Metal-Oxides Catalysts for Oxygen Evolution Reaction   |
| Kazuhiro Chiba        | Keynote      | ise151822 | Anodic Synthesis of Unnatural Peptide and Nucleic Acid Derivatives  |
| Hsiu-Chuan Chien      | Poster       | ise150761 | Buffer Effect on Electrolytes towards Supercapacitors Application   |
| Yu_Ju Chien           | Poster       | ise150795 | Synthesis of Ternary Spinel Iron-Cobalt-Nickel Oxide/Carbon Black Composites as a High-Performance Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries   |
| Hsu Chih-I            | Poster       | ise152103 | Properties of electroless Ni <sub>i</sub> VP/BN(h) composite coatings at elevated temperatures  |
| Jeyabharathi Chinnaya | Oral         | ise150073 | Does a link between multiple oxidation peaks of gold oxide formation and exposed crystal planes exist on polycrystalline gold?  |
| Josh Y. Z. Chiou      | Poster       | ise150938 | Structural Effects of Spinel LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> on Their Electrochemical Properties   |
| Jun-Ming Chiu         | Poster       | ise150470 | Synthesis of Cobalt Sulfide Hydrangea Macrophylla Nanostructures with High Charge-Accumulation Surface Area for Supercapacitors   |
| I-Ting Chiu           | Poster       | ise152283 | Highly Efficient Cobalt Selenide Hierarchical Nano-Wall for the Electro-Catalytic Counter Electrodes in Dye-Sensitized Solar Cells  |
| Eunseog Cho           | Oral         | ise151109 | The role of the oxygen in the Li <sub>2</sub> MnO <sub>3</sub> cathode material for the Li-ion batteries  |
| Jung Sang Cho         | Poster       | ise151394 | Advanced Anode Material with Bubble-Nanorod-Structured Metal Oxide-Carbon Composite Nanofibers  |
| Chang Hyuck Choi      | Oral         | ise150498 | Electron Transfer over Non-precious Metal Catalysts for Oxygen Reduction Reactions  |
| Kwok Feng Chong       | Poster       | ise150155 | Novel Electrochemical Conversion of Spent Alkaline Batteries into Supercapacitor Electrode  |
| Ib Chorkendorff       | Invited Oral | ise151950 | The Challenge of Interfacing Catalysts, Protection layers, and Semiconductors in a Tandem Device  |
| Hung-Lung Chou        | Poster       | ise151515 | Combined Experiment and DFT Investigations of Catalytic Activities into Pt-based electrocatalysts for Fuel Cell Applications  |
| Nan-Kuang Chou        | Poster       | ise150783 | Different-sized truncated Pd nanocubes for glucose electrooxidization   |
| Deryn Chu             | Oral         | ise150048 | Solid Oxide Fuel Cell Powered Small Unmanned Aerial Systems For Long Endurance  |
| Yen-Chun Chuan Sun    | Poster       | ise152161 | A Novel Preparation Method for Titanium Dioxide in the Rutile Phase for Electrochemical Photocatalytic Applications   |
| Chung-Hsien Chuang    | Poster       | ise150612 | A green, simple and cost-effective approach to synthesize high quality graphene by electrochemical exfoliation via process optimization   |
| Yu-cheng Chuang       | Poster       | ise152302 | Ab initio lattice stability of the xLi <sub>2</sub> MnO <sub>3</sub> &#8226;(1-x)Li(Ni <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> )O <sub>2</sub> composite-layered cathode materials for lithium-ion batteries |
| Oliver Chyan          | Oral         | ise150090 | Micro-pattern Corrosion Screening on Bimetallic Corrosion for Microelectronic Application   |
| Francesco Ciucci      | Poster       | ise151450 | Applied Statistics in Electrochemistry: Optimal Experimental Design in Electrochemical Impedance Spectroscopy and Bayesian Distribution of Relaxation Times   |
| Francesco Ciucci      | Oral         | ise151446 | Ba <sub>0.95</sub> La <sub>0.05</sub> FeO <sub>3</sub> -&#948; for Solid Oxide Fuel Cell Cathodes: Investigations Using Single-crystal Thin Films and Atomistic Simulations   |

|                            |              |           |   |
|----------------------------|--------------|-----------|---|
| Jan Clausmeyer             | Oral         | ise151543 | Amperometric Nanosensors and Field-Effect Transistors for Extra- and Intracellular Chemical Analysis  |
| Jan Clausmeyer             | Poster       | ise151566 | Investigation of Single Ni(OH) <sub>2</sub> Nanoparticles: Electrocatalysis and Energy Storage at Ultrafast Mass Transport  |
| Richard Compton            | Keynote      | ise150204 | Nano Impacts: Recent Advances   |
| Susana Cordoba de Torresi  | Oral         | ise150445 | Tuning the electrocatalytic properties of Cu <sub>2</sub> O nanoparticles by controlling size and geometry  |
| Patricia Corradini         | Poster       | ise151961 | Synthesis and characterization of electrocatalysts PtSnEu/C for anode in direct alcohol fuel cell   |
| Serge Cosnier              | Invited Oral | ise150127 | Supramolecular Biological Assemblies for Biosensors and Biofuel Cells   |
| Laura Coustan              | Oral         | ise150905 | Metal Organic Frameworks as precursors of porous carbon materials for supercapacitor applications   |
| George Crabtree            | Keynote      | ise151831 | The Joint Center for Energy Storage Research (JCESR): A New Paradigm for Energy Storage Research  |
| Gaston Crespo              | Oral         | ise150378 | Selective Proton Pump for Thin Layer Chemical Modulations   |
| Olivier Crosnier           | Oral         | ise150873 | FeWO <sub>4</sub> as a new high volumetric capacitance material for aqueous electrochemical supercapacitors   |
| Maria Cuartero             | Oral         | ise150525 | Thin Layer Ionophore-Based Membranes Electrochemically modulated by Poly(3-octylthiophene) for Multianalyte Detection   |
| Xiaoqiang Cui              | Poster       | ise151381 | Plasmonic Induced Inhibition and Enhancement of the Electrocatalytic Activity for Ethanol Oxidation on Pd/Au Hetero-Nanoraspberries   |
| Hua Cui                    | Oral         | ise150299 | One-step Supermolecule Assembly of N-(aminobutyl)-N-(ethylisoluminol) Functionalized Gold Nanodots on Multiwalled Carbon Nanotubes and Their Applications to Sensors  |
| Yi Cui                     | Invited Oral | ise153323 | Materials Design for Lithium-Sulfur Batteries   |
| Charles Cummings           | Oral         | ise150049 | Supercritical Fluid Electrodeposition: Germanium Thin Films   |
| Kim Daasbjerg              | Keynote      | ise151122 | Novel Hybrid Materials Prepared from Polymer Brushes and Graphene   |
| Nick Daems                 | Oral         | ise150572 | Non-noble metal-containing doped graphitic carbons as electrocatalysts for the cogeneration of electricity and aniline.   |
| Nick Daems                 | Poster       | ise151494 | Synthesis of membrane electrode assemblies for proton-exchange membrane fuel cells.   |
| Zhang Dalei                | Oral         | ise151829 | Wire Beam Electrode Technique for Investigation Galvanic Corrosion Behavior between Zinc and Carbon Steel   |
| Duc Tai Dam                | Poster       | ise150306 | Development of mesoporous materials<br>Duc Tai Dam, Jong-Min Lee<br>School of Chemical and Biomedical Engineering, Nanyang Technological University<br>62 Nanyang Drive, Singapore 637459<br>jmlee@ntu.edu.sg<br>Over the last decade, due to increasing environmental pollution an |
| Salvatore Daniele          | Oral         | ise151238 | Disk Shaped Platinum Nanoelectrodes with Unexpected High Surface Area for the Detection of Hydrogen Peroxide  |
| Martín Dávila              | Poster       | ise151925 | Electrochemical Oxidation of Dibenzothiophene and Dibenzothiophene Sulphone   |
| Sarah Day                  | Oral         | ise150912 | A Long Duration Experiment Facility for the Study of Battery Materials Using In Situ Synchrotron X-Ray Powder Diffraction   |
| Adalgisa De Andrade        | Oral         | ise152101 | High Current Density Bioanodes for Ethanol Oxidation using PQQ-dependent Enzymes  |
| Adalgisa De Andrade        | Oral         | ise150286 | Biocathodes Using a Laccase from <i>Pycnoporus sanguineus</i> and their Potential Application in Methanol/O <sub>2</sub> Biofuel cell   |
| Antonio de lucas Consuegra | Poster       | ise150720 | Electrochemical modification of Ni catalyst with alkali ionic conductors for CO <sub>2</sub> hydrogenation  |
| Antonio de lucas Consuegra | Oral         | ise150719 | Hydrogen production and storage by coupling of catalysis and electrochemistry   |
| Peter Deák                 | Invited Oral | ise152198 | Resolving the Controversy about the Band Alignment between Rutile and Anatase: the Role of OH <sup>-</sup> /H <sup>+</sup> Adsorption.  |
| Ludmila Degtyar            | Poster       | ise152107 | Composite wear-resistant nickel electrodeposits with diamond nanoparticles (DN)   |
| Dario Dekel                | Invited Oral | ise151240 | Review of the Latest Advances and Current Challenges of Anion Exchange Membrane Fuel Cell Technology  |
| Claude Delmas              | Keynote      | ise152133 | An Overview of the Behavior of Overlithiated Li(Li,Mn,Co,Ni)O <sub>2</sub> Layered Oxides In Lithium-ion Batteries  |
| Shengyuan Deng Deng        | Poster       | ise150097 | Label-Free Biomimetic Electrocatalysis-Induced Precipitation for Ultrasensitive Bioanalysis   |
| Yujia Deng                 | Oral         | ise150274 | The Steady State coverage of oxygenated species on Platinum and its influence on the Oxygen Reduction and Hydrogen Oxidation Reaction in acid electrolyte   |
| Shengyuan Deng             | Poster       | ise150396 | An Electrogenenerated Chemiluminescence Approach for the Assay of Zinc Finger Proteins (EGR1)   |
| Guy Denuault               | Oral         | ise150686 | Amperometric Study of the Oxygen Reduction Reaction on Oxide Free Metals: Evidence for the Reduction of Pre-adsorbed Dioxygen and its Dependence on the Metal Substrate   |
| Guy Denuault               | Poster       | ise150712 | An in-situ Microelectrode Study of the Sea Surface Microlayer: Experimental and Theoretical Challenges  |
| RUI DI                     | Poster       | ise151422 | Anion Conductivities of Positively-charged Hydroxides with One-dimensional Channel Framework  |
| Francesco Di Franco        | Oral         | ise150565 | Metal/Oxide/Conducting Polymer hybrid structures for MIM and MOSFET devices   |
| Nikolay Dimitrov           | Keynote      | ise151153 | Advances in the Growth of Metals and Alloys Assisted by a Monolayer Amount of UPD Atoms   |
| Shujiang Ding              | Oral         | ise151113 | The Design and Preparation of Multi-dimensional Nanostructured Materials and electrochemical storage  |
| Zhifeng Ding               | Invited Oral | ise151172 | Electrochemiluminescence of Quantum Dots and Clusters   |
| Bing Ding                  | Poster       | ise151836 | MXene-Derived Carbon Nanosheets with Controllable Pore Sizes for Energy Storage Applications  |
| Wei Ding                   | Poster       | ise150601 | Shape Fixing via Salt Recrystallization: A Morphology-Controlled Approach to Convert Nanostructured Polymer to Carbon Nanomaterial as a High Active Catalyst for Oxygen Reduction Reaction  |
| Fabio Dionigi              | Oral         | ise151611 | Activity and Selectivity of NiFe Layered Double Hydroxide Electrocatalyst for Seawater Electrolysis   |
| Wahyu Diyatmika            | Poster       | ise152261 | Thin film metallic glass as a diffusion barrier for flexible CIGS solar cell on stainless steel substrate: A feasibility study  |
| Chil Hoon Doh              | Poster       | ise151390 | Low Temperature Performances of LiNi <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> O <sub>2</sub> /graphite Batteries  |
| Joanna Dolinska            | Oral         | ise151232 | Electrocatalytic Oxidation of Biologically Active Compoundson MoS <sub>2</sub> Nanopetal Stacks Decorated with Carbon or Gold Nanoparticles   |
| Xiaoli Dong                | Poster       | ise150350 | Re-building Daniell Cell with a Li-ion Exchange Film  |
| Jin-Chao Dong              | Poster       | ise150863 | In-Situ Monitoring the Electrocatalytic Reaction Processes at Platinum Single Crystal Electrode Using SHINERS   |

|                           |              |           |  |
|---------------------------|--------------|-----------|--|
| Ruey-an Doong             | Invited Oral | ise151152 | Sensitive Amperometric Biosensors for Metabolites Detection Based on Multifunctional Dumbbell-Like Metal-Magnetite Heterostructures                                  |
| Hui Dou                   | Oral         | ise151856 | Porous Carbon Nanofiber with Phosphorus and Nitrogen Dual-Doping for High Performance Supercapacitors  |
| Silviu Drob               | Poster       | ise150516 | A New Dental Alloy with Improved Properties: Its Corrosion Resistance in Various Conditions Simulating Oral Cavity Environment                                       |
| Sonia Dsoke               | Oral         | ise151054 | Combination of Li-salt-based electrolytes with activated carbon electrodes for the development of hybrid battery-supercapacitors                                     |
| He-yun Du                 | Poster       | ise151835 | Enhanced Proton Conductivity of Polybenzimidazole Membranes Synthesized via Direct-casting Process for High Temperature Fuel Cells                                   |
| Matteo Duca               | Oral         | ise150508 | Electrocatalytic cascades driven by enzymes and metal nanoparticles on carbon supports: the reduction of nitrate to ammonia at neutral pH                            |
| Ali Ehsani                | Poster       | ise152108 | Physioelectrochemical properties and catalytic activity of green synthesized metal oxide nanoparticles and conductive polymer composite film                         |
| Michael Eikerling         | Oral         | ise152210 | Modeling of Structure Formation and Fracturing in Polymer Electrolyte Membranes  |
| Mario El Kazzi            | Oral         | ise150120 | Complementary Operando XPS and Raman Spectroscopy of Graphite Cycled in Ionic Liquids  |
| Lior Elbaz                | Oral         | ise150102 | Electroreduction of Oxygen with Brominated Metallo-Corroles  |
| Sean Elliott              | Invited Oral | ise150515 | Diversity and Electrocatalysis by Multi-heme Cytochromes c   |
| Alex Yong Sheng Eng       | Poster       | ise150964 | Unusual Inherent Electrochemistry of Graphene Oxides Prepared from Permanganate Oxidation Routes   |
| Alex Yong Sheng Eng       | Poster       | ise150959 | Electrochemistry of Transition Metal Dichalcogenides: Dependence on Composition and Exfoliation Method   |
| Christian Engelbrekt      | Oral         | ise150494 | Facile synthesis of starch-scaffolded bimetallic Au-Pt nanostructure and electrocatalysis  |
| Jaanus Eskusson           | Poster       | ise151814 | Influence of 1,2-Dimethoxyethane Additive on the Electrochemical Characteristics of EMImTFSI Based Electrolytes for Supercapacitors                                  |
| Vera Eßmann               | Oral         | ise150128 | Facile optimization of gold nanostructures for high SERS intensity by means of bipolar electrochemistry  |
| Makoto Eto                | Poster       | ise151666 | Oxygen Evolution Reaction Behavior of Vapor Grown Carbon Fiber and The Loading Effect of $\text{LaMnO}_3$ in KOH Aqueous Solution                                    |
| Farizaeriwan Faizol       | Poster       | ise152141 | Synthesis And Characterization Of Maleinised Acrylate Epoxy Jatropa Oil Resin For UV Curable Surface Coating.  |
| Caimei Fan                | Poster       | ise150659 | One-step Synthesis of Porous BiOBr Film From Bi Plate Via Electrochemical Method   |
| Miao-Syuan Fan            | Poster       | ise152286 | Synthesis of a Novel Polymeric Ionic Liquid for Electrochromic Device Application  |
| Miao-Syuan Fan            | Poster       | ise152308 | Molybdenum Disulfide/Nitrogen-Doped Graphene Composite as an Electrocatalytic Material for Dye-Sensitized Solar Cells  |
| Louzhen Fan               | Oral         | ise151156 | Electrochemical Synthesis of Red Fluorescent Graphene Quantum Dots for the Bioimaging Platform   |
| Jason Fang                | Oral         | ise151553 | A High Energy, Long-life Li-S Battery Enabled by Mille-Feuille Structure Electrode   |
| Jason Fang                | Poster       | ise151501 | High Energy Solid State Battery  |
| Jason Fang                | Poster       | ise151558 | High Energy Solid State Battery  |
| Ali Farhat                | Poster       | ise150235 | Removal of Persistent Organic Contaminants by Electrochemically Activated Sulfate  |
| Ali Farhat                | Oral         | ise150236 | Role of Sulfate and Persulfate Ions in Electrochemical Oxidation of Persistent Organics at a Boron-doped Diamond Anode   |
| Patrick Faubert           | Poster       | ise151013 | Analysis of the Surface Structure and Catalytic Behavior of Cr-modified Ni Surfaces for Fuel Cells   |
| Ahmad Fauzan Adziimaa     | Poster       | ise150649 | Combination effects of graphene oxide as carbon black and maleimide as electrolyte additive in lithium ion batteries   |
| Frédéric Favier           | Invited Oral | ise150910 | Graphene-based Electrochemical Capacitors  |
| Xavier FEAUGAS            | Poster       | ise150637 | Potentiostatic pulse technique to investigate the hydrogen diffusion and trapping into subsurface of nickel single crystal (100)                                     |
| Xavier Feaugas            | Oral         | ise151620 | Electrochemical behavior of electrodeposited Ni-W nanostructured alloys  |
| Juan M. Feliu             | Oral         | ise150855 | Laser induced temperature jump investigation of the interface between Pt single crystals in contact with ionic liquids   |
| Lucia Fernandez Macia     | Oral         | ise151680 | Advanced EIS Study of the Ionic Conduction in Nanocrystalline Yttrium-Doped Ceria  |
| Lucia Fernandez Macia     | Poster       | ise151844 | A Reliable and Quantitative Characterization of Electrocatalysts Towards the Oxygen Reduction Reaction from LSV/RDE Experiments                                      |
| Ana Fernández-la-Villa    | Oral         | ise150830 | New Strategies to Manufacture Low-cost Thin-film MicroElectrode Arrays for Electroanalysis   |
| Krzysztof Fic             | Oral         | ise151671 | Faradaic and Non-faradaic Interactions at the Electrode/Electrolyte Interface in Electrochemical Capacitors  |
| Marta Figueiredo          | Oral         | ise150065 | CO <sub>2</sub> electroreduction products and intermediates in organic solvents  |
| Michael Fleige            | Oral         | ise150725 | RDE system for ORR measurements at elevated (>100 C) temperature and pressure conditions   |
| Nelly Esther Flores Tapia | Oral         | ise151098 | Comparison of trans-cinnamic and trans-ferulic acids degradation by advanced oxidation processes.  |
| Elżbieta Frąckowiak       | Invited Oral | ise152039 | Towards Green Aqueous Capacitors with Chitin as Binder   |
| Alejandro A. Franco       | Poster       | ise152144 | A flexible framework for solving transport in lithium sulfur batteries   |
| Alejandro A. Franco       | Oral         | ise152006 | Computational data mining to boost the next generation batteries R&D: the composite electrode architecture   |
| Christine Frayret         | Invited Oral | ise151753 | Catalyzing Innovation in Organic Battery Electrodes from Computational Modelling   |
| Maxi Frei                 | Oral         | ise151511 | Fabrication of platinum electrodes with high roughness factor using a 3D-support   |
| Louise Frenck             | Oral         | ise151986 | Study of ceramic-polymer/lithium interface for lithium air batteries   |
| James T. Frith            | Oral         | ise151585 | Homogeneous Catalysts for Li-Oxygen Cells  |
| Carlos Frontana           | Poster       | ise153317 | Electronic Structure Effects on Electron Transfer Controlled Hydrogen Bonding in Substituted Dinitrobenzene Electrogenerated Anions As Receptors for 1,3-Diethylurea |
| Chaopeng Fu               | Poster       | ise150119 | Low-cost and high performance supercapacitors based on up-cycled industrial mill scale   |
| Toshio Fuchigami          | Oral         | ise151522 | Selective Electrochemical Fluorination of Organic Molecules and Macromolecules Using Poly(HF) Salt Ionic Liquids   |
| Satoshi Fujiki            | Oral         | ise151365 | Development of a high energy density sulfide-based all-solid-state battery   |
| Sho Fujita                | Oral         | ise151341 | Property of Oxide Film and Activity of $\text{Li}_x\text{Ni}_{2-x}\text{O}_2/\text{Ni}$ Anode for Alkaline Water Electrolysis  |
| Kazuma Furuhashi          | Poster       | ise150824 | Electrochemical characterization of Marimo carbon supported Pt&#8211;Pd  |

|                                |              |           |   |
|--------------------------------|--------------|-----------|---|
| Koji Fushimi                   | Invited Oral | ise151270 | Photo-electrochemical Degradation of Anodized Titanium Surface Observed using EIS and Ellipso-microscopy  |
| Dorian Gaboriau                | Poster       | ise150897 | Towards Optimal Silicon Nanotrees for Electrochemical Double Layer Supercapacitors: a Systematic Study  |
| Ahmed Galal                    | Poster       | ise150735 | Protection of Al93Mg7 Alloy against Corrosion in NaCl Containing Solutions Using Silane and Silane-Graphene Films   |
| Lin Gan                        | Poster       | ise151845 | Role of Interfaces of Au@Pt Nanoparticles in the Electrocatalysis of Alcohol Oxidation  |
| Xiaorong Gan                   | Poster       | ise152319 | Highly Sensitive Electrochemical Sensor for Cu (II) Ions Based on Three-dimensional Porous HxTiS2 Nanosheet-polyaniline   |
| Lin Gan                        | Oral         | ise151775 | Shaped Pt Bimetallic Nanoparticles: Linking the Anisotropic Growth to the Electrocatalytic Properties   |
| Yang Gao                       | Poster       | ise151507 | In Situ Synthesis of Meso-Porous Manganese Oxides/Sulfur-doped Graphene Sheets Hybrid as a Highly Active Bifunctional Catalyst for Oxygen Evolution and Reduction Reactions |
| Rachel Gao                     | Oral         | ise151748 | Anthraquinone Labelled DNA for Direct Detection and Discrimination of Closely Related DNA Targets   |
| Yang Gao                       | Poster       | ise151472 | A High Performance Anode Material for Solid Oxide Fuel Cells: Ni Exsolution on A-site Deficient La0.4Sr0.4Sc0.9Ni0.1O3- $\delta$  |
| Qingwen Gao                    | Poster       | ise150929 | Preparation of Mesoporous Iron-Nitrogen Co-Doped Hollow Carbon Shells as an Efficient Catalyst for Enhanced Oxygen Reduction Reaction                                       |
| Jose Manuel Garcia             | Poster       | ise150323 | Flexible fibre-based supercapacitors for wearable applications  |
| Daniel Garcia                  | Poster       | ise150108 | Comparison of the Degradation process during the bus application loading cycling in PEMFC   |
| daniel garcia                  | Poster       | ise150062 | Characterization of ultra-low loading MEAs fabricated by electrospray deposition  |
| Arturo-de-Jesus García-Mendoza | Poster       | ise151971 | Minimal instrumentation electroanalytical experimental approach.  |
| Arturo-de-Jesus García-Mendoza | Poster       | ise151968 | Construction and evaluation of reference electrodes for imidazolium-based ionic liquids. An analytical description.   |
| Sergi Garcia-Segura            | Poster       | ise151145 | Electrochemical Oxidation of 2-Naphthol on BDD Anodes: Dissolved Oxygen Participation, Mechanism and Theoretical Calculations   |
| Sergi Garcia-Segura            | Invited Oral | ise151144 | Electrochemical Processes Based on Fenton's Reaction for Wastewater Treatment. An Eco-Friendly, Efficient and Affordable Technology: Then, Now and Tomorrow                 |
| Magdalena Gebala               | Poster       | ise150532 | Dissecting the ion atmosphere around nucleic acids  |
| Bart Geboes                    | Oral         | ise151989 | Activity and Stability of Electrodeposited Nanoporous Catalysts towards the Oxygen Reduction Reaction   |
| Tsukasa Gejo                   | Poster       | ise151623 | High Capacity and High Energy Density of Air Secondary Battery Using Metal Hydride Negative Electrode   |
| Andrew Gewirth                 | Oral         | ise151025 | Electrochemical Stiffness in Lithium Ion Batteries  |
| Niloofer Ghanbari              | Poster       | ise152381 | Glow Discharge Optical Emission Spectroscopy Used for Film Formation Studies on Graphite Electrodes   |
| Jalal Ghilane                  | Poster       | ise150348 | Redox Active Poly(Ionic Liquid) Polymer Brushes: Surface and Electrochemical Properties   |
| Kobra Ghobadi                  | Poster       | ise151216 | Electrocatalytic Synthesis of Cinnamic Acid by Reaction of Electrocatalytic Activated CO <sub>2</sub> with Phenylacetylene  |
| kobra Ghobadi                  | Oral         | ise151431 | A Study of the Catalytic Activity of a Schiff Base Ligand on Electrochemical Reduction of Carbon Dioxide: Indirect Electrocatalytic Synthesis of Isonicotinic Acid          |
| Giyanto Giyanto                | Poster       | ise150639 | The electronegativity effects of maleimide based electrolyte additives in SEI formation of lithium ion battery  |
| Andrey Gnedenkov               | Poster       | ise150191 | Electrochemical Properties and Localized Corrosion of the Mg Alloys with Polymer- and Inhibitor-Containing Composite Coatings: Kinetics and Mechanism                       |
| Jyoti Goel                     | Poster       | ise152756 | Electro-oxidation of ethylene glycol on platinum based bi-metallic catalysts for direct fuel cell application   |
| Yury Gogotsi                   | Keynote      | ise152187 | Two-Dimensional Materials and Electrode Architectures for Capacitive and Pseudocapacitive Energy Storage  |
| Adriano Gomes                  | Oral         | ise151860 | Electrochemical Water Reduction in Highly Concentrated Electrolytes: Theory and Experiments   |
| Maria Gomez-Mingot             | Oral         | ise150361 | Bioinspired Molecular Dithiolene Electrocatalysts for the Hydrogen Evolution Reaction   |
| Alicia Gomis-Berenguer         | Oral         | ise150988 | A glance at the photoelectrochemical response of nanoporous carbon/semiconductor electrodes   |
| Ignacio González               | Invited Oral | ise151284 | Removal of emerging pollutants and biodegradable organic matter from wastewater by combined electrochemical -biological processes   |
| J. Justin Gooding              | Keynote      | ise151034 | Light Activated Electrochemistry: A strategy for performing voltammetry on a monolithic surface where you want, when you want with micron scale spatial resolution          |
| Monika Góral-Kurbiel           | Poster       | ise150308 | The Effect of Nafion Ionomer on Electroactivity of Palladium-Polypyrrole Catalysts for Oxygen Reduction Reaction  |
| Gert Göransson                 | Poster       | ise151213 | A study of the Formation of Co <sub>1-x</sub> FexS <sub>2</sub> in Microwave Synthesis and its Electrocatalytic Properties towards Oxygen Reduction and Hydrogen Evolution  |
| Lo Gorton                      | Oral         | ise151651 | Electrochemical Communication between Photosynthetic Membranes/Cells and Electrodes   |
| Marilia Goulart                | Oral         | ise151033 | The Yin-Yang Nature of Biologically Active Pterocarpanquinones: ROS Release and Alkylating Ability also Revealed by Electrochemistry  |
| Evgeniy Gribov                 | Poster       | ise151869 | The Oxygen Electroreduction Reaction Performance of Pt Catalysts Supported on Commercial Blacks and Nanostructured Carbons: Multiwall Nanotubes and Nanofibers              |
| Valentina Grippo               | Poster       | ise150915 | Comparison of fuel cells based on different cathode and anode enzymes   |
| Min Gu                         | Poster       | ise150340 | Electrochemical Sol <sup>+</sup> Cgel Codeposition of Cu <sub>2</sub> O/SiO <sub>2</sub> Composite Films  |
| Li Guan                        | Poster       | ise150222 | Intact Recovery of Carbon Nanotubes from their Conducting Polymer Composites via Selective Fenton-Oxidation   |
| Ting Guan                      | Poster       | ise151514 | Influence of SEI Film on the Performance of Mesocarbon Microbeads Anode in Li-ion Batteries at Elevated Temperatures  |
| Daniel Guay                    | Oral         | ise151732 | Electroreduction of CO on mesoporous Cu and oxide-derived mesoporous Cu electrodes  |
| Christian Andre Gunawan        | Oral         | ise150233 | Salt-on-a-chip: Miniaturized Ionic Liquid Systems   |
| Christian Andre Gunawan        | Poster       | ise150234 | Scanning Electrochemical Microscopy of Switchable Redox Enzyme Cascades   |
| Yu-Guo Guo                     | Keynote      | ise151591 | Advanced Cathodes and Metallic Anodes for Next-Generation Rechargeable Batteries  |
| Fen Guo                        | Oral         | ise150574 | Preparation of Ni-Co Nanowire Arrays Anode Electrocatalyst and the Performance of Direct Urea-Hydrogen Peroxide Fuel Cell   |
| Pankaj Gupta                   | Poster       | ise150606 | Determination of Melatonin Using a Sensitive Graphene and Co-polymer Composite Based Molecularly Imprinted Sensor   |

|                            |              |           |   |
|----------------------------|--------------|-----------|---|
| Ramona Gutkowski           | Poster       | ise150196 | Improvement of the photoelectrocatalytic performance of BiVO <sub>4</sub> by metal doping and co-catalyst decoration using an optical scanning droplet cell         |
| Geir Martin Haarberg       | Oral         | ise150997 | Sustainable Electrolysis for Electrowinning and Electrorefining of Metals in Molten Salts and Aqueous Electrolytes  |
| Hiroki Habazaki            | Oral         | ise151042 | Oxygen Reduction Activity and Durability of Pt Electrocatalysts Supported on Platelet Carbon Nanofibers   |
| Masa-aki Haga              | Oral         | ise151540 | Photoelectrochemical Response of Hetero-layer Films Composed of Redox-active Ru Complexes: Charge Trapping and Memory Effect  |
| saeedeh hajhosseini        | Poster       | ise151208 | Electrochemical DNA biosensor based on the oracet blue as a lable for detection Helicobacter pylory   |
| Makoto Hamazaki            | Poster       | ise151535 | Evaluation of durability of titanium-niobium oxides mixed with Ti4O7 as non-precious metals and carbon-free cathodes for PEFC in sulfuric acid at 80 oC             |
| Hye Youn Han               | Poster       | ise152123 | Electrochemical Studies at an Interface between Two Immiscible Electrolyte Solutions for CO <sub>2</sub> Reduction  |
| Byungchan Han              | Oral         | ise152102 | Multi-scale Computational Design of Multi-functional Catalyst Materials for Fuel Cells Beyond Conventional Bulk Pt  |
| Joah Han                   | Poster       | ise150756 | Activated CNTs by unzipping and rearrangement for ultra-capacitors  |
| Lianhuan Han               | Poster       | ise150626 | A Novel Processing Method and Simulation Based on Confined Etching Layer Technique  |
| Hongwei Han                | Poster       | ise151833 | Improved Stabilization of Fully Printable Mesoscopic Perovskite Solar Cells with Carbon Electrode and Interface Engineering   |
| En-Hou Han                 | Keynote      | ise151502 | Corrosion Electrochemistry and Surface Film Properties of Alloy 690 in High Temperature Pressurized Water   |
| Xiaogang Hao               | Poster       | ise150139 | Facile Preparation of Electroactive Amorphous $\beta$ -ZrP/PANI Hybrid Film for Potential-Triggered Adsorption of Pb <sup>2+</sup> Ions                             |
| Qingli Hao                 | Oral         | ise151005 | Synthesis of CoFe <sub>2</sub> O <sub>4</sub> / Nitrogen-doped Graphene and Its Catalytic Performance for ORR   |
| Laurence Hardwick          | Poster       | ise150869 | Understanding Proton Conductivity within Porous Organic Cage Networks   |
| Laurence Hardwick          | Invited Oral | ise152191 | In situ infrared spectroscopy on gold substrates to track film formation and intermediates in Li-ion and Li-air electrolytes  |
| Atetegeb Meazah Haregewoin | Oral         | ise151896 | Design of Sulfur Based Electrolyte Additives for Advanced Lithium-ion Batteries   |
| Sara Hassan                | Oral         | ise150238 | Synthesis and characterization of Phosphomolybdate-doped-PEDOT coated Au nanoparticles and their application for electrocatalytic reduction of bromate              |
| Achim Walter Hassel        | Invited Oral | ise152005 | Corrosion studies using non radioactive isotopes of H, Zn and Fe  |
| Masashi Hattori            | Poster       | ise151408 | Operando X-ray absorption spectroscopic study on magnesium metal anode reaction for magnesium rechargeable battery  |
| Anne Hauch                 | Oral         | ise151604 | Ni/YSZ Electrodes Optimized for Stability at High Electrolysis Current Density  |
| Akari Hayashi              | Poster       | ise151850 | Development of a cathode material for durable PEFC through the encapsulation of Pt into carbon mesopores  |
| Tomoaki Hayashi            | Poster       | ise151533 | Kinetics of oxygen reduction reaction on titanium oxide-based catalysts prepared from oxy-titanium tetrapyrzino-porphyrzine in acidic media                         |
| Juan He                    | Poster       | ise151721 | The GOD/Cu-Hemin Metal Organic Frameworks Nanocomposites for Glucose Sensing  |
| Ronghuan He                | Poster       | ise150047 | Cross-Linked Imidazolium-Based Anion Exchange Membranes   |
| Xiaobo He                  | Oral         | ise151376 | The intercalated MoS <sub>2</sub> : an efficient catalyst for electrochemical hydrogen evolution  |
| Xiangnan He                | Poster       | ise150124 | Bi-imidazolium Cation Crosslinked Poly(2,6-dimethyl-1,4-phenylen oxide) Anion Exchange Membranes for Fuel Cell Application  |
| Xiao-Peng He               | Poster       | ise151083 | Electrochemical biosensors for chemical glycobiology  |
| Kristoffer Hedenstedt      | Poster       | ise151899 | Electrochemical Investigation of Water Reduction on Goethite, Lepidocrocite and Mild Steel in Slightly Alkaline Electrolyte   |
| Enrique Herrero            | Oral         | ise151146 | Effect of Acetonitrile Adsorption on the ORR on Platinum Single Crystal Electrodes. A Combined Electrochemical, Spectroscopic and DFT Study.                        |
| Enrique Herrero            | Poster       | ise151701 | Tailoring properties of Pt nanoparticles electrocatalysts towards ethanol oxidation: surface-structure, particles dispersion and pH effect                          |
| Robert Hillman             | Oral         | ise152019 | Dynamic In Situ Neutron Reflectivity Studies of Metal Electrodeposition and Alloy Formation in Ionic Liquid Media   |
| Robert Hillman             | Poster       | ise152014 | Electrochromic Copolymer Film Deposition for Visualization of Latent Fingerprints on Stainless Steel Surfaces   |
| Takahiro Hirai             | Poster       | ise151718 | Composition, Structure, and Kinetics of RuO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> /Ti Anode for Oxygen Evolution in H <sub>2</sub> SO <sub>4</sub> Solutions |
| Ida Hjorth                 | Oral         | ise151880 | Effects from modifying carbon nanofiber supports on metal nanoparticle catalyzed CO <sub>2</sub> reduction  |
| C. Y. Ho                   | Poster       | ise152234 | Electrical Heating Effect of Carbon Nanoparticles as Electrodes in the Charging Process   |
| Tsung-Yeh Ho               | Poster       | ise151297 | The Study of Carrier Transport/Transfer Mechanism inside CZTS/MS(M=Zn, Cd, Cu)/TiO <sub>2</sub> Nanorods for Solar Water Splitting                                  |
| Angelika Holzinger         | Oral         | ise151703 | AFM Tip-integrated Antimony Electrodes for pH Detection   |
| Michael Holzinger          | Keynote      | ise151725 | Graphene and Carbon Nanotubes for Bioelectrochemical applications   |
| Takayuki Homma             | Invited Oral | ise151878 | In situ Analysis of Electrochemical Fabrication Processes Using Raman Spectroscopy with Plasmonic Sensors   |
| Min Young Hong             | Poster       | ise151643 | Improvement of High-Temperature Performance of the LiMn <sub>2</sub> O <sub>4</sub> Positive Electrode by the Addition of Li <sub>3</sub> PO <sub>4</sub>           |
| Hui-Yu Hong                | Poster       | ise151904 | Interaction between Carbon Defects and Polysulfides in Lithium Sulfur Battery   |
| Bang-De Hong               | Poster       | ise150790 | Defective graphene flake-supported Pd nanocubes as electrochemical glucose sensor   |
| Wenjing Hong               | Oral         | ise150546 | Break Junction under Electrochemical Gating: Fermi-level Tuning and Redox Manipulation  |
| Misun Hong                 | Oral         | ise151092 | In Situ Visualization of Li <sub>2</sub> O <sub>2</sub> Decomposition for a Li-O <sub>2</sub> Battery Using Electrochemical Atomic Force Microscopy (ECAFM)         |
| John Horsley               | Poster       | ise151313 | The Correlation of Electrochemical Measurements and Molecular Junction Conductance Simulations in $\beta$ -Strand Peptides  |
| Tsuyoshi Hoshino           | Oral         | ise151135 | Development of Lithium Recovery Technique from Seawater by using Innovative Electrodialysis with Lithium Ionic Superconductor                                       |



|                   |              |           |   |
|-------------------|--------------|-----------|---|
| Shang-Chieh Hou   | Poster       | ise152287 | Characterizations and electrochemical properties of high energy mechanical milled Si as anode for Li-ion batteries  |
| Jan Hrbac         | Oral         | ise151997 | Nanostructured copper-coated carbon microelectrodes for amperometric sensing of carbohydrates prepared by electrochemical/electrophoretic technique             |
| Wang Hsiang-Cheng | Poster       | ise151575 | Improvement on corrosion resistance and conductivity by electroplated coatings on aluminum 5052 bipolar plate of proton exchange membrane fuel cell             |
| David Hsiao       | Poster       | ise151188 | By-Product Detection and Monitoring in Copper Electroplating Baths  |
| Yi-Ting Hsieh     | Poster       | ise150405 | Electrodeposition of Cu-Sn Hexagonal Tubes from Room Temperature Ionic Liquid and its In-Situ Scanning Electron Microscopy Study                                |
| Da-Je Hsu         | Poster       | ise151053 | Supercapacitive Properties of Nitrogen-Doped Graphene Nanosheets on Ti Substrates Prepared by Plasma-Enhanced Chemical Vapor Deposition                         |
| Tien-Hsiang Hsueh | Poster       | ise152097 | Island-like deposition of lithium manganese oxide spinel (LiMn <sub>2</sub> O <sub>4</sub> ) in all-solid-state thin film lithium ion battery                   |
| Chi-Chang Hu      | Invited Oral | ise150722 | Preparation and characterization of Mn oxide-based composites for high-performance asymmetric supercapacitors   |
| Yuming Hu         | Poster       | ise150200 | Microwave-assisted synthesis and characterization of double-shell PtRu catalyst supported on TiO <sub>2</sub> for methanol electrooxidation                     |
| Jin-Song Hu       | Oral         | ise151250 | Designing Efficient Nanocatalysts for Oxygen Reduction Reaction   |
| Xiaoyan Hu        | Poster       | ise151683 | In-situ STM characterization of ionic liquids on Au(111) and HOPG electrodes in the presence of lithium salt  |
| Wei-Bo Hua        | Poster       | ise150939 | Three-dimensional nanostructure of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode material for high power lithium-ion batteries |
| Hao Huang         | Poster       | ise150684 | Quinone Based Polypyrroles for Energy Storage Materials   |
| Peihua Huang      | Oral         | ise151728 | On-chip Carbide Derived Carbon Thin Films for Microsupercapacitors  |
| Chen-Jui Huang    | Poster       | ise151902 | Improving Performance of Lithium-Sulfur Battery by Metal Oxides   |
| Zheng-Chang Huang | Poster       | ise151572 | Pt-free counter electrode of NiCo <sub>2</sub> S <sub>4</sub> by two step dip-coating as dye-sensitized solar cells   |
| Hsin-Chieh Huang  | Poster       | ise152172 | Facile Fabrication of High-Performance All-Solid-State Micro-supercapacitors through Laser Micromachining   |
| Ling Huang        | Poster       | ise150990 | Tuning structure and in situ XRD characterization of Li-rich layered cathode Materials for lithium ion batteries  |
| Yi-June Huang     | Poster       | ise152270 | A Pt-Free Counter Electrode based on Novel Cobalt Diselenide Architectures for Dye-Sensitized Solar Cells   |
| Xuejie Huang      | Invited Oral | ise152188 | High Voltage Cathode Materials LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> for Li-ion Batteries  |
| Cancan Huang      | Poster       | ise150660 | Tuning of charge transport in single molecule with the chemical and electrochemical methods   |
| Yi-June Huang     | Poster       | ise152269 | A Low-Voltage Counter Electrode with a MoSe <sub>2</sub> /PEDOT:PSS Composite Catalytic Film for Dye-Sensitized Solar Cells                                     |
| Hsiao-Chun Huang  | Poster       | ise152216 | Conductive oxide supported Co <sub>3</sub> O <sub>4</sub> nanocomposite as robust catalysts for oxygen reduction and evolution reaction                         |
| Meiqi Huang       | Poster       | ise151391 | Interfacial Lithium-ion Transfer between Graphite Negative Electrode and Sulfide Solid Electrolyte  |
| Hsin-Chih Huang   | Oral         | ise151972 | High Activity Pyrolyzed Iron-FA as Potential Pt-Substitute for Oxygen Reduction Reaction  |
| Shih-Han Huang    | Poster       | ise150958 | Ultra-Sensitive Electrochemical electrode developed for ovarian cancer  |
| Long Huang        | Oral         | ise150740 | In-situ <sup>13</sup> C NMR spectroscopy study of ethanol electro-oxidation on Pt and PtRu  |
| Xiao Huang        | Poster       | ise150179 | Synthesis and Redox Properties of Thiophene-Terephthalate Building Blocks for Low Potential Conducting Redox Polymers   |
| Huin-Ning Huang   | Poster       | ise150832 | Synthesis of Metal Nanoparticle/Graphene Nanocomposites using Atmospheric-Pressure-Microplasma-Assisted Electrochemistry  |
| I-Wen Huang       | Poster       | ise150285 | Assessing and Predicting Concurrent Uniform Corrosion of Aluminum Alloys as a Function of pH, Temperature, Time, and [Cl <sup>-</sup> ]                         |
| I-Wen Huang       | Oral         | ise150232 | Assessing Uniform Corrosion of Aluminum Alloys 2024-T3, 6061-T6, and 7075-T6 in Aqueous Immersion Conditions  |
| Yi-Fan Huang      | Oral         | ise150243 | In-situ identification of electrochemical oxidation of Pt(111) and Pt(100) by Raman spectroscopy assisted by DFT calculation                                    |
| zhao hui          | Poster       | ise151064 | Electrochemical performance of double perovskite Pr <sub>2</sub> NiMnO <sub>6</sub> as cathode for intermediate temperature solid oxide fuel cells              |
| Mao-Chun Hung     | Poster       | ise152207 | Effect of Plating Additives on Microstructure and Properties of Electrodeposited Ni-Fe Alloy  |
| I-Ming Hung       | Poster       | ise151310 | Synthesis and Characterization of High Temperature Proton Conductor Sr(Ce <sub>0.6</sub> Zr <sub>0.4</sub> )O <sub>3-δ</sub> co-doped with Indium and Yttrium   |
| Zhaohui HUO       | Poster       | ise151407 | Original Porphyrin – Polyoxometalate Copolymers: Application for the Photocurrent Generation  |
| Nguyen HUYNH L.T  | Poster       | ise151888 | Electrochemically formed gamma NaV <sub>2</sub> O <sub>5</sub> : A new sodium intercalation compound  |
| RyeoYun Hwang     | Poster       | ise151254 | Multiple On-line NMR System Development to Detect Electrochemical Reactions of Direct Alcohol Fuel Cells  |
| Gyeong S. Hwang   | Keynote      | ise151926 | Understanding and Predicting the Photocatalytic Properties of Bismuth Vanadate from First Principles  |
| Eunkyoung Hwang   | Poster       | ise151741 | Electrocatalysts for CO <sub>2</sub> -C <sub>1</sub> Fuel Inter-conversion  |
| Seung Sik Hwang   | Oral         | ise150461 | Lithium Containing Polymeric Binder for Improved Performance of Li-Ion Batteries  |
| Sunny Hy          | Oral         | ise150922 | Designing In Situ Solid Electrolyte Interphase Studies using Surface-enhanced Raman Spectroscopy  |
| Suyeon Hyun       | Poster       | ise151550 | Porous Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> Nanostructures as Promising Electrocatalyst for Oxygen Evolution Reaction in Alkaline Medium               |
| Shoma Ida         | Poster       | ise151542 | Simulation Analysis of Reaction Distribution in LiFePO <sub>4</sub> Composite Electrodes  |
| Yuki Igaki        | Poster       | ise150709 | Measurement of oxygen consumption of contracting C <sub>2</sub> C <sub>12</sub> myotube using scanning electrochemical microscopy                               |
| Katsuyoshi Ikeda  | Oral         | ise151557 | Surface enhanced Raman observation of molecular adsorbates on atomic local surface sites  |
| Sou Ikeda         | Poster       | ise151344 | Mass Transfer Analysis of Anode-Supported Honeycomb Solid Oxide Fuel Cells  |
| Misako Ikeyama    | Poster       | ise151421 | IL-FE-SEM Study for Ambience Dependence of Degradation of Pt/C Catalyst   |
| Atsunori Ikezawa  | Oral         | ise151624 | Investigations of Triple Phase Boundary Regions in Bifunctional Air Electrodes Using Partially Immersed Platinum Electrodes                                     |

|                   |              |           |  |
|-------------------|--------------|-----------|--|
| Chinwe Ikpo       | Oral         | ise151948 | Lithium Manganese Phosphate-gold Nanoparticles Composite as an Efficient Lithium Ion Electrochemical Capacitor   |
| Changbin Im       | Poster       | ise151552 | Synthesis of High Ionic Conductive L7La3Z2O12 Solid Electrolyte by a Sol-gel Process   |
| Kenta Imai        | Oral         | ise150168 | Effect of Electrode Surface-State Change on Electrogenenerated Chemiluminescence from a Ruthenium-Doped Silica Nanoparticle  |
| Yosuke Imanishi   | Poster       | ise151595 | Development of Intermediate Temperature Fuel Cells using Methylcyclohexane Organic Hydride Fuel  |
| Minoru Inaba      | Invited Oral | ise150554 | Highly Concentrated Electrolytes for 5-V Cathodes  |
| Jesus Iniesta     | Oral         | ise150989 | Electrocatalytic properties of Cu-/Ni-loaded nanoporous carbons for the electrooxidation of alcohols   |
| Hiroshi Inoue     | Oral         | ise151646 | Electrochemical Characterization of an Aqueous Hybrid Capacitor with Zinc and Activated Carbon Electrodes  |
| Akimitsu Ishihara | Oral         | ise151374 | Proposal of Oxide-Based Compounds as Non-Platinum Group Metals and Carbon-Free Cathodes for Polymer Electrolyte Fuel Cells   |
| Masashi Ishikawa  | Invited Oral | ise152214 | Advanced Auxiliary Materials in EDLC for Enhancing Power and Energy  |
| Yukiko Ishimura   | Poster       | ise151664 | Oxygen Reduction on RuO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> Mixed Oxide Catalyst in Alkaline Solution   |
| Kingo Itaya       | Poster       | ise150793 | Application of an Ultra-high Resolution Optical Microscopy ~Imaging of Fast Reactions with Single Atomic Step Resolution~  |
| Yuya Ito          | Poster       | ise150978 | Control of Crystal Orientation of Electrodeposited Aluminum Films from Bath Using DMSO <sub>2</sub> as a Solvent   |
| Matteo Iurlo      | Poster       | ise151903 | Nanostructured Systems for Electrocatalysis of Oxygen Reduction Reaction   |
| Etsuro Iwama      | Oral         | ise151410 | Ultrafast Electrochemical Characteristics of nc-TiO <sub>2</sub> (B)/Nanocarbon Composites for Hybrid Capacitor System   |
| Atsushi Iwanaga   | Poster       | ise150463 | Numerical Simulation of Current Density Distribution between Vertical Cu Electrode   |
| Emmanuel Iwuoha   | Oral         | ise151108 | Biocompatible Quantum Dots and Conducting Polymer Nanocomposites in Disease Signalling Biosensors  |
| Nicolas Jäckel    | Poster       | ise150716 | In-situ monitoring of elastic properties of common binders in Lithium ion batteries via electrochemical quartz microbalance with dissipation and dilatometry         |
| Daliborka Jambrec | Oral         | ise150125 | Diving into the Mechanism of Potential-Assisted ssDNA Immobilization   |
| Jooyoun Jeong     | Poster       | ise151484 | Mesocellular Carbon based Electrodes for High-Performance Vanadium Redox Flow Battery  |
| Ye-Jin Jeong      | Poster       | ise151023 | Effect of Simulated Foullants on Membrane Fouling in Reverse Electrodialysis   |
| JunHui Jeong      | Oral         | ise150678 | Fabrication of Graphene Microspheres for High Performance Supercapacitor Applications  |
| Jaehyang Jeong    | Poster       | ise151483 | Highly crosslinked graphene framework for tin dioxide anodes of excellent lithium-storage capability and cyclability   |
| Hwakyung Jeong    | Poster       | ise150658 | Electrodeposition of Nanoflake Pd Structures: Structure-Dependent Wettability and SERS Activity  |
| Hwakyung Jeong    | Poster       | ise150655 | Electrodeposition of Nanoflake Pd Structures: Structure-Dependent Wettability and SERS Activity  |
| Fabian Jeschull   | Poster       | ise151737 | Functional Binders - SEI Formers, Dispersants and Local Electrolyte Components   |
| Lars Jeuken       | Invited Oral | ise150535 | Lipid-Membrane Modified Electrodes to Study Respiratory Membrane Enzymes and their Complexes in a Native-Like Lipid Environment                                      |
| Pawel Jezowski    | Oral         | ise151719 | New materials for in-situ pre-lithiation of the graphite anode in lithium ion capacitor  |
| Pawel Jezowski    | Poster       | ise151884 | Activated carbon electrode expansion during EDL charging in various salt aqueous electrolytes  |
| Jia-Lin Jhan      | Poster       | ise151321 | Corrosion of Indium Tin Oxide Films in SiO <sub>2</sub> Solutions  |
| Jia-Lin Jhan      | Poster       | ise151334 | Effects of constant on-off current pulse on the properties of Cu <sub>2</sub> O films fabricated by electrochemical deposition method                                |
| yajun Ji          | Poster       | ise152057 | Controllable synthesis of spherical carbon materials and their electrochemical performance   |
| Xuan Jian         | Poster       | ise150267 | Graphene-Carbon Nanofibers Composite Film As a Highly Active Catalyst Support for Formic Acid Electrooxidation   |
| Shun-Yi Jian      | Poster       | ise152218 | Electrochemical Corrosion Behavior of Permanganate Conversion Coating on AZ31B Magnesium Alloys - Long Term Evaluation by EIS  |
| Yan-Xia Jiang     | Oral         | ise150265 | Pt <sub>3</sub> Ni intermetallic with Pt-rich surface supported on porous carbon as a high efficient electrocatalyst for oxygen reduction reaction                   |
| Dechen Jiang      | Oral         | ise152082 | Luminol Electrochemical-luminescence for Single Cell Analysis  |
| Kun Jiang         | Oral         | ise150843 | C1 Molecule Adsorption-Dissociation on Pt and Cu-modified Pt Electrode Surfaces  |
| Yi-Feng Jiang     | Poster       | ise151796 | Determination of Adsorbed Species of Hypophosphite Electrooxidation on Ni electrode by in situ Infrared with Shell-isolated Nanoparticle-enhanced Raman Spectroscopy |
| Qiu Jiang         | Poster       | ise152249 | A General Strategy for the Fabrication of High Performance Microsupercapacitors  |
| Ryosuke Jinnouchi | Invited Oral | ise150380 | Atomistic Simulations for Designing High-Performance Electrode Materials for Polymer Electrolyte Fuel Cells  |
| Hyuntak Jo        | Poster       | ise151430 | Correlation between Interfacial Reaction Behavior and Cycling Characteristics of Silicon-based Anodes in Li-ion Batteries  |
| Miikka Jokinen    | Oral         | ise151449 | Thermal membrane potential - Application to thermoelectric power generation  |
| Jiyong Joo        | Poster       | ise150625 | New Insight into Direct Formic Acid Fuel Cells   |
| Jiyong Joo        | Poster       | ise152186 | Ultrathin metal oxide layer on carbon electrode by atomic layer deposition (ALD) for capacitive deionization   |
| Bohdan Josypczuk  | Poster       | ise150295 | Biosensors with Electrochemical Detection at High Negative Potentials in Flow Systems  |
| T. Richard Jow    | Keynote      | ise152246 | Challenges and Progress in Developing High Voltage Li-ion Batteries  |
| Huangxian Ju      | Poster       | ise152206 | Amplified Electrochemical Analysis of DNA and Proteins   |
| Joanna Juhaniwicz | Oral         | ise151687 | Application of Natural Cationic Peptides as Potential Antibacterial Agents   |
| Sunhyung Jung     | Poster       | ise150772 | Low Temperature Characteristics of Surface Film Derived from Elemental Sulfur Additive on Graphite Negative Electrode  |
| Tilman Jurzinsky  | Oral         | ise151388 | A DEMS Study on the Influence of Ag Add-Atoms on Pd-based Catalysts for Methanol Oxidation in Alkaline Environment   |
| Payam Kaghadzchi  | Invited Oral | ise151111 | Theoretical Study of Lithium-Sulfur Battery Cathodes   |
| Takashi Kakiuchi  | Oral         | ise151877 | Single ion activity, pH, liquid junction potential, and the essence of electrochemistry: in response to "A pH centenary" by Robert de Levie                          |
| Shingo Kaneko     | Poster       | ise150776 | Size-regulated Precursor-Based Synthesis of Lithium-Rich Layered Cathode Material Deriving High Rate Capability  |

|                             |              |           |  |
|-----------------------------|--------------|-----------|--|
| Joonhee Kang                | Poster       | ise150806 | First principles study of thermal stability of LiNiO <sub>2</sub> materials coated with ultrathin amorphous Al <sub>2</sub> O <sub>3</sub> layers  |
| Moon-Sung Kang              | Poster       | ise151600 | Performance Enhancement of Perovskite-based Solar Cells with TiO <sub>2</sub> Scaffold by Optimizing Electron-Hole Transport   |
| Moon-Sung Kang              | Poster       | ise151587 | Optimization of Ionomer Membrane Characteristics for High Performance Reverse Electrodialysis  |
| Kisuk Kang                  | Invited Oral | ise152162 | Olivine with zero anti-site defect and three dimensional lithium diffusion paths   |
| Maciej Karaskiewicz         | Oral         | ise151212 | Probing Laccase Immobilization on Modified Gold Electrodes and Conformational Changes by Surface-Enhanced Infrared Absorption Spectroscopy   |
| Enno Kätelhön               | Oral         | ise150320 | First-Passage Statistics in Nanoelectrochemistry: Applications to Nano-Impacts   |
| Masaru Kato                 | Poster       | ise151521 | In Situ X-ray Absorption Fine Structure Spectroscopy of Dinuclear Copper Catalyst under Oxygen Reduction Reaction Conditions   |
| Takehisa Kato               | Poster       | ise151366 | Oxide-Based All-Solid-State Rechargeable Lithium Batteries with LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> -Glass Ceramic Solid Electrolyte Composite Prepared by Aerosol Deposition |
| Ioannis Katsounaros         | Oral         | ise151158 | Electrochemical Oxidation of Ammonia on Pt(100) in Alkaline Solutions  |
| Ladislav Kavan              | Oral         | ise150529 | Novel Cathode and Photocathode Materials for Dye-Sensitized Solar Cells  |
| Kenji Kawaguchi             | Poster       | ise151296 | Reaction Selectivity of IrO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> Nano-Amorphous Hybrid Catalysts for Oxygen Evolution and Metal Oxide Deposition   |
| Nozomi Kawakami             | Poster       | ise151797 | Fundamental Studies on Oxygen Reduction Reaction and Hydrogen Peroxide Reduction Reaction with RRDE Technique  |
| Sho Kawamura                | Poster       | ise150942 | Pulse Electroplating of Cu-Mo Alloy on Film Using Disodium Molybdate   |
| Abdel-Nasser Kawde          | Poster       | ise150683 | Successful Strategies to Overcome the Carbon Electrodes Surfaces Fouling of Phenols  |
| Tomáš Kazda                 | Poster       | ise151910 | Influence of the Used Carbons and Binders to the Electrochemical Properties of Li-S Cathode  |
| Honorata Kazmierczak        | Poster       | ise151740 | Electrodeposition of Zn-Mn-Mo layers from citrate solutions  |
| Kamiya Kazuhide             | Oral         | ise150067 | Platinum-modified Covalent Triazine Frameworks as Methanol-tolerant Oxygen Reduction Electrocatalysts  |
| Peter Keech                 | Oral         | ise151887 | Copper Coatings for Used Nuclear Fuel Containers: Corrosion Testing  |
| Peter Keech                 | Poster       | ise151892 | Electrodeposited Copper Coatings for Used Fuel Containers  |
| Geoff Kelsall               | Keynote      | ise151217 | Electrode Structural Effects on Solid Oxide Electrolyser Performance   |
| Ertugrul Keskin             | Poster       | ise151227 | Electrochemical determination of Norepinephrine by adsorptive stripping voltammetry using a boron doped diamond electrode  |
| Babak Khalaghi              | Poster       | ise150883 | Supplying of Methane through Porous Carbon Anodes during Aluminium Electrolysis  |
| Mohammad Hassan Khanmirzaei | Poster       | ise150081 | Effect of 1-Hexyl-3-Methylimidazolium Iodide Ionic Liquid and Biopolymer Hydroxypropyl Cellulose on Performance of Dye-Sensitized Solar Cell   |
| Donghyun Kil                | Poster       | ise150587 | Development of short-termed and highly effective graphite felt surface treatment process for all-vanadium redox flow battery applications  |
| Joosun Kim                  | Poster       | ise151934 | Catalytic Performance and Characterization of Iron Oxide-Based Composite Catalyst for Reduction of CO <sub>2</sub>   |
| Sungjin Kim                 | Poster       | ise152142 | Potential host of amorphous iron phosphate for various charge carrier ions   |
| Jongjung Kim                | Poster       | ise151136 | Failure mechanism of SiO <sub>2</sub> negative electrode during high temperature storage   |
| Minjin Kim                  | Poster       | ise152050 | Simulated Design of High-altitude Long-endurance Unmanned Aerial Vehicles using Regenerative Fuel Cell Systems   |
| Jong-Huy Kim                | Invited Oral | ise152077 | Oxygen Functional Groups of Incompletely Reduced Graphene Oxides for a Thin-film Electrode of Supercapacitor   |
| Joon soo Kim                | Poster       | ise152064 | Synthesis of Si Nanoparticles by Atmospheric Microwave Plasma  |
| Bongkyu Kim                 | Oral         | ise151312 | Commercialization Strategies of Microbial Fuel Cells: Prevention of Voltage reversal in Stackable Approach   |
| Seung-Gon Kim               | Poster       | ise151675 | Segmented-cell approach for studying effect of accelerated stress test on PEMFC current distribution   |
| Hong-Ki Kim                 | Poster       | ise151481 | Electrochemical Properties of Na, V, Mn Doped Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> as Anode Material for Cylindrical Hybrid Supercapacitor  |
| Gha-Young Kim               | Poster       | ise150093 | Actinide Recovery using Anode-Liquid Cathode Module for Pyroprocessing   |
| Sung-Wook Kim               | Oral         | ise150095 | Conductive Ceramics as O <sub>2</sub> -Evolving Anodes for Electrolytic Reduction of Metal Oxides  |
| Duri Kim                    | Poster       | ise151644 | Effect of Electrode Composition on the Electrochemical Performance of the MnO Negative Electrode Materials for Li-ion Batteries  |
| Do-Hyeong Kim               | Poster       | ise151605 | Development of Novel Bipolar Membranes for Efficient Electro-Adsorptive Deionization   |
| Jin Hyeon Kim               | Poster       | ise151443 | Ultra High Electrochemical Performances of Cylindrical Hybrid supercapacitor using Nb doped H <sub>2</sub> Ti <sub>2</sub> O <sub>25</sub> /Activated carbon   |
| Do-Hyeong Kim               | Poster       | ise151607 | Determination of optimal design parameters for preparing ion-exchange membranes for efficient redox flow batteries   |
| Eun Joong Kim               | Poster       | ise151631 | Fabrication of Artificial Synaptic Interfaces Using Engineered Synaptic Adhesion Proteins  |
| Jin Yeong Kim               | Poster       | ise151745 | Ru/M Bi-layered Oxide Catalysts for Oxygen Evolution Reaction (OER) in Acidic Water Splitting  |
| Kwang Man Kim Kim           | Poster       | ise150078 | Activated Carbon Supercapacitor Properties Using the TEABF <sub>4</sub> -Based Electrolyte Solution with a Lithium-Modified Silica Nanosalt  |
| Seulki Kim                  | Poster       | ise151731 | Synthesis of Pt-CuO Composite via Electrodeposition Followed by Galvanic Replacement-Heat Treatment and Its Application to Non-Enzymatic Glucose Sensor  |
| Nam Seon Kim                | Poster       | ise150638 | The High Performance Silicon Anodes Including New Water Based Binder in Lithium Ion Batteries  |
| Jong-Hoon Kim               | Poster       | ise151485 | Toward Cost Effectiveness of Alkaline Water Electrolysis for Hydrogen Economy  |
| Kwang-Bum Kim               | Keynote      | ise150677 | Graphene-based Nanomaterials for Energy Storage Devices  |
| Ick-Jun Kim                 | Poster       | ise150993 | Effects of joule-heating on the activated carbon for improved electric double layer capacitor  |
| Dong-Wan Kim                | Poster       | ise150860 | Three Dimensional Cu/C/Ge Heterostructured Electrodes for High-performance Li ion Batteries  |
| Hyungjun Kim                | Poster       | ise150872 | Toward efficient electrochemical conversion of CO <sub>2</sub> : catalyst design accelerated by simulation-based screening   |
| Taro Kimura                 | Poster       | ise150765 | Anion-conductive areas on anion exchange membranes analyzed by current-sensing atomic force microscopy under controlled conditions   |
| Shuhei Kimura               | Poster       | ise151710 | Effects of Precursor Solution on Morphology and Catalytic Activity of RuO <sub>2</sub> -based Ti anode for Oxygen Evolution  |
| Toshio kimura               | Poster       | ise151468 | In-Situ SEM Observations of Li Plating/Stripping Reactions through Li-Pt Alloying on a LiPON Electrolyte   |

|                         |              |           |  |
|-------------------------|--------------|-----------|--|
| Rajendranath kirankumar | Poster       | ise150406 | Electropolymerized Carbazole-Containing Ionic Liquid   |
| Kazuaki Kisu            | Poster       | ise151415 | Detailed Analysis on Carbon-Nested Ultrafast nano-LiFePO <sub>4</sub> Prepared by Means of Ultracentrifugation for Hybrid EES  |
| Yuta Kitada             | Poster       | ise151079 | X-ray spectroscopic analyses of electronic states on quinone-based cathode materials for Li-ion batteries  |
| Atsushi Kitada          | Oral         | ise151708 | Room Temperature Electrodeposition of Elemental Magnesium and Aluminum from Glyme-Based Electrolytes   |
| Yuya Kitaguchi          | Poster       | ise151786 | Study on Ion conductivity of Mg-Al Layered Double Hydroxides prepared by electrochemical co-precipitation method.  |
| Richard Kloepsch        | Poster       | ise152217 | Investigation of surface and bulk structural modifications in Li/Mn-rich cathode materials of Li-ion batteries using X-ray absorption spectroscopy                         |
| Masahiro Kobayashi      | Poster       | ise151616 | Synthesis of nanoparticle-type new proton conductor made from d-glucose by a hydrothermal method   |
| At&#305;f Koca          | Poster       | ise150998 | Electrocatalytic and Photocatalytic Hydrogen Production  |
| Reinhold Koch           | Poster       | ise152052 | On the Influence of Mechanical Compression on the Impedance of Aged LiFePO <sub>4</sub> - Graphite Cells   |
| Kensaku Kodama          | Oral         | ise150881 | ORR activities of Au-Modified Stepped Pt Single Crystal Electrodes   |
| Line Koefoed            | Poster       | ise151003 | Simultaneous Covalent Assembling of Two Different Organic Films on Glassy Carbon Using Bipolar Electrochemistry  |
| Ichiro Koiwa            | Poster       | ise150940 | Zn-AlOx(OH) <sub>y</sub> Composite Films Prepared from Non-Suspended Solution by Electrochemical Technique   |
| Kouakou Boniface Kokoh  | Oral         | ise150074 | Effective Pd-based Electrode Nanomaterials for H <sub>2</sub> /O <sub>2</sub> Solid Polymer Electrolyte Fuel Cells   |
| Jan Philipp Kollender   | Poster       | ise151970 | In-situ monitoring of metal dissolution during anodisation of Al and Ti  |
| Kazuo Kondo             | Invited Oral | ise150292 | Extremely Fast Filling by V-shape TSV and Cu(I)thiolate accumulation   |
| Ivan Kondov             | Oral         | ise150713 | Modelling, Simulation and Characterization of Electrocatalytic Oxygen Reduction on Cr-modified Ni Surfaces   |
| Veniamin Kondratiev     | Poster       | ise150072 | Comparison of Electrochemical Properties of Hybrid PEDOT/MnO <sub>2</sub> Composite Materials Prepared by Different Methods  |
| Veniamin Kondratiev     | Oral         | ise150071 | Effect of Conducting Polymer Dispersion PEDOT:PSS on Electrochemical Performance of Composite LiFePO <sub>4</sub> Cathode for Lithium-Ion Batteries                        |
| Lingbin Kong            | Poster       | ise150386 | Nanocrystalline vanadium trioxide as negative electrodes for asymmetric supercapacitors  |
| Lingbin Kong            | Poster       | ise150387 | Template-free synthesis of porous Co <sub>3</sub> O <sub>4</sub> @C hierarchical structure for high performance lithium-ion batteries                                      |
| Boram Koo               | Poster       | ise151976 | Thermal modeling of a lithium-ion battery module for hybrid electric vehicle applications  |
| Bahadir K. K rbahti     | Invited Oral | ise150362 | Electrochemical Processes for Green Environment: the emerging technology in wastewater treatment   |
| Ruud Kortlever          | Oral         | ise150894 | Electrochemical CO <sub>2</sub> Reduction on Pd-based Bimetallic Catalysts   |
| Hiroyuki Koshikawa      | Oral         | ise150591 | Heat-treated 3,5-diamino-1,2,4-triazole/graphene Hybrid Functions as an Oxygen Reduction Electrocatalyst with High Activity and Stability                                  |
| Robert Kostecki         | Poster       | ise152276 | Near-Field Optical Spectroscopy and Imaging of the SEI Layer on Sn, Si and Graphite Li-ion Anodes  |
| Akira Kotani            | Poster       | ise150289 | High-performance Liquid Chromatography with Electrochemical Detection for Determining a Ratio of Eicosapentaenoic Acid to Arachidonic Acid in Human Plasma                 |
| Damian Kowalski         | Oral         | ise151099 | TiO <sub>2</sub> Nanotubes with Wide Spacing – a Platform for Electrodeposited Nanostructures  |
| Denis Kramer            | Invited Oral | ise150674 | Theoretical Thoughts on Electronic Interactions between Metallic Electrocatalysts and Oxide Supports   |
| Christine Kranz         | Keynote      | ise150962 | Investigation of pore forming proteins in supported lipid membranes  |
| Katharina Krischer      | Poster       | ise151211 | Peculiar Excitation Waves during CO Electrooxidation on Pt Electrodes in an Electrochemical Flow Cell  |
| Petr Krtil              | Oral         | ise151969 | Dynamics of Pt/Ru Based Alloy Catalysts in Formate Oxidation Process – a DFT and In-Situ XAS Approach  |
| Katarzyna Krukiewicz    | Poster       | ise150704 | Local Delivery of Biologically Active Compounds Based on Conjugated Polymer Matrices   |
| Katarzyna Krukiewicz    | Poster       | ise150703 | Nucleation and Growth of PEDOT on the Surface of Horizontally Aligned Carbon Nanotubes   |
| Pawel Kryszynski        | Oral         | ise150841 | Magnetic Nanoparticles and Magnetoliposomes as Anticancer Drug Carriers  |
| Fabian Kubanek          | Oral         | ise150911 | From Quantitative Differential Electrochemical Mass Spectrometry Experiments to Electrochemical Surface Reaction Models  |
| Anthony Kucernak        | Oral         | ise151795 | Is the Tafel approximation sufficient to predict electrocatalyst performance in polymer electrolyte fuel cells?  |
| Anthony Kucernak        | Poster       | ise151793 | New palladium phosphide catalysts for fuel cell relevant reactions   |
| Alexander Kuhn          | Keynote      | ise150262 | Supramolecular Enantioselective Recognition at Mesoporous Chiral Metal Surfaces  |
| Pawel J. Kulesza        | Oral         | ise151090 | Development and Characterization of Nanostructured Multifunctional Materials for Photoelectrochemical and Electrocatalytic Reduction of Carbon Dioxide and Water Splitting |
| Sadig KuliyeV           | Poster       | ise151659 | High Power Solid Oxide Fuel Cell Stack Development   |
| Kousuke Kumamoto        | Poster       | ise151669 | Effects of Composition of Amorphous IrO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> Coatings on Oxygen Evolution in Alkaline Solutions                                    |
| Swami Kumaraguru        | Keynote      | ise152232 | PEMFC Cathode Performance and Durability Challenges at Low Platinum Loading  |
| Chao-Yen Kuo            | Poster       | ise152272 | Application of Amorphous Carbon-Coated Electrodes in Vanadium Redox Flow Battery   |
| Liang-Yin Kuo           | Poster       | ise152320 | Highly Stable Sn-C Nanocomposite as an Anode Material for Lithium ion Batteries  |
| Song-Zhu Kure-Chu       | Poster       | ise150325 | Facile Formation of 3D Nanoporous Anodic TiO <sub>2</sub> -TiN Composite Films as Anode Materials for Lithium Rechargeable Batteries                                       |
| Song-Zhu Kure-Chu       | Poster       | ise150324 | Thermal Stability and Sulfidizing Resistance of High Reflective Sn/Ag <sub>3</sub> Sn-based Films Electrodeposited on Cu   |
| Seung-Ryong Kwon        | Poster       | ise151639 | Reverse Electrodialysis (RED) as a New Electrical Power Source for a Drug Delivery System  |
| Fabio La Mantia         | Invited Oral | ise150868 | Aqueous Zinc-Ion Batteries based on Prussian Blue Derivatives  |
| Eric Labbe              | Oral         | ise150887 | An electrochemical overview of the oxidative chemistry of ferrocenophanic and ruthenocene antiproliferative drugs  |
| Matthew Lacey           | Poster       | ise151847 | Detailed "Mapping" of Internal Resistance in Li-S Batteries  |
| Matthew Lacey           | Oral         | ise151840 | Self-Discharge and Cycling Stability in the Li-S System: Where Every Cell Component Plays a Role   |
| Chen-Hsuan Lai          | Poster       | ise151642 | Silicon-carbon anode by plasma enhanced chemical vapor deposition for lithium-ion batteries  |
| Pei-Yu Lai              | Oral         | ise152260 | Metallic Glass Coatings for Aluminum Current Collectors $\mu$ V Corrosion Inhibition   |
| Yeh-Hung Lai            | Oral         | ise152146 | Shorting in Proton Exchange Membrane Fuel Cells  |
| Stanley Lai             | Poster       | ise150082 | Nucleation, Growth and Detachment of Silver Nanoparticles during Electrodeposition   |

|                     |              |           |  |
|---------------------|--------------|-----------|--|
| Daniel Lardizabal   | Poster       | ise152044 | Comparison of Nitrogen Self-Doped Electrocatalysts Synthesized by Pyrolysis for ORR  |
| Florian Le Formal   | Invited Oral | ise152177 | Solution-Processed Nanostructured p-type Photocathodes for Solar Hydrogen Production   |
| Phung LE M.L        | Poster       | ise151863 | SYNTHESIS AND ELECTROCHEMICAL STUDY OF Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> AS ELECTRODE MATERIAL FOR HIGH PERFORMANCE RECHARGEABLE BATTERY   |
| Jooyul LEE          | Poster       | ise152070 | Manufacturing of Micro Probe Tip through Ni Alloys Electroplating  |
| Jae Gil Lee         | Poster       | ise151247 | A quantitative analysis on the failure mechanism of nano-Si electrode and the effect of fluoroethylene carbonate   |
| Dongil Lee          | Oral         | ise152166 | Electrochemistry of Atomically Precise Metal Nanoclusters  |
| Seunghwa Lee        | Poster       | ise152156 | The pH Effect on the Electrochemical Reduction of Carbonate Species over Metal Oxide Electrodes  |
| Min-Han Lee         | Poster       | ise152310 | Thin Films of Functionalized Prussian Blue Nanoparticles Chemically Bound with Enzyme for Cholesterol Sensing  |
| Eunsu Lee           | Poster       | ise150165 | Development of Nanofiber Reinforced PEM Impregnated with Hydrocarbon Polymer Electrolytes  |
| Shih-Wei Lee        | Poster       | ise151429 | Novel Poly(ether sulfone)s with Clustered Sulfonic Groups for PEMFC Applications at Various Relative Humidity  |
| Seunghwa Lee        | Poster       | ise151101 | On The Role of Cl <sup>-</sup> : Synergistic Effects with Cu <sub>2</sub> O for The Electroreduction of CO <sub>2</sub> to Multi-Carbon Fuels  |
| Hye Jin Lee         | Invited Oral | ise151242 | Electrochemistry with Nanobioconjugates and Soft Interfaces for Sensing Applications   |
| Jeong Beom Lee      | Poster       | ise150955 | Combined Theoretical Ab-initio and Experimental Study on LiVO <sub>3</sub> , A Novel Conversion-type Negative Electrode for Lithium-ion Batteries  |
| Tae-jin Lee         | Poster       | ise150778 | A comparative study on Li <sup>+</sup> ion migration characteristics in the interphases of positive and negative electrodes  |
| Hwa Jin Lee         | Poster       | ise150469 | Application of modified rosin-derivatives as promising adhesives for lithium titanium oxide electrodes in lithium ion batteries  |
| Hyejin Lee          | Poster       | ise151285 | Proton Conducting Composite Membranes with Improved Oxidative Stability for PEMFC  |
| Po-Han Lee          | Poster       | ise151693 | Unexpected Cycle Aging of a Commercial 18650 Cell  |
| Won Jae Lee         | Poster       | ise151354 | The performance of All Solid State Li ion Battery with Composite Sulfide Solid Electrolyte   |
| Jun-Seob Lee        | Oral         | ise151268 | Passivation Behavior of Type-316L Stainless Steel in the Presence of Hydrogen Sulfide Ions Generated from Liquid-Phase Ion Gun   |
| Hunhyeong Lee       | Oral         | ise151825 | Nano-scaled BZY buffer layer between cathode and electrolyte for long-term stability in proton conducting fuel cell  |
| Jeong Hyun Lee      | Poster       | ise151466 | Tunable Performance of Hybrid Supercapacitor using Hetero materials of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -H <sub>2</sub> Ti <sub>12</sub> O <sub>25</sub> anode                                    |
| Min-Ku Lee          | Oral         | ise151619 | Bi/Au Bimetallic Electrode for Simultaneous Detection of Multiple Heavy Metal Ions   |
| Seung-Hwan Lee      | Poster       | ise151475 | Improved Electrochemical Performance of Hybrid supercapacitor using highly dispersed Carbon-AIPO <sub>4</sub> binary coated H <sub>2</sub> Ti <sub>12</sub> O <sub>25</sub> as anode                             |
| Sewook Lee          | Poster       | ise152061 | Improvement of BCZY based Proton-conducting Fuel Cells by Cathode Surface Modification through Infiltration  |
| Dong Wook Lee       | Poster       | ise150579 | Enhancement on ORR Activity of N-Doped Carbon Catalysts Derived from Melamine Based Polymer  |
| Juhan Lee           | Oral         | ise151482 | Hybrid capacitors for moderate energy storage and high power applications: double layer formation and soluble redox couples  |
| Sojeong Lee         | Poster       | ise151286 | Crosslink-free highly sulfonated multi-block poly(arylene ether sulfone) multi-block membranes for PEMFC   |
| Olivier LEFEBVRE    | Poster       | ise150675 | Graphene-based electrodes: a new promising material for a more competitive electro-Fenton technology   |
| Xue Leng            | Poster       | ise150193 | Reduction Induced Surface Amorphization Enhances Oxygen Evolution Reaction Activity in Co <sub>3</sub> O <sub>4</sub>  |
| Kamila Lepicka      | Poster       | ise152306 | Spectroelectrochemical characterization of a salicylidene Ni(II) redox conducting polymer for supercapacitors  |
| Yann Leroux         | Poster       | ise150882 | Nanostructured Monolayers on Carbon Substrates.  |
| Yann Leroux         | Oral         | ise150885 | Locally Self-induced "electro-click" onto self-assembled monolayer: Evidence for surface self-catalysis propagation.   |
| Andreas Lesch       | Poster       | ise150215 | Preparing electrocatalysts for energy conversion by inkjet printing and photonic curing in one fabrication process   |
| Andreas Lesch       | Oral         | ise150079 | Nano-Hydrogel Modified Carbon Nanotubes Electrodes for Antioxidant Monitoring in Complex Samples   |
| christophe lethien  | Oral         | ise151204 | On chip 3D pseudocapacitive and carbon based electrochemical microsupercapacitors at the wafer level   |
| Philipp Lettenmeier | Poster       | ise150718 | Synthesis and Characterization of Highly Active Ir Nanoparticles for Oxygen Evolution Reaction in Acid Media   |
| Philipp Lettenmeier | Oral         | ise150711 | Durable MEAs for PEM electrolyser systems operating at high current densities  |
| Abdulkadir Levent   | Poster       | ise151070 | Simultaneous Determination of Ascorbic acid, Norepinephrine and Uric acid by Differential Pulse Voltammetry on a Disposable Pencil Graphite Electrode in the Pharmaceutical Formulations and Human Urine Samples |
| Abdulkadir Levent   | Poster       | ise150851 | Simultaneous Determination of Ascorbic Acid, Epinephrine and Uric Acid by Differential Pulse Voltammetry on a Disposable Pencil Graphite Electrode   |
| Andrzej Lewandowski | Oral         | ise150130 | Li-ion battery operation limits  |
| Jing-Mei LI         | Oral         | ise150135 | The influence of Pore Size Distribution and surface area both are analyzed by QSDFT on capacitance and ESR of EDLC consists of activated carbon from coal tar pitch  |
| FEI LI              | Poster       | ise150300 | Imaging of electrocatalytical activities of mixed transition metal oxides for oxygen reduction reaction with scanning electrochemical microscopy   |
| Genxi Li            | Poster       | ise151139 | Fabrication of Electrochemical Biosensor by Using Peptide as a New Kind of Recognition Element   |
| Zhaohui Li          | Poster       | ise150980 | A batwing-like SiO <sub>2</sub> /PVdF-g-PMMA membrane for high-performance lithium-ion batteries   |
| Jianming Li         | Oral         | ise150504 | Characterization of the microstructure of reservoirs using electrodeposition method  |
| Xiaopeng Li         | Oral         | ise150083 | High performance mesoporous metallurgical silicon nanowire anode for lithium ion batteries   |
| Po-Chieh Li         | Poster       | ise151343 | Synthesis and characterization of MnO <sub>2</sub> /carbon black air cathodes for zinc-air batteries   |
| Chun-Ting Li        | Poster       | ise152291 | Earth Abundant Iron Diselenide Nanorod Arrays as the Flexible Electro-Catalytic Counter Electrode for Dye-Sensitized Solar Cells   |
| Biao Li             | Poster       | ise152048 | Tuning the Electronic Structure of Layered Oxides Electrodes for Reversible Anionic Redox in Lithium Ion Batteries   |
| Chun-Ting Li        | Poster       | ise152290 | Microemulsion-assisted Zinc Oxide Synthesis: Morphology Control and its Applications in Photoanodes of Dye-Sensitized Solar Cells  |

|                     |              |           |  |
|---------------------|--------------|-----------|--|
| Ximeng Li           | Poster       | ise151386 | Ion Transport in Graphite Composite Electrode  |
| Yingchun Li         | Poster       | ise151404 | Ultrasensitive electrochemical sensing of metronidazole using molecularly imprinted polymer decorated hollow nickel nanospheres on carbon nanotubes  |
| Li Li               | Poster       | ise150629 | Insight into the effect of oxygen vacancy concentration on the catalytic performance of MnO <sub>2</sub>   |
| Guoru Li            | Poster       | ise151382 | Preparation and Catalytic Activity of LaSr <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3</sub> Catalyst for Oxygen Reduction Reaction  |
| Jiezhen Li          | Poster       | ise150752 | Assessment of Electrolyte Cation Effect on the Electron Transfer Kinetics of [SiW <sub>12</sub> O <sub>40</sub> ] <sup>4-</sup> /5- and [SiW <sub>12</sub> O <sub>40</sub> ] <sup>5-</sup> /6- Processes Using a Boron-Doped Diamond Electrode |
| Lixiang Li          | Oral         | ise151255 | Enhanced Electrocatalytic Activity of Platinum Nanoclusters Loaded on the Porous and Graphitized N-doped Carbon Layer Coated Carbon Nanotubes  |
| Jie Li              | Oral         | ise151630 | Synthesis and electrochemistry performance of Na[FeTi]O <sub>4</sub> as anode material for sodium-ion batteries  |
| Yu-An Li            | Oral         | ise151610 | Using AZO as a Conductive and Adhesive Liner for Through Glass Via Filling by Cu Electroplating  |
| Zhaohui Li          | Poster       | ise150979 | Hybrid V <sub>2</sub> O <sub>5</sub> /C coated Li-rich manganese-based solid solution and its improved electrochemical properties  |
| Yang Li             | Poster       | ise151100 | Hydrothermal prepared Al-doped MnO <sub>2</sub> nanotube and its electrochemical performances for supercapacitors  |
| Chi-Ying Vanessa Li | Poster       | ise151622 | Durable Mesoporous Core-Shell Lithium Titanate-Carbon Composite as Anode in Lithium ion Batteries  |
| Jun-Tao Li          | Poster       | ise151014 | Guar Gum as the Binder for Si Anode of Lithium-Ion Battery   |
| Yingshun Li         | Oral         | ise151274 | Enhancing cycling stability of tin dioxide anode for lithium-ion batteries with a stretchable polyimide matrix   |
| Hongjiao Li         | Poster       | ise150906 | Activity and Stability of Pt Clusters supported on Au(111) for Electro-oxidation of Formic Acid  |
| Yingchun Li         | Poster       | ise151178 | Ultrasensitive and selective electrochemical sensor for dopamine determination based on novel supportless nanoporous Au-Ag alloy microrod  |
| Miangang Li         | Poster       | ise152065 | Investigation of Electrode Reaction at Well-Defined Electrochemical Interfaces in Ionic Liquids  |
| Qiaoxia Li          | Poster       | ise150397 | UV Light-Induced Deposition of Pd-Pt Nanoalloys on TiO <sub>2</sub> Nanotubes for Formic Acid Electrooxidation   |
| Jian-Feng Li        | Oral         | ise150244 | Electrochemical Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy (EC-SHINERS)   |
| Keryn Lian          | Invited Oral | ise151001 | Design and Modification of Inorganic/Organic Polyoxometalates-Carbon Pseudocapacitive Electrodes   |
| Zhuojian Liang      | Poster       | ise151785 | Probing the Oxygen Evolution Efficiency of Redox Mediator-Catalyzed Lithium-Oxygen Batteries using On-Line Electrochemical Mass Spectrometer   |
| Zhenhai Liang       | Poster       | ise150268 | A Novel Photoelectrocatalytic Approach for Regenerating NaOH by a BiOCl/bipolar Membrane Sandwich Structure  |
| Jing-Ting Liao      | Poster       | ise153313 | Electrical Characteristics of Raw Si-based Powders for Li-ion Electrode by Kelvin Probe Force Microscopy (KPFM) and Electrostatic Force Microscopy (EFM)   |
| Chia Wen Liao       | Poster       | ise152054 | Characterization of the Cr-C-Si <sub>3</sub> N <sub>4</sub> Composite Coatings Electroplated from a Trivalent Chromium Bath  |
| Bor Yann Liaw       | Invited Oral | ise150391 | Battery Materials Research Through Diagnoses and Failure Analyses  |
| Hyung-Kyu Lim       | Poster       | ise152184 | Discover a Role of Ionic-Liquid in Electrochemical CO <sub>2</sub> Reduction by Using QM/MM Method   |
| Oksana Limanovskaya | Poster       | ise150109 | Modeling of quasi-stationary process at the Platinum anode in the KF-NaF-AlF <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub>  |
| Nan Lin             | Oral         | ise151772 | Novel Electrochemical-Thermal Modeling for Lithium-ion Battery Design based on a Fast Reduced P2D Electrochemical Model  |
| Zi-Jun Lin          | Poster       | ise150791 | The Effect of Heat-Treatment on the Oxygen Reduction Reaction Activity of Carbon-Supported PtCoAg Electrocatalysts   |
| Haibo Lin           | Poster       | ise151265 | 3D Hierarchical Porous Carbon Derived from Lignin with Enhanced Lithium Storage Capability   |
| Yan-Gu Lin          | Oral         | ise152278 | Earth-Abundant Materials for Photocatalytic Water splitting  |
| Shawn D. Lin        | Poster       | ise150999 | In Situ DRIFTS Analysis of SEI formation over Cathodes at Elevated Temperature   |
| Jeng-Yu Lin         | Poster       | ise150788 | Nickel sulfide/carbon nanotube nanocomposites as cathode materials for hybrid supercapacitors  |
| Cheng-Lan Lin       | Poster       | ise151897 | Electrostatic Field-Assisted Direct Potentiostatic and Pulse-Potential Electrodeposition of Prussian Blue Films  |
| Chien-Hong Lin      | Poster       | ise151588 | Amino-Silica Modified Nafion Membrane for Vanadium Redox Flow Battery  |
| Hui-Wen Lin         | Oral         | ise152120 | Simultaneous scaling-free electrochemical production of caustic and oxygen from domestic wastewater for sulfide control in sewers  |
| Kuan-Jiuh Lin       | Oral         | ise150395 | Plasmon-Induced Efficiency Enhancement on Dye-Sensitized Solar Cell by a TNW-AuNP Layer  |
| Ming Jie Lin        | Poster       | ise150576 | Effect of the ratio of poly-L-lysine/glucose oxidase/ferricyanide composite on the sensing properties of second generation blood glucose sensors   |
| Zhenyu Lin          | Poster       | ise150828 | Homogeneous immobilization free electrochemical biosensor for DNA from oral cancer base on nicking endonuclease assisted target recycling amplification  |
| Yu Wei Lin          | Poster       | ise151308 | An Energy Enhanced, Long-Life Supercapattery Based on High Discharge Efficiency Hybrid Electrodes  |
| Shih-kang Lin       | Poster       | ise152304 | Ab initio-aided Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> defect spinel electrode materials designs for durable lithium ion batteries  |
| Cheng-Lan Lin       | Oral         | ise151121 | Preparation and Characterization of Platinum Nanoparticles Supported on Silica-Carbon Black Nanocomposites for Methanol Oxidation Reaction   |
| Tzu-En Lin          | Oral         | ise150117 | Cancer Stage Identification by Scanning Electrochemical Microscopy: Investigation of Tyrosinase inside Melanoma Tissues  |
| Yung-Chun Lin       | Oral         | ise151842 | Surface-Enhanced Raman Spectroscopic study of a DNA Beacon Probe Immobilized at a Au Electrode   |
| Yingbin Lin         | Poster       | ise150259 | Synthesis and Electrochemical Performances of Hollow Spherical Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> for Lithium Ion Batteries   |
| li lingang          | Poster       | ise151439 | L-cysteine Functionalized Gold Nanoparticle/CdS Hybrids for Electrochemical Determination of Trace Copper(II) with High Sensitivity and Selectivity  |
| Huei-Ping Liou      | Poster       | ise151855 | Microwave-Assisted Synthesis of Graphene Oxide Nanoribbons Using Green Chemistry for the Electrochemical Detection   |
| Sun Liping          | Poster       | ise151081 | Novel double perovskite PrBa <sub>1-x</sub> Sr <sub>x</sub> Co <sub>2</sub> O <sub>5+δ</sub> for highly efficient bi-functional oxygen electrode   |
| Grzegorz Lisak      | Oral         | ise150050 | Analytical Applications of Paper and Textiles in Microfluidic Sampling and Sample Handling Integrated with Electrochemical Sensors   |
| Fred Lisdat         | Poster       | ise150729 | Electrospun, conductive polymer fleeces as electrode materials for enhanced bioelectrocatalysis  |
| Fred Lisdat         | Oral         | ise150727 | Artificial protein architectures on electrodes   |
| R Daniel Little     | Invited Oral | ise150617 | A Recyclable Reaction Medium: Applications to Oxidative and Reductive Organic Electrochemical Transformations  |
| Xiaoyu Liu          | Oral         | ise150149 | Surface phase transformation and CaF <sub>2</sub> coating for enhanced electrochemical performance of Li-rich Mn-based Cathodes  |

|                                  |              |           |   |
|----------------------------------|--------------|-----------|---|
| Wenlong Liu                      | Poster       | ise150465 | Comparison of Chemical Bath Deposited ZnS-Based Buffer Layer Using Ammonia and Ammonia-Ethylenediamine as Complexing Agent  |
| Yang Liu                         | Poster       | ise151311 | Electrodeposited NiCo bimetallic nanoparticles decorated reduced graphene oxide for highly sensitive and selective determination of dopamine  |
| Chu-Chi Liu                      | Oral         | ise151465 | Microvia filling in an Acidic Copper Plating Bath with Insoluble Anodes   |
| Xinyu Liu                        | Poster       | ise150076 | Electroless Deposition of Amorphous Nickel-Tungsten-Phosphorus Alloys with Superior Resistance to Crystallization   |
| Xiaoxia Liu                      | Poster       | ise150101 | Electrochemical Co-deposition of Polyaniline with Inorganic Oxides for Pseudocapacitive Application   |
| Gao Liu                          | Invited Oral | ise152274 | Functional Conductive Polymer Binders Enabled High-stability Cycling of Alloy Anodes  |
| Shuo Liu                         | Poster       | ise151303 | Electrochemical Reaction of Single Nanoparticle   |
| Yi-Hung Liu                      | Poster       | ise152317 | Development of Lithium Ion Batteries Using Fiber-Type Current Collectors  |
| Xiaoheng Liu                     | Poster       | ise150084 | One-step Hydrothermal Route to Fabricate Novel ZnIn <sub>2</sub> S <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> Heterojunction Photocatalysts with Highly-efficient Visible Light Response |
| Xiao-Yuan Liu                    | Poster       | ise150805 | Electrochemistry-controlled Photo-induced Electron Transfer in Ubiquinone-based Systems   |
| HsuehMing Liu                    | Poster       | ise150631 | Synthesis and Characterization of Polyether Diamine based Organic-Inorganic Hybrid Solid Electrolyte for Electrochromic Devices   |
| HsuehMing Liu                    | Poster       | ise150633 | Synthesis, Structure Characterization, Electrical and Thermodynamic Properties of Comb Structured Organic-Inorganic Hybrid Solid Polymer Electrolytes                                       |
| Chunling Liu                     | Poster       | ise150358 | Ordered mesoporous carbon nitride as an electrode material for high performance electrochemical capacitors  |
| Wenlong Liu                      | Poster       | ise150457 | Study on the Application of Ailicon-Cobalt Oxide Anode Material in Lithium-ion Batteries  |
| Chunling Liu                     | Poster       | ise150357 | Self-healing Sn composite lithium-ion battery electrode with high capacity and good cycling stability   |
| Yu-Cheng Liu                     | Poster       | ise151088 | Controllable Pt Nanodendrites with High Activity for Hydrogen Peroxide Detection in Application of Disposable Electrochemical Sensor  |
| Aiping Liu                       | Poster       | ise150743 | GO/rGO Microelectrode Arrays with Adjustable Electrochemical Activity and Biocompatibility for Highly Sensitive Detection of Hydrogen Peroxide Released by Living Cells                     |
| Zong-Huai Liu                    | Poster       | ise150454 | Design and fabrication of supercapacitor electrodes with good rate performance from hole grapheme nanosheets  |
| Jianyun Liu                      | Poster       | ise151048 | Asymmetric Capacitors to Improve the Charge Efficiency of the Capacitive Deionization   |
| Jianguo Liu                      | Oral         | ise151143 | Well-ordered Ru@Pt Core-shell Nanocatalysts with Tunable Composition and Enhanced Electrocatalytic Properties   |
| wei liu                          | Poster       | ise150937 | Simultaneous Determination of Ascorbic Acid, Dopamine and Uric Acid based on Graphene/polyaniline/gold Nanocomposites   |
| Wioletta Liwińska                | Poster       | ise151931 | Nanoparticles designed from hydrogels and DNA in triple hybridisation process for improved storing and release of intercalators   |
| Javier Llanos                    | Invited Oral | ise150509 | Development of Reactive Ion Exchange Membranes for Electro-Disinfection   |
| Javier Llanos                    | Poster       | ise151945 | Coupling Wind Turbines and PV Panels to Electrochemical Processes: Treatment of Wastewater and Soil Polluted with Herbicides  |
| Nai-Chang Lo                     | Poster       | ise150622 | Electrochemical Formation of Cu Nanoparticles in Tributyl-Methylammonium bis((trifluoromethyl)sulfonyl)imide Room-Temperature Ionic Liquid  |
| Cristina Locatelli               | Poster       | ise150500 | Electrocatalytic activity toward oxygen evolution reaction of Electrodeposited Iridium Oxide: effect of the preparation method and pH   |
| Andrew Lodge                     | Oral         | ise151769 | The Synthesis and Characterisation of Mesoporous Silica Films for use in Supercritical Fluid Electrodeposition  |
| Nicholas Loeffler                | Poster       | ise151132 | Environmentally friendly binders for lithium ion batteries  |
| Elisabeth Lojou                  | Oral         | ise150328 | Thermostable enzymes for biofuel cells: wiring strategies and inhibitor influence   |
| Yi-Tao Long                      | Poster       | ise152131 | Ubiquinones: understanding electrochemistry from solution to surface  |
| Adeline Loo                      | Poster       | ise150453 | Molybdenum Disulfide (MoS <sub>2</sub> ) Nanoflakes as Inherently Electroactive Labels for DNA Hybridization Detection  |
| Yi-Jing Lu                       | Poster       | ise152163 | Synthesis and Characterization of ZnO Nanorod Array Electrodes for Electrochemical Photocatalytic Water Splitting   |
| Hsin-Che Lu                      | Poster       | ise152280 | The Influence of Alkyl Chain Length of Viologens on the Performance of Their Electrochromic Devices   |
| Jun Lu                           | Poster       | ise151491 | Novel Electrode materials Pr <sub>0.5</sub> Sr <sub>0.5</sub> Fe <sub>0.8</sub> Cu <sub>0.1</sub> MO <sub>3-δ</sub> (M=Sc, Ti, V, Zr, Nb, Mo) for Symmetrical Solid Oxide Fuel Cells        |
| Cian-Tong Lu                     | Poster       | ise152277 | Effect of the Electrode Surface Morphology on the Performance of Oxygen Evolution Reaction for Metal-air Battery  |
| Chen-Yuan Lu                     | Poster       | ise153315 | Investigation of Solid Electrolyte Interface of Silicon Electrode in Li-ion Batteries by Dual-Electrode Scanning Probe  |
| Jiri Ludvik                      | Poster       | ise150542 | Structure-controlled Electrochemical Reduction of mono- and di-, nitro or nitroso Calix[4]arenes  |
| Jiri Ludvik                      | Oral         | ise150327 | Oxazaborine and Triazaborine Chromophores, Electrochemical and Theoretical Study  |
| MANDOC (POPESCU)<br>Luisa Roxana | Oral         | ise152075 | ELECTROCHEMICAL SENSORS BASED ON AZULENES USED FOR HEAVY METALS EVALUATION IN WATER   |
| Xu-Feng Luo                      | Poster       | ise151068 | Physicochemical characteristics of graphene nanosheets affecting their electrochemical Na <sup>+</sup> storage properties   |
| Huiyuan Ma                       | Poster       | ise150520 | An electrochemical sensor based on POMs@PB nanoparticles composite film for detecting ascorbic acid   |
| Wen Ma                           | Poster       | ise151420 | Electrochemical Properties of Surface-treated Hard Carbon Electrode   |
| yue ma                           | Poster       | ise150918 | Iron Doping in Spinel NiMn <sub>2</sub> O <sub>4</sub> : Stabilization of the Mesoporous Cubic Phase and Kinetics Activation for Li <sup>+</sup> Storage                                    |
| Jan Macak                        | Poster       | ise151802 | Self-Organized TiO <sub>2</sub> Nanotubes: Influence of Ti substrates   |
| Jan Macak                        | Poster       | ise151801 | Hybrid Photoelectrochemical Systems Based on Self-Organized TiO <sub>2</sub> Nanotubes and Novel Chromophores   |
| Elena Madrid                     | Poster       | ise151663 | New Ionic Diode Material for Seawater Desalination  |
| Aditya Maheshwari                | Poster       | ise152562 | A Novel Approach to Develop MIEC material: CeO <sub>2</sub> -ZrO <sub>2</sub> composite   |
| Mahmoud Mohamed<br>Mahmoud Ahmed | Poster       | ise151548 | Nondestructive production of magnetic graphene towards energy applications  |

|                                |                    |           |  |
|--------------------------------|--------------------|-----------|--|
| Fyodor Malchik                 | Poster             | ise151781 | Study of the kinetic of LiFePO <sub>4</sub> oxidation in aqueous solutions   |
| Ali Malek                      | Oral               | ise152027 | DFT Study of Surface Charging Effects on Oxygen Covered Pt(111)  |
| Mesfin Haile Mamme             | Poster             | ise151131 | A Finite Element Simulation of the Electrochemical growth of single nanoparticle   |
| Daniel Mandler                 | Oral               | ise151006 | Nanoparticles Imprinted Polymers (NIP): Speciation of Nanoparticles  |
| Nicolas Mano                   | Oral               | ise150476 | Wet spun Bio-electronic fibers of imbricated enzymes and carbon nanotubes for efficient microelectrodes  |
| JUAN MANRIQUEZ                 | Oral               | ise151371 | Electrocatalytic oxidation of urea on Ni(II)cyclam-modified nanoparticulate TiO <sub>2</sub> anodes for promoting the H <sub>2</sub> evolution on Pt counterelectrodes   |
| JUAN MANRIQUEZ                 | Poster             | ise151973 | Orange II mineralization on C-modified nanoparticulate TiO <sub>2</sub> cathodes able for producing OH• radicals through the O <sub>2</sub> reduction which is simultaneously generated on a grade 2 Ti anode via the H <sub>2</sub> O oxidation |
| Lanqun Mao                     | Keynote            | ise150417 | Enabling Bioelectrochemistry for In Vivo Analysis  |
| Yu-Xiang Mao                   | Poster             | ise152215 | Ni-based bimetallic nanoparticles as active and durable catalysts towards hydrogen oxidation reaction  |
| Flavio Maran                   | Keynote            | ise151852 | Molecular Electrochemistry: from Protons to Electrons, from Molecules to Molecular Nanoclusters  |
| Flavio Maran                   | Poster             | ise151885 | Ultrasensitive Electrochemical Detection of the Cancer Biomarker CA19.9  |
| Andrei Ionut Mardare           | Oral               | ise151789 | Dynamics of Interfacial Oxide Formation during Anodization of Valve Metal Superimposed Ultra-Thin Films  |
| Vladimír Mareček               | Poster             | ise150129 | Noise and ac impedance analysis of ion transfer kinetics at the micro liquid/liquid interface  |
| Enrico marsili                 | Oral               | ise152199 | Detection of semivolatile organic compounds (VOCs) in wastewater through current output of electrochemically active bacteria   |
| Sladjana Martens               | Poster             | ise151770 | Towards the mechanism of Mg <sup>2+</sup> -ions intercalation into V <sub>2</sub> O <sub>5</sub> as the cathode material   |
| Sebastien Martinet             | Oral               | ise150985 | Projected Costs of cells for Li-Ion Batteries  |
| Carlos Alberto Martinez-Huitle | Oral               | ise151935 | Electrochemical Sequential Flow Reactors for removing Textile Dyes Using Different Anodes  |
| Jun Maruyama                   | Invited Oral       | ise150113 | Catalyst Layer Structures for Enhancement of Redox Reactions of Oxovanadium Ions   |
| Jun Maruyama                   | Poster             | ise150291 | Carbonaceous Thin Film Coating with Fe-N <sub>4</sub> Site for Enhancement of Dioxovanadium Ion Reduction  |
| Justus Masa                    | Oral               | ise150696 | Electrocatalysis of oxygen reduction and water oxidation using metal oxides embedded in nitrogen-doped carbon  |
| Tetsuya Mashio                 | Keynote<br>Invited | ise151248 | Analysis of PEMFC Catalyst Layers from Fabrication Process to Performance  |
| Mkhulu Mathe                   | Poster             | ise150847 | Nano electrochemical deposition of PGM based fuel cells electro catalysts  |
| Klaus Mathwig                  | Poster             | ise150253 | Potential-Dependent Electrochemical Spectroscopy of Multiferrrocenylthiophenes in a Nanogap Sensor   |
| Mangaka Matoetoe               | Oral               | ise151830 | Square wave voltammetry of polychlorinated biphenyls in aqueous media on glassy carbon   |
| Yukiko Matsui                  | Poster             | ise152043 | Composite positive electrode using sulfur/micro porous carbon for high-performance lithium-sulfur battery  |
| Kenji Matsumae                 | Poster             | ise150408 | Degradation of IrO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> / Ti anode with toluene contamination  |
| Toshiyuki Matsunaga            | Poster             | ise150773 | Significant cation mixing in the transition-metal layer of Li <sub>2</sub> MnO <sub>3</sub>  |
| Hisayoshi Matsushima           | Poster             | ise150449 | Kinetic Isotope Effect on Hydrogen Evolution and Oxidation Reaction  |
| Dorota Matyszewska             | Oral               | ise150080 | Interactions of Anticancer Drug and Adducts of the Drug with Carbon Nanotubes with Model Biological Membranes – Langmuir-Blodgett and Electrochemical Studies.   |
| Matthew T. Mayer               | Oral               | ise151727 | Advances in photoelectrochemical and photovoltaic tandem systems for sunlight-driven water electrolysis  |
| Karl Mayrhofer                 | Keynote            | ise150309 | In-situ investigation of catalyst degradation  |
| Richard McCreery               | Keynote            | ise150231 | Charge Transport Through Molecules Acting as "Supramolecular" Electronic Devices   |
| Yunny Meas                     | Keynote            | ise151114 | Novel Electrochemical Prototype for the Treatment of Spent Caustic from Hydrocarbon Industry and its Industrial Scaling  |
| Zhang Meining                  | Oral               | ise150688 | Patterning of Microelectrode Array with soft lithography for Biological Sensing  |
| Paul Meister                   | Poster             | ise151879 | Do Cation-Anion Interactions influence the Anion Intercalation into Graphite?  |
| Omar Samuel Mendoza-Hernandez  | Oral               | ise151288 | Thermal Runaway Behavior of 18650 Li-ion Cells Before and After Storage Degradation at High Temperature  |
| Beatriz Mendoza-Sanchez        | Oral               | ise152229 | An investigation of Na <sub>1-x</sub> Li <sub>2x</sub> MnyNizO <sub>d</sub> compounds for high performance sodium-ion batteries  |
| Beatriz Mendoza-Sanchez        | Poster             | ise151219 | An investigation of P <sub>2</sub> -Na <sub>0.67</sub> Mn <sub>1-x</sub> MxO <sub>2</sub> and P <sub>2</sub> -Na <sub>0.67</sub> -xMnO <sub>2</sub> for high performance sodium-ion batteries  |
| Shirley Meng                   | Invited Oral       | ise153312 | Designing and optimizing novel electrode materials for rechargeable Na-ion batteries with high energy and low cost   |
| Almagul Mentbayeva             | Oral               | ise151115 | Free standing sulfur-composite cathode for lithium-sulfur batteries  |
| Jakub Menzel                   | Poster             | ise152016 | Improving energy performance of electrochemical capacitors by combining redox reaction with hydrogen storage phenomena   |
| John R. Miller                 | Invited Oral       | ise150921 | Valuing Electrochemical Capacitor Technology   |
| Ross Milton                    | Oral               | ise150552 | Naphthoquinone Derivatives as Low-Potential Electron Mediators of FAD-Dependent Glucose Dehydrogenase  |
| Hiro Minamimoto                | Poster             | ise151357 | Fabrication of 3D Micro/Nano-Polymer and Metal Structures in Room-Temperature Ionic Liquid by Electron Beam Irradiation  |
| Alessandro Minguzzi            | Oral               | ise151873 | Observation of Charge Transfer Cascade in $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> /IrO <sub>2</sub> Photoanodes by In-Operando X-Rays Absorption Spectroscopy   |
| Nguyen Minh                    | Invited Oral       | ise151029 | Solid Oxide Fuel Cells - A Clean and Efficient Energy Technology for the Future  |
| Yuto Miyahara                  | Oral               | ise151621 | Catalytic Activities of Perovskite-type Oxide Thin Films and Single Crystals as Oxygen Electrodes in Alkaline Media  |
| Iwao Mogi                      | Oral               | ise150134 | Chirality Induction by Galvanostatic Magneto-electrodeposition   |
| Karen Monsalve                 | Oral               | ise150144 | H <sub>2</sub> /O <sub>2</sub> Biofuel Cells: Macro-structured Conductive Supports to Enhance Power Cell Performances  |
| Ivan Mora-Sero                 | Invited Oral       | ise153324 | Hybrid Halide Perovskites for Optoelectronics: Solar Cells and Light Emitting Devices  |
| Saimon Moraes Silva            | Oral               | ise150303 | Electrochemical Characterization of Gold-Coated Magnetic Nanoparticles as 'Dispersible Electrodes'   |
| Arianna Moretti                | Oral               | ise151615 | A Flexible Material for Li- and Na-Batteries: Vanadium Oxide Aerogel   |
| Takuya Mori                    | Poster             | ise151589 | Dynamics of the Phase Transition Behavior of the LiFePO <sub>4</sub> Investigated by Time-resolved X-ray Diffraction at Various Temperatures   |
| Yu Morimoto                    | Keynote            | ise150421 | Alternative PEFC Catalysts for Future Commercial FCVs  |



|                       |                 |           |   |
|-----------------------|-----------------|-----------|---|
| Masayuki Morita       | Invited Oral    | ise150446 | Influences of Residual Water in Porous Carbon Electrodes on Their Cycling Behavior in Organic Electrolyte Solutions   |
| D. William A. Morton  | Poster          | ise151813 | Electrochemical interrogation of the structure of self-assembled monolayers on nanofabricated metallic nanowires  |
| Artur Motheo          | Poster          | ise151765 | Adhesion of Polyaniline Films on Aluminum Alloy Surfaces treated by Anodization in Citrate Buffer Solution  |
| Artur Motheo          | Invited Oral    | ise151751 | On the Sonoelectrochemical Degradation of Endocrine Disruptors: Methyl Paraben, Carbofuran and Thiram   |
| Kenta Motobayashi     | Oral            | ise151674 | Potential-Dependent Behavior of Ionic Liquid [BMIM][TfSA] with Additives on a Gold Electrode Studied by Surface-Enhanced Infrared Absorption Spectroscopy                   |
| Emmanuel Mousset      | Oral            | ise151091 | Towards a More Competitive Advanced Electrochemical Technology: New Carbon-Based Electrodes Combination for Wastewater Treatment  |
| Franziska Mueller     | Poster          | ise150961 | Advanced Anode Materials combining Conversion & Alloying Energy Storage Mechanism for Lithium-Ion Batteries   |
| Partha Mukherjee      | Invited Oral    | ise151292 | Mesoscale Electrode Physics in Energy Storage   |
| Azhagurajan Mukkannan | Oral            | ise150839 | Direct observation of electrochemical processes at single atomic layer: an advanced optical microscopy study  |
| Bongjin Simon Mun     | Keynote Invited | ise151714 | Development of Ambient Pressure XPS and its Applications to Electrochemistry  |
| Sara Munktel          | Oral            | ise151538 | Towards high-throughput Corrosion Screening using Bipolar Electrochemistry  |
| Kei Murakoshi         | Poster          | ise150987 | Optical Force Applied to Molecules at Nanogap of Metal Nanodimer  |
| Kuniaki Murase        | Poster          | ise150838 | Electrodeposition of Cu <sub>2</sub> O from Aqueous Lactate Solutions - Studies on Copper(II) Complexes in Alkaline Deposition Baths  |
| Marco Musiani         | Oral            | ise150680 | Oxygen Bubble Templated Anodic Deposition of Porous PbO <sub>2</sub>  |
| Suzaliza Mustafar     | Poster          | ise151095 | Synthesis of a $\beta$ -conjugated porphyrin polymer film on electrode by electrooxidation of 5,15-di(4-aminophenyl)-10,20-diphenylporphyrinatozinc(II)                     |
| Marika Muto           | Poster          | ise151640 | Copper-Incorporated Carbon Catalysts for Oxygen Reduction Reaction  |
| Yuta Nabae            | Poster          | ise151798 | Synthesis and Characterization of Carbon-Based Non-Precious-Metal Cathode Catalysts from Polyimide Fine Particles   |
| Tsukasa Nagai         | Poster          | ise151463 | Metalloporphyrin-Modified Perovskite-Type Oxide for Cathode Catalyst in Alkaline Fuel Cell  |
| Tomio Nagayama        | Poster          | ise150803 | Mechanical properties of electrodeposited Fe-Ni alloys in the Invar composition range   |
| Kai Nakamura          | Poster          | ise150605 | Characterization of AlCl <sub>3</sub> /Diglyme Solution for Aluminum Electrodeposition  |
| Toshihiro Nakamura    | Poster          | ise151291 | Contact Resistance of Thin Gold Overlay on Cu-Sn Alloy Electrodeposits with Various Compositions  |
| Katsutoshi Nakayama   | Poster          | ise151402 | Fabrication of super-liquid-repellent aluminum mesh with chemical etching/anodizing   |
| Katsuhiko Naoi        | Keynote         | ise151393 | igNanohybrid Capacitor: Future Projection for Gen.II Supercapacitors  |
| Ralph Nicolai Nasara  | Poster          | ise152305 | A modified RAPET approach to Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> defect spinel nanoparticles as anode material for lithium ion batteries                        |
| Navid Nasirizadeh     | Poster          | ise151988 | A sensitive DNA biosensor for detection of Helicobacter pylori using gold electrode and oracet blue as electroactive label  |
| Navid Nasirizadeh     | Poster          | ise151205 | The Comparison of Sonochemistry, Electrochemistry and Sonoelectrochemistry Techniques on Degradation of Reactive Blue 49  |
| Ewa Nazaruk           | Poster          | ise151979 | Lipid-Liquid Crystalline Nanoparticles in Drug Delivery System  |
| Aziz Nechache         | Poster          | ise151705 | La <sub>0.2</sub> Sr <sub>0.25</sub> Ca <sub>0.45</sub> Ti <sub>1-x</sub> Nb <sub>x</sub> NiyO <sub>3</sub> as Potential Anode Material for IT-SOFCs                        |
| Aziz Nechache         | Oral            | ise151716 | Study of LSCM-CGO-Ni Anode Characteristics by Electrochemical Impedance Spectroscopy  |
| Trung Van Nguyen      | Invited Oral    | ise151999 | Water Management in Proton Exchange Membrane Fuel Cells by Materials Design and Engineering   |
| Uyen Nguyen           | Poster          | ise150456 | A novel method of immobilizing antigens on gold electrode for immunosensing   |
| Dan Nguyen Dang       | Oral            | ise150250 | Volume Synthesis of Calcareous Deposit on Carbon Steel in Natural Seawater: Effect of Two-Step Applied Potential Waveform   |
| Chung-Ta Ni           | Poster          | ise152136 | Structural Stability of Mixed Conducting La <sub>0.8</sub> Ca <sub>0.2</sub> Fe <sub>1-x</sub> Co <sub>x</sub> O <sub>3</sub> (x=0-0.4) Perovskite in Different Atmospheres |
| Chung-Ta Ni           | Poster          | ise152126 | Observation of Spinel Formation on Capacity Fading of Li-rich Layer-structured Cathode Materials  |
| Chung-Ta Ni           | Poster          | ise152255 | Effect of Thermal Effect on Phase Transformation of Plasma Sprayed Protective Oxides on SOFC Metallic Interconnects   |
| Yao Nie               | Poster          | ise150627 | Pt/C Trapped in Activated Graphitic Carbon Layers as a Highly Durable Electrocatalyst for Oxygen Reduction Reaction   |
| Georgios Nikiforidis  | Oral            | ise151333 | Improvements in the aqueous lithium-iodine battery  |
| Anders Nilsson        | Keynote         | ise151916 | Operando X-ray Studies of Electrocatalysis  |
| Keiichi Nishihata     | Poster          | ise151304 | Preparation and Physicochemical Properties of Room-Temperature Phosphonium Ionic Liquids Based on Tetracyanoborate Anion  |
| Nadya Nissaulya       | Poster          | ise151165 | Synthesis and Characteristics of Hyper-Branched Oligomer Directly Coated on High Voltage Cathode Material in Lithium Ion Battery  |
| Lin Niu               | Poster          | ise150346 | Local Electrochemical Study on the Effect of Residual Stresses on Localized Corrosion Susceptibility of Type 316 Stainless Steels   |
| OSAMU NIWA            | Keynote         | ise150198 | Hybrid carbon film electrodes for electroanalytical applications  |
| Eugenijus Norkus      | Poster          | ise150844 | Gold Nanoparticles Modified Cobalt-Boron-Copper and Cobalt-Boron-Tungsten-Copper as Electrocatalysts for Borohydride Oxidation  |
| Eugenijus Norkus      | Poster          | ise150829 | The Use of Environmentally-Friendly Natural Polyols as Cu(II) Ligands in Electroless Copper Plating Processes   |
| Petr Novak            | Keynote         | ise150252 | How to Understand the Electrochemistry of Battery Materials?  |
| Arailym Nurpeissova   | Poster          | ise151549 | SEI stabilizer agent epicyanohydrin for cathodes used in LIBs   |
| Masanori Ochi         | Poster          | ise150670 | Structural and Electrical properties of Ru-doped BaCe <sub>0.90</sub> Y <sub>0.10</sub> O <sub>3-d</sub> Thin Film  |
| Tsuyoshi Ochiai       | Oral            | ise150484 | Flexible Pinpoint Electrolysis Unit by Using of Boron-doped Diamond Powder (BDDP) Based Polymer Composites for Dental Treatments  |
| Joey Ocon             | Oral            | ise150588 | Alkaline Semiconductor-Air Batteries  |
| Masaru Ogasawara      | Poster          | ise151688 | Relative Permittivities of Binary Solvent Mixtures  |

|                          |              |           |  |
|--------------------------|--------------|-----------|--|
| Zempachi Ogumi           | Keynote      | ise151280 | Reactions in cathode positive composite electrode by using synchrotron X-ray   |
| Gyu-Hyeon Oh             | Poster       | ise151700 | Effects of Solvents for Dispersion Solutions on Membrane-Electrode Assembly for Proton Exchange Membrane Fuel Cells &#8211; Overvoltage and Durability   |
| Kwangjin Oh              | Poster       | ise151530 | Synthesis of sulfonated block copolymer for polymer electrolyte fuel cells operating at intermediate temperature.  |
| Reza Ojani               | Poster       | ise150730 | Photoelectrocatalytic Degradation of p-Hydroxybenzoic Acid at the &#8206;Surface of Ti/TiO <sub>2</sub> Nanotube Array Electrode &#8206;   |
| Yusuke Okamura           | Poster       | ise150848 | Electrodeposition of mono-layer graphene from carboxylic acid under hydrothermal condition   |
| Masashi Okubo            | Oral         | ise151253 | Flexible MXene Nanosheets: Negative Electrode Materials for Lithium-Ion and Sodium-Ion Batteries   |
| Fredrick Okumu           | Poster       | ise151783 | Electrochemical Characterization of Silver-Platinum Core-shell Nanoparticles   |
| Alexander Oleinick       | Oral         | ise150616 | Validating a Central Approximation in Theories of Regular and Random Electrochemical Electrode Arrays  |
| Herenilton Oliveira      | Oral         | ise151932 | Preparation, Characterization, and Electrochemical Properties of Monolith Glass-like Carbon-Silica Composites  |
| Herenilton Oliveira      | Poster       | ise151937 | Glassy Polymeric Carbon/FexCy and Carbon/CoxCy Nanocomposites: Electrochemical and Magnetic Properties   |
| Ana Maria Oliveira-Brett | Oral         | ise150281 | Amyloid &#946; Peptides Nanostructures: Voltammetric and Atomic Force Microscopy Characterization  |
| Paulo Olivi              | Poster       | ise151974 | Electrochemical oxidation of Disperse Yellow 3 dye using BDD electrodes  |
| Ove Oll                  | Oral         | ise151617 | An Infrared Study of the Few-Layer Graphene   Ionic Liquid Interface: Correlation between Electronic and Ionic Surface Structure   |
| Kayato Ooya              | Poster       | ise151608 | Characteristics of an intermediate-temperature fuel cell using proton conductive ZrO <sub>2</sub> -1.6P <sub>2</sub> O <sub>5</sub> -doped ZnO-2P <sub>2</sub> O <sub>5</sub> hybrid electrolyte   |
| Marcin Opallo            | Invited Oral | ise151477 | Electrocatalytic glucose oxidation in suspension and film consisting charged Au and Pt nanoparticles   |
| Marcin Opallo            | Poster       | ise151456 | (Electro)catalysis at Room Temperature Ionic Liquid Water Interface: H <sub>2</sub> O <sub>2</sub> Generation  |
| Lidia Jagoda Opuchlik    | Poster       | ise151730 | Anisotropic gold nanoplates – characterization and application in catalysis  |
| Mark E. Orazem           | Oral         | ise151927 | The Influence of Anomalous Diffusion on the Impedance Response of LiCoO <sub>2</sub>  C Batteries  |
| Nagore Ortiz-Vitoriano   | Oral         | ise151434 | Rate-Dependent Nucleation and Growth of NaO <sub>2</sub> in Na-O <sub>2</sub> batteries  |
| Masatoshi Osawa          | Keynote      | ise151665 | Surface-Enhanced Infrared Absorption Spectroscopy (SEIRAS): Shedding Light on The Electrochemical Interface  |
| Kenichiro Ota            | Invited Oral | ise150381 | Challenges of NPGM Oxide Cathode for PEFCs   |
| Ali Riza Ozkaya          | Poster       | ise151127 | Redox properties and electrocatalytic oxygen reducing performances of various novel metal phthalocyanines  |
| Kenneth Ozoemena         | Oral         | ise151866 | Novel Pd-Fe-Co Core-Core-Shell Anode Nanocatalyst in Alkaline Anion-Exchange Membrane Alcohol Fuel Cells   |
| Elie Paillard            | Poster       | ise151711 | Ionic Liquids and Polymer Electrolytes for Li-metal Batteries  |
| Michael Palmer           | Oral         | ise151245 | In-situ XRD of High Voltage Lithium Insertion Electrodes   |
| Chun-Jern Pan            | Poster       | ise152257 | Synthesis and characterization of a multifunctional Ti <sub>1-x</sub> MnxO <sub>2</sub> nanomaterials for Pt catalysts: MOR and ORR catalytic application  |
| Chien-Yeh Pan            | Poster       | ise153316 | Metal-doped Pyrochlore as Novel Anode Material for Intermediate Solid Oxide Fuel Cell  |
| Sara Panahian Jand       | Oral         | ise151243 | Theoretical Simulation of Solid Electrolyte Interphases  |
| Haijun Pang              | Poster       | ise150519 | High Sensitive Electrochemical Sensor for L-cysteine Based on V-substituted Polyoxometalates and Au@2Ag Core-Shell Nanoparticles   |
| Wei Kong Pang            | Oral         | ise150400 | Characterisation of Electrode Materials for Li-Ion Batteries Using Operando Neutron Powder Diffraction   |
| Galina Pankratova        | Poster       | ise150152 | Electrochemical Study of the Extracellular Electron Transfer of Enterococcus faecalis to Electrodes  |
| Nam-Gyu Park             | Invited Oral | ise152265 | Methodologies for 20% Efficient Perovskite Solar Cells   |
| Hwi-Yeol Park            | Poster       | ise151271 | Preparation and Characterization of Three-Dimensional Cathode for Lithium-ion Battery  |
| Insun Park               | Oral         | ise150666 | Systematic Study for Suppressing the Gas Evolution of Li-ion Batteries   |
| Jun-Ho Park              | Poster       | ise150947 | Surface treatment of Over-lithiated Layered Oxide Cathode Materials for Lithium Ion Batteries with hybrid of fluorinated polymer/carbon fiber  |
| Yong Joon Park           | Poster       | ise151104 | Enhanced Li-air batteries using redox mediator   |
| Soo-Gil Park             | Invited Oral | ise152318 | Electrochemical Characteristics of Composite Materials as Carbon & Metal Oxide for Hybrid Capacitor  |
| Sangki Park              | Poster       | ise150575 | Polypyrrole as the Coating Agent and Nitrogen Precursor for the Fabrication of Nitrogen-Doped Graphite Felts as Positive Electrode for a Vanadium Redox Flow Battery   |
| Sung June Park           | Poster       | ise151978 | Thermal modeling of an ultracapacitor module for automotive applications   |
| Kyu-Young Park           | Poster       | ise152203 | Olivine with zero anti-site defect and three dimensional lithium diffusion paths   |
| Jagabandhu Patra         | Oral         | ise151134 | Electrochemical Performance of 0.5Li <sub>2</sub> MnO <sub>3</sub>  V <sub>0.5</sub> Li(Mn <sub>0.375</sub> Ni <sub>0.375</sub> Co <sub>0.25</sub> )O <sub>2</sub> Composite Cathode Using Pyrrolidinium-based Ionic Liquid Electrolytes |
| Alexandra Patru          | Oral         | ise151788 | Performance and Stability of New Oxide Catalyst Supports under PEFC Operating Conditions   |
| Rasa Pauliukaite         | Poster       | ise150354 | Application of Polyfolates to the Development of Enzymatic Biosensors  |
| Pawel Pawel              | Poster       | ise150305 | CuW and CuNiW Alloys &#8211; The New Examples of Tungsten Induced Codeposition   |
| Juan Manuel Paz-Garcia   | Poster       | ise151915 | Electrokinetic Remediation of Lead-contaminated Carbonate-rich Soil  |
| Juan Manuel Paz-Garcia   | Oral         | ise150595 | Electrochemical-mechanical Coupled Phenomena in Silicon-based Li-ion Batteries Using X-ray Tomographic Characterization  |
| Nadine Pebere            | Invited Oral | ise151057 | Corrosion Inhibition of Pure Aluminium by 8-Hydroxyquinoline: Combined Electrochemical and DFT Studies   |
| Timothy J. Peckham       | Invited Oral | ise150333 | Membranes with Potential AAEMFC Applications: Structure-Property Relationships of Methylated Poly(benzimidazole)s  |
| Timothy J. Peckham       | Poster       | ise150136 | Structure and Property Changes of PFSA Ionomer Upon Exclusive Reaction with HO and H Radicals  |
| Hao-Ting Peng            | Poster       | ise150972 | High-performance lithium-ion batteries based on C Li <sub>4</sub> Ti <sub>4.95</sub> Al <sub>0.05</sub> O <sub>12</sub> anode materials  |
| Hao-Ting Peng            | Poster       | ise150973 | Effects of electrolyte additive on the electrochemical properties of lithium-ion batteries based on Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anode materials  |
| Hai-Jung Peng            | Oral         | ise150441 | Consequences of Electrolyte Degradation for the Electrochemical Performance of NCM Battery Materials   |
| Zhangquan Peng           | Poster       | ise151262 | Oxygen Reduction Reactions in Proton-containing Non-aqueous Electrolytes for Aprotic Li-O <sub>2</sub> Batteries   |

|                               |              |           |  |
|-------------------------------|--------------|-----------|--|
| Jun Peng                      | Poster       | ise150698 | Assembly of hybrids based on Keggin POMs and Co-tris(imidazolyl) complexes with bifunctional electrocatalytic activities   |
| Juan Manuel Peralta-Hernández | Oral         | ise150615 | Application of electro-Fenton-BDD process to treatment wastewater from pharmaceutical industry   |
| Samuel Perry                  | Oral         | ise150900 | Determination of Oxygen Binding Energy from Simple Amperometric Experiments and its Application Towards the Evaluation of Novel Materials for the Oxygen Reduction Reaction                  |
| Samuel Perry                  | Poster       | ise150902 | Normalised Sampled-Current Voltammetry at Microdisc Electrodes: Kinetic Information from Pseudo Steady State to Steady State Voltammetry   |
| Konstantin Petrov             | Oral         | ise152178 | Method for the simultaneous cleansing of H <sub>2</sub> S and SO <sub>2</sub>  |
| Martin Pfaffeneder-Kmen       | Poster       | ise150726 | The Redox Behaviour of Graphene Oxide: A Spectroelectrochemical Study  |
| Jonathan Phillips             | Invited Oral | ise150060 | Super Dielectric Materials: Electrostatic Capacitors with Energy Density over 200 J/cm <sup>3</sup>  |
| Benoit Piro                   | Oral         | ise150230 | Label-free Electrochemical Detection of Prostate-Specific Antigen based on Nucleic Acid Aptamer  |
| Tobias Placke                 | Poster       | ise151868 | Novel synthesis route and analytical study on metal dissolution for conversion-type ZnFe <sub>2</sub> O <sub>4</sub> -based anodes in lithium-ion batteries                                  |
| Tobias Placke                 | Poster       | ise151846 | Nanostructured ZnFe <sub>2</sub> O <sub>4</sub> -based anodes for lithium-ion batteries – Novel synthesis route and analytical study on metal dissolution                                    |
| Mikhail Pletnev               | Poster       | ise150444 | Comparative analysis of the Anodic Dissolution of Iron at low and high over potentials   |
| Bruno G Pollet                | Invited Oral | ise152208 | Thermal Conductivity in Micro Porous Layer for Low Temperature PEM Fuel Cells  |
| Armando Pombeiro              | Poster       | ise150874 | Electrochemical behaviour of new 3-aminopyrazine-2-carboxylate Fe(III)-complexes   |
| Ingrid Ponce                  | Oral         | ise150177 | Bio-inspired Enhancement of the Catalytic Activity of FePhthalocyanine for the Reduction of Molecular Oxygen Anchored on Gold by Self-Assembled Systems of Pyridinium Salts as Axial Ligands |
| Carlos Ponce de Leon          | Invited Oral | ise151228 | A Bifunctional Air Electrode Catalyzed by Transition Metal Ferricyanide Derivatives for an Iron-air battery  |
| Carlos Ponce de Leon          | Poster       | ise151233 | Electrochemical degradation of RB-5 dye by anodic oxidation, electro-Fenton and by combining anodic oxidation-electro-Fenton in a filter-press flow cell                                     |
| Alexandre Ponrouch            | Oral         | ise151755 | On the high and low temperature performances of Na-ion batteries: Hard carbon as a case study  |
| Alexandre Ponrouch            | Poster       | ise151692 | Towards a rechargeable battery technology based on calcium   |
| Maria José J. S. Ponte        | Poster       | ise152040 | Increasing the catalyst life cycle by electrokinetic remediation   |
| Alina Pruna                   | Poster       | ise152273 | Effect of ZnO on Capacitive Properties of Core / Hybrid Shell Arrays   |
| Muniyandi Rajkumar            | Poster       | ise151080 | Enhancing Ultrahigh Loading with High Areal Specific Capacitance in Nickel-Cobalt Double Hydroxides/ CNT composites for Supercapacitor Device.   |
| Prakash Ramakrishnan          | Poster       | ise151761 | Electrochemical Performance of Nitrogen Doped Nano-channel Carbon Structures in Redox Electrolyte Supported Supercapacitor.  |
| Guadalupe Ramos-Sanchez       | Poster       | ise152113 | A multi-scale model to account for the electrochemical response of the oxygen reduction reaction on highly active graphene nanosheets in alkaline conditions                                 |
| Guadalupe Ramos-Sanchez       | Poster       | ise152045 | A multi-scale model to account for the electrochemical response of the oxygen reduction reaction on highly active graphene nanosheets in alkaline conditions                                 |
| Jahan Bakhsh Raof             | Poster       | ise151201 | Glassy carbon electrode modified with Cu/Pt bimetallic nanoporous carbon composite and its enhanced electrocatalytic activity for hydrogen evolution reaction                                |
| Stefania Rapino               | Poster       | ise151977 | Development of an Electrochemically Based Rapid, Low-cost and Spreadable Assay for Heart Injury and Cancer Related Pathologies   |
| Stefania Rapino               | Oral         | ise151994 | Scanning Electrochemical Microscopy for Probing the Properties of 2D Materials   |
| Sergey Rashkeev               | Oral         | ise152275 | Towards Control of Major Degradation Processes in Solid Oxide Electrolysis Cells   |
| Liza Rassaei                  | Poster       | ise150249 | Synthesis of ZIF-8 metal organic framework thin film on ZnO nanorods   |
| Candice Rassie                | Poster       | ise150592 | Microscopic and Electrochemical Signatures of Copper-poly(propyleneimine) Metallo dendrimer System   |
| Candice Rassie                | Poster       | ise150593 | Microscopic and Electrochemical Signatures of Copper-poly(propyleneimine) Metallo dendrimer System   |
| Paula Ratajczak               | Poster       | ise151951 | Optimizing the high cell potential performance of AC/AC supercapacitors based on two aqueous electrolytes  |
| Paula Ratajczak               | Poster       | ise151956 | Performance improvement of AC/AC capacitors in aqueous medium through selection of current collectors  |
| M. V. Reddy                   | Poster       | ise151923 | Electrochemical Studies of binary oxides, MO <sub>2</sub> (M= Ti, Mn, Mo, Ru)  |
| M V Reddy Reddy               | Invited Oral | ise151704 | Novel V-containing cathode materials for Li-ion Batteries  |
| M V Reddy Reddy               | Poster       | ise152046 | Electrochemical Studies of binary oxides, MO <sub>2</sub> (M= Ti, Mn, Mo, Ru)  |
| Chengqiang Ren                | Poster       | ise150747 | Electrochemical Investigation on Passivation Characteristic of P110 Steel in Alkaline Solution   |
| Bin Ren                       | Oral         | ise151858 | Electrochemical Surface-Enhanced Raman Microscopy (EC-SERM)  |
| Bin Ren                       | Poster       | ise151848 | Electrochemical Tip-Enhanced Raman Spectroscopy (EC-TERS)  |
| William Richardson            | Poster       | ise151239 | Identifying Solution Based Catalysts for the Lithium Oxygen Battery  |
| Judith Rishpon                | Oral         | ise150530 | Combined Tyrosinase (A Multi-Potent Enzyme) and Electrodes Modified with nanoparticles for Fast and Highly Sensitive Environmental Monitoring and Medical Diagnostics                        |
| Emmanuel Rocca                | Poster       | ise150597 | Electrochemical properties of MgZn <sub>2</sub> phase in sulfuric acid : anodizing behavior at high potential  |
| Emmanuel Rocca                | Poster       | ise150594 | Electrochemical properties of nano functionalized iron oxyhydroxide: strategies for the corrosion protection of rusted steels  |
| Dominic Rochefort             | Oral         | ise150920 | On the Performance and Self-Discharge of a Redox-Active Electrolyte Supercapacitor Based on an Ionic Liquid Modified with Ferrocene  |
| Fridolin Röder                | Oral         | ise151660 | Fundamental Analysis of Lithium-ion Battery Performance and Degradation in Context of Particle Size Distribution   |
| Manuel Andres Rodrigo         | Poster       | ise151702 | Electrokinetic remediation of natural soil polluted with the herbicide 2,4-D   |
| Manuel Andres Rodrigo         | Poster       | ise151695 | Influence of electrode material on microbial fuel cell treating a synthetic and a winery wastewater  |
| Joaquin Rodriguez-Lopez       | Oral         | ise150153 | The Impact of Short-Range Electronic Interactions on the Electrochemical Activity of Single- and Few-Layer Graphene  |
| Joaquin Rodriguez-Lopez       | Oral         | ise150132 | Redox Active Polymers: Pursuing a Size-Selective Strategy for High Performance Non-Aqueous Redox Flow Batteries  |
| F.J. Rodriguez-Varela         | Oral         | ise152117 | Development and Evaluation of Fe <sub>3</sub> O <sub>4</sub> @Pt/C Core-Shell Nanostructures for the Oxygen Reduction Reaction   |

|                          |              |           |   |
|--------------------------|--------------|-----------|---|
| Ha-Kyung Roh             | Poster       | ise150673 | One-pot synthesis of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /rGO nanocomposite for sodium-ion batteries  |
| Marijana Kraljic Rokovic | Poster       | ise153314 | Electrochemical properties of polypyrrole/ graphene oxide composites  |
| Bernhard Roling          | Poster       | ise151694 | Minimizing Artifacts in Three-Electrode Double Layer Capacitance Measurements caused by Stray Capacitances  |
| Bernhard Roling          | Poster       | ise151690 | Charge Storage in Nanoparticulate TiO <sub>2</sub> and Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Anodes: New Insights from Scan rate-dependent Cyclic Voltammetry                     |
| Tavo Romann              | Oral         | ise150439 | High Voltage Graphene Capacitor Technology  |
| Sandra Rondinini         | Oral         | ise151894 | Combined Ionic Diffusion and Faradaic Reactions in Electrodeposited Highly Hydrated Amorphous Iridium Oxide by in-operando Dispersive XAS Investigation                                     |
| Yuanyang Rong            | Poster       | ise150728 | From Intrinsically Porous Polymer to Supercapacitive Micropore Carbon   |
| Natasha Ross             | Poster       | ise150096 | Palladium-Gold nano-alloy modified LiMn <sub>2</sub> O <sub>4</sub> spinel system for enhanced Li-ion battery cathode performance.  |
| Jan Rossmeis             | Invited Oral | ise152137 | Special Sites in Electrocatalysis   |
| Abbasali Rostami         | Poster       | ise151075 | Electro-Oxidation of methanol on modified carbon paste electrode using poly (P-phenyldiamine/POSS) as modifying agent   |
| Manuela Rueda            | Poster       | ise151922 | ATR-SEIRAS and Electrochemical Study of the Tautomeric Equilibrium of Adsorbed Thymine on Gold Electrodes   |
| Manuela Rueda            | Poster       | ise151929 | DNA Bases Co-Adsorption at Gold Electrodes. An in-situ FT-IR Spectro-Electrochemical Study  |
| laurent Ruhlmann         | Poster       | ise151392 | Electrosynthesis Processes Based on Oxidative Couplings of Porphyrins for the Formation of Supramolecular Assemblies  |
| James Rusling            | Keynote      | ise150203 | From Protein Film Bioelectrochemistry to Biomedical Devices and Diagnostics   |
| Iwona A. Rutkowska       | Oral         | ise151076 | Development of Multifunctional Materials Composed of Selected Noble Metal and Metal Oxide Nanostructures for Efficient Electrocatalytic Oxidation of Small Organic Molecules                |
| Fumihiko Sagane          | Poster       | ise151594 | Synthesis of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Thin-film and Electrochemical Behavior in Aqueous Solutions  |
| Morihiro Saito           | Poster       | ise151072 | New Air Electrode Catalysts Based on Mn Oxide Nanosheet/Nanocarbon Composite Materials for Li Air Batteries   |
| Hayate Saito             | Poster       | ise150687 | Capacity enhancement of semi-solid flow capacitor using quinonic compounds  |
| Kenji Sakamaki           | Oral         | ise151283 | Photoelectrochemical Zero Bias Hydrogen Generation with a Novel Three Compartment Cell for Decreasing Theoretical and Total Water Electrolysis Voltage (10)                                 |
| Mathieu Salanne          | Invited Oral | ise151826 | The Electric Double Layer has a Life of its Own   |
| Ricardo Salazar          | Invited Oral | ise151673 | Remediation of bovine slurry wastewater using electrochemical advances oxidation process.   |
| Ricardo Salazar          | Poster       | ise151682 | Degradation of Industrial Textile Dye Disperse Red BG by electro-oxidation: Role of Anode, pH and supporting electrolyte  |
| abdollah salimi          | Poster       | ise150115 | Fe <sub>3</sub> O <sub>4</sub> nanoparticles/reduced graphene oxide composite as novel electrochemical platform for attomolar DNA sensing   |
| abdollah salimi          | Poster       | ise150114 | Immobilizing of bilirubin oxidase onto DNA/MWCNTs platform as novel biocathode for high performance glucose/O <sub>2</sub> compartment-less biofuel cell                                    |
| Sébastien Sallard        | Poster       | ise150126 | Lithium iron methylene diphosphonate, a new organic-inorganic hybrid material for Li-ion batteries.   |
| Loriz Sallum             | Poster       | ise151954 | Temperature Effects on the Oscillatory Electro-Oxidation of Ethanol on Platinum and in Alkaline Media   |
| Carlos M Sanchez-Sanchez | Poster       | ise151893 | Electrochemical CO <sub>2</sub> Reduction at Platinum Surface Structured Electrodes in Room Temperature Ionic Liquids   |
| Miguel Sandoval          | Oral         | ise150229 | Fluoride Removal from Drinking Water by Electrocoagulation in a Continuous Filter Press Reactor coupled to a Flocculator and Clarifier  |
| Hideyuki Sano            | Poster       | ise151638 | A Novel Air Electrode Comprising Core-Shell Particles for MH/Air Secondary Battery  |
| Mistuo Sano              | Poster       | ise150840 | Pd Catalyzed and Electroless Deposition of Ni on Textile Using Supercritical Carbon Dioxide   |
| Mitk'El Santiago         | Oral         | ise150070 | Crystal Structure Manipulation of ZnO particles using organic ligands: electrochemical and photoelectrochemical characterization and EXAFS studies for solar energy harvesting applications |
| Kotaro Sasaki            | Oral         | ise152145 | Gold-promoted structurally ordered intermetallic palladium cobalt nanoparticles for the oxygen reduction reaction   |
| Shino Sato               | Oral         | ise150970 | Interface control in a chemically modified electrode for overpotential reduction  |
| Ashis Kumar Satpati      | Poster       | ise151618 | Hydrothermally Prepared Reduced Graphene Oxide and Manganese Oxide Nano Rod Composite Materials for Supercapacitor Applications   |
| Frédéric Sauvage         | Invited Oral | ise151790 | Solid electrolyte interphase formation in dye-sensitized solar cells: where experimental ends and modeling could start  |
| Jean-Michel Saveant      | Keynote      | ise150355 | Current Issues in Molecular Catalysis Illustrated by Iron Porphyrins as Catalysts of the CO <sub>2</sub> -to-CO Electrochemical Conversion  |
| Micheal Scanlon          | Oral         | ise151116 | Functionalization of Conductive Carbon Supports at Water/Oil Interfaces with Non-Precious Metal Hydrogen Evolution Catalysts  |
| Britta Schafstaller      | Poster       | ise151900 | Au Immersion on mid NiP Substrates – Balance between NiP Dissolution and Au -Adhesion properties  |
| Daniel Scherson          | Oral         | ise152001 | On The Effects of Bromide Adsorption on the Rates of Redox Reactions  |
| Mauricio Schieda         | Oral         | ise152086 | Solar Water Splitting With Nanoimprinted Model Photoelectrodes  |
| Derck Schlettwein        | Poster       | ise150842 | Influence of Decreased Intermolecular Coupling on the Electrochromic Switching-Rate of Substituted Phthalocyanine Thin Films  |
| Derck Schlettwein        | Poster       | ise150896 | Interplay of Different Reaction Pathways in the Pulsed Galvanostatic Deposition of ZnO  |
| Marcel Schreier          | Oral         | ise151661 | Efficient sunlight-driven reduction of CO <sub>2</sub> to fuels based on Cu <sub>2</sub> O and perovskite absorbers   |
| Wolfgang Schuhmann       | Oral         | ise150700 | Redox polymers @ bioelectrochemistry. From biosensors to biofuel cells and self-powered bioelectrochemical devices  |
| W. Schwarzacher          | Oral         | ise150710 | A Ni - 4,4'-bipyridine - Ni single-molecule electrochemical transistor  |
| K. Uta Schwenke          | Oral         | ise151609 | The impact of CO <sub>2</sub> evolved from the reduction of VC and FEC during the formation cycle of lithium-ion batteries  |
| Onofrio Scialdone        | Invited Oral | ise151059 | Abatement of pollutants in water by different electrochemical approaches  |
| Onofrio Scialdone        | Poster       | ise151060 | Electrochemical reduction of carbon dioxide to formic acid at tin cathode in divided and undivided cells: effect of operating parameters  |
| Lukas Seidl              | Poster       | ise151760 | In-Situ EC-STM, EQCM and EIS Studies of interfacial processes in Na ion battery electrolytes  |

|                       |              |           |  |
|-----------------------|--------------|-----------|--|
| Fadhila Sekli Belaidi | Oral         | ise151924 | Arrays of Microwells Equipped with a Recessed Ring Nanoelectrode and a Disk Microelectrode for Nanoelectrochemistry Investigations   |
| Hyunwoong Seo         | Oral         | ise151679 | Novel polymer counter electrode of dye-sensitized solar cells  |
| Silver Sepp           | Poster       | ise151907 | Performance of PEMFC Half Cells Prepared Using Hierarchical Microporous-Macroporous Carbon Supported Pt-Catalyst   |
| Khurram Shahzad       | Oral         | ise150792 | Influence of water concentration on growth efficiency of barrier-type anodic film on magnesium   |
| Sangaraju Shanmugam   | Poster       | ise151531 | Development of Composite Electrolyte Membranes for Polymer Electrolyte Fuel cells Operating at Low Humidity  |
| Minhua Shao           | Invited Oral | ise150360 | Size, Shape and Morphology Effects on Catalytic Activity of Oxygen Reduction Reaction  |
| Neeraj Sharma         | Oral         | ise150057 | The time and current-resolved evolution of sodium location and distribution in electrodes of sodium-ion batteries  |
| Neeraj Sharma         | Poster       | ise150511 | The structural evolution of cathode materials in the current generation of commercial lithium-ion batteries  |
| Yan Shen              | Oral         | ise151584 | Self-Supported Co <sub>4</sub> FeP Nanosheet Arrays Supported on Carbon Cloth: An Efficient Catalyst for Electrochemical Hydrogen Evolution  |
| Shou-Yu Shen          | Oral         | ise150755 | Superior electrochemical performance of Li-rich Li <sub>1.188</sub> Ni <sub>0.198</sub> Co <sub>0.087</sub> Mn <sub>0.553</sub> O <sub>2</sub> cathode material by coating Li <sup>+</sup> Cl <sup>-</sup> CZr <sup>+</sup> CO solid electrolyte |
| Hsiao- Hsuan Shen     | Poster       | ise151327 | Criteria of Activated Carbon Electrical Double- Layer Capacitors in Propylene Carbonate- Based Electrolyte   |
| Zhicong Shi           | Poster       | ise150369 | Electrochemical Impedance Spectroscopy of Meso-structured Materials for Rechargeable Lithium Batteries   |
| Zhicong Shi           | Poster       | ise151596 | Coating to Enhance the Capacity Retention of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> for High Power Lithium Ion Battery   |
| Shilpa Shilpa         | Poster       | ise152219 | Electrospun Hollow Glassy Carbon-rGO Nanofibers with Encapsulated ZnO Nanoparticles : A Free-standing Anode for Li-ion Batteries   |
| Masahiro Shimizu      | Oral         | ise151256 | Application of ionic liquid electrolytes to Si electrode as a Li-ion battery anode   |
| Keiji Shimoda         | Poster       | ise150632 | In situ and ex situ NMR observation of delithiation/lithiation behavior of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub>  |
| Mun-Sik Shin          | Poster       | ise151017 | The Porous Polyimide Membranes Derived from Diamine Monomer Containing Benzimidazole Unit for High Temperature Fuel Cells  |
| Woonsup Shin          | Keynote      | ise151455 | Development of Drug Delivery Devices Based on Nongassing Electroosmotic Pump   |
| Mun-Sik Shin          | Poster       | ise151652 | Preparation and Characterization of Anion Conducting Ionomer Binder based on Quaternized Polybenzimidazole for Solid Alkaline Fuel Cells   |
| Kazuma Shinozaki      | Poster       | ise152051 | Rotating Disk Electrode Studies on the Effect of Nafion on the Oxygen Reduction Reaction for Pt/C and Pt Alloy/C   |
| Yukihiro Shintani     | Oral         | ise151424 | All-solid-State pH Sensor utilizing Termination-controlled Boron-doped Diamond Surface as pH-sensitive/pH-less-sensitive Interface   |
| Yukihiro Shintani     | Poster       | ise152200 | Characterization of Polycrystalline Doped-diamond Electrolyte-solution-gate Field-effect Transistor pH Sensor with/without termination control   |
| Osamu Shirai          | Poster       | ise151628 | Propagation of the change in the membrane potential-Electrochemical elucidation on nerve conduction-   |
| Soshi Shiraishi       | Invited Oral | ise152047 | Graphite-Fluoride Lithium Hybrid Capacitor   |
| Ryo Shirasaka         | Poster       | ise151362 | Effect of dispersion methods on oxygen reduction and ammonia oxidation activity for a MWCNT supported Pt catalyst  |
| Hidenobu Shiroishi    | Poster       | ise151387 | Synthesis of Pt Nanoparticles using Microbubble-assisted Low-Voltage Low Frequency Solution Plasma Processing  |
| Sayoko Shironita      | Oral         | ise151396 | Pt-Ru/C Anode Performance of Polymer Electrolyte Fuel Cell under Carbon Dioxide Atmosphere   |
| Indrajit Shown        | Poster       | ise151314 | Design and development of direct-growth in-situ doped Polypyrrole on carbon cloth as a high performance flexible supercapacitor  |
| Isao Shtianda         | Poster       | ise151157 | Fabrication of Paper-based Disk-shaped Glucose Biofuel Array   |
| Patrice Simon         | Invited Oral | ise151699 | Recent advances on the understanding of ion adsorption/transfer in nanoporous carbon electrodes; application to supercapacitors  |
| Loic Simonin          | Poster       | ise151192 | Microstructure and sodiation mechanisms of hard carbons for sodium-ion batteries   |
| Shajahan Siraj        | Oral         | ise151309 | Hydrogenated and 4-Sulfobenzene Modified Conical-tip Carbon Electrodes with Antifouling Property for Sensitive Detection of Dopamine   |
| Yanyan Song           | Poster       | ise150103 | Cocoon Silk-Derived Carbon Nanospheres: Highly Activated Metal-Free Electrocatalysts for Reduction of Dissolved Oxygen and Glucose Sensing   |
| Jinju Song            | Poster       | ise151808 | Pyro-Synthesis of Functional Nanocrystals  |
| Yanyan Song           | Poster       | ise150105 | Carbon Cladded TiO <sub>2</sub> Nanotubes Enabling Highly Defined RuO <sub>2</sub> Decoration for Efficient Supercapacitor Performance   |
| Cheng-Zhao Song       | Poster       | ise151756 | Flexible Symmetric Supercapacitor of Ni(OH) <sub>2</sub> /Carbon Cloth   |
| Yujiang Song          | Invited Oral | ise150111 | Controlled Synthesis of High-Performance Electrocatalysts toward Oxygen Reduction Reaction   |
| Eric Sorte            | Oral         | ise151234 | Innovations in In situ Electrochemical Nuclear Magnetic Resonance  |
| Dane Sotta            | Poster       | ise150056 | Polymer Binders Evaluation for Improved Lithium-ion Batteries Positive Electrodes via Water-based Processing Route   |
| Kazuhiro Soutome      | Poster       | ise151767 | Electrochemical characteristics of a Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /Marimo carbon composite  |
| Vojislav Stamenkovic  | Keynote      | ise152033 | From Well-Defined Interface to Superior Nanoscale Materials  |
| Mariia Stepanova      | Poster       | ise150609 | Corrosion resistance of zinc diffusion layers on aluminium   |
| Ifan Stephens         | Oral         | ise151812 | Tuning the activity and stability of Pt for oxygen reduction by means of the lanthanide contraction  |
| T. Jane Stockmann     | Poster       | ise150069 | Geometric confinement of the Belousov-Zhabotinsky reaction: a SECM study   |
| Kelsey A. Stoerzinger | Invited Oral | ise150162 | Molecular Insight into Wetted Oxide Surfaces and Oxygen Electrocatalysis   |
| Hans-Henning Strehlow | Keynote      | ise150042 | The Investigation of Passivity of Metals Studied by Surface Analytical Methods, a Review   |
| Miroslaw Stygar       | Poster       | ise151224 | Preparation and structural and electrical properties of calcium-doped and nickel-doped yttrium chromate(III)   |
| Miroslaw Stygar       | Poster       | ise151223 | Oxidation kinetics and microstructure of oxide products formed on the Crofer 22APU ferritic stainless steel in a dual atmosphere   |
| Chun-Hao Su           | Oral         | ise151787 | Combinatorial Sensors using Metal-organic Framework and Prussian blue for High Nitrite Selectivity   |
| Hang Su               | Oral         | ise150744 | Hierarchical Mn <sub>2</sub> O <sub>3</sub> Hollow Microspheres of high performance as Anode of LIBs and XANES studies of Conversion Reaction Mechanism  |
| Dangsheng Su          | Invited Oral | ise152252 | Investigation of the Structure of Fe-N-C Complexes for Oxygen Reduction Reactions  |

|                                   |              |           |   |
|-----------------------------------|--------------|-----------|---|
| Yuh-Fan Su                        | Poster       | ise152243 | Effects of Oxysilane Compounds as Additives on the Passivation of Graphite Electrode in Lithium-Ion Batteries with PC-Based Electrolyte                                   |
| Vasudevan Subramanyan             | Invited Oral | ise150514 | Electrolysis - Inevitable Energy Transformer in a World of Sustainable Energy   |
| Wataru Sugimoto                   | Invited Oral | ise152139 | Pseudocapacitance of ruthenium oxide in buffered solutions  |
| Pang-Chieh Sui                    | Poster       | ise152018 | Mesosopic Modeling for PEMFC Catalyst Layer   |
| Shuhui Sun                        | Oral         | ise150278 | Novel Nanomaterials for High-Performance and Low-Cost PEM Fuel Cells  |
| Chia-Liang Sun                    | Poster       | ise151161 | Synthesis of Short or Holey Graphene Oxide Nanoribbons for the Electrochemical Detection of Biomarkers  |
| Shun Sun                          | Poster       | ise151425 | Accelerated Analysis on Cycle Life of LiFePO <sub>4</sub> /Graphite Batteries under Elevated Temperatures   |
| Fugen Sun                         | Poster       | ise150679 | The application of nitrogen-enriched mesoporous carbons in Lithium-sulfur secondary batteries   |
| Sin-Cih Sun                       | Poster       | ise151349 | Interaction between Ferric/Ferrous Cytochrome c and Cardiopilin: An Electrochemical and Quartz Crystal Microbalance with Dissipation Study                                |
| Yanzhi Sun                        | Poster       | ise151528 | Effect of Electrolysis Conditions on Catalyzed Electrolytic Preparation of Layer Nickel Oxyhydroxide  |
| Yung-Tao Sung                     | Poster       | ise150485 | Improved Visible-light Photoelectrochemical Water Oxidation using Titanium Dioxide /Antimony Trisulfide Heterojunction Structure  |
| Lung-Yu Sung                      | Poster       | ise152267 | Effects of H <sub>3</sub> PO <sub>4</sub> leaching on the performance and degradation of high temperature-proton exchange membrane fuel cells                             |
| Hogiartha Sutiono                 | Poster       | ise152231 | A Shortcut: Core (Rutile) – Shell (Anatase) Nanorods for Highly Efficient Solar Water-Splitter  |
| Aimi Suzuki                       | Poster       | ise150672 | Characterization of Glucose Oxidase-Redox Hydrogel on MgO-templated Carbon Electrode  |
| Takuma Suzuki                     | Poster       | ise151065 | Motion control of TiO <sub>2</sub> /Pt/Au nanomotor by UV light irradiation   |
| Shinya Suzuki                     | Oral         | ise150789 | Electrode properties of the restacked MnO <sub>2</sub> -based nanosheets with vacancy defects   |
| Shohei Suzuki                     | Poster       | ise151832 | Physical and Electrochemical Properties of Quaternary Ammonium Compounds in Highly Concentrated Solutions   |
| Olga Swiech                       | Oral         | ise151963 | Application of New Conjugate of Cyclodextrin and Lipoic Acid in pH-Sensitive, Multifunctional Drug Carriers   |
| Vitali Syritski                   | Poster       | ise151965 | An Electrosynthesis Approach to the Integration of Protein-Imprinted Polymer Film with a Sensor Transducer  |
| Mei-Jywan Syu                     | Poster       | ise152197 | On the Synthesis of Zinc-Tetrapyrrolylporphine Complex for the Electrochemical Recognition of Bilirubin in Serum  |
| Mei-Jywan Syu                     | Poster       | ise152195 | Amperometric Detection of Bilirubin via A Room-Temperature Ionic Liquid-Imprinted Polymer Composite Electrode   |
| Sabine Szunerits                  | Invited Oral | ise150040 | Reduced graphene oxide modified electrodes: from glucose sensing to electrochemical delivery of insulin   |
| Masakuni Takahashi                | Poster       | ise151345 | Evaluation of oxygen reduction properties by ring-disk flow electrode   |
| Yasufumi Takahashi                | Poster       | ise150335 | Improving the Electrochemical Measurement Sensitivity of SECM-SICM by using Pt Electrodeposited Carbon Nanoelectrode  |
| Kazuya Takeuchi                   | Poster       | ise151724 | A Challenge to Synthesize Bi <sub>2</sub> Ir <sub>2</sub> O <sub>7-z</sub> -based Hybrid Oxide for Oxygen Reduction   |
| Yuma Takeuchi                     | Poster       | ise151257 | Nanoparticle-assisted electrochemical formation of ferrocenethiol-monolayer nanodots  |
| Indrek Tallo                      | Oral         | ise151726 | Surprisingly Large Improvements in SiC-CDC Based EDLC via Simple CO <sub>2</sub> Activation Method  |
| Loreta Tamasauskaite-Tamasiunaite | Poster       | ise150825 | Investigation of Hydrazine Oxidation at Co Fiber Structure Decorated with Pt Nanoparticles  |
| Loreta Tamasauskaite-Tamasiunaite | Poster       | ise151207 | Preparation of Graphene Supported PtCoMo by Electroless Deposition  |
| Yuko Tamura                       | Poster       | ise151541 | Titanium-niobium oxides as non-platinum cathodes for polymer electrolyte fuel cells   |
| Junko Tanaka                      | Poster       | ise150742 | Direct detection for ratio of concentrations of HbA <sub>1c</sub> to total hemoglobin with potentiometric immunoassay   |
| Shuihua Tang                      | Oral         | ise150273 | High-Performance Electrocatalyst for Oxygen Reduction Derived from Riboflavin and Iron  |
| Federico Tasca                    | Oral         | ise152003 | O <sub>2</sub> Reduction at Graphite Electrodes Modified with MN <sub>4</sub> Macrocyclic Complexes and Pyridine Grafted Carbon Nanotubes                                 |
| Yoshitaka Tateyama                | Invited Oral | ise151839 | DFT-MD Study on Formation Processes of Solid Electrolyte Interphase at Negative Electrode Interfaces in Lithium-Ion Battery   |
| Marcos F. S. Teixeira             | Poster       | ise152024 | Electrochemical Oxidation of Alcohols at Poly[Ni(95;-metil-salen)] Metallopolymer Electrode   |
| Sandra Temmel                     | Oral         | ise150923 | Investigation of ORR activity of strained thin film Pt electrocatalyst produced by pulsed laser deposition  |
| Hsisheng Teng                     | Poster       | ise152087 | Graphene Oxide Quantum Dots for Photon Energy Conversion  |
| Hsisheng Teng                     | Oral         | ise152092 | Facile Simulation of Electric Double-Layer Capacitance Based on Helmholtz Models  |
| Wei Zhe Teo                       | Poster       | ise150419 | Fate of Silver Nanoparticles in Natural Waters; Integrative Use of Conventional and Electrochemical Analytical Techniques   |
| Shintaro Terui                    | Poster       | ise151039 | Development of Air Electrode with Bi <sub>2</sub> Ir <sub>2</sub> O <sub>7-z</sub> Nano-catalyst for MH/Air Secondary Battery   |
| Simon Theil                       | Poster       | ise152185 | Investigation of cell aging by analysis of electrolyte decomposition via gas chromatography   |
| Simon Thiele                      | Oral         | ise150951 | Multi-scale tomographic analysis of fuel cells, batteries and electrolyzers   |
| Na Tian                           | Poster       | ise151544 | Electrochemical shape transformation of Pt nanocrystals with high-index facets  |
| Jing-Hua Tian                     | Oral         | ise150390 | Synthesis and Catalytic Activity of Ni Doped CoFe <sub>2</sub> O <sub>4</sub> Hollow Nanospheres as Bi-functional Catalysts for Lithium Air Batteries                     |
| Xiaochun Tian                     | Oral         | ise150388 | Electron Transfer effect on the Bioluminescence of Shewanella Woodyi  |
| Zhongqun Tian                     | Oral         | ise152068 | Extending Shell-isolated Nanoparticle-enhanced Raman Spectroscopy to Study Ordered/Disordered Adsorption of (Bi)sulfate on Au Single Crystal Electrodes                   |
| Selina Tillmann                   | Poster       | ise150283 | Electrodeposition of Silicon for the Preparation of Submicrostructured Electrodes   |
| Selina Tillmann                   | Oral         | ise150282 | Block Copolymer-Templates for the Design of Three-Dimensional Interpenetrating Current Collectors for Submicrostructured Electrodes                                       |
| Gerald Ensang Timuda              | Poster       | ise150899 | Electrochemical Analysis of Dye Sensitized Solar Cell Employing Indoline-based and Ruthenium-based Dye Combined with Volatile and Non-Volatile Solution-based Electrolyte |
| Natalia Tintaru (Tsyntsar)        | Poster       | ise150502 | Template Electrodeposition and Magnetic Properties of Co-W alloys   |
| Makoto Togami                     | Oral         | ise150583 | Acceleration of Laccase Bioelectrocatalysis at Carbon Nanotube Interface Modified with Steroid-Type Biosurfactants  |

|                          |              |           |   |
|--------------------------|--------------|-----------|---|
| Her Shuang Toh           | Poster       | ise150330 | 'Nano-impacts': An Electrochemical Technique for Nanoparticle Sizing in Optically Opaque Solutions  |
| Takuya Tokuda            | Poster       | ise151185 | Electrochemical preparation of novel metal-like lustrous films  |
| Masato Tominaga          | Oral         | ise150561 | Raman Spectroscopic Detection of Electrochemical Oxidative Reaction of Single-Walled Carbon Nanotubes   |
| YuYe Tong                | Oral         | ise151031 | Unexpected Good Deed of a Traditional Poison: Sulfur-Adsorption Enhanced Activity and Stability of Pt for Oxygen Reduction Reaction                   |
| Roberto Torresi          | Poster       | ise150537 | Transport properties of Li <sup>+</sup> Mixtures in Two Phosphonium Containing Ionic Liquids  |
| Joanne Tory              | Oral         | ise151246 | Transition Metal &#945;-Diimine Carbonyl Complexes for Electrocatalytic CO <sub>2</sub> Reduction   |
| Xuan Minh Tran           | Poster       | ise150564 | Electrochemical Studies of Tin Film Model Electrode for Magnesium-ion Batteries   |
| Germano Tremiliosi-Filho | Poster       | ise152030 | Silver Assistance to Gold Catalyst in the Alkaline Direct Glycerol Fuel Cell  |
| Bernard Tribollet        | Keynote      | ise151089 | Analysis by EIS of Cathodic Reactions on Carbon Steel in Aerated Solution at pH 13  |
| Libuse Trnkova           | Poster       | ise152010 | DNA Heptamers with Different Central Trinucleotide Sequences Studied by Electrochemical and Spectral Methods  |
| Chih-Long Tsai           | Poster       | ise150884 | All-Solid-State Li Battery using garnet structure Ta-substituted Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> as solid electrolyte |
| Po-Chih Tsai             | Poster       | ise152202 | Metal Ion Additive Effect on the Morphology of Silicon Etching  |
| Wan-Yu Tsai              | Oral         | ise150549 | In-situ Electrochemical Quartz Crystal Microbalance (EQCM) Study of Ion Dynamics and Charge Storage Mechanism for Supercapacitors                     |
| Tzu-Hsuan Tsai           | Poster       | ise150413 | Recovery of Nanosilver from Si-Wafer Manufacturing Wastes   |
| Yao-Lin Tsai             | Oral         | ise151052 | Using Cu Nanoparticles as Catalysts of Electroless Copper Deposition for Metallization of a Printed Circuit Board                                     |
| Kai-Chieh Tsai           | Poster       | ise151461 | Surface Textured Silicon Photocathode for H <sub>2</sub> Production improves Photoelectrochemical Water Splitting efficiency                          |
| Shu Yi Tsai              | Poster       | ise152130 | Processing and Characterization of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> (LTO) Spinel Thin &#173;Film for Li Battery Applications           |
| Shu-Yi Tsai              | Poster       | ise152254 | Effect of Composite Cathode on Polarization Reduction for Solid Oxide Fuel Cells based on Microstructure and Ion-Conduction Consideration             |
| Dah-Shyang Tsai          | Oral         | ise150714 | Structure and Capacity of a Tin-Copper-CNT Composite Anode and its Lithium Ion Hybrid Capacitor Performance   |
| Chen-Yu Tsai             | Poster       | ise152201 | Preparation of Highly Conductive TiO <sub>2</sub> Supported Pt Catalyst and Its Electrochemical Performance   |
| Shu Yi Tsai              | Poster       | ise152129 | Infrared transparent NiCo <sub>2</sub> O <sub>4</sub> thin film as a Front Electrode for Solar Cells  |
| Kristina Tschulik        | Oral         | ise152227 | Nano-Impacts – Studying Magnetic Field Effects on Single Magnetite Nanoparticles in Solution  |
| Yu-Hao Tseng             | Poster       | ise152281 | Efficient Quasi-Solid-State Dye-Sensitized Solar Cells with Novel Polymeric Ionic Liquids   |
| Hiroaki Tsuchiya         | Oral         | ise152213 | Alloy Anodization in Fluoride-Containing Electrolytes   |
| Seiya TSUJIMURA          | Oral         | ise150880 | Biocathode based on a MgO-template Carbon Electrode Modified with ABTS and Bilirubin Oxidase  |
| Takami Tsukuma           | Poster       | ise150954 | A Novel Electrochemical Sensing of Hydrogen Phosphate Ion with RuO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> Mixed Oxide                           |
| Katsuhiko Tsunashima     | Oral         | ise151294 | Electrochemical Behavior of Oxygen in Phosphonium Ionic Liquids as Electrolytes for Lithium Air Batteries   |
| Nozomu Tsuruoka          | Poster       | ise150602 | Glucose Biosensor based on a Glassy Carbon Electrode Modified with Poly(methylene green) and FAD-dependent Glucose Dehydrogenase                      |
| Chao-Chi Tu              | Poster       | ise150474 | In-situ Polymerization of Pyrrole in MoS <sub>2</sub> Nanosheets as Highly Conductive Materials with Large Surface Area for Supercapacitors           |
| Dong-Ying Tzou           | Poster       | ise151821 | Synthesis of MnO <sub>2</sub> /Carbon Composites as Electrode Materials for Supercapacitors   |
| Dong-Ying Tzou           | Poster       | ise151653 | Graphene and Carbon nanotube Composites as Electrode Materials for Electrochemical Capacitors in Organic Electrolyte                                  |
| Ken-ichi Uchida          | Poster       | ise151684 | Potential-Dependent Structure of [BMIM](1-x)Lix[FSA] on a Gold Electrode: A Surface-Enhanced Infrared Study   |
| Satoshi Uchida           | Poster       | ise150931 | Low-Temperature Operation Performance of LiFSI-Based Low EC Content Electrolyte with Specific Solvation State   |
| Yoshiharu Uchimoto       | Oral         | ise151527 | operando synchrotron X-ray analysis for investigation of electrode property of lithium ion battery cathode  |
| Tsukasa Ueda             | Poster       | ise151417 | Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> / Activated Carbon Hybrid Capacitor for High Voltage Operation  |
| Tadaharu Ueda            | Poster       | ise150817 | Development of New Electrochemical Evaluation Method for Antioxidant Capacity with Polyoxometalates as Potential Probes                               |
| Hiroyuki Ueda            | Poster       | ise151606 | Electrochemical Redox Behavior of Cobaltocenium in Imidazolium-based Ionic Liquids with Various Alkyl Chain Length                                    |
| Hiroyuki Ueda            | Oral         | ise151597 | Influence of Cations on the Control of the Multiple Redox States of Fullerene at the Ionic Liquid Electrochemical Interface                           |
| Sven Uhlenbruck          | Poster       | ise150895 | Manufacturing and Performance of solid-state thin-film batteries  |
| Yusuke Ujino             | Poster       | ise151698 | Formation and Electrochemical Behaviors of RuO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> Coating on Pb Substrate for Oxygen Evolution              |
| Saviour Umoren           | Poster       | ise150224 | Performance Evaluation of Pectin as Ecofriendly Corrosion Inhibitor for X60 Pipeline Steel in Acid Medium: Experimental and Theoretical Approaches    |
| Patrick Unwin            | Invited Oral | ise152237 | Making Movies: Next Generation Electrochemical Imaging  |
| Sigita Urbonaite         | Poster       | ise150131 | Search for Perfect Carbonaceous Sulphur Hosts for Li-S Batteries  |
| Jon Ustarroz             | Oral         | ise151867 | Electrodeposition of Electrocatalytic Nanostructures from Aqueous Solutions and Deep Eutectic Solvents: Aggregative Growth                            |
| Jon Ustarroz             | Poster       | ise151874 | Electrodeposition of Nickel Nanostructures from Deep Eutectic Solvents: New Insights into Nucleation and Growth Mechanisms                            |
| Hiroyuki Usui            | Oral         | ise150682 | Gadolinium silicide/silicon composite anode for next-generation lithium-ion battery   |
| Jan Vacek                | Keynote      | ise150241 | Electrochemistry of Membrane Proteins   |
| Jan Vacek                | Poster       | ise150240 | eL-Chem Viewer: A Freeware Package for the Analysis of Electrochemical Data   |
| Giovanni Valenti         | Invited Oral | ise151181 | Co-axial Nanostructures for CO <sub>2</sub> Conversion: Synergic Effects between Carbon Nanotubes and Metal Oxides                                    |
| Giovanni Valenti         | Poster       | ise151563 | Transparent Carbon Nanotube Network for Efficient Electrochemiluminescence Device   |
| LAURA VALERO             | Oral         | ise152071 | Validation of Polymeric artificial muscles with a Proportional- Integral control system   |

|                           |                 |           |   |
|---------------------------|-----------------|-----------|---|
| Carlos Valero-Vidal       | Oral            | ise150531 | TiO <sub>2</sub> based supports for electrochemical ethanol oxidation on Pt catalyst  |
| Ana Sofia Varela          | Oral            | ise151612 | CO <sub>2</sub> Electroreduction on Heteroatom-doped Carbon Catalyst  |
| Hamilton Varela           | Keynote Invited | ise150737 | The Complex Electro-oxidation of Simple Molecules   |
| Ronald Vargas             | Poster          | ise150620 | Photopotential Decay Delay on TiO <sub>2</sub> Surface Modified with p-benzaldehydes: Consequences and Applications   |
| Hristina Vasilchina       | Poster          | ise150867 | Synthesis and Characterization of New Polyanionic Compound as a Cathode Material for Magnesium Ion Batteries  |
| Cora Vasilescu            | Poster          | ise150517 | Passive Film Characterization on New Ternary Ti-Ta-Zr Alloy Surface   |
| Natasa Vasiljevic         | Invited Oral    | ise151405 | Surface Limited Redox Replacement Design of Pt Bimetallic Nanostructures  |
| Alexander Vaskevich       | Poster          | ise151199 | Effect of Nanoscale Surface Morphology on Biorecognition Using Localized Surface Plasmon Resonance (LSPR) Spectroscopy  |
| Alexander Vaskevich       | Oral            | ise151119 | Chemical Deposition and Galvanic Replacement of Morphologically Controlled Cu <sub>2</sub> O Nanoparticle Films   |
| Matej Velicky             | Oral            | ise150438 | Electrochemistry of Two-Dimensional Materials   |
| Divya Velpula             | Poster          | ise150491 | Polymer Nanostructures using Three Diffuse Double Layers: Science beyond the Liquid/Liquid Interfaces   |
| Edgar Ventosa             | Oral            | ise151214 | Semi-solid flow battery: an emerging electrochemical system   |
| Enrico Verlato            | Invited Oral    | ise150691 | Deposition of Ag Nanostructures on Ni-based 3D Electrodes and their Application as Electrocatalysts   |
| Philippe Vernoux          | Invited Oral    | ise151519 | Electrochemical activation of environmental catalysis   |
| Delphine Veys-Renaux      | Poster          | ise151576 | Zinc anodizing at high voltage in alkaline media  |
| Delphine Veys-Renaux      | Oral            | ise151551 | Corrosion inhibition of steel by flavonoid model molecules: naringin, neohesperidin, rutin  |
| Elisama Vieira dos Santos | Poster          | ise151182 | Extraction Agents for Removing Petroleum from Soil and Application of Electrolysis to Treat Washing Fluid   |
| Elisama Vieira dos Santos | Poster          | ise151200 | Combined soil washing and CDEO for the removal of oxyfluorfen from soils  |
| Mikhail A. Vorotyntsev    | Oral            | ise150814 | Spectroelectrochemistry in the Course of Oxidative Electrolysis as a Tool to Determine the Molecular Structure of Electroactive Polymer Based on Mg(II) Porphine    |
| Mikhail A. Vorotyntsev    | Poster          | ise151859 | Study of Effect of Various Solvents on the Electropolymerization Process of Mg(II) Porphine and Electroactive Properties of Polyporphine Films                      |
| Thi Huong Vu              | Oral            | ise151077 | Functionalized multi-walled carbon nanotubes as supporting matrix for enhancement oxidation of fucose on gold nanoparticle-based catalyst and fuel cell application |
| Thi Huong Vu              | Poster          | ise151473 | Photocatalytic carbon nanotube-TiO <sub>2</sub> -AuNPs composites for enhancement of oxidation of fucose  |
| Andy Wain                 | Oral            | ise151898 | Mapping Oxygen Reduction at Individual Nanostructures Using High-Resolution Electrochemical-Topographical Imaging   |
| Mitsuru Wakisaka          | Oral            | ise150827 | Direct Electrochemical Hydrogenation of Aromatic Molecules at Pt Electrode in Microemulsion Electrolyte Solution  |
| Alain Walcarius           | Invited Oral    | ise151071 | Bioelectrocatalysis with sol-gel biocomposite layers deposited onto porous electrodes   |
| Ying Wan                  | Oral            | ise150316 | Surface-Initiated Enzymatic Polymerization Based Signal Amplification Strategies for Sensitivity Improvement of Electrochemical DNA Sensors                         |
| Zhongde Wang              | Poster          | ise151009 | Enhancement of Heavy Metals Removal Efficiency from Liquid Wastes by Using Potential-triggered Proton Self-exchange Effects   |
| Shulan Wang               | Oral            | ise150099 | Influence of Structure, Composition and Morphology of Sn Based Anodes on its Electrochemical Performances for Li Ion Battery  |
| Fu-Ming Wang              | Oral            | ise152262 | Self Terminated Oligomer Branched Architecture (STOBA) in lithium ion battery   |
| Guoqing Wang              | Oral            | ise151917 | RuO <sub>2</sub> -nanoparticles-coated &#948;-MnO <sub>2</sub> as efficient catalytic cathode for high-performance Li-O <sub>2</sub> batteries                      |
| Chen-Hao Wang             | Poster          | ise150467 | Effect of Iron Precursor on Oxygen Reduction Reaction of Fe-N-C Catalyst in PEMFC   |
| Hao Wang                  | Oral            | ise151370 | An Efficient Bifunctional Catalyst Derived from Metal-organic Frameworks for Oxygen Reduction/Evolution Reactions   |
| Yu-Sheng Wang             | Poster          | ise150427 | Voltammetric Study and Electrodeposition of Zinc in N-butyl-N-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide Room Temperature Ionic Liquid                  |
| Shan-Yu Wang              | Poster          | ise150749 | Controllable Synthesis of Metal Nanoparticle/Graphene Nanoribbon Composites   |
| Jie Wang                  | Poster          | ise151864 | A Facile Molten-Salt Method to Prepare Two-Dimensional Carbon Nanosheets as Electrode for Supercapacitors   |
| Jiade Wang                | Poster          | ise150596 | Simultaneous Removal of COD and Ammonia Nitrogen using a Novel Electro-oxidation Reactor  |
| Ye Wang                   | Oral            | ise150796 | Enhanced Electrocatalysis of Ethanol on Dealloyed Pd-Ni-P Film in Alkaline Media: an Infrared Spectroelectrochemical Investigation                                  |
| Han Wang                  | Poster          | ise150799 | Pt (Pd) Monolayer on Au Formed by One-Pot Chemical Process with Enhanced Electrocatalytic Performance on Ethanol Oxidation  |
| Zenglin Wang              | Oral            | ise150194 | Investigation Nitrogen Heterocyclic Compounds as Levelers for Electroplating Cu Filling by Electrochemical Method and Quantum Chemical Calculation                  |
| Jen-Yuan Wang             | Oral            | ise151264 | Amperometric Detection of Hemoglobin A1c using a Poly(3-aminophenylboronic acid) Thin Film with Binding-Induced Ion Flux Blocking                                   |
| Chueh-Han Wang            | Poster          | ise151260 | Na <sub>0.44</sub> MnO <sub>2</sub> /V Hard Carbon Sodium-Ion Battery using N-propyl-N-methylpyrrolidinium Bis(fluorosulfonyl)imide Ionic Liquid Electrolyte        |
| Xiaoqi Wang               | Poster          | ise150505 | One-dimensional TiO <sub>2</sub> (B) nanostructures: shape and phase dependent transformation from titanates and their application                                  |
| Yonggang Wang             | Invited Oral    | ise150220 | Aqueous Li (or Na)-ion Batteries for Grid-scale Energy Storage  |
| Chen-Hao Wang             | Poster          | ise151492 | Functionalization of Carbon Felt as Catalytic Material for Vanadium Redox Flow Battery  |
| Wei Wang                  | Poster          | ise150343 | Quantifying Surface Diffusion by Nanoelectrode  |
| Lina Wang                 | Poster          | ise150345 | A high performance lithium-ion sulfur battery based on a Li <sub>2</sub> S cathode using dual-phase electrolyte   |
| Deli Wang                 | Oral            | ise150562 | Novel Structured Pt-Based Intermetallic Electrocatalysts for ORR  |
| Jen-Yuan Wang             | Poster          | ise150925 | A Flexible all-solid-state Electrochromic Device with Polymeric Crystal Composite Electrolyte and WO <sub>3</sub> /NiO Complementary System                         |
| Guoqing Wang              | Poster          | ise151717 | Au-nanocrystals-decorated &#948;-MnO <sub>2</sub> as efficient catalytic cathode for high-performance Li-O <sub>2</sub> batteries                                   |



|                    |              |           |   |
|--------------------|--------------|-----------|---|
| Hongkang Wang      | Poster       | ise151668 | Non-solution synthesis of ultrafine SnO <sub>2</sub> nanoparticles within multiwall carbon nanotube networks as high-performance anodes for lithium ion batteries   |
| Jung-Chi Wang      | Oral         | ise150984 | Forward and reverse differential-pulse applied in the formation of solid electrolyte interface with constant temperature addition in lithium ion battery  |
| Shih-Han Wang      | Poster       | ise152063 | Improvement of Electrochemical Biosensor Performance for Hydrogen Peroxide Sensing Based on Iridium Nanoparticles Modified Graphene Oxide   |
| Chundong Wang      | Poster       | ise150428 | Roles of Carbon: A Smart Strategy Toward High Performance Energy Storage Application  |
| Jau-Kai Wang       | Poster       | ise150359 | A study on Supercritical Electrolytic Polishing Process for Stainless steel substrates  |
| Si-Ping Wang       | Poster       | ise150995 | Study of the Electrochemical oxidation of Dissolved Carbon monoxide in Acidic and Alkaline electrolytes by Using and Fabricated Au-Microelectrode   |
| Kuan-Wen Wang      | Poster       | ise150319 | The Performance and Stability of the Oxygen Reduction Reaction on Pt <sub>4</sub> Vbased Nanorods: An Experimental and Computational Study  |
| Satoru WATANABE    | Poster       | ise151055 | Intelligent Self-lubricant Composite Nickel Coating based on Phase Transition of Polystyrene and Polymethyl Methacrylate Particles  |
| Klaus Wedlich      | Oral         | ise150857 | Investigation of the growth of a SEI-like surface layer on LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> high voltage cathodes   |
| Zidong Wei         | Oral         | ise150624 | Pt-free Catalyst for Oxygen Reduction Reaction in Fuel Cells  |
| Chiao-Chien Wei    | Oral         | ise151171 | Bottom-up Filling of Damascene Trenches with Cobalt by Electroplating Process   |
| Guor-Tzo Wei       | Poster       | ise150800 | The Modification of Screen-printed Carbon Electrodes with Polymerized Ionic Liquid Composites for Chemical Analysis   |
| Di Wei             | Poster       | ise150861 | Graphene for energy solutions   |
| Shih-I Wen         | Poster       | ise151467 | Using Copolymers as Suppressors in a Copper Plating Bath for Through-Hole Filling   |
| Yu-Ting Weng       | Oral         | ise151807 | Enhanced Performance of TiO <sub>2</sub> Based Supercapacitor by MnO <sub>2</sub> Modification  |
| Yu-Ching Weng      | Poster       | ise151389 | Screening of Ru-based Electrocatalysts for Oxygen Reduction by Scanning Electrochemical Microscopy  |
| W. Wiecezorek      | Invited Oral | ise150003 | Studies on ionic transport in liquid and polymeric electrolytes based on novel organic salts  |
| Lindsay Wilson     | Poster       | ise150581 | Electrochemical Responses of Transglutaminase Immunosensor Developed on a Polypyrrole-Cobalt (II) Salicylaldimine Dendritic Composite Material  |
| Lindsay Wilson     | Oral         | ise150577 | Electrochemical Responses of Transglutaminase Immunosensor Developed on a Polypyrrole-Cobalt (II) Salicylaldimine Dendritic Composite Material  |
| Martin Winter      | Oral         | ise150478 | Neglected, Forgotten or Unimportant? Inactive Materials in Lithium Ion Batteries  |
| Gunther Wittstock  | Keynote      | ise150186 | Microelectrochemical in situ observation of battery electrodes  |
| Colin Hong An Wong | Poster       | ise150459 | Inadvertent contamination of graphene materials: Synthetic routes introduce a whole spectrum of unanticipated metallic elements   |
| Raymond Wong       | Oral         | ise151355 | The Role of Defects and Oxygen Functionalities in Carbon Nanotube-based electrodes for the Lithium-oxygen Battery   |
| Nae-Lih WU         | Invited Oral | ise150909 | Research on Polymeric Artificial Solid-Electrolyte-Interphase for Enhanced Performance of Li-ion Battery Anodes   |
| Yuping Wu          | Oral         | ise151124 | New Concept Aqueous Rechargeable Batteries with High Energy Densities   |
| Alvin Wu           | Oral         | ise150926 | Explore the Failure Mechanism in Lithium-ion Batteries by Forensic Analysis Techniques  |
| Pu-Wei Wu          | Poster       | ise151667 | Electrodeposition of CuMn thin film from a nonaqueous electrolyte   |
| Jian-Hua Wu        | Poster       | ise150586 | Electrochemical performance of lithium-rich (Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> ) high-capacity cathode of lithium battery modified with fluorine-benzimidazole-based Li salt addition in electrolyte |
| Tzu-Ho Wu          | Poster       | ise151160 | Cation Effect on Ni(OH) <sub>2</sub> Phase Transformation   |
| Yi-Shiuan Wu       | Poster       | ise151263 | A novel PVDF-HFP/PET/PVDF-HFP composite membrane by electrospinning and solution-casting techniques for LiFePO <sub>4</sub> lithium-ion batteries   |
| Ching Chou Wu      | Poster       | ise150440 | Fabrication of nanostructured copper phosphate electrodes for the detection of $\epsilon$ -amino acids  |
| Pu-Wei Wu          | Poster       | ise152104 | Multilayer Deposition of Iridium Oxide for Biocompatible Stimulating Electrode Application  |
| Qihui Wu           | Oral         | ise150122 | Ge@GeO <sub>2</sub> core@shell nanoparticles/multi-layer carbon composites as anode materials for lithium-ion batteries   |
| Yi-Shan Wu         | Poster       | ise150779 | Electrophoretic deposition of graphene sheets on porous nickel foam as effective catalysts for oxygen evolution reaction and hydrogen peroxide sensor   |
| Huaping Wu         | Poster       | ise150745 | Three-dimensional MoS <sub>2</sub> /rGO Hydrogel with Extremely High Double-layer Capacitance as Active Catalysts for Hydrogen Evolution Reaction   |
| De-Yin Wu          | Poster       | ise151875 | Adsorption and Photocatalytic Hydrogen Evolution Reactions of Water on Silver and Gold Cathodes: DFT and SERS Study   |
| De-Yin Wu          | Poster       | ise151805 | Electrochemical Adsorption and Surface-Enhanced Raman Spectroscopy on Nanostructured Electrodes   |
| Heng-Liang Wu      | Oral         | ise150948 | In-situ Raman Spectroscopy and EQCM study of Lithium-Sulfur Batteries   |
| Fengna Xi          | Poster       | ise150892 | Electrochemical Immunosensor for Sensitive Detection of Tumour Markers Based on Three-dimensional Graphene Electrode and Immobilized Redox Probe  |
| yongyao Xia        | Invited Oral | ise151316 | Nitrogen-doped Mesoporous Carbon for Supercapacitor Application   |
| Xing-Hua Xia       | Oral         | ise150368 | Manipulation of biomolecular functions at electrode surfaces via surface modification   |
| Chuan Xia          | Poster       | ise152248 | Polyaniline-RuO <sub>2</sub> Core-Shell Nanostructured Arrays for Very Stable and High Performance Pseudocapacitors   |
| Meiling Xiao       | Oral         | ise150208 | Exploration of efficient low-platinum and non-platinum catalysts for oxygen reduction reaction  |
| Guan Xiao-rui      | Poster       | ise150981 | Electrochemical Characterization and Molecular Dynamics Simulation on Corrosion Inhibition of Quinoline   |
| Zhaoxiong Xie      | Poster       | ise150216 | Supersaturation Dependent Evolution of Nanocrystal Surfaces and its Application in the Synthesis of Noble Metal Nanocatalysts with Enhanced Electrocatalytic Properties   |
| Guobao Xu          | Oral         | ise151180 | Shape-Controlled and Size-Controlled Synthesis of Metal Nanocrystals and Their Electrochemical Applications   |
| Chao Xu            | Oral         | ise151236 | Improved Performance of Silicon Anode for Li-Ion Batteries: Understanding the Surface Modification Mechanism of Fluoroethylene Carbonate as an Effective Electrolyte Additive   |
| Momo Yaguchi       | Poster       | ise151573 | Electrocatalysis of Formic Acid Oxidation on Gold and Platinum: Where Does the Crucial Activity Difference Come From?   |
| Atsuo Yamada       | Keynote      | ise152322 | Alluaudite Na <sub>2</sub> +2xFe <sub>2</sub> -x(SO <sub>4</sub> ) <sub>3</sub> as 3.8 V Sodium Battery Cathode   |

|                      |              |           |   |
|----------------------|--------------|-----------|---|
| Masaki Yamagata      | Oral         | ise151921 | How to make an ideal electrolyte based on bis(trifluorosulfonyl)imide-based ionic liquid electrolyte for lithium-ion and lithium-sulfur batteries   |
| Shohei Yamaguchi     | Poster       | ise151613 | Output Performance of MH/Air Secondary Battery using Bi <sub>2</sub> Ru <sub>2</sub> O <sub>7-z</sub> /sub> Catalyst in Positive Electrode  |
| Takayo Yamamoto      | Poster       | ise150382 | Fabrication of the three-dimensional micro structure by Fe-Ni alloy electroforming process -Effect of saccharin concentration-  |
| Yudai Yamamoto       | Oral         | ise152222 | Local Measurement of Hydrogen Diffusion in Steel Sheet  |
| Yuebin YANG          | Oral         | ise150560 | Carbonized Polydopamine/Sulfur Composite with One-Dimensional Structure for High Performance Lithium Sulfur Batteries   |
| Cheng-Hsien Yang     | Poster       | ise151773 | Holey Graphene Nanosheets with Surface Oxygen-containing Groups for High Supercapacitor Performance in Ionic Liquid Electrolyte   |
| Jung Hoon Yang       | Poster       | ise151008 | In-Situ Electrochemical Analysis for Electrolyte in Vanadium Redox Flow Battery   |
| Ming-Chang Yang      | Oral         | ise151895 | Nitrogen-doped Carbon Electrodes for Simultaneous Detection of Dopamine, Uric Acid and Ascorbic Acid  |
| Sheng Sian Yang      | Poster       | ise150468 | The Simple Method for Synthesis of the Nickel Foam-supported graphene with High Surface Area for Supercapacitors  |
| Chun-Chen Yang       | Poster       | ise150845 | Synthesis and Characterization of LiFePO <sub>4</sub> Composite Cathode Material Modified with in-situ Graphene and Solid-State Electrolyte   |
| Sainan Yang          | Poster       | ise150991 | Reduced Graphene Oxide Decorated on MnO <sub>2</sub> Nanoflakes Grew on C/TiO <sub>2</sub> Nanowire Arrays for Supercapacitor   |
| Wenyu Yang           | Poster       | ise152149 | Suppression of degradation of lithium ion batteries for LiFePO <sub>4</sub> @C batteries by nano Si surface modification<br>Wenyu Yang, Xiang Chen, Mingzhong Zou, Guiying Zhao, Jiaxin Li, Yingbin Lin, Zhigao Huang* College of Physics and Energy, Fujian Normal University, F |
| Tae-Hyun Yang        | Invited Oral | ise152253 | Design and Development of a Fuel Cell Power Module for High Altitude and Long Endurance Unmanned Aerial Vehicles  |
| Yong Yang            | Invited Oral | ise150294 | Enhancing electrochemical performance of layered oxide cathode materials for Li/Na ion batteries  |
| Jingshuai Yang       | Oral         | ise150123 | Preparation and Properties of PTFE Reinforced Novel Anion Exchange Membranes Based on Silane Crosslinked Imidazolium Containing Poly(2,6-dimethyl-1,4-phenylene oxide)  |
| Wenrong Yang         | Oral         | ise150205 | Real-time Electrochemical Monitoring Covalent Bond Formation in Solution via Nanoparticle-Electrode Collisions  |
| Yu Yang              | Oral         | ise151299 | Corrosion Characteristics of Ni-free Nitriding Stainless Steel as Bipolar Plate Material for PEFC   |
| Jun Yang             | Poster       | ise150437 | Improving the Cycling Performance of the Layered Ni-Rich Oxide Cathode by Introducing the Low-Content Li <sub>2</sub> MnO <sub>3</sub>  |
| Fang-Zu Yang         | Poster       | ise151800 | The Research of Industrial Application for Cyanide-free Copper Plating on Zinc Alloy  |
| Li Yang              | Poster       | ise150251 | Terephthalate Functionalized Conducting Redox Polymers: Organic Anode Materials for Energy Storage  |
| Xiaodong Yang        | Oral         | ise151258 | Liquid Fuel Cells with Polymer Fiber Membrane and Non-precious Metal Catalysts  |
| Yavuz Yardým         | Poster       | ise150187 | Using Graphene-Nafion Composite Film Modified Glassy Carbon Electrode for the Simultaneous Determination of Paracetamol, Aspirin and Caffeine in Pharmaceutical Formulations  |
| Yavuz Yardým         | Poster       | ise150188 | Square-Wave Adsorptive Stripping Voltammetric Determination of Resveratrol Using Boron-Doped Diamond Electrode in the Presence of Hexadecyl Trimethyl Ammonium Bromide  |
| Tomoyuki Yasukawa    | Oral         | ise150769 | Negative dielectrophoretic separation of cells based on the expression of specific surface antigen  |
| Eiichi Yasumoto      | Invited Oral | ise150247 | Evolution of "ENE-FARM" and the Activities for the Market Expansion in Panasonic  |
| Masafumi Yasuno      | Poster       | ise151768 | Development of Air Electrode Material Comprising Nano-oxide on Ni for MH/Air Secondary Battery  |
| Mikito Yasuzawa      | Poster       | ise152067 | Fabrication of Low Invasive Glucose Sensor for Continuous Glucose Monitoring  |
| shuehlin yau         | Invited Oral | ise150657 | In situ Scanning Tunneling Microscopy Imaging Self-Assembled Monolayers of Mercaptoacetic Acid and Cupric Ion on Au(111) Electrode  |
| Abdulcabbar Yavuz    | Oral         | ise152008 | Ion Exchange Optimization of Polyaniline Films in Deep Eutectic Solvents for Supercapacitor Application   |
| Shen Ye              | Oral         | ise151715 | In-situ Study of Oxygen Reduction in DMSO Solution  |
| Ke Ye                | Poster       | ise150209 | Pulsed Electrodeposition of Au Nanodendrites Supported on C@TiO <sub>2</sub> Nanoarrays and Their High Electrocatalytic Performance for H <sub>2</sub> O <sub>2</sub> Reduction   |
| Ke Ye                | Poster       | ise150409 | Three-dimensional Nickel Film Electrodeposited on Porous Carbon Sponge: High Catalytic Performance and Low-cost Anode for Urea Electro-oxidation in Alkaline Medium   |
| Min-Hsin Yeh         | Oral         | ise151949 | Motion-driven Electrochromic Reactions for Self-powered Smart Window System   |
| Yu-Lin Yeh           | Poster       | ise151448 | A Theoretical Investigation of Surface-enhanced Sum-Frequency Generation  |
| Nan Hung Yeh         | Poster       | ise150963 | Next generation of Self Terminated Oligomer Branched Architecture (STOBA) in Li-rich (Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> ) high capacity cathode material of lithium ion battery  |
| Chen-Yu Yeh          | Invited Oral | ise152152 | Recent Progress of Porphyrin-Sensitized Solar Cells   |
| Min-Hsin Yeh         | Poster       | ise151317 | Integrated Bundle Structure of Rolling Free Standing Triboelectric Nanogenerators and its Applications in Self-powered Copper Collecting Electrochemical system via Harvesting Hydropower   |
| Yu-Beom Yeon         | Poster       | ise151406 | Electrodeposition of Copper, Indium, Gallium and Selenium on Molybdenum Investigated by Voltammetry, X-Ray Diffraction, and Scanning Electron Microscopy/Energy Dispersive Spectroscopy   |
| Huseyin Bekir Yildiz | Poster       | ise150889 | Photoelectrochemical Biosensing Approach For Alcohol Determination By "Wiring" of Alcohol Oxidase Photonically With P(SNS-NH <sub>2</sub> )/AOx/CNT/[Ru(bpy) <sub>3</sub> ] <sup>2+</sup> Modified Electrodes   |
| Huseyin Bekir Yildiz | Poster       | ise150886 | Enzyme Immobilization In Biosensor Constructions: Self-Assembled Monolayers Of Calixarenes Containing Thiols  |
| Lu-Hsiang Yin        | Poster       | ise152312 | An Electrochromic Copolymer with One-dimensional Nanowire Arrays  |
| Yinghui Yin          | Poster       | ise152143 | Multiparadigm Simulation of Electrochemical Energy Devices: the Fuel Cell Membrane Degradation  |
| Yinghui Yin          | Oral         | ise152032 | Boosting Lithium Air Batteries from a Multiscale Modeling Approach  |
| Yu-Tung Yin          | Poster       | ise151293 | Impedance Spectroscopic Analysis of Organic-Inorganic Hybrid Perovskite Solar Cell under Different Architectures  |
| Zheng-Zhi Yin        | Poster       | ise150614 | A novel electrochemical sensor of tartrazine based on the composite of molecularly imprinted polydopamine/PtCo alloy-graphene   |
| Hiromi Yoda          | Poster       | ise151056 | Application of GroEL Complexes as Nano-sized Cargo  |
| sun yongrong         | Oral         | ise152160 | Boron, Nitrogen co-doped graphene supporting platinum nanoparticles as a superior catalyst towards the methanol electrooxidation  |
| Chung-Yul Yoo        | Poster       | ise150237 | Solid State Ammonia Synthesis – Present State and Perspective   |

|                        |              |           |  |
|------------------------|--------------|-----------|--|
| Hiromu Yoshida         | Poster       | ise151332 | Fundamental Studies on Electrochemical Oxidative Properties of a Gold Nanoparticle-Attached Palladium Electrode  |
| Sachio Yoshihara       | Poster       | ise150619 | Application of Amorphous Alloy Plating to Various Industrial Fields.   |
| Nobuko Yoshimoto       | Poster       | ise150263 | Synthesis and Electrochemical Analysis of Electrodeposited MnO <sub>2</sub> /C Composite Electrode for Supercapacitors   |
| Aishui Yu              | Poster       | ise150166 | Three-Dimensional Activated Porous Carbon /Sulfur Composites as Cathode Materials for Lithium-Sulfur Batteries   |
| Wonjong Yu             | Oral         | ise151681 | Sputtering of low Pt loading bi-layer cathode for low-temperature solid oxide fuel cells   |
| Jingxian Yu            | Oral         | ise150063 | Tunable Peptide-Based Molecular Wires: Experimental Evidence and Theoretical Insights  |
| Jong-Sung Yu           | Keynote      | ise150466 | Heteroatom-Doped Porous Carbon as Electrocatalyst: Surface Properties and Electrocatalytic Activity  |
| Hua-Zhong (Hogan) Yu   | Oral         | ise150917 | Designed DNA Nano-Switches as Sensitive Electrochemical Biosensors   |
| Ping Yu                | Oral         | ise150415 | Imidazolium-Based Supramolecular Ionic Material and Its Application in Biosensing and Electronic Device  |
| Hsin Fu Yu             | Poster       | ise152282 | A High Contrast Complementary Electrochromic Device with Sub-second Response Time  |
| Minghao Yu             | Poster       | ise150087 | Stretchable Carbon Nanotube Film Macroscopically Synthesized via a Water Surface Assisted Method for High-Performance Supercapacitors  |
| sawaguchi yuki         | Poster       | ise151323 | Polarization for a toluene hydrogenation electrolyzer with various concentration of toluene feed   |
| Min YuLin              | Poster       | ise150374 | Simple approach to construct novel MOF/polyaniline composites and their electrical specific capacitance  |
| Ewelina Zabost         | Poster       | ise151913 | Multicomponent hydrogel/aptamer-based nanofibers and nanoparticles for storing and release of intercalators and genetic material   |
| Claudio Zafferoni      | Oral         | ise151547 | Bimetallic catalysts and metal-free catalysts for ORR  |
| Claudio Zafferoni      | Poster       | ise151641 | Synthesis and characterization of metal sulfides for solar devices   |
| K. Zaghib              | Keynote      | ise153287 | New Lithium Metal Polymer Solid State Battery for an Ultrahigh Energy: Nano C-LiFePO <sub>4</sub> versus Nano Li <sub>1.2</sub> V <sub>3</sub> O <sub>8</sub>  |
| Dejin Zang             | Oral         | ise151520 | Porphyrin-Polyoxometalates@Pt Modified Electrodes for Electrocatalytic Hydrogen Evolution Reaction   |
| Hamid Reza Zare        | Poster       | ise150732 | L-DOPA Modified Carbon Nanotubes as a Bifunctional Electrocatalyst for Simultaneous Determination of Ascorbic Acid, Adrenaline, Acetaminophen and Tyrosine   |
| Hamid Reza Zare        | Poster       | ise150731 | Preparation, Electrochemical Characterization and Application of Graphene Nanosheet/Silver Nanoparticles Modified Electrode for Simultaneous Electrocatalytic Determination of L-Cysteine, Ascorbic Acid and Uric Acid |
| Piotr Zelenay          | Keynote      | ise152035 | Non-Precious Metal Catalysts for Oxygen Reduction: Accomplishments and Challenges  |
| Christian Zelger       | Poster       | ise150864 | Rota-Hull Cell Study on Pulse Charging of Zinc/Air Redox Flow Batteries  |
| Jyh-Myng Zen           | Invited Oral | ise152056 | An Easily Applicable Green Method for Real Sample Analysis Based on Disposable Gas Sensor  |
| Rong Zeng              | Poster       | ise150648 | Nitrogen Doped Graphene Prepared by Microwave Heating for Oxygen Reduction Reaction in Fuel Cell   |
| Zi fan Zeng            | Poster       | ise150310 | Ni(OH) <sub>2</sub> Nanowires with High Performance as Supercapacitor Electrode via Cathodic Electrodeposition   |
| Chengchu Zeng          | Poster       | ise150206 | Electrochemically Induced Friedel-Crafts Arylation of Chalcone Epoxides and Enamides by Organic Redox Mediators  |
| Wei-Yang Zeng          | Oral         | ise151453 | Using Graphene as a Conducting Layer and Barrier Layer for high aspect ratio Through Silicon Via Filling   |
| Aleksandar Zeradjanin  | Oral         | ise150496 | What triggers hydrogen evolution? Electrocatalysis beyond Sabatier principle   |
| Dongping Zhan          | Oral         | ise150556 | Autocatalytic Effect Enhanced Photochemical Conversion   |
| Xuan Zhang             | Poster       | ise151251 | Improving the Electrocatalytic Activity of Binary Alloy Cu <sub>x</sub> Pd <sub>y</sub> for Methanol Oxidation Reaction by Tailoring Chemical Composition  |
| Chengxiao Zhang        | Oral         | ise151658 | Electrogenerated Chemiluminescence Bioanalytic System Based on Bio-cleavage of Probes and Homogeneous Detection  |
| Qibo Zhang             | Poster       | ise150512 | Multicyclic electrochemical fabrication of nanoporous nickel films in ChCl-Urea deep eutectic solvent  |
| Qibo Zhang             | Poster       | ise150513 | Electrochemically tunable synthesis of cuprous chloride nanocubes in choline chloride-urea deep eutectic solvent   |
| Jie Zhang              | Invited Oral | ise150748 | Determination of Fast Electrode Kinetics Using Fourier Transformed Large Amplitude AC Voltammetry  |
| Jinqiu Zhang           | Oral         | ise151058 | Electrodeposition Process of Ni-Ga Bimetallic Catalyst in BMIm-OTf Ionic Liquid Electrolyte  |
| Xuan Zhang             | Poster       | ise151843 | The new process of electrolytic refining of crude lead in a novel electrolyte  |
| Leiting Zhang          | Oral         | ise151908 | Impact of Relative Humidity on Sulfate-based Cathode Materials   |
| Ludan Zhang            | Poster       | ise150164 | Carbon-coated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Nanocomposite as a Novel High Rate Cathode Material for Aqueous Sodium Ion Batteries  |
| Qinghong Zhang         | Oral         | ise151364 | Some Chemical Routes to Form Compact Films of Dye-sensitized Solar Cells   |
| Wenjing (Angela) Zhang | Oral         | ise151504 | Electrospun Nanofiber Catalysts for Green Technology   |
| xiaogang Zhang         | Poster       | ise151164 | Insights into the Absorption Mechanism of Carbon Nanotube Paper-Titanium Dioxide as a Multifunctional Barrier for Lithium-Sulfur Batteries   |
| Junliang Zhang         | Invited Oral | ise152259 | A Study towards Low Pt loading PEM Fuel Cells – from Catalyst Design to Oxygen Transport in the Cathode  |
| Nan Zhang              | Poster       | ise151024 | Rutile TiO <sub>2</sub> Nanosheet Arrays on Thermally Oxidized TiO <sub>2</sub> Blocking Layer for Enhancing Efficiency of Perovskite Solar Cells  |
| Xinsheng Zhang         | Poster       | ise152226 | The effect of surface functional groups of carbon nanofiber on oxygen reduction reaction   |
| Jinbao Zhang           | Oral         | ise150195 | In-situ Photoelectrochemical Polymerization Approach For Efficient Solid-state Dye Sensitized Solar Cells  |
| Jiaolong Zhang         | Poster       | ise151151 | Sodium storage capability of spinel Li <sub>4</sub> Mn <sub>5</sub> O <sub>12</sub>  |
| Wenli Zhang            | Poster       | ise151276 | Mechanisms of Activated Carbon in Lead-Carbon Battery  |
| Qianyu Zhang           | Poster       | ise151167 | W <sub>6</sub> +Br-codoped Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Anodes with Super Rate Performance  |
| Xinsheng Zhang         | Poster       | ise152225 | Action Mechanism of Quaternary Ammonium Compound in the Electroreduction of Oxalic Acid to Glyoxylic Acid  |
| Nan Zhang              | Poster       | ise151273 | Rutile TiO <sub>2</sub> Nanosheet Arrays on Thermally Oxidized TiO <sub>2</sub> Blocking Layer for Enhancing Efficiency of Perovskite Solar Cells  |
| Jianbo Zhang           | Invited Oral | ise150447 | Characterizing Interfacial and Bulk Phase Processes in LIB Using EIS   |
| Jun Zhang              | Oral         | ise150821 | Hierarchically assembled mesoporous carbon nanosheets with ultra large pore volume for high performance Li-S batteries   |

|                  |              |           |   |
|------------------|--------------|-----------|---|
| Xianfa Zhang     | Poster       | ise151488 | Enhanced electrochemical performance of monodisperse V2O5 hierarchical hollow spheres as cathode for Li-ion battery   |
| Feng Zhao        | Invited Oral | ise153286 | The Function of Extracellular Electron Transfer in Pollutant Selected Conversion  |
| Yaping Zhao      | Poster       | ise151454 | Pulse Electropolymerization Synthesis of Polypyrrole Layers on Multiwalled Carbon Nanotubes coated Cotton Fabrics   |
| Chuan Zhao       | Oral         | ise150774 | Three Dimensional Precious Metal Free Electrocatalysts for Water Splitting  |
| Yaping Zhao      | Poster       | ise151426 | Electromagnetic Shielding Polyamide Fabrics prepared by Electroless Ni Plating with Chitosan-Nickel Complexes Activation  |
| Liwei Zhao       | Oral         | ise151272 | A comparison of the thermal stability of electrolytes for Li- and Na-ion batteries  |
| Chuan Zhao       | Poster       | ise151252 | Oxygen Reduction Reactions in Ionic Liquids-Based Mixture Electrolytes for High Performance Rechargeable Li-O2 Batteries  |
| bo zhao          | Poster       | ise150270 | Influence of Crevice Thickness to Corrosion Behavior of API X80 Steel under Disbonded Coating in Acid Soil Environment  |
| Yongli Zheng     | Poster       | ise151445 | The Degradation of Oxygen Reduction Activity at Stepped Platinum Surfaces in Acidic Media   |
| Yongli Zheng     | Poster       | ise151625 | Oxygen reduction reaction on Au@Pt nanoparticles and Au(100) electrode  |
| Wu Zhi           | Poster       | ise150161 | Bi2S3 Nanoparticle Modified TiO2 Nanotube Arrays for High Efficiency of Photoelectrochemical Hydrogen Production  |
| Jinfang Zhi      | Poster       | ise150836 | Development of a Multi-species Microbial Biosensor for Joint Toxicity Assessment of Wastewater  |
| haoxiang zhong   | Poster       | ise151277 | Carboxymethyl Chitosan/Poly(ethylene oxide) as a Water Soluble Blend Binder for 5 V LiNi0.5Mn1.5O4 Cathodes with Improved Cycle Stability in Li-Ion Batteries   |
| Ming Zhou        | Poster       | ise150757 | RuO2 nanoparticles loaded well-defined iron-nitrogen doped mesoporous core-shell carbon spheres as an effective cathode for rechargeable lithium-oxygen battery |
| Hui Zhou         | Poster       | ise151324 | Stabilizing the Cycle Performance of Layered LiMnO2   |
| Minghua Zhou     | Invited Oral | ise151593 | Flow-through Electrochemical Cells for Efficient Dye Removal  |
| Zhi-You Zhou     | Oral         | ise151315 | Electrooxidation mechanism of NH3 on Pt by in situ FTIR reflection spectroscopy   |
| Ming Zhou        | Oral         | ise150754 | Highly Active and Stable Iron-nitrogen-doped Carbon with Hollow-core-mesoporous-shell (HCMS) Structure for Oxygen Reduction Reaction                            |
| Xiao-Shun Zhou   | Poster       | ise150634 | Single-molecule conductance measured by electrochemical method: Effect of anchoring group and electrode   |
| Yongchun Zhu     | Poster       | ise150189 | Amperometric bromide biosensor based on graphite powder composite electrode modified with leaf paste of natural amarant induced by spaying KBr aqueous solution |
| Lin Zhuang       | Keynote      | ise151035 | Alkaline polymer electrolyte fuel cells: materials and catalysis  |
| Shouzhong Zou    | Poster       | ise151036 | Concave PtNi Nano-Octahedra as High Performance Catalysts for Oxygen Reduction Reaction   |
| Mingzhong Zou    | Poster       | ise152151 | Suppression of degradation of lithium ion batteries for LiFePO4@C batteries by nano Si surface modification   |
| Qingli Zou       | Oral         | ise151564 | Influence of Electrolyte on Sulfur Redox Reactions: Combined RRDE and in situ UV-VIS Studies  |
| Marketa Zukalova | Oral         | ise150667 | Sol-gel TiO2 blocking layers for dye-sensitized and perovskite solar cells: Electrochemical properties and electrochemical doping                               |