		Monday, October 3, 2022
	7:00 a.m 9:00 a.m.	Breakfast
	7100 411111 3100 411111	Sunhill Dining Room - 2nd floor
Lectures Gran	d Event Room - 1st floor	
	9:00 a.m 9:30 a.m.	Understanding Fluid Structure and Properties for Energy Storage Electrolytes: Deep Eutectic Solvents and Microemulsions
	3100 411111 3100 411111	Robert Savinell - Case Western Reserve
Session Chair:	9:30 a.m 10:00 a.m.	Correlating Structure to Performance in Polymer Electrolytes with Neutron Scattering Mark Dadmun - The University of Tennessee
Steve Greenbaum	10:00 10:15	Deep Eutectic Based Solvents as Electrolytes for Lithium-Ion Batteries
	10:00 a.m 10:15 a.m.	Ramez Elgammal - The University of Tennessee
	10:15 a.m 10:30 a.m.	Elucidating the Electrochemical Stability of Polymer Electrolytes
	10:30 a.m 11:00 a.m.	Guiomar Hernandez - Uppsala University Networking Break
		Charge-Transfer Complexes for electrolyte in solid-state lithium batteries
	11:00 a.m 11:15 a.m.	Noëline Tessier - CEA Grenoble Center
Session Chair: Daniel Brandell	11:15 a.m 11:30 a.m.	Star Block copolymer based on Poly(styrene-co-benzyl methacrylate)-b-Poly (ethylene glycol) methyl ether acrylate as solid polyelectrolytes for Lithium-ion batteries
Daniel Brandell		Kingsley Aniagbaoso - Universite de Pau et des Pays de l'Adour Poly(ethylene carbonate/ethylene oxide) Random Copolymer Electrolytes and Their Composites
	11:30 a.m 12:00 p.m.	Yoichi Taminaga - Tokyo University of Agriculture and Technology
	12:00 p.m 1:00 p.m.	Lunch Break
	12.00 p.m. 1.00 p.m.	Sunhill Dining Room - 2nd floor
	1:00 p.m 1:15 p.m.	The Rise of Polymers as an Essential Component of Solid-State Batteries Sipei Li - Ionic Materials
		Siper Li- round, waterials A Stochastic Electrolyzer Catalyst Generation Method for Pore Network Modelling
Session Chair:	1:15 p.m 1:30 p.m	Tess Seip - University of Toronto
Ramez Elgammal	1:30 p.m 1:45 p.m.	Role of intra-domain heterogeneity on ion and polymer dynamics in block polymer electrolytes
		Nicolas Pietro - Virginia Tech
	1:45 p.m 2:15 p.m.	Teaching an Old Dog New Tricks: New Developments in Polybenzimidazole (PBI) Membranes Ben Howard - University of South Carolina
	2:15 p.m 2:45 p.m.	Networking Break
	2:45 p.m 3:00 p.m.	Tailoring flow field channel aspect ratio for efficient mass transport and compression in fuel cells
		Harsharaj Parmar - University of Toronto H+ Conductivity of Nafion Thin film at Quartz, Carbon, and Platinum Substrate in N2 environment
	3:00 p.m 3:15 p.m.	Rahul Bhardwai - Japan Advanced Institute of Science and Technology
	2.45 2.20	Analysis of the ionic transport anisotropy in solid polymer electrolytes
Session Chair:	3:15 p.m 3:30 p.m.	Didier Devaux - University of Grenoble Alpes, University of Savoie Mont Blanc
Jürgen Giffin	3:30 p.m 3:45 p.m.	Polymer Coating of NCM to Improve the Cycling Stability in Solid-State Batteries
		Bing-Xuan Shi - Justus Liebig University Giessen Carbon free loading silicon anode with using electrolyte of graphene oxide aerogel foam for solid state lithium silicon batteries
	3:45 p.m 4:00 p.m.	Abrar Khan - Beijing University
	4:00 p.m 4:15 p.m.	Performances enhancing additives in fluorinated based polymers for all-solid-state lithium batteries
		Chris Magras - Université de Pau et des Pays de l'Adour
	4:15 p.m 5:00 p.m.	Networking Break
Poster Sessi	ON Grand Event Room - 1	lst floor
	5:00 p.m 7:00 p.m.	Cheap and easily processable polymer-based electrolytes for sustainable sodium-ion batteries
		Giuseppina Meligrana - Politecnico di Torino Interface studies of anode-less lithium batteries using photoelectron spectroscopy and in-situ lithium deposition
		inter race studies or anoue-ress infinition better its using protocerection spectroscopy and in-situ infinition deposition. Edvin K. W. Andersson - Uppsala University
		Lithium Salt Catalyzed Crosslinked Solid PolymerElectrolyte with high Conductivity and Enhancing Anode Interfacial Compatibility for Li-ion Battery
		Whangi Kim - Konkuk University
		Lithium salt catalyzed episulfide ring opening polymer electrolyte for Li ion Batteries
		Hohyoun Jang - Konkuk University
		Densification of Lithium Metal via Particle Brush Artificial SEI Interpreted by X-ray Computed Tomography Lara L. Dienemann - Tufts University
		Land L December 1- logs of measurements in the land of the suitability of polymer host materials for solid-state anode-less lithium batteries
		D. A. Friesen - Uppsala University
		Optimization of solid polymer electrolytes for anode-free Li-ion batteries
		Luca Bertoli - Uppsala University & Polytechnic University of Milan Degradation control of all-solid-state Na batteries by inorganic oxide coated positive electrode active material
		Degradation control of all-solid-state ha patteries by inorganic oxide coated positive electrode active material

Degradation control of all-solid-state Na batteries by inorganic oxide coated positive electrode active material Takaaki Ichikawa - Kogakuin University

Effects of Molecular Structure of PEO-Based Solid Polymer Electrolytes for Ionic Conduction Behavior

Investigation of High Ionic Conductive Polymer-Glass Ceramic Composite Electrolytes and Application for All-Solid-State Batteries

7:00 p.m. - 9:00 p.m.

Yui Otake - Kogakuin University

Yamato Kanai - Kogakuin University

Dinner

Studio 10 and 11 - 1st floor

Tuesday, October 4, 2022				
7:00 a.m 9:00 a.m.		Breakfast		
		Sunhill Dining Room - 2nd floor		
Lectures Grand	d Event Room - 1st floor			
Session Chair: Louis Madsen	9:00 a.m 9:30 a.m.	Molecular engineering of cellulose-based materials for polymer electrolytes Qi Dong - Univesity of Maryland		
	9:30 a.m 10:00 a.m.	Solvent-Free, Non-Solvating, Side-Chain, Single-Ion Conducting Polymer Electrolytes Jennifer Schaefer - Notre Dame		
	10:00 a.m 10:15 a.m.	Demiper Surveyer - Note Come. Insights on the transport properties of DBUH-IM14-based electrolytes		
	10.00 a.m 10.13 a.m.	Steve Greenbaum - Hunter College		
	10:15 a.m 10:30 a.m.	Determining Operando Oxygen Transport Resistance of the Substrate in PEM Fuel Cells Using Pore Network Modelling Raymond Guan - University of Toronto		
	10:30 a.m 11:00 a.m.	Networking Break		
Session Chair:	11:00 a.m 11:15 a.m.	Dynamic ion gels (DIGs) from complex coacervation of oppositely charged poly(ionic liquid)s Daniil Nosov - Luxembourg Institute of Science and Technology		
Tess Seip	11:15 a.m 11:30 a.m.	In-situ Visualization of the Porous Transport Layer in Operando PEM Electrolyzers using X-ray Computed Tomography		
	11:15 a.m 11:30 a.m.	Chaeyoung Ham - University of Toronto		
	11:30 a.m 1:00 p.m.	Lunch Break Sunhill Dining Room - 2nd floor		
	1:00 p.m 1:15 p.m.	Strategic placement of auxiliary flow field channels for enhanced mass transport in fuel cells		
		Eric Chadwick - University of Toronto Bio-based Quaternary Ammonium Salt As Electrolyte For Dye-Sensitized Solar Cell		
Session Chair:	1:15 p.m 1:30 p.m	Mohd Sukor - Universiti Kebangsaan Malaysia		
Lara Dienemann	1:30 p.m 1:45 p.m.	Improving Cycling Performance of Carbon Nanofibers/Vanadium Pentoxide Electrode with Poly (3, 4-Ethylenedioxythiophene) and corrected Cut-off Voltage in Lithium-Ion Battery Lee Tian Khoon - Universiti Kebangsaan Malaysia		
	1:45 p.m 2:15 p.m.	Characterizing Pressure and Temperature dependence of Li+ Dynamics and Electrochemical Stability in Solid Electrolytes using Magnetic Resonance Gillian Goward - McMaster University		
	2:15 p.m 2:45 p.m.	Networking Break		
	2:45 p.m 3:00 p.m.	Structural Analysis for Compressed Porous Transport Layers Lijun Zhu - University of Toronto		
	3:00 p.m 3:15 p.m.	Toward a Comprehensive Understanding of Cation Effects in Proton Exchange Membrane Fuel Cells ChungHyuk Lee - LANL & Toronto Metropolitan University		
Session Chair:	3:15 p.m 3:30 p.m.	Tuning of Polymer Electrolyte Properties by Chemical Modificatio		
Jonas Mindemark	3.13 p.m 3.30 p.m.	Leire Meabe - CIC energiGUNE The Role of Dipole-Dipole Interactions in the Properties of Electrospun Polymer Ionic Liquid Composite Electrolytes		
	3:30 p.m 3:45 p.m.	The Note of Dipole-Dipole interactions in the Properties of Electrosyan Polymer of the Composite Electrosyaes Sophia Suarez - CUNY Graduate Center		
	3:45 p.m 4:00 p.m.	Stabilization of PAN-based Aqueous Solid Polymer Electrolytes (ASPEs) with Non-aqueous Plasticizers for Lithium-ion Batteries Kyle Ludwig - University of Maryland		
	4:00 p.m 5:00 p.m.	kyle Ludwig - University of Mutryland Networking Break		
Poster Session	n Grand Event Room - 1	Lst floor		
	5:00 p.m 7:00 p.m.	Effects of Organic Molecules as Electrolyte's Additives in Dye-Sensitized Solar Cell		
	5.00 p.m 7.00 p.m.	Mohd Sukor Su'ait - Universiti Kebangsaan Malaysia		
		Novel RAFT polymerization of ionic quasi-block copolymer electrolytes Gregory Rollo-Walker - Deakin University		
		Influence of Different Additives on Ion Transport in PEO Electrolytes		
		Simon Buyting - University of Münster		
		Ion Transport in Crosslinked Acrylate Gel Electrolyte Systems		
		Caroline Mönich - University of Münster Alternative Li-based salts in Solid Polymer Electrolytes: Is LiTFSI the Best Electrolyte Salt for Polymer Electrolytes?		
		Isabell L. Johansson - Uppsala University		
		Quantification of the ion coordination strength in solid polymer electrolytes		
		Rassmus Andersson - Uppsala University		
		Operando Raman Analysis for Reaction of Electrode / Electrolyte Interface using Solid Polymer Electrolytes Koji Hiraoka - Kogakuin University		
		Investigation of ion transport in polycaprolactone electrolytes in dependency on salt concentration and molecular weight		
		Anne Hockmann - University of Münster Solid state and Minimethylana carbonata has all comparity alestralytes with a garant coronic files a valering the lonic transport machanism.		
		Solid-state poly(trimethylene carbonate)-based composite electrolytes with a garnet ceramic filer: exploring the ionic transport mechanism Kenza Elbouazzaoui - Uppsala University		
	7:00 p.m 9:00 p.m.	Dinner		
,		Studio 10 and 11 - 1st floor		

Wednesday, October 5, 2022						
	7:00 a.m 9:00 a.m.	Breakfast				
		Sunhill Dining Room - 2nd floor				
ectures Gran	d Event Room - 1st floor					
	9:00 a.m 9:30 a.m.	Exploration of relevant polymer electrolyte properties through modelling: ionic transport and electrochemical stability Daniel Brandell - Uppsala University				
Session Chairs:	9:30 a.m 9:45 a.m.	From a model ionic liquid to a polymer embedded electrolyte for intermediate temperature PEFCs Jürgen Giffin - Forschungszentrum Jülich				
Sophia Suarez Eric Chadwick	9:45 a.m 10:00 a.m.	PEO-based K-ion Conductors For High-Energy Potassium Batteries Fabian Jeschull - Karlsruhe Institute of Technology				
	10:00 a.m 10:30 a.m.	Transport and structural phenomena in molecular ionic composite solid electrolytes Louis Madsen - Virginia Tech				
10:30 a.m 11:30 a.m.		Networking Break				
11:30 a.m 1:00 p.m. 1:00 p.m 5:00 p.m.		Lunch Break Sunhill Dining Room - 2nd floor				
		Director's Working Lunch Garden View Foyer/Grand Event Room - 1st floor				
		Excursions Explore Niagra				
	5:00 p.m 9:00 p.m.	Networking Social Garden - 1st floor				

Thursday, October 6, 2022				
	7:00 a.m 9:00 a.m.	Breakfast		
		Sunhill Dining Room - 2nd floor		
Lectures Grand	d Event Room - 1st floor			
	9:00 a.m 9:30 a.m.	Elucidating multiphase flow and material design considerations for polymer electrolyte membrane fuel cells and electrolyzers Aimy Bazylak - University of Toronto		
Session Chair:	9:30 a.m 10:00 a.m.	New Salts Around TFSI Michel Armand - CIC energiGUNE		
Yoichi Tominaga	10:00 a.m 10:15 a.m.	Promising routes for the development of solid polymer electrolytes with high lithium-ion transference number for lithium metal batteries Maria Martinez - CIC energiGUNE		
	10:15 a.m 10:30 a.m.	In situ solid-state hybrid electrolytes based on Li3InCl6 Irune Villaluenga - Basque Country University		
	10:30 a.m 11:00 a.m.	Networking Break		
	11:00 a.m 11:15 a.m.	Understanding Lithium Metal Stability with Particle-Polymer Composite Separators & X-ray Computed Tomography Lara Dienemann - Tufts University		
Session Chair: Kyle Ludwig	11:15 a.m 11:30 a.m.	Conductivity Mechanism and Electrochemical Performance of Al3+- and Mg2+- conducting Ionic Liquid-based Electrolytes Gioele Pagot - University of Padova, Italy		
, ,	11:30 a.m 12:00 p.m.	Electrode/Electrolyte Interlayers Enabling Solid State Lithium and Sodium Batteries. Stefano Passerini - Helmholtz Institute Ulm and Karlsruhe Institute of Technology		
		Lunch Break		
	12:00 p.m 1:00 p.m.	Sunhill Dining Room - 2nd floor		
	1:00 p.m 1:15 p.m.	Phase separated polymer electrolytes for Li-ion batteries using oligomeric carbonates as porogen and ion conductor Samuel Emilsson - KTH Royal Institute of Technology		
	1:15 p.m 1:30 p.m	Investigating the Capability of High-speed Operando Sychrotron X-ray Computed Tomography to Image Porous Materials in Fuel Cells: An Optimized Fuel Cell Design Leya Kober - University of Toronto		
Session Chair: ChungHyuk Lee	1:30 p.m 1:45 p.m.	Influence of Lithium Polysulfides on the Electrochemical and Thermodynamical properties of Solid Polymer Electrolytes Ahiavi Ernest - University of Grenoble Alpes, University of Savoie Mont Blanc		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1:45 p.m 2:00 p.m.	The Effect of Temperature on Carbonate Precipitate Formation in CO2 Electrolysis Vasant Batta - University of Toronto		
	2:00 p.m 2:30 p.m.	An overview on polymer-based electrolytes with high ionic mobility for safe operation of solid-state batteries Claudio Gerbaldi - Politecnico di Torino		
	2:30 p.m 3:00 p.m.	Networking Break		
	3:00 p.m 3:15 p.m.	To hop or not to hop: How to accurately describe the diversity of ion transport modes in solid polymer electrolytes Jonas Mindemark - Uppsala University		
Session Chair:	3:15 p.m 3:30 p.m.	Solvating Ionic Liquids 'to the Rescue' of Ternary Polymer Electrolytes Elie Paillard - Jonic Materials		
Irune Villaluenga	3:30 p.m 3:45 p.m.	Improved performance on high-voltage solid-state Li-metal batteries with Double Layer Polymer Electrolytes Mikel Arrese-Igor - CIC energiGUNE		
	3:45 p.m 4:00 p.m.	Unique, conductive and mechanically robust single ion conducting PILs via block copolymer self-assembly for all-solid-state Li metal batteries Alexander Shaplov - Luxembourg Institute of Science and Technology		
	4:00 p.m 6:00 p.m.	Networking Break		
		Banquet On the state of the sta		
	6:00 p.m 9:30 p.m.	Grand Event Room - 1st floor		