

POSTER SESSIONS

Two Poster sessions are held on area P of Site A "Padua Fiera".

Session 1 (S1): Monday 19th June from 18:20 to 20:00

Session 2 (S2): Thursday 22nd June from 18:20 to 20:00

MACRO AREA 1: IONICS IN ENERGY AND ENVIRONMENT

I-1 – BEYOND LITHIUM BATTERIES: IONIC TRANSPORT IN POST-LI SYSTEMS (S1)

19th JUNE

Code	Presenter	Title	Session 1: 19 th June
I-1_1/P	Elena Arroyo-de Dompablo	Investigation of olivine MgMSiO ₄ (M = Fe, Mn) and related materials as cathode for Mg batteries	
I-1_2/P	Jae-Kwang Kim	Ceramic composite gel polymer electrolyte for LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ -Li ₂ Ti ₅ O ₂ lithium polymer batteries	
I-1_3/P	Ting Hei Wan	A First Principle Study of the Defect Energies, Ion Transport and Doping Strategy for Highly Ionic Conductive Sodium Antiperovskite as Solid Electrolyte for Sodium Ion Batteries	
I-1_4/P	Yuyu Li	Research of Al doped P2-type Na ₂ Zn ₂ TeO ₆ sodium conductor	
I-1_5/P	Stanislav Fedotov	Reversible alkali ion de/intercalation in KTP-type KVPO ₄ F	
I-1_6/P	Katsuro Hayashi	Na-Ambient Air Cells with Aqueous Catholyte and NASICON Ceramics-Protected Anode	
I-1_7/P	Yugal Kishor Mahipal	Investigations of ionic liquid based polymer electrolyte membranes for enhanced performances on solid state supercapacitor	
I-1_8/P	Yulia Mateyshina	The effect of nature of additives on the transport properties of cesium nitrite	
I-1_9/P	Claudio Gerbaldi	Innovative and Functional Electrode/Electrolyte Materials for Green and Safe Post-Lithium Batteries	
I-1_10/P	Ji Heon Ryu	Magnesium Stannide as the Solid-state Redox-mediator for Magnesium Metal Negative Electrode	
I-1_11/P	Andrea La Monaca	Electrolyte influence on Li surface modification	
I-1_12/P	Julia Amici	Study of transition metal phthalocyanines as ORR catalysts for Li-O ₂ cells and their interactions with different binders	
I-1_13/P	Usman Zubair	Mildly reduced Graphene Oxide aerogels as promising host material for Li-S batteries	
I-1_14/P	Younki Lee	Anisotropic ionic transport on a zirconia-reinforced Na-β"-alumina composite thick film	
I-1_15/P	Younki Lee	The effect of YSZ contents on the kinetics of vapor phase conversion for Na-β"-alumina/YSZ electrolytes	
I-1_16/P	Osamu Yamamoto	Aqueous lithium-MCl ₂ (M=Co and Ni) rechargeable batteries	
I-1_17/P	Martin Philipp	Charge carrier transport in nanocrystalline Na ₂ O ₂ and Li ₂ O ₂	
I-1_18/P	Valentina Dall'Asta	Bio-inspired choline-chloride-based Deep Eutectic Solvents (DES) as electrolytes for electrochemical devices	
I-1_19/P	Biswajit Mandal	Structural Suitability of NASICON type Na ₃ Fe ₂ (PO ₄) ₃ for Storage Device Application	

I-2 – ADVANCED LITHIUM AND SODIUM BATTERY ELECTRODE MATERIALS (S2)

22nd JUNE

Code	Presenter	Title	Session 2: 22 nd June
I-2_1/P	Yunxia Liu	Sb ₂ O ₃ -modified Li ₄ Ti ₅ O ₁₂ material with improved electrochemical property	
I-2_2/P	Jaein Lee	Hetero-layer Solid State Electrolyte of Thermal Batteries for Reducing Self-discharge	
I-2_3/P	Danuta Olszewska	Application of carbon from saccharose in Li-ion cells - a comparison of battery properties with different carbon content, containing modified nickel and copper lithium-titanium oxide Li ₄ Ti ₅ O ₁₂	
I-2_4/P	Qing Xia	Growth of ultrathin MoS ₂ nanosheets on hard carbon microtubes for high performance lithium ion battery anode	
I-2_5/P	Kwang Bum Kim	Chemically Bonded NaTi ₂ (PO ₄) ₃ /rGO Microsphere Composite as High-Rate Insertion Anode for Sodium Ion Capacitor	
I-2_6/P	Hanxing Liu	Effect of lithium content on first irreversible capacity loss of layered Li _{1.14} La _{0.02} Ni _{0.3} Mn _{0.6} O ₂ cathode materials for lithium ion batteries	
I-2_7/P	Zhiyong Yu	Effect of Carbon Coating on the Electrochemical Performance of Li ₂ MoO ₃ Cathode Materials for Lithium Ion Batteries	
I-2_8/P	Danuta Olszewska	New trends in modification of anode lithium cells anode	
I-2_9/P	Janina Molenda	Nano-grained NaFePO ₄ Obtained via Chemical Deintercalation of LiFePO ₄	
I-2_10/P	Janina Molenda	Fabrication and Electrochemical Properties of Hybrid Cathode Materials Based on xLi ₂ MnO ₃ (1-x)LiMO ₂ for Li-ion Batteries	
I-2_11/P	Janina Molenda	Structural, Electrical and Electrochemical Properties of New High-voltage Na _{0.67} Ni _{0.33} Mn _{0.67-y} Ti _y O _{2-δ} (0 ≤ y ≤ 0.33) Cathode Material	

To be continued

Code	Presenter	Title	Continued
			Session 2: 22 nd June
I-2_12/P	Janina Molenda	Structural, Transport, Electrochemical Properties and Electronic Structure of the $\text{Li}_x\text{Ni}_{1-y-z}\text{Co}_y\text{Mn}_z\text{O}_2$ Cathode Material	
I-2_13/P	Janina Molenda	The Ability of Manganese Spinel to Intercalate Different Alkaline Metal Ions (Li, Na)	
I-2_14/P	Baster Dominika	A New Cathode Material $\text{LiNi}_{0.6}\text{Co}_{0.5}\text{Ti}_{0.1}\text{O}_2$ for Li-ion Batteries	
I-2_15/P	Baster Dominika	Comprehensive Studies of $\text{Na}_{0.7}\text{Fe}_{0.5}\text{Mn}_{0.5}\text{O}_2$ - Cathode Material for Sodium-ion Batteries	
I-2_16/P	Wioleta Ślubowska	Synthesis and characterization of LiVPO_4F prepared by the microwave radiation heating	
I-2_17/P	Niv Aloni	Composite Silicon and SiNi-Alloy Anodes on Carbon-Fiber Scaffold	
I-2_18/P	Janina Molenda	$\text{Na}_3\text{Fe}_y\text{Co}_{1-y}\text{O}_2$ layered oxides as positive electrode for Na-ion batteries	
I-2_19/P	Janina Molenda	Layered Transition Metal Oxides $\text{NaFe}_y(\text{Ni}_{0.5}\text{Mn}_{0.5})_{1-y}\text{O}_2$ As Cathode Materials For Na-ion Batteries	
I-2_20/P	Lee Gi-Hyeok	Reduced Graphene Oxide-Encapsulated Phosphorus-Carbon Composite as a Promising Anode Material for High-Performance Sodium-Ion Batteries	
I-2_21/P	Adjei Agyeman Daniel	Carbon-Coated Si Nanoparticles Anchored between Reduced Graphene Oxides as an Extremely Reversible Anode Material for High Energy-Density Li-Ion Battery	
I-2_22/P	Yang Junghoon	Novel approaches to synthesize sodium manganese oxide with P- and O- type mixed phases: a study on the natural formation of sodium carbonate and its activation method	
I-2_23/P	Doretta Capsoni	Silicon doped $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ as high-voltage cathode for Li-ion batteries	
I-2_24/P	Xiang Li	Al Doping Effects on LiCrTiO_4 as an Anode for Lithium-ion Batteries	
I-2_25/P	Yonghong Deng	Lignin-Derived Nitrogen Doped Carbon Nanospheres as Anode Materials for Lithium-Ion Batteries	
I-2_26/P	Savitha Thayumanasundaram	Electrochemical Characterization of $\text{Li}_2\text{FeSiO}_4$ synthesized by polyol method	
I-2_27/P	Jun Ho Song	Degradation Behavior of Ni-rich Cathode Materials due to Continuous Particle Destruction with Micro-crack	
I-2_28/P	Tatsuya Nakamura	Electrochemical and Operand studies on $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ particles synthesized by two-step preparation process	
I-2_29/P	Elizaveta Evschik	Anode materials based on the nanostructured thin silicon films produced by laser electrodispersion method for lithium-ion batteries	
I-2_30/P	Michał Świątosławski	Electrochemical properties of K, Ni and S doped lithium manganese oxide spinel based materials	
I-2_31/P	Ji Heon Ryu	Macroporous Tin Thick Foil Negative Electrode via Chemical Etching for Li-ion Batteries	
I-2_32/P	Gen Hasegawa	Composition dependence of Li self-diffusion coefficient in Li_xCoO_2 thin films measured by secondary ion mass spectrometry	
I-2_33/P	Przemysław Michalski	Transference numbers measurements in nanocrystallized lithium-iron-borate glass	
I-2_34/P	Tomasz Pietrzak	Nanocrystallization of NASICON-like vanadium-phosphate glasses as potential materials for Na-ion batteries	
I-2_35/P	Daiki Maeda	Lithium Tracer Diffusion Coefficients in $\text{Li}_x\text{Mn}_2\text{O}_4$ thin films	
I-2_36/P	Mariasoletta Di Carli	Preliminary study of aqueous binders for lithium-sulfur batteries.	
I-2_37/P	XiangXin Guo	Design Strategies of Carbon-supported Electrode Materials for High Performance Li- and Na-ion Battery	
I-2_38/P	Bakierska Monika	Carbon nanostructures derived from naturally abundant plant polymer, exhibiting high performance in Li-ion batteries	
I-2_39/P	Britta Teßmer	Preparation and characterization of a composite cathode for all solid-state batteries	
I-2_40/P	Kim Jongjung	A Comparative Study on Thermal Properties of Solid Electrolyte Interphase (SEI) Derived by imide-based salt on SiO Negative Electrode	
I-2_41/P	Zhaoyin Wen	A modified separator with polar sulfonated reduced graphite oxide for lithium-sulfur battery	
I-2_42/P	Zhaoyin Wen	Role of Cu^{2+} on the performance of $\text{Cu}_x\text{Co}_{3-x}\text{O}_4$ as cathode a catalyst for air electrode of rechargeable Li- O_2 battery	
I-2_43/P	Rajendra Kumar Singh	Ionic liquid EMIMTFSI based on gel polymer electrolyte for flexible lithium battery application	
I-2_44/P	Rajendra Kumar Singh	Polymer electrolyte membranes based on Ionic Liquid BMITFSI for Na-ion Battery application	
I-2_45/P	Olga Bushkova	"Blocking Effect" as a Limiting Factor of Lithium Intercalation into Titanium Dichalcogenides and Ways to Overcome	
I-2_46/P	Marcin Molenda	Effect of doping on structural stability of lithium-manganese oxide spinel	
I-2_47/P	Świder Joanna	Temperature effect on electrochemical performance of carbon-nanocoated LiFePO_4	
I-2_48/P	Puteh Melor Wesma Salehen	Optimization the Charge-Discharge Characteristics of LiNiCoMnO_2 - Graphene Monolayer for High - Energy Density Lithium - Ion Batteries	
I-2_49/P	Prümägi Priit	Tuning of carbon xerogel for Na-ion battery anode	
I-2_50/P	Kazuto Koganei	Analysis of Discharge/Charge mechanism of VS_4 positive electrode material	
I-2_51/P	Hironori Kobayashi	Investigation on Electrochemical Properties and Degradation Mechanism of the LIB Composed of SiO/C -Composite Negative Electrode and Li Excess Mn-Based Positive Electrode	
I-2_52/P	Michał Świątosławski	Influence of lithium-manganese spinel doping on its stability towards liquid electrolyte	

To be continued

Code	Presenter	Title	Continued Session 2: 22 nd June
I-2_53/P	Gai Yang	Synthesis and performance of $\text{LiFe}_{0.7}\text{Mn}_{0.3}\text{PO}_4/\text{C}$ cathode material for lithium-ion batteries based on controlled crystallization method	
I-2_54/P	Bo Wang	Optimization of Synthetic Conditions of $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ Cathode Materials for High Energy Density Lithium Batteries	
I-2_55/P	Patrick Posch	Hydrothermally synthesized sodium titanates as anode materials for sodium-ion batteries	
I-2_56/P	Flaminia Rondino	Cu catalized CVD of SiNWs for lithium-ion batteries	
I-2_57/P	S Jayalekshmi	PEDOT-PSS-CNT/Sulfur Composite Cathode for Lithium-Sulfur Batteries	
I-2_58/P	Zhaoxiang Wang	Oxidation and Reduction of Li_2CO_3 and Their Applications in Secondary Lithium Batteries	
I-2_59/P	Yan Yu	Carbon-based hybrid materials for high performance Na-ion batteries	
I-2_60/P	Svetoslava Vankova	Silicates as high capacity cathode materials for advanced lithium ion batteries	
I-2_61/P	Alessandro Palmieri	Composite Metal Oxide/Nanocarbon Materials as High Performance Anodes for Next-Generation Automotive Li-Ion Batteries	
I-2_62/P	Mauro Pasquali	Spinning Disk Reactor technique for the synthesis of nanometric TiO_2 sulfur core-shell powder for lithium batteries	
I-2_63/P	Monika Bakierska	Enhancing the lithium ion diffusivity in $\text{LiMn}_2\text{O}_{4-y}\text{S}_y$ cathode materials through potassium doping	

I-3 – ALL SOLID-STATE BATTERIES (S2)**22th JUNE**

Code	Presenter	Title Title	Session 2: 22 nd June
I-3_1/P	Xin Guo	Garnet-type ionic conductors for all-solid-state lithium ion batteries	
I-3_2/P	Lu Wei	High-Performance Solid-State Supercapacitors Wholly from Brown Algae	
I-3_3/P	Jinli Qiao	The CS/EMImC-Co-EP/GO membrane as electrolyte and the hollow $\text{Co}_3\text{O}_4/\text{MnO}_2$ -CNTs as Bifunctional Catalytic for Flexible Rechargeable Zn-Air Batteries with outstanding performance	
I-3_4/P	Yongcheng Jin	Preparation and characterization of NASICON-type conducting electrolyte obtained using a new solution method	
I-3_5/P	Markus Kubicek	Oxygen Vacancies in Fast Ion Conducting Lithium-Garnets	
I-3_6/P	Mitsuharu Tabuchi	Synthesis of “soft” sulfide-based solid electrolytes	
I-3_7/P	Nobuya Machida	A Synthesis of $\text{Li}_7\text{P}_3\text{S}_{11}$ Solid Electrolytes Using Ethereal Solvents	
I-3_8/P	Konrad Kwatek	Studies on ionic conductivity of $\text{LiTi}_2(\text{PO}_4)_3$ and $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ composites with addition of $[\text{BMIM}][\text{BF}_4]$ formed under different pressure	
I-3_9/P	Konrad Kwatek	Solid electrolyte Li^+ conductor composites formed in the system of $\text{LiTi}_2(\text{PO}_4)_3$ -LiF	
I-3_10/P	Misae Otoyama	Optical Microscopic Observation of Graphite Composite Negative Electrodes in All-Solid-State Lithium Batteries	
I-3_11/P	Pan MengYing	Preparation and evaluation of FeS_x - Li_3PS_4 -VGCF composite positive electrodes and their application to all-solid-state lithium batteries	
I-3_12/P	Kenji Nagao	Mechanochemical synthesis of amorphous LiCoO_2 - Li_2SO_4 positive electrode active materials and their application to all-oxide solid-state batteries	
I-3_13/P	Ting Hei Wan	Thermodynamically Consistent Modeling of All Solid Lithium Ion Battery	
I-3_14/P	So Yubuchi	Argyrodite-Type $\text{Li}_6\text{PS}_5\text{Br}$ Superionic Conductor Synthesized through Tetrahydrofuran-Ethanol Solution	
I-3_15/P	Fumika Tsuji	Preparation of sodium ion conductive $\text{Na}_{40}\text{GeP}_2\text{S}_{12}$ glass-ceramic electrolytes	
I-3_16/P	Atsutaka Kato	XPS Structure Analysis of the $\text{Li}/\text{Li}_3\text{PS}_4$ Interface in All-Solid-State Lithium Batteries	
I-3_17/P	Hirofumi Tsukasaki	Direct observation of a non-crystalline state of Li_2S - P_2S_5 solid electrolytes	
I-3_18/P	Xiaohan Wu	Interfacial investigation of common lithium-ion battery electrode materials using a- Li_3PS_4 solid electrolyte	
I-3_19/P	Giulio Ferraresi	Alloy-based electrodes for all-solid-state Li-ion batteries based on garnet Ta-substituted $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ solid electrolyte	
I-3_20/P	Cynthia Martínez-Cisneros	Application of Powder Extrusion Moulding to manufacture tubular ceramic electrolytes based on sodium Beta- Al_2O_3	
I-3_21/P	Li-Zhen Fan	Composite polymer electrolytes using organic cage-type cucurbit[6]uril as additive for all-solid-state lithium metal batteries	
I-3_22/P	Ning Zhao	Garnet-based Composite Electrolyte for Flexible Solid-State Lithium Batteries	
I-3_23/P	Nobuyuki Zettsu	Flux Growth of Cubic- $\text{Li}_{46.75}\text{La}_5\text{Zr}_{1.75}\text{Nb}_{0.25}\text{O}_{12}$ Single Crystals with Controllable Crystal Habits and Characterization of Their Crystal Face-dependent Properties	
I-3_24/P	Jakub Zagorski	Polymer-ceramic composite electrolytes for all solid state Li metal batteries	
I-3_25/P	Sascha Harm	A new LGPS-type superionic conductor – synthesis and characterization of Li_7SiPS_8	
I-3_26/P	Yağmur Deniz	The Relationship Between Pre-sintering Powder Particle Size and Ionic Conductivity of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Solid Electrolytes for Li-ion Batteries	

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Session 2: 22nd June

Code	Presenter	Title
I-3_27/P	Nobuyuki Zettsu	Synthesis of TiN-coated $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Crystals/ Li_3BO_3 Glass Hybrid Electrodes and Their Electrochemical Characteristics
I-3_28/P	Nobuyuki Zettsu	Preparation of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Crystals/ Li_3BO_3 - Li_4SiO_4 - Li_3PO_4 Glass Hybrid Electrodes and Their Electrochemical Characteristics
I-3_29/P	Svetlana Novikova	Solid electrolytes $\text{Li}_{1+x}\text{Al}_x\text{Ge}_{2-x}(\text{PO}_4)_3$ ($x = 0.5, 0.6, 0.65$): synthesis and conductivity
I-3_30/P	Rajendra Kumar Singh	Temperature effect and electrochemical study of ionic liquid based polymer electrolyte with Li/LiFePO ₄ electrodes
I-3_31/P	Naoaki Kuwata	High-Rate Pulsed Laser Deposition for Thin-Film Solid-State Battery
I-3_32/P	Masanobu Chiku	Analysis of Lithium Alloy Negative Electrodes for All Solid State Secondary Battery using Electrochemical Impedance Spectroscopy
I-3_33/P	Masahiro Tatsumisago	Preparation and characterization of Li_3N - Li_2S - P_2S_5 glass and glass-ceramic solid electrolytes
I-3_34/P	Wolfgang Stein	Multi Process Thin Film Deposition and complex Sample Preparation Cycle under protected Atmosphere - a flexible Solution for Materials in Battery Research
I-3_35/P	Yoshiyuki Kowada	Theoretical Analysis of XPS and XANES of the LiNbO_3 film by the DV-X α method
I-3_36/P	Sung Hoo Jung	Surface-Modified Positive Electrode materials for All-Solid-State Lithium-Ion Batteries Using Sulfide Solid Electrolytes
I-3_37/P	Tsubasa Fujiwara	High Temperature Performance of Sulfur-VGCF- Li_3PS_4 Composites as a Positive Electrode for All-solid-state Batteries
I-3_38/P	Aiko Nakao	Surface Analysis for thin coating layer of $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ powder for All-Solid-State Lithium Secondary Batteries by XAFS and XPS
I-3_39/P	Jang Myoun Ko	Electrolytes with silica nanosalt for Li-ion battery and supercapacitor
I-3_40/P	Yoshiyuki Inaguma	Effect of Li Isotope on Phase Transition and Ionic Conductivity of NASICON-type Lithium Ion Conductors
I-3_41/P	Jong-Sook Lee	Ultimate Impedance Spectroscopy on Polycrystalline Solid Electrolytes: Application to Li-conducting Garnet $\text{Li}_7\text{La}_5\text{Zr}_2\text{O}_{12}$
I-3_42/P	Jong-Sook Lee	AC characteristics of solid lithium ion conductors $\text{Li}_x\text{La}_3\text{Ta}_2\text{O}_{12}$ ($x=4,5,6$) with garnet-type structure
I-3_43/P	Mari Yamamoto-Kiryu	Development of aliphatic polycarbonate binders suitable for binder-less sheet-type all-solid-state batteries
I-3_44/P	Keiichiro Ota	Microband Array Electrode Technique for Depth Profile Measurement of the Potential Distribution in the Positive Electrode for All-Solid-State Lithium-ion Batteries
I-3_45/P	Prasada Rao Rayavarapu	$\text{Li}_6\text{PS}_3\text{Br}:\text{LiTFSI}$ composite for all-solid-state lithium ion batteries
I-3_46/P	Masanari Takahashi	Development of Fabrication Process for Binder-less Sheet-type All-solid-state Batteries by the Slurry-coating Method
I-3_47/P	Akiko Tsurumaki	All-solid-state lithium batteries based on amorphous sulfide-based solid electrolytes
I-3_48/P	Annika Baumann	Preparation and Characterization of solid electrolyte thin films by Chemical Solution Deposition
I-3_49/P	A.K. Ola Hekselman	Effect of Pentavalent Substitution on the Structure and Ion Transport in Garnet-type $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Electrolytes
I-3_50/P	Bjorn Joos	Eliminating the ionic liquid from hybrid solid state electrolytes
I-3_51/P	Andriy Kvasha	Hybrid solid polymer electrolytes for 3V and 4V-class lithium metal polymer batteries
I-3_52/P	Isabel Hanghofer	Synthesis and Ionic Conduction of $\text{LiZr}_2(\text{PO}_4)_3$
I-3_53/P	Jong-Sook Lee	Sodium disorder induced polymorphic transitions in NASICON-type materials for energy applications
I-3_54/P	Francesco Ciucci	Structural origin of the superionic Na conduction in $\text{Na}_2\text{B}_{10}\text{H}_{10}$ closo-borates and enhanced conductivity by Na deficiency for high performance solid electrolytes
I-3_55/P	Rajendra Kumar Singh	Development of ionic liquid mediated Nano-composite polymer gel electrolyte membranes (NPGEMs) based on polymer PVdF-HFP, BMIMTFSI ionic liquid, Li-salt and SiO_2 nanoparticles for rechargeable battery application

I-4 – IONICS IN “OPEN” BATTERIES (REDOX FLOW BATTERIES) (S1)

19th JUNE

Code	Presenter	Title
I-4_1/P	Anna Chiara Tizzoni	Components Optimization for Quinone-Bromide Redox Flow Battery
I-4_2/P	Kyeongmin Oh	Numerical study on water management in hydrogen bromine redox flow battery
I-4_3/P	Kyeongmin Oh	Investigation of vanadium ion crossover through the membrane in all-vanadium redox flow batteries
I-4_4/P	Catia Arbizzani	Strategies to enhance cyclability in Li/O ₂ battery
I-4_5/P	Faiza Summer	Development and Optimization of Flow Electrode Capacitor
I-4_6/P	Chuan-yu Sun	Nafion-WO ₃ and SPEEK-WO ₃ hybrid membranes for Vanadium Redox Flow Batteries

I-5 – POLYMER ELECTROLYTE IONOMERS: ADVANCES IN CATION- AND ANION-EXCHANGE MEMBRANES AND ION CONDUCTION**(S2)****22nd JUNE**

Code	Presenter	Title	Session 2: 22 nd June
I-5_1/P	Ruslan Kayumov	Influence of DMSO Content on Transport Properties of Nafion	
I-5_2/P	Evgeny Sanginov	Composite Proton Exchange Membranes Based on Nafion and Sulfonated Polystyrene	
I-5_3/P	Ivan Vito Ferrari	Synthesis of Precursor for Electropolymerized Ion Conducting Polymers for Electrochemical Devices	
I-5_4/P	Anna Donnadio	Functionalized cerium oxide nanoparticles as radical scavengers for perfluorosulfonic acid ionomers	
I-5_5/P	Elisabetta Troni	Crystallites' formation in Sulfonated Poly-Ether-Ether-Ketone membranes: preparation and characterization	
I-5_6/P	Roberto D'Amato	Composite membranes based on SPEEK and zirconium phosphate phenylphosphonates with improved dimensional stability	

I-6 – HIGH-TEMPERATURE PROTON-CONDUCTING POLYMER MEMBRANES (S2)**22nd JUNE**

Code	Presenter	Title	Session 2: 22 nd June
I-6_1/P	Takahiro Ichikawa	Design of Bicontinuous Cubic Liquid Crystals and Their Application to Switchable Proton Conductors	
I-6_2/P	Einars Sprugis	Characterisation of various sulphonated poly(ether ether ketone) composite membranes containing imidazolium dialkylphosphate class ionic liquids	

I-7 – “POLYMER ELECTROLYTES” - THE UBIQUITY OF IONS AND POLYMER MATERIALS IN DEVICES) (S1)**19th JUNE**

Code	Presenter	Title	Session 1: 19 th June
I-7_1/P	Takahito Itoh	Poly(2,2-dimethoxytrimethylene carbonate)-Based Solid Polymer Electrolyte and Its Application to Polymer Battery	
I-7_2/P	Kwang Man Kim	Effect of Polymer-Alkaline Electrolytes on the Electrochemical Properties of Activated Carbon Supercapacitor	
I-7_3/P	Jumi Kim	Effect of $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ on the composite Polymer Gel Electrolytes Consisting of PVdF-HFP and Hydroxypropylcellulose	
I-7_4/P	Yoichi Tominaga	Structural effects on dielectric relaxation behavior of polycarbonate-based electrolytes	
I-7_5/P	Sayan Das	Enhanced capacitance of Electrical Double Layer Capacitor prepared using a PVDF-HFP/BMIMBF ₄ solid polymer electrolyte doped with TiO ₂ Nano particle	
I-7_6/P	Takahiro Ichikawa	Development of Molecular-Design Principles for Amphiphilic Zwitterions Forming Gyroid Structures	
I-7_7/P	Heng Zhang	Stable cycling of lithium metal electrode in nanocomposite solid polymer electrolytes with lithium bis(fluorosulfonyl)imide	
I-7_8/P	Cynthia Martinez-Cisneros	Preparation and characterization of crossed-linked polymer electrolytes for sodium batteries	
I-7_9/P	Judith Cardoso	Design of three biopolymer electrolytes using an ionic liquid	
I-7_10/P	Francisco de Paula Martín Jimenez	Transparent solid-state electrolytes to be used in supercapacitor and photo-supercapacitor devices	
I-7_11/P	Maurizio Furlani	Infrared spectroscopy analysis of alkaline salt based gel polymer electrolytes	
I-7_12/P	Mariano Grünebaum	Triazine-based lithium and sodium ion conducting polyelectrolytes produced and tailored by thermal polymerization of nitrile-containing conducting salts	
I-7_13/P	Anna Gerlitz	Investigation of lithium ion conducting salts and their performance in carbonate-based gel-polymer electrolytes	
I-7_14/P	Marisa Falco	Polymer Electrolytes for Durable Lithium Batteries operating in a Wide Temperature Range	
I-7_15/P	Barbora Galajdová	Ionic Liquids Mixed with Polymer Matrix as Promising Electrolyte for Advanced Lithium Battery	
I-7_16/P	Rajendra Kumar Singh	Characterization of gel polymer electrolytes containing 1-ethyl-3-methylimidazolium bis(fluorosulfonyl)imide ionic liquid for lithium battery application	
I-7_17/P	Nicolas Goujon	High Conductivity Solid Polymer Electrolytes Based On Pyrrolidinium Poly(ionic liquid) Ion Gels	
I-7_18/P	Rakesh Agrawal	Ionic transport behavior and material properties studies on K ⁺ -Conducting Nano Composite Polymer Electrolytes as a result of Nano-ionic Effect	
I-7_19/P	Daisuke Fukuma	Synthesis and Evaluation of Magnesium Secondary Battery Electrolyte (VI) -Effect of Zwitterion on Mg Conductivity	
I-7_20/P	Karol Pożyczka	Values of lithium transference number in lithium borate salts and poly(ethylene oxide) electrolytes measured via electrochemical methods	
I-7_21/P	Guzmán Gregorio	The activation energy for lithium transport on Single Ion polymer electrolytes based on polyborates	
I-7_22/P	Jungdon Suk	Semi-interpenetrating solid polymer electrolyte based on thiol-ene cross-linker for all-solid-state lithium batteries	

To be continued

Continued

Session 1: 19th June

Code	Presenter	Title
I-7_23/P	Mijeong Han	Polyimides containing amino-quinone to improve the electrochemical performances on tin-based anode in lithium ion batteries
I-7_24/P	Rajiv Kumar	Effect of Al ₂ O ₃ filler on ionic conductivity, viscosity and thermal behavior of PEO based nano-composite polymer gel electrolytes
I-7_25/P	Sheida Hosseinioun	Investigation of PMMA Gel Electrolytes for Li-ion Battery
I-7_26/P	Laura Imholt	Nanochannels for Lithium Ions Formed by Supramolecular Self-assembly of PEO and Oligosaccharides
I-7_27/P	Dale Teeters	Nanophase Separation and Nanoimprinting of Polymer Electrolyte Films Using Hydrocarbon Templates
I-7_28/P	Marco Castriota	Effect of the host electrolyte on the absorbance of electrochromic devices obtained by in situ polymerization of EDOT
I-7_29/P	Filipe Figueiredo	Red seaweed-derived electrolytes for electrochemical devices

I-8 – CERAMIC PROTON AND HYDRIDE ION CONDUCTORS (S1)**19th JUNE**

Code	Presenter	Title	Session 1: 19 th June
I-8_1/P	Kavitha K.	K doped Ba ₄ Ca ₂ Nb ₂ O ₁₁ complex perovskite solid electrolyte for intermediate temperature (IT) SOFCs	
I-8_2/P	Bhupendra Singh	Ionic Conductivity in Tetravalent Metal Pyrophosphate-Alkali Metal Carbonate Composites in Intermediate Temperature Range	
I-8_3/P	Natalia Tarasova	Local structure and hydration processes of fluorine-substituted Ba _{2-0.5x} CaNbO _{5.5-x} F _x double perovskite	
I-8_4/P	Dmitry Medvedev	Isovalent doping impact on the functional properties of LaNbO ₄	
I-8_5/P	Julia Lyagaeva	The effect of Y by Yb substitution in BaCe _{0.5} Zr _{0.3} Y _{0.2} O _{3-δ} on its structure and transport properties	
I-8_6/P	Donglin Han	Diffusion of Transition Elements from Anodes and Cathodes into Proton Conductive BaZr _{0.8} Y _{0.2} O _{3-δ} Electrolyte	
I-8_7/P	Donglin Han	La ₂ (Nb _{1-x} Y _x) ₂ O _{7-δ} : A New Fluorite Structure-Based Ionic Conductor	
I-8_8/P	Rotraut Merkle	First principles calculations of perovskite cathode materials for protonic ceramic fuel cells	
I-8_9/P	Alexander Kolchugin	Co-containing electrodes for intermediate proton ceramic fuel cells	
I-8_10/P	Alexander Kolchugin	Co-free electrodes based on layered nickelate for intermediate proton ceramic fuel cells	
I-8_11/P	Ekaterina Antonova	Electrode kinetics in the systems with LaScO ₃ - based proton conducting oxide under DC bias	
I-8_12/P	Andrei Farlenkov	Special Aspects of Hydrogen Uptake in Proton-Conducting Oxides: La _{1-x} Sr _x ScO _{3-δ} in Comparison with BaZr _{1-y} Y _y O _{3-δ}	
I-8_13/P	Tarasova Natalia	The influence of nature of the anionic substituents on concentration and mobility of protons in perovskite-related systems based on barium-calcium niobate Ba ₂ CaNbO _{5.5}	
I-8_14/P	Anastasios Vourros	Electrocatalytic CO ₂ Reduction to Syn-Fuels in a Proton Conducting Solid Oxide Cell	
I-8_15/P	A.V. Shlyakhtina	Study of Ho _{0.4} Zr _{0.6} MoO _{12.5} mixed conductor during thermal cycling by neutron diffraction and impedance spectroscopy	
I-8_16/P	Genki Kobayashi	Synthesis of new H ⁻ conductor Ba ₂ LiH ₃ O	
I-8_17/P	Fabian Draber	A Kinetic Monte Carlo study of proton conductivity in doped BaZrO ₃ inspired by first principles calculations	
I-8_18/P	Tarasova Natalia	Thermal and electrical properties of composites based on Ba ₂ In ₂ O ₅ with 20-30 mol% Ba ₂ InMO ₆ (M=Nb, Ta)	
I-8_19/P	Haruyuki Takahashi	Proton conduction mechanism in intermediate-temperature protonic conductors, phosphate-based composites	
I-8_20/P	Kenta Hoshino	Probing Oxygen Vacancies Responsible for BaZr _{0.8} Sc _{0.2} O _{3-δ} Hydration by In-situ X-ray Absorption Spectroscopy	
I-8_21/P	Jong Hoon Joo	Effect of Y doping on defect relation and electrical properties of Fe-doped BaZrO ₃	
I-8_22/P	Kacper Dzierzgowski	Synthesis and properties of (Ce, La)NbO ₄ compounds	
I-8_23/P	Tarjei Bondevik	Space charge layers in interfaces of BZY investigated by advanced microscopy, theoretical calculations, and electrical measurements	
I-8_24/P	Piotr Winiarz	Structural and electrical properties of acceptor doped Y ₃ NbO ₇	
I-8_25/P	Tomohiro Ishiyama	Proton transport property of phosphate glass fabricated by alkali-proton substitution	
I-8_26/P	Ivan Ivanov	Crystal structure, oxygen nonstoichiometry and conductivity BaZr _{0.9} Me _{0.1} O _{3-d} (Me=Nd,Pr,Y)	
I-8_27/P	Tzouliana Kraia	Electrochemical characterization of Co ₃ O ₄ /CeO ₂ mixed oxide electrode in a proton conducting solid oxide symmetrical cell	
I-8_28/P	Elena Rebollo	BaCe _{0.65} Zr _{0.20} Y _{0.15} O _{3-δ} -Ce _{0.85} Mo _{0.15} O _{2-δ} (M: Y, Gd) ceramic membranes under syn-gas atmospheres	
I-8_29/P	Laura Rioja-Monllor	Novel exsolution method for processing composite cathodes for Protonic Ceramic Fuel Cells	
I-8_30/P	Yuichi Mikami	Effect of dopants of BaZr _{1-x} M _x O _{3-δ} on the reactivities with NiO	

To be continued

Code	Presenter	Title	Continued Session 1: 19 th June
I-8_31/P	Tomohiro Kuroha	Development of Proton Conducting Fuel cell	
I-8_32/P	Chiharu Kura	Hydrogen permeation by non-stoichiometric titanium and hafnium nitride membranes with unprecedented hydride ion conductivity	
I-8_33/P	Takahisa Omata	Proton carrier injection into $\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$ by electrochemical alkali-proton substitution at high temperature	
I-8_34/P	Laura Mazzei	Structure and proton conductivity of thin films of In-doped BaZrO_3	
I-8_35/P	Maria Gazda	Vibrational Properties of Doped Lanthanum Niobates	
I-8_36/P	Junichiro Otomo	Material and cell design for proton-conducting solid oxide fuel cells using lanthanum tungstate with high La/W ratio	
I-8_37/P	Jong-Sook Lee	New type of universal dielectric response evidenced in lanthanum orthoniobate proton conducting ceramics	
I-8_38/P	Naoki Hamao	Synthesis and Protonic Conductive Properties of Garnet type $\text{H}_x\text{Li}_{6.5-x}\text{La}_3\text{Zr}_{1.5}\text{Ta}_{0.5}\text{O}_{12}$	
I-8_39/P	Arthur Bourdon	Potential and Impedance Simulation in Multispecies Conductors for Protonic Ceramic Fuel Cells: a Transmission Line-based Approach	
I-8_40/P	Yasuhiro Takamura	Novel Functionality of Proton Conducting Perovskites Type Oxides Utilizing Nanoionics Effect	
I-8_41/P	Jose Manuel Serra	Sintering and Hydration Properties of $\text{BaZr}_{0.8}\text{Y}_{0.20-x}\text{Mn}_x\text{O}_{3-\delta}$ ($x=0.02, 0.05, 0.10$) Proton Conductor	
I-8_42/P	Seikh M Habibur Rahman	Synthesis, thermal and electrical characterization of doped hexagonal BaTiO_3	
I-8_73/P	Mateusz Tarach	Structural and transport properties of novel proton-conducting materials $\text{Nd}_{1-x}\text{Ln}_x\text{BaInO}_4$ ($\text{Ln} = \text{Sm}, \text{Pr}$)	

I-9 – SOLID OXIDE FUEL CELLS AND ELECTROLYZERS (S2)**22nd JUNE**

Code	Presenter	Title	Session 2: 22 nd June
I-9_1/P	Lyudmyla Stackpool	Synthesis, crystal structure and conductivity of solid solutions based on $\text{Nd}_5\text{Mo}_5\text{O}_{16+\delta}$ and $\text{Pb}_{10}(\text{SiO}_4)_2(\text{VO}_4)_4$ structures	
I-9_2/P	Nikolaos Kaklidis	The combined impact of carbon type and catalyst-aided gasification process on the performance of a Direct Carbon Fuel Cell	
I-9_3/P	Pilar Padilla	New SOFC members of Co/Fe based $\text{A}_{n+1}\text{B}_n\text{O}_{3n+1}$ homologous series	
I-9_4/P	Edith Bucher	Electrochemical characterization of the long-term stability of SOFC-cathodes infiltrated with $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$	
I-9_5/P	Nikolaj Danilov	The functional properties of Zn- and Fe-doped $\text{YBaCo}_4\text{O}_{7+\delta}$ materials as air electrodes of solid oxide electrochemical devices	
I-9_6/P	Liubov Skutina	The influence of SrMoO_4 modifier on the thermal and electrical properties of $\text{SrMg}_{1-x}\text{Ni}_x\text{MoO}_{6-\delta}$ in oxidizing and reducing atmospheres	
I-9_7/P	Tobias Huber	How to Avoid Ill-Defined Overpotentials in Electrochemical Measurements	
I-9_8/P	Xiaomei Liu	$\text{Ni}_{1-x}\text{Fe}_x\text{-SDC}$ Anodes for Intermediate Temperature solid Oxide Fuel Cell	
I-9_9/P	Denis Osinkin	Impregnated $\text{Sr}_2\text{Fe}_{1.5}\text{Mo}_{0.5}\text{O}_{6-\delta}$ composite as a promising electrode for quasi-symmetrical solid oxide fuel cells	
I-9_10/P	Tohru Yamamoto	Long-term Degradation Analysis of SOFC Performance	
I-9_11/P	Valentina Voronkova	Phase relation and unusual properties of layered Pb-containing La_2MoO_6 compounds	
I-9_12/P	Valentina Voronkova	Bi_2O_3 -based oxygen conductors in $\text{Bi}_2\text{O}_3\text{-Nd}_2\text{O}_3\text{-MoO}_3$ ternary system	
I-9_13/P	Denis Osinkin	Ca doped $\text{Sr}_{2-x}\text{MgMoO}_{6-\delta}$ as promising anode material for intermediate temperature solid oxide fuel cells	
I-9_14/P	Francesca Zurlo	Copper based electrodes for IT-SOFCs	
I-9_15/P	A. Nemudry	Development and research of new cathode materials based on BSCF perovskite for Solid Oxide Fuel Cells	
I-9_16/P	Hyung-Tae Lim	In-Situ Contact Resistance Measurement in SOFC Using an Additional Voltage Probe	
I-9_17/P	Elena Pikalova	Electrophoretic deposition of single and two-layered thin electrolyte films on the La_2NiO_4 cathode support	
I-9_18/P	Hyung-Tae Lim	Investigation of Electronic Transport Property and Durability of BCY-BZY Electrolyte Cells Using Embedded Probes	
I-9_19/P	Elena Pikalova	Microstructure and electrical properties of composites based on $\text{Sr}_{0.9}\text{Pr}_{0.1}\text{Ti}_{0.5}\text{Fe}_{0.5}\text{O}_{3-\delta}$ and $\text{Ce}_{0.8}(\text{Sm}_{0.8}\text{Sr}_{0.2})_{0.2}\text{O}_{2-\delta}$	
I-9_20/P	Jun-Young Park	Accelerated degradation testing of solid oxide fuel cells under various current loads	
I-9_21/P	Wojciech Skubida	Composite Electrode Materials for Proton Ceramic Fuel Cells	
I-9_22/P	Alexander Kolchugin	Microstructure and electrochemical properties of air electrodes based on doped praseodymium nickelate	
I-9_23/P	Saurabh Singh	Yttrium Strontium Titanate Based Anode Materials for Intermediate Temperature Solid Oxide Fuel Cells	
I-9_24/P	Wenyi Tan	A potential strategy for regeneration of sulfur-deactivated anode in proton-conducting SOFC	
I-9_25/P	Nicoleta Cioateră	Investigation of stability and electrical properties of Ni-doped $\text{La}_4(\text{Ti}_2\text{O}_8)\text{O}_2$ cermet anode	

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Session 2: 22nd June

Code	Presenter	Title
I-9_26/P	Elena-Adriana Voinea	Effect of Al doping on structure, thermal behavior and electrical conductivity of Sm ₂ T ₂ O ₇ pyrochlore
I-9_27/P	Meina Chen	Effective property theory and multi-physics modeling of solid oxide fuel cell with nano-composite electrode
I-9_28/P	Reiichi Chiba	Properties of Pr _{2-x} Sr _x NiO _{4+δ} cathodes deposited on ceria interlayer with zirconia electrolyte
I-9_29/P	Pravin Kumar	Electrical conductivity of double perovskite based anode materials for SOFC application
I-9_30/P	Vasileios Kyriakou	Hydrogen Production in a Coal-Aided Solid Oxide Electrolysis Cell
I-9_31/P	Xiaomei Liu	Effect of Grain Size on the Electrical Properties of La _{0.9} Sr _{0.1} Ga _{0.8} Mg _{0.2} O _{2.85} Electrolyte
I-9_32/P	Qiang Li	Cobalt-free perovskite Bi _{0.5} Sr _{0.5} Fe _{0.9} Nb _{0.1} O _{3-δ} as a cathode material for intermediate temperature solid oxide fuel cells
I-9_33/P	Joon Hyung Shim	Thermal Stress Profiles in Re-Oxidized Anode Layers of Solid Oxide Fuel Cells
I-9_34/P	Haruo Kishimoto	Evidence of Altered Surface Behavior of Nickel Simultaneously Supported on YSZ and GDC
I-9_35/P	Sergey Bychkov	The study of oxygen exchange of MIEC oxides by OPFR method
I-9_36/P	Elena Pikalova	Validation of calcium-doped neodymium nickelates as SOFC oxygen electrode materials
I-9_37/P	Maria Morozova	Bismuth-containing composite materials
I-9_38/P	Maria Morozova	Synthesis and properties of new electrolyte material: Bi ₂₆ Mo _{10-2x} S _{2x} O _{34.5}
I-9_39/P	Lana-Simone Unger	Surface Activation of Y-doped and Undoped BSCF by Nanoscaled Layers
I-9_40/P	Dong Min Kim	Electrochemical Impedance Spectroscopy for the characterization of RF-Sputtered Gd-doped Ceria(GDC) Thin Film for Micro SOFC
I-9_41/P	Maria Morozova	BIMEVOX-based composites: synthesis, structure and properties
I-9_42/P	Chengjun Zhu	Fabrication and evaluation of Ce _{0.8} Sm _{0.2} O _{1.9} impregnated Ca ₃ Co ₄ O _{9-δ} composite cathode for intermediate-temperature solid oxide fuel cells
I-9_43/P	Francesca Drago	Performance and stability of asymmetric La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} membranes in the presence of CO ₂
I-9_44/P	Vladyslav Tezyk	Study of redox properties of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} oxygen electrode deposited on a CGO
I-9_45/P	Francesco Chiabrera	Revisiting classical superior ionic conducting materials for low temperature μSOFC
I-9_46/P	Haruo Kishimoto	Visualization of Potential Distribution in the YSZ Electrolyte under SOFC operation
I-9_47/P	Nikolay Lyskov	Electrochemical Properties of La-doped Pr ₂ CuO ₄ as Cathode Materials for Intermediate-Temperature Solid Oxide Fuel Cells
I-9_48/P	Florian Wankmüller	Understanding Performance Limits of Mixed Conducting (La,Sr)(Co,Fe)O _{3-δ} Air Electrodes
I-9_49/P	José Santiso	Study of oxygen surface exchange in epitaxial double perovskite GdBaCo ₂ O _{9+δ} thin film heterostructure by applying external bias
I-9_50/P	Raghvendra Pandey	Investigations of the Na _{0.5} Bi _{0.5} TiO ₃ (NBT) based Solid Electrolyte for Intermediate Temperature Solid Oxide Fuel Cells
I-9_51/P	Nadezhda Tsvetkova	Cation Diffusion in the Double Perovskites RBaCo ₂ O _{6-δ} (R = Gd, Pr)
I-9_52/P	Mohammad Hossein Paydar	Characterization of La _{0.5} Ca _{0.7} Fe _{0.7} Cr _{0.3} O _{3-δ} / BaZr _{0.1} Ce _{0.7} Y _{0.2} O _{3-δ} - Ce _{0.8} Sm _{0.2} O _{2-δ} composite air electrode for reversible solid oxide fuel cell applications
I-9_53/P	Mattia Saccoccio	Ba-segregation in doped BaFeO ₃ as a cathode for SOFC: effect of doping and surface modification
I-9_54/P	Aleksey Yaremchenko	p(O ₂)-T Stability Domain of Cubic Perovskite Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ}
I-9_55/P	Hui Zhao	Electrospinning Oxide Nanofibers as Cathodes for IT-SOFCs
I-9_56/P	Nikolaenko Irina	Stable doped BaCeO ₃ -based suspensions for the electrophoretic deposition of thin electrolyte films
I-9_57/P	Liubov Skutina	Investigation of double perovskites Sr ₂ Ni _{1-x} Mg _x MoO ₆ (x=0, 0.25) as anode materials for LaGaO ₃ -based solid-oxide fuel cell
I-9_58/P	Wojciech Wrobel	Ionic and electronic conductivity of composite BiYWO:LSM
I-9_59/P	Jong-Sook Lee	Five decades of AC characterization of zirconia solid electrolytes: What can we conclude?
I-9_60/P	Jong-Sook Lee	Electrical characterization of dual phase composites: LSCF vs. LSM in GDC matrix below and above percolation threshold
I-9_61/P	Albert Taracon, Alex Morata	Performance and degradation of fuel electrode supported Solid Oxide Cells fabricated by aqueous multilayered tape-casting
I-9_62/P	Mihkel Vestli	Influence of Exsolution Procedure on Performance of Ceramic SOFC Anodes Deposited Using Ultrasonic Spray Pyrolysis Method
I-9_63/P	David Mebane	Quantitative Interpretation of Impedance Spectroscopy Data with Bayesian Model-Based Analysis
I-9_64/P	Jakub Karczewski	Synthesis and properties of highly porous Sr _{0.96} Y _{0.04} Ti _{1-x} Nb _x O ₃
I-9_65/P	Jakub Karczewski	Structure and electrical properties of Ni-doped SrTiO ₃ novel SOEC cathode material
I-9_66/P	Beata Bochentyn	Structure and electrical properties of (Y,Sr)(Ti,Fe)O _{3-δ} materials in SOFC operating conditions
I-9_67/P	Beata Bochentyn	FTIR monitoring of biogas internal reforming process in Solid Oxide Fuel Cells
I-9_68/P	Gilles Gauthier	Synthesis and study of Nd _x M _{2-x} MnO _{4±δ} (M: Ca, Sr) as Symmetric SOFC electrode materials

To be continued

Code	Presenter	Title	Continued Session 2: 22 nd June
I-9_69/P	Gilles Gauthier	Stabilization of YMnO ₃ In Reducing Atmosphere For Use As Sofc Anode Material	
I-9_70/P	Mohammad Hossein Paydar	Electrical conductivity and electrochemical performance of (Nd _{0.9} La _{0.1}) ₂ Ni _{0.75} Cu _{0.25} -Sm _{0.2} Ce _{0.8} O _{1.9} composite as a candidate for using as SOFC cathode	
I-9_71/P	Yao Wang	Ni Decorated Sr ₂ Fe _{1.5} Mo _{0.5} O _{6-δ} -Ce _{0.8} Sm _{0.2} O _{1.9} Anode for Methane Assisted High Temperature Steam Electrolysis Process	
I-9_72/P	Elisabeth Djurado	High order Ruddlesden–Popper nickelates for solid oxide fuel cell cathodes	
I-9_73/P	Gilles Gauthier	Study of La ₄ BaCu _{5-x} Co _x O _{13±δ} material as potential cathode for IT-SOFC	

I-10 – MULTI-FUNCTIONAL OXIDE NANOMATERIALS: FROM DESIGN TO ADVANCED APPLICATIONS (S1)**19th JUNE**

Code	Presenter	Title	Session 1: 19 nd June
I-10_1/P	Mantas Sriubas	Initial powder's specific surface area influence on Sm doped ceria thin films properties	
I-10_2/P	Igor Luisetto	Nickel supported on doped ceria Ni-MeCeO _{2-δ} (Me = Zr ⁴⁺ , La ³⁺ , Sm ³⁺ , Al ³⁺) for the dry reforming of methane: the role of oxygen vacancies on catalytic activity	
I-10_3/P	Sunhye Yang	Improved electrochemical properties of electric double layer capacitors by nitrogen doped activated carbon	
I-10_4/P	Marcella Bini	Tuning the superparamagnetic behavior of ZnFe ₂ O ₄ nanoparticles: the role of Ca and Gd doping	
I-10_5/P	Yuqi Liu	CaMn _{1-x} Nb _x O _{3-δ} as an effective bifunctional catalyst for oxygen reduction reaction and oxygen evolution reaction	
I-10_6/P	Nursultan Kainbayev	Raman study of nanocrystalline doped ceria oxide thin films	
I-10_7/P	Te- Hua Fang	Annealing effect of properties of ZnO/Mo/ZnO structures for sensor	
I-10_8/P	Tripathi Alok Kumar	Quasi solid-state electrolytes based on Ionic liquid infiltrated mesoporous matrix for supercapacitor application	
I-10_9/P	Harish Parala	MOCVD grown TiO ₂ films for optical and photoelectrochemical applications	
I-10_10/P	Virginia Wilde	Electron Microscopy Studies of the Effect of B-Site Doping on Microstructure and Phase Constitution of BSCF	
I-10_11/P	Liping Sun	Non-enzymatic glucose sensors based on porous copper cubes	
I-10_12/P	Tihana Čizmar	Correlations between photocatalytic activity and Cu structure in Cu-modified TiO ₂ -SiO ₂	
I-10_13/P	Davide Barreca	Fabrication of tailored Fe ₂ O ₃ nanomaterials by Plasma-Enhanced Chemical Vapor Deposition	
I-10_14/P	Alberto Gasparotto	A Plasma-Assisted Chemical Vapor Deposition route to F-doped iron oxides on Al ₂ O ₃ (0001) single crystals	
I-10_15/P	Chiara Maccato	Supported Fe ₂ O ₃ -TiO ₂ nanosystems: fabrication, characterization and photocatalytic applications.	
I-10_16/P	Giorgio Carraro	Fe(dpm) ₃ as molecular precursor for low-temperature PECVD of Fe ₂ O ₃	
I-10_17/P	Ettore Fois	Molecular precursors for the chemical vapor deposition of metal-oxide nanomaterials: properties and behavior	
I-10_18/P	Jose Ramos-Barrado	Amorphous and Crystalline IGZO Thin Films obtained by Magnetron Sputtering	
I-10_19/P	Olena Pliekhova	Structural analysis of sunlight efficient Cu and Zr modified TiO ₂ photocatalyst	
I-10_20/P	Francesca Visentin	Exploitation of ALD potentiality for the realization of long-range ordered structures	
I-10_21/P	Dongwei Du	Synthesis of NiMoS ₄ and its application for high-performance supercapacitors	
I-10_22/P	Barbara Ballarin	AuNP-Decorated Fe ₃ O ₄ Nanoparticles as Recyclable Magnetic Catalyst	
I-10_23/P	Umberto Anselmi Tamburini	Heavy doped Sr,Ba niobate (SBN) materials: synthesis and Thermoelectric (TE) properties	
I-10_24/P	Tripathi Alok Kumar	Deposition and characterization of lead-free 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.5(Ba _{0.7} Ca _{0.3})TiO ₃ thin films obtained by a green sol-gel process	
I-10_25/P	Silvia Bodoardo	WO ₃ Nanorolls Self-Assembled as Thin Films by Hydrothermal Synthesis: a versatile material for electro-optical applications	
I-10_26/P	Haifa Hamrouni	The effects of different pollens on the morphology, microstructure and gas sensing properties of ZnO nanoparticles	
I-10_27/P	Tso-Fu Mark Chang	Micro-Mechanical Property Evaluation of Electroplated Au–Cu Alloys toward Applications in MEMS Accelerometers	
I-10_28/P	Tso-Fu Mark Chang	FEM Simulation on Structure Stability of Ti/Au Multi-Layered Cantilevers with Various Dimensions for Applications as Movable Structures in MEMS Devices	
I-10_29/P	Irina Nikolaenko	SiC-IC composites for application in radioelectronics	
I-10_30/P	Chun-Yi Chen	Electroplated Au-Based Materials with High Micro-mechanical Properties as MEMS Accelerometer Components	
I-10_31/P	Haifa Hamrouni	NO ₂ gas sensing properties of ZnO nanoparticles using sunflower pollen	
I-10_32/P	Imen Jaouali	Synthesis, characterization and gas sensing properties of Lanthanum ferrite (LaFeO ₃) nanoparticles	

I-11 – FUNCTIONAL METAL OXIDE INTERFACES IN EFFICIENT ELECTROCHEMICAL ENERGY CONVERSION, BIOMASS CONVERSION AND CHARGE STORAGE SYSTEMS (S2) **22nd JUNE**

Code	Presenter	Title	Session 2: 22 nd June
I-11_1/P	Fontaine Marie-Laure	Preparation of highly porous supports for mixed electron and ion conducting ceramic membranes	

I-12 – DEFECT CHEMISTRY, TRANSPORT AND REACTIVITY AT GAS/ELECTRODE INTERFACES (S1) **19th JUNE**

Code	Presenter	Title	Session 1: 19 th June
I-12_1/P	Geyu Lu	Improvement of NO ₂ sensing characteristic for mixed potential type gas sensor based on YSZ and Rh/Co ₃ V ₂ O ₈ sensing electrode	
I-12_2/P	Rotraut Merkle	Self-assembled La-Sr-Co-O composite PLD films: morphology, Sr distribution, and oxygen exchange activity	
I-12_3/P	Anna Niemczyk	Structure, Nonstoichiometry and Mixed Transport in Sr and Ba- Doped Cuprates LaCuO _{3-δ} and La ₂ CuO _{4+δ}	
I-12_4/P	Anna Olszewska	Correlation between Oxygen Stoichiometry, Structure and Transport Properties of Electrochemically-oxidized Co-site Substituted LnBaCo ₂ O _{5+δ}	
I-12_5/P	Konrad Świerczek	Applicability of Hexagonal RMnO _{3+δ} for Oxygen Storage in Thermal Swing Processes	
I-12_6/P	Zijia Zhang	Ln _{2-x} Ni _{1-y-z} Cu _y In _z O _{4+δ} (Ln - Selected Lanthanides) Oxides with Enhanced Mixed Ionic-Electronic Conductivity for Application as Ceramic Membranes	
I-12_7/P	Alexander Schmid	Partial pressure dependent current voltage characteristics of (La,Sr)FeO _{3-δ} investigated by three-electrode impedance spectroscopy	
I-12_8/P	Atsushi Mineshige	Fuel Cell Performance of Lanthanum Silicate Electrolyte Thin Films	
I-12_9/P	Sergey Bychkov	Relation between oxygen nonstoichiometry, thermodynamic properties and electronic structure of nonstoichiometric perovskite La _{0.6} Sr _{0.4} CoO _{3-δ}	
I-12_10/P	Alexey Suntsov	Oxygen Permeability and Electrochemical Behavior of Pr _{0.9} Y _{0.1} BaCo ₂ O _{6-δ}	
I-12_11/P	David Mueller	Probing the surface space charge layer of donor doped SrTiO ₃ by near ambient pressure XPS	
I-12_12/P	Ji Haeng Yu	Fabrication and characterization of LSCF-GDC dual-phase membrane	
I-12_13/P	Markus Kubicek	The Role of Humidity for Tracer and Electrochemical Oxygen Exchange Kinetics on Mixed Conducting Electrodes	
I-12_14/P	Anton Sednev	Defect structure of RBaCo ₂ O _{6-δ} (where R = Y or Ho) double perovskites	
I-12_15/P	Marzena Leszczynska	Defect structure and Conductivity in the double substituted bismuth oxide Bi _{2.8} Pb _{0.2} YbO _{5.9+δ}	
I-12_16/P	Andreas Nenning	Probing the of the surface chemistry and electrochemical stability window of SOFC anode materials by lab-based electrochemical XPS	
I-12_17/P	Alexey Markov	Thermal and Electrical Properties of Sr _{1-x} La _x Fe _{0.8} Mo _{0.2} O _{3-δ}	
I-12_18/P	Riyan Achmad Budiman	Investigation of Surface Oxygen Exchange Coefficient of Solid Oxide Fuel Cell Cathodes with Ionic Conducting Oxide Coating	
I-12_19/P	Anna Magrasó	Characterization of the surface exchange kinetics of Fe-doped CaTiO ₃ thin films by time resolved X-ray diffraction	
I-12_20/P	Kuan-Zong Fung	Structural Stability of Perovskite-based Oxygen Transport Membrane	
I-12_21/P	Pavlos Pandis	Enhanced oxygen permeability of La _{0.8} Sr _{0.2} Fe _x Mn _{1-x} O ₃ (x=0-1) membranes produced by nano-sized powders	

I-13 – ELECTRO-CHEMO-MECHANICAL COUPLING IN ENERGY STORAGE AND CONVERSION MATERIALS (S1) **19th JUNE**

Code	Presenter	Title	Session 1: 19 th June
I-13_1/P	Dmitry Medvedev	Gd-doped SrTi _{0.5} Fe _{0.5} O _{3-δ} mixed conducting materials: structural, thermal and electrical properties	
I-13_2/P	Marcin Malys	Electrical conductivity and dielectric relaxation in (Ce _{1-x} Gd _x) _{0.85} Pr _{0.15} O _{2-δ} studied by impedance spectroscopy	
I-13_3/P	Vladimir Sereda	Chemical expansion of SrFeO ₃	
I-13_4/P	Fumitada Iguchi	Chemical expansion control in rare-earth doped ceria by mechanical effects	

I-14 – ELECTROCATALYSIS AT THE ELECTRODE-SOLID ELECTROLYTE INTERFACE (S1)**19th JUNE**

Code	Presenter	Title	Session 1: 19 nd June
I-14_1/P	George-Octavian Buica	Pb(II) Ions Detection Using Poly(hexanoic acid-like) Films	
I-14_2/P	Li-Zhen Fan	Metal-Organic Framework Derived CoSe ₂ Microspheres as High-Performance Electrocatalysts for Oxygen Evolution Reaction	
I-14_3/P	Lorenzo Pezzolato	Fe-N-C synthesis by pyrrole polymerization over different carbons: the influence of heat treatment on the durability of DMFC	
I-14_4/P	Ji-Haeng Yu	LSM-based composite electrode For limit current amperometric gas sensor	
I-14_5/P	Yannick Herve Bang	Correlation between properties and ORR performance of low-loading graphene-based hierarchical nanostructured electrocatalysts in single PEMFCs	
I-14_6/P	Angeloclaudio Nale	Hierarchical graphene-supported PtNi _x , AuNi _x and FeSn _x “core-shell” carbon nitride electrocatalysts for the oxygen reduction reaction	

I-15 – PHOTOCHEMICAL AND PHOTOCATALYTIC ENERGY CONVERSION (S1)**19th JUNE**

Code	Presenter	Title	Session 1: 19 nd June
I-15_1/P	Gunars Bajars	Research of interfaces Ti/TiO ₂ nanotubes/WO ₃ on photocatalytic activity of hetero-system	
I-15_2/P	Simely Hernandez	BiVO ₄ nanostructured electrodes prepared by optimized electrodeposition method for sun-driven water oxidation	
I-15_3/P	Karima Ayeb	Zinc Oxide based catalysts for the photo-oxidation of 2-propanol in gas-solid regime	

I-17 – MESOSCOPIC SOLAR CELLS (S2)**22nd JUNE**

Code	Presenter	Title	Session 2: 22 nd June
I-17_1/P	Gee Yeong Kim	Ionic conduction in hybrid organic-inorganic lead halides perovskite with and without light	
I-17_2/P	Dong-Won Kang	Solution-processed Nickel Oxide Hole Transport Layer for Highly Efficient Perovskite-based Photovoltaics	
I-17_3/P	Jelena Popovic	Interfacial effects in solid-liquid glyme electrolytes for improved performance of DSSCs	
I-17_4/P	Carmen Cavallo	Synthesis and Characterization of Nb ₂ O ₅ Mesostructures with Tunable Morphology and Their Application in Dye-Sensitized Solar Cells	

MACRO-AREA II: IONICS IN COMMUNICATION AND ROBOTICS**II-1 – LOW-DIMENSIONAL IONIC AND MIXED IONIC/ELECTRONIC CONDUCTOR NANOSTRUCTURES (S2)****22nd JUNE**

Code	Presenter	Title	Session 2: 22 nd June
II-1_1/P	Bonjae Koo	Surface Sr segregation Behaviors in Strained Thin Films of Perovskite Oxides	

II-2 – REALIZATION OF NEW FUNCTIONAL OPTOELECTRONIC OXIDE BASED MATERIALS: EXPERIMENT AND THEORY (S2) 22nd JUNE

Code	Presenter	Title	Session 2: 22 nd June
II-2_1/P	Marina Muñoz-Castro	Novel optical actuators for silicon photonics	

II-3 – THE SCIENCE AND TECHNOLOGY OF 2D MATERIALS (S2) **22nd JUNE**

Code	Presenter	Title	Session 2: 22 nd June
II-3_1/P	Irina Nikolaenko	Method of Synthesis of Ultrafine Powders of Carbide Mixtures	
II-3_2/P	Fabio C. Fonseca	Synthesis and characterization of 2D layered gadolinium-doped cerium oxide nanomaterials	
II-3_3/P	Yulia Mateyshina	Influence of synthesis conditions on properties of mesoporous carbon-metal oxide nanocomposite obtained by precursor pyrolysis	
II-3_4/P	Anna-Katharina Hatz	Water-assisted Li-ion Conductivity in Thin Films of Restacked Li _{0.4} H _{0.4} [Sn _{0.8} Si _{1.6} O _{0.4}]-Nanosheets	

II-4 – IONICS OF MEMRISTOR/RESISTIVE SWITCHES (S2) **22nd JUNE**

Code	Presenter	Title	Session 2: 22 nd June
II-4_1/P	Sunho Kim	Oxygen Transport in Gd ₂ O ₃ for Memory Device Applications	
II-4_2/P	Alexandra von der Heiden	Influence of structure and stoichiometry on oxygen diffusion and conductivity in gallium oxide thin films	
II-4_3/P	Karol Frohlich	HfO _x - and TaO _x -based resistive switching structures for logic application	

MACRO-AREA III: IONICS IN COMMUNICATION AND ROBOTICS

III-1 – IONICS MEETS BIOSCIENCE (S1) **19th JUNE**

Code	Presenter	Title	Session 1: 19 th June
III-1_1/P	Korakot Sombatmankhong	Studies of Electrode Materials to Enhance Current Generation and COD Removal in Microbial Fuel Cells	
III-1_2/P	Hiroyuki Ohno	Construction of lipidic cubic matrix containing amino acid ionic liquids as solvents	
III-1_3/P	Nobuhumi Nakamura	One-pot electrochemical oxidation of cellulose	
III-1_4/P	Francesca Visentin	Bioactivity property of TiO ₂ MOCVD coatings on Ti substrates with different pristine morphology	
III-1_5/P	Hideki Hanabusa	Synthesis and Evaluation of Cellulose Derivatives in Ionic Liquids (V) - Effect of Anion Structure-	
III-1_6/P	Keigo Ishii	Synthesis and Evaluation of Cellulose Gels with Boronic Acid Derivatives (III) - Investigation of Synthesis Conditions with Alkali Organic Salts -	
III-1_7/P	Shiori Suzuki	Direct Transesterification of Biomass with Ionic Liquid Catalyst	
III-1_8/P	Hiroyuki Ohno	Effect of Cation Structure of Organic Onium Hydroxide Aqueous Solutions on the Dissolution of Klason Lignin	
III-1_9/P	Hiroyuki Ohno	Effect of oxidant addition on the dissolution of lignin in alkaline condition	
III-1_10/P	Hiroyuki Ohno	Temperature effects on heavy metal ion loading ability of ionic liquid-derived thermoresponsive polyelectrolyte hydrogels copolymerized with monomeric ligands	
III-1_11/P	Umberto Anselmi-Tamburini	Dependance of Ce(III)/Ce(IV) Ratio on Intracellular Localization in Ceria Nanoparticles Internalized by Human Cells	

III-2 - MATERIALS TO MODULATE IONIC TRANSPORT IN BIOLOGICAL SYSTEMS (S1) **19th JUNE**

Code	Presenter	Title	Session 1: 19 th June
III-2_1/P	Takashi Kawabata	Hydration and Proton Transport in Chitin and Chitosan	
III-2_2/P	Hitoki Semizo	Characteristics of Biofuel Cell using Enzyme Reaction	
III-2_3/P	Yolina Hubenova	Determination of new bacterial species on freshwater SMFC electrode surface	
III-2_4/P	Seung-Yun Lee	Effect of Preparation Methods on the Microstructure and Electrical Characteristics of Silver-Based Solid Electrolytes	

MACRO-AREA IV: GENERAL ASPECTS, FUNDAMENTALS AND THEORY IN ION-CONDUCTING MATERIALS

IV-1 – MODELLING AND SIMULATION OF ION-CONDUCTING MATERIALS (S1)

19th JUNE

Code	Presenter	Title	Session 1: 19 nd June
IV-1_1/P	Vitaly Sinitsyn	Why they are similar?	
IV-1_2/P	Konrad Świerczek	First Principles Calculations of Ionic Transport in doped $A_2BO_{4\pm\delta}$ Nickelates and Cuprates - Candidate Materials for MIEC-type Membranes	
IV-1_3/P	Steffen Grieshammer	Influence of defect interactions on the free energy of reduction of doped ceria	
IV-1_4/P	Osamu Kamishima	Velocity correlation between mobile Ag^+ ions in $Ag \beta$ -alumina by MD calculation	
IV-1_5/P	Pawel Ławniczak	The influence of hydrostatic pressure on first universality in superprotonic single crystal	
IV-1_6/P	Dmytro Bletskan	Investigation of electronic structure and chemical bonding of Cu_7GeS_5I superionic conductor	

IV-2 – ADVANCES IN HIGH SPATIAL RESOLUTION PROBING OF LOCAL HETEROGENEITIES IN ION-CONDUCTING MATERIALS (S1)

19th JUNE

Code	Presenter	Title	Session 1: 19 nd June
IV-2_1/P	Ester García-González	The Double Perovskite La_2LiNbO_6 : A New Humidity Sensor	
IV-2_2/P	Koji Shimizu	First Principles Study of Li Vacancy and Interstitial Formation at the Interfaces of γ - Li_3PO_4 /Metal Stacked System	
IV-2_3/P	Peter Crozier	Development of a Biasing Hot Stage for Nanoscale Characterization of Transport and Catalysis in Oxides with Transmission Electron Microscope	
IV-2_4/P	William Bowman	Elucidating the Grain Boundary Conductivity Distribution by Correlating Local Composition and Character	

IV-3 – INTERFACIAL PROCESSES AND NANOIONICS (S2)

22nd JUNE

Code	Presenter	Title	Session 2: 22 nd June
IV-3_1/P	Chia-Chin Chen	Thermodynamics and Kinetics of Storage at Abrupt Junctions	
IV-3_2/P	Stefanie Taibl	Fe-doped $SrTiO_3$ thin films: An approach to understand the origin of their changed electrochemical behaviour	
IV-3_3/P	Michael Weissmayer	Grain Boundary Decorated $SrTiO_3$	
IV-3_4/P	Dalius Petrulionis	Advanced four electrode impedance spectrometer for characterization of ionic conductors	
IV-3_5/P	Tobias Huber	Misfit Dislocations Accelerate Oxygen Ion Diffusion in $La_{0.8}Sr_{0.2}MnO_3$ Epitaxial Thin Films	
IV-3_6/P	Filipe Figueiredo	Heterogeneous Doping of Solid State Weak Electrolytes with Cerium Oxide	

IV-4 – POINT DEFECT CHEMISTRY OF OXIDE MATERIALS (S2)

22nd JUNE

Code	Presenter	Title	Session 2: 22 nd June
IV-4_1/P	Eugene Kotomin	First principles thermodynamics of oxygen vacancies in ultrathin perovskite films	
IV-4_2/P	Jianmin Shi	Optical Absorption and Electrical Conductivity of Ti-doped β - Ga_2O_3 Single Crystals	
IV-4_3/P	Yeong-Cheol Kim	Oxygen reduction reaction in $Ce_{0.75}Zr_{0.25}O_2$ solid solution using density functional theory	
IV-4_4/P	Irina Piir	Structure and electrical features of $Bi_2Mg_{0.5}Cu_{0.5}Nb_2O_9$ pyrochlore	
IV-4_5/P	Dmitry Malyskin	Defect Structure and Related Properties of $Gd_{1-x}La_xBaCo_2O_{6-\delta}$	
IV-4_6/P	Dmitry Tsvetkov	Defect Structure and Related Properties of $SrTi_{1-x}Fe_xO_{3-d}$ ($x=0.3-0.7$)	
IV-4_7/P	Boris Politov	Thermodynamic and transport properties of nickel-doped cobaltite $PrBaCo_2O_{6-\delta}$ with double perovskite structure	
IV-4_8/P	Nadezhda Tsvetkova	Thermodynamic Stability, Defect Structure and Related Properties of $YBaCo_{4-x}Zn_xO_{7+\delta}$ ($x=0-3$) Oxides	
IV-4_9/P	Konstantin Chesnokov	Transport Properties and Oxygen Non-Stoichiometry of $La_{0.5}Sr_{0.7}Fe_{1-x}V_xO_{3-\delta}$ Oxides	
IV-4_10/P	Yuval Elbaz	An ab-initio Study of Hydrogen Atom Diffusion in Metal-oxides for Energy Conversion	
IV-4_11/P	Annika Buchheit	Effect of co-doping of ceria with Gd and Pr at temperatures below 600 °C	
IV-4_12/P	Jakyu Chun	On the Kinetic Decomposition Voltage of Ternary Oxides	
IV-4_13	Pooja Panchmatia	Atomistic modelling of A_2BO_4 materials: H_2O and CO_2 incorporation	

IV-5 – TRANSPORT IN MORPHOLOGICALLY HETEROGENEOUS POROUS MEDIA: ADVANCING CHARACTERIZATION FROM IN-SITU TO IN-OPERANDO (S1) **19th JUNE**

Code	Presenter	Title	Session 1: 19 th June
IV-5_1/P	Natalia Porotnikova	Oxygen surface exchange kinetics of $\text{Pr}_{1.74}\text{Sr}_{0.26}\text{Ni}_{0.75}\text{Co}_{0.25}\text{O}_{4\pm\delta}$	
IV-5_2/P	Maxim Vlasov	Electrochemical and optical properties of Sr-doped LaScO_3 under dry H_2 and D_2 atmospheres	
IV-5_3/P	Evgeny Tropin	Surface defect chemistry and oxygen exchange kinetics in $\text{La}_{2-x}\text{Ca}_x\text{NiO}_{4\pm\delta}$	
IV-5_4/P	Judith Cardoso	Hyper-crosslinked resin and its interaction with Cr (VI)	

IV-6 – SYNCHROTRON AND NEUTRON TECHNIQUES FOR THE STUDY OF ION-CONDUCTING MATERIALS (S1) **19th JUNE**

Code	Presenter	Title	Session 1: 19 th June
IV-6_1/P	Teruyoshi Awano	Millimeter Wave Spectroscopy and Molecular Dynamics Simulation of Ionic Liquids	
IV-6_2/P	Atsushi Mineshige	Preparation of Lanthanum Silicate Electrolyte with High Conductivity and High Chemical Stability	

IV-7 – NUCLEAR MAGNETIC RESONANCE IN SOLID STATE IONICS (S2) **22nd JUNE**

Code	Presenter	Title	Session 2: 22 nd June
IV-7_1/P	Tatiana Zinkevich	Na^+ Ion Mobility in $\text{Na}_{3.4}\text{Sc}_2(\text{SiO}_4)_{0.4}(\text{PO}_4)_x$ investigated by ^{23}Na NMR Spectroscopy	
IV-7_2/P	Heike Stöfler	Structural Characterisation and Li-Ion Dynamics in $\text{Li}_7\text{La}_5\text{Zr}_2\text{O}_{12}$	
IV-7_3/P	Chiara Ferrara	Structural investigation of $\text{Li}_2(\text{Fe}/\text{Mn})\text{SiO}_4$: a combined NMR–XRD study	
IV-7_4/P	Ruslan Kayumov	Water States in Dopped Nafion®115 at Subzero Temperatures	
IV-7_5/P	Sarah Lunghammer	Lithium Ion Hopping in Channel-Structured $\text{Li}_{2(+x)}\text{Ti}_3\text{O}_7$	