

10:00	Opening remarks		Room Brasilia
Keynote and plenary		Solvation and separations	Room Brasilia
10:15	João Coutinho	<i>Solvation in Aqueous Solutions of Ionic Liquids</i>	
10:45	Francesca d'Anna	<i>Ionic liquids: a highway with many lanes</i>	

Parallel sessions			Room
OP-01	J. Coutinho	Solvation and separations	Brasilia
11:30	Richard Noble	<i>Cross-linked poly(ionic liquid)-ionic liquid composite membranes for CO₂/light gas separations</i>	
11:45	Ana Pereira	<i>Fluorinated ionic liquids: novel task-specific materials to prevent contamination related to global and climate change</i>	
12:00	Nicolas Scaglione	<i>SO₂ absorption by reactive carboxylate-based ionic liquids</i>	
12:15	Christian Pomelli	<i>Recovery of metals with ionic liquids: a ENI slurry technology product as a case study</i>	
OP-02	R. Atkin	Interfaces, structure, and dynamics	Lima
11:30	Edward Quitevis	<i>NMR relaxation studies of the rotational dynamics of 1-ethyl-3-methylimidazolium methyl phosphonate and its binary mixtures with methylimidazole</i>	
11:45	Audrey Steinberger	<i>The effect of surface chemistry on the electrical double layer structure in long-chain ionic liquids</i>	
12:00	Marian Paluch	<i>Density scaling of electric conductivity and entropy of ionic liquids</i>	
12:15	Cindy Ly Tavera Méndez	<i>Solid-state NMR spectroscopic investigation of supported fluorinated ionic liquids for SILP catalysts</i>	
OP-03	C. Nieto de Castro	Properties	Mexico
11:30	Oscar Cabeza	<i>Giant increase of ionic conductivity in deep eutectic solvents mixed with methanol</i>	
11:45	Frederik Philippi	<i>Conductivity versus lithium transference – the ongoing search for optimal battery electrolytes</i>	
12:00	Selflando Shehaj	<i>Imidazolium-based, sulfonate functionalized zwitterions and ionic liquids with different alkyl side chain lengths for Cu electrodeposition</i>	
12:15	Haris Amir	<i>The synthesis and characterisation of borate anions used in ionic liquids</i>	
12:30	Lunch break		

Monday 24 April – Afternoon (early)

Keynote and plenary		Bio-based materials and pharmaceuticals	Room Brasilia
14:00	Jason Hallett	<i>Ionic liquids and bio...stuff. A match made in heaven or hell?</i>	
14:30	Samir Mitragotri	<i>Ionic liquids for therapeutic applications</i>	

Parallel sessions			Room
OP-04	M. Rutland	Interfaces, structure, and dynamics	Brasilia
15:15	Rob Atkin	<i>Molecular resolution nanostructure and dynamics of the deep eutectic solvent - graphite interface as a function of potential</i>	
15:30	Scott Shaw	<i>Molecular ordering and phase transitions in ionic liquids mixed with co-solvents</i>	
15:45	Peter Schulz	<i>NMR relaxation as a tool to characterize SCILL catalysts</i>	
16:00	Zaneta Wojnarowska	<i>Fast ion transport through the pressure-tunable lamellar structure of ionic liquid with liquid-liquid phase transition</i>	
OP-05	B. Rathke	Properties	Lima
15:15	Adriaan van den Bruinhorst	<i>Defying decomposition of ammonium salts to assess their fusion properties</i>	
15:30	Coby Clarke	<i>Thermal properties and life cycle considerations for metal containing ionic liquids</i>	
15:45	Slawomir Boncel	<i>Thermal conductivity of ionic liquids versus morphology and surface physicochemistry of carbon nanomaterials</i>	
16:00	Carlos A. Nieto de Castro	<i>Thermophysical properties and structure of [C2mim][N(CN)2] + water mixtures</i>	
OP-06	J. Hallett	Bio-based materials, pharmaceuticals, cosmetics	Mexico
15:15	Ana Dobre	<i>The structure-property relationship in choline-and-geranate (CAGE) analogues</i>	
15:30	Nicolas Brun	<i>Carbonization of lignocellulosic agrowastes in imidazolium-based ionic liquids: an overview and recent advances</i>	
15:45	Pannuru Venkatesu	<i>Ionic liquids as green solvents for enhanced stability of proteins against multiple stresses</i>	
16:00	Pedro Verdía Barará	<i>Optimization of the IonoSolv process for the preparation of paper-quality pulps</i>	
16:15	Coffee break		

Monday 24 April – Afternoon (late)

<i>Parallel sessions</i>			Room
OP-07	P. Schultz	Solvation and separations	Brasilia
16:45	Bruna Silva Soares	<i>Gas separation performance of fluorinated-based ILs membranes under mixed gas conditions</i>	
17:00	Sam McCalmont	<i>Functionalised ionic liquid mixtures for the enhanced separation of ethylene and ethane</i>	
17:15	João Araújo	<i>Functionalized ionic liquids for biologics purification, drug formulation, and greenhouse F-gases reclamation</i>	
17:30	Akio Kamimura	<i>Solubility switchable ionic liquids using protective groups</i>	
17:45	Thomas Schubert	<i>The long and winding road – CO₂ capture and conversion with ionic liquids</i>	
OP-08	D. Silvester-Dean	Functional materials and devices	Lima
16:45	Sergei Glavatskih	<i>On the hybrid nature of lubricious layers formed by ionic liquids</i>	
17:00	Leonard Dick	<i>Ionic liquids in carbon nanotubes</i>	
17:15	Peter Hesemann	<i>Ionic guest in ionic host: all-ionic composites via ionic liquid confinement in ionosilica supports</i>	
17:30	Novina Malviya	<i>New boronium ionic liquids as ash-less lubricant additives</i>	
17:45	Toshiyuki Itoh	<i>Design of ionic liquids as desiccants for green sustainable liquid desiccant air-conditioning system</i>	
OP-09	T. Welton	Bonding, reactivity, and catalysis	Mexico
16:45	Malgorzata Swadzba-Kwasny	<i>Liquid coordination complexes for the synthesis of inorganic materials</i>	
17:00	Bruce Pegot	<i>Polyoxometalates - ionic liquids as solvent and catalyst for the oxidation of organic substrates and biomass valorization</i>	
17:15	Stephen Massicot	<i>Structure and reactivity of the ionic liquid [C1C1im][Tf₂N] on Cu(111)</i>	
17:30	Anna Chrobok	<i>Ruthenium-based ring-closing metathesis with ionic liquids: from aqueous micellar catalysis to supported ionic liquid phase</i>	
17:45	Stéphane Daniele	<i>Innovative ionic liquid-based semiconductors for CO₂ photoreduction</i>	
18:00	<i>Welcome reception</i>		

Tuesday 25 April – Morning

Keynote and plenary		Theory and simulation	Room Brasilia
09:00	Claudio Margulis	<i>Structure and dynamics of ionic liquids in the bulk and at interfaces and a comparison with high-temperature molten salts</i>	
09:30	Arun Yethiraj	<i>Polymers in ionic liquids</i>	
10:15	Coffee break		

Parallel sessions			Room
OP-10	L. Moura	Solvation and separations	Brasilia
11:00	Matteo Busato	<i>Transition metal ions solvation in ILs: coordination and thermodynamics</i>	
11:15	Gabriel Zarca	<i>Ionic liquids as key enabling drivers for the separation of close-boiling hydrofluorocarbon refrigerant mixtures</i>	
11:30	Rubén Santiago	<i>Multiscale methodology for IL evaluation in fluorinated gases absorption</i>	
11:45	Nicolas Schaeffer	<i>Selective precipitation of gold from an aqua regia leachate of e-waste using a quaternary ammonium ionic liquid</i>	
12:00	Alberto Puga	<i>Direct air capture and flue gas capture of carbon dioxide enhanced by moisture on solid-supported acetate ionic liquids</i>	
12:15	Guillaume Zante	<i>Ionic liquids for the extraction of metal ions</i>	
OP-11	C. Margulis	Theory and simulation	Lima
11:00	José Nuno Canongia Lopes	<i>Ionic liquids at interfaces: probing their structure and interactions</i>	
11:15	Cirad Cervinka	<i>Ab initio modeling of volatility of ionic liquids with the help of computational crystallography</i>	
11:30	Christian Wick	<i>Multiscale modelling of chemical reactions in supported IL phase</i>	
11:45	Tinidad Méndez-Morales	<i>Ionic liquids under confinement for gas storage: a computational study</i>	
12:00	Chris Heath Turner	<i>Predicting gas absorption and transport properties within multivalent ionic liquids</i>	
12:15	Vladislav Ivanistsev	<i>Electrode ionic liquid interfaces - from packing of counter-ions to potentials of saturation charge</i>	
12:30	Lunch break		

<i>Parallel sessions</i>			Room
OP-12	I. Marrucho	Bio-based materials and pharmaceuticals	Mexico
11:00	Alina Brzeczek-Szafran	<i>Sweet ionic liquids for sustainable functional materials</i>	
11:15	Luis Branco	<i>Functional ionic liquids and organic salts for pharmaceutical applications</i>	
11:30	Héctor Rodriguez	<i>Non-dissolving pretreatment of eucalyptus globulus wood with acetate ionic liquids for improvement of the rate of enzymatic hydrolysis of its carbohydrate fraction</i>	
11:45	Mahasoa Salina Souvenir Zafindrajaona	<i>Biosourced ionic liquids: thermodynamic properties of aqueous solutions and application to dissolution of lignins</i>	
12:00	Lorenzo Guazzelli	<i>An insight into the relationship between bio-based ionic liquids and natural (deep) eutectic solvents</i>	
12:15	Yelizaveta Beliankova	<i>Tolperisone-based ionic liquids: synthesis and biological evaluation</i>	
OP-13	M. Panzer	Polymers and polyelectrolytes	Washington
11:00	John Texter	<i>Supramolecular liquid polymerized ionic liquids</i>	
11:15	Julia Shamshina	<i>Biopolymeric materials in ILs: current state, challenges and prospective</i>	
11:30	Jean Le Bideau	<i>Ionogels: past, present and future</i>	
11:45	Jean-Francois Gérard	<i>Metal-oxo clusters as core of hybrid organic-inorganic ILs: from synthesis to their use for nanostructuring of polymer networks</i>	
12:00	Salvatore Marullo	<i>Biopolymer-based IL gels: sustainable antioxidant and antimicrobial materials</i>	
12:15	Udo Kragl	<i>Novel materials and applications based on polymerized ionic liquids</i>	
12:30	Lunch break		

Tuesday 25 April – Afternoon

Keynote and plenary		Interfaces, structure and dynamics	Room Brasilia
14:00	Mathieu Salanne	<i>Interfaces of ionic liquids: paradigm changes</i>	
14:30	Susan Perkin	<i>Some outstanding fundamental questions in the field of concentrated electrolytes</i>	

Parallel sessions			Room
OP-14	M. Salanne	Interfaces, structure and dynamics	Brasilia
15:15	Mark Rutland	<i>ILs under applied fields at interfaces and under confinement</i>	
15:30	Rosa Espinoza-Marzal	<i>Influence of ion specificity and water uptake on the capacitance and interfacial structure of ionic liquid/graphene interface</i>	
15:45	Xianwen Mao	<i>Understanding electrochemical interfaces for sustainability: insights from soft materials design and operando functional imaging</i>	
16:00	Denis Morineau	<i>Confining deep eutectic solvents in nanopores</i>	
16:15	Eduards Bakis	<i>Evidence for anion-anion interactions in tetracyanoborate ILs</i>	
16:30	Martin Lorenz	<i>Local volume constraint in ionic liquid based electrolytes is governing charge transport in electric fields</i>	
OP-15	E. Maginn	Theory and simulation	Lima
15:15	Kateryna Goloviznina	<i>Properties of TEMPO/TEMPO+ redox pair in ILs using polarizable molecular dynamics</i>	
15:30	Heigo Ers	<i>Electrode ionic liquid interface - insights of capacitance-structure dependence from simulations and bilayer model</i>	
15:45	Hadrián Montes-Campos	<i>Ionic transport in bulk and nanoconfined ionic fluids</i>	
16:00	Alain Chaumont	<i>An alternative approach to charge scaling for developing accurate fixed-charge atomistic force fields for deep eutectic solvent</i>	
16:15	Yamini Sudha Sistla	<i>Molecular simulations to understand the efficiency of ionic liquids as electrolytes for electrochemical hydrogen production</i>	
16:30	Jan Forsman	<i>Simulations of potential-induced phase transitions, of ionic liquids in narrow electrode pores</i>	
16:45	Poster session (odd numbers) and cocktail		

<i>Parallel sessions</i>			Room
OP-16	M. Watanabe	Electrochemistry and energy applications	Mexico
15:15	Pablo Vallet Moreno	<i>Ionogels as quasi-solid electrolytes for smart electrochemical devices</i>	
15:30	Monika Schönhoff	<i>Li ion transport in ionic liquid-based electrolytes: the detrimental or beneficial role of ion-ion correlations</i>	
15:45	Takashi Iwahashi	<i>Excess potential of anion adsorption/desorption at ionic liquid/electrode interfaces</i>	
16:00	Kimmanthudawage Isuri N. Perera	<i>Enhanced electrochemical recovery of cobalt by varying the ethylene glycol–choline chloride composition in a deep eutectic solvent</i>	
16:15	Juan José Parajó	<i>Hg electrode as metal model on the study of the electric double layer structure of lithium salt dissolved in ethylammonium nitrate</i>	
16:30	Sebastien Plebst	<i>New developments in aluminium batteries and aluminium deposition</i>	
OP-17	G. Swadzba-Kwasny	Bonding, reactivity and catalysis	Washington
15:15	Andrea Mezzetta	<i>Reactive deep eutectic solvents (ReDESS): an underexploited tool for green reactions</i>	
15:30	Anna Wolny	<i>Water-tolerant silica-based trifloaluminatate ionic liquids dedicated for Diels-Alder reaction</i>	
15:45	Cameron Weber	<i>How does the amphiphilic nanostructure of ionic liquids affect chemical reactivity?</i>	
16:00	Kenji Takahashi	<i>Banana pseudo-stems save the world with help of ionic liquid</i>	
16:15	Daniel Hemmeter	<i>Buoy-like surface enrichment of a Pt complex in IL solution for interface-enhanced SILP catalysis</i>	
16:30	Romain Molotskyi	<i>Continuous process of cellulose dissolution and transesterification reaction via homogeneous reactive twin-screw extrusion catalyzed by ionic liquid</i>	
16:45	Poster session (odd numbers) and cocktail		

Wednesday 26 April – Morning

Keynote and plenary		Electrochemistry and energy applications	Brasilia
09:00	Maria Forsyth	<i>Ionic liquids in energy applications</i>	
09:30	Yuki Yamada	<i>Concentrated electrolytes: underlying science and battery applications</i>	
10:15	Coffee break		
Seddon lecture			Brasilia
11:00	John Holbrey	<i>Ionic liquids – a look backwards and then forwards to new applications</i>	
Parallel sessions			Room
OP-18	R. Espinoza-Marzal	Interfaces, structure, and dynamics	Brasilia
11:45	Naomi Elstone	<i>Bulk structure of mixed ionic liquid systems</i>	
12:00	Spyridon Koutsoukos	<i>Probing structure and dynamics of ionic liquids using electron paramagnetic resonance spectroscopy</i>	
12:15	Kevin Lovelock	<i>Measurement and prediction of ionic liquid ionisation energies: which parts of the ionic liquid are the most reactive?</i>	
12:30	James Wishart	<i>Solvation dynamics and reactivity of excess electrons in ILs</i>	
OP-19	B. Simmons	Bio-based materials and pharmaceuticals	Lima
11:45	Saffron Bryant	<i>Deep eutectic solvents for cryopreservation</i>	
12:00	Pedro Nakasu	<i>Protein extraction from squid pens with ionic liquids</i>	
12:15	Kyoto Fujita	<i>Improved renaturation process of aggregated recombinant proteins through the design of hydrated ionic liquids</i>	
12:30	Jorge F. B. Pereira	<i>Ionic liquids for non-enzymatic protein stabilization</i>	
OP-20	S. Shaw	Electrochemistry and energy applications	Mexico
11:45	Charlotte Borrill	<i>An electrochemical investigation into 1-alkyl-3-methylimidazolium chloride based ionic liquid corrosivity</i>	
12:00	Masahiro Yoshizawa-Fujita	<i>Pyrrrolidinium-based ionic plastic crystals as flexible solid electrolytes for rechargeable devices</i>	
12:15	Calogera Bertoloni	<i>Propeline: a green alternative to ethaline for electrochemical recovery of precious metals</i>	
12:30	Cristina Pozo-Gonzalo	<i>Sustainable methods using electrochemical means in ionic liquids to recover critical metals</i>	
OP-21	P. Hesemann	Functional materials and devices	Mexico
11:45	Joshua Buzolic	<i>Surface-active ionic liquids as lubricant additives</i>	
12:00	Marzena Dzida	<i>Subzipping of long multi-walled carbon nanotube networks in IL: on the route to thermal and rheological excellence of ionanofluids</i>	
12:15	Lydie Viau	<i>Antibacterial surfaces prepared by electropolymerization of pyrrole-tailed imidazolium ionic liquid</i>	
12:30	Francisco Malaret	<i>Scale-up of the the oxidative ionothermal synthesis for inorganic materials and hydrogen</i>	
12:45	Lunch		

Thursday 27 April – Morning

Keynote and plenary		Polymers and polyelectrolytes	Room Brasilia
09:00	David Mecerreyes	<i>From poly(ionic liquid)s to polyDES and new applications for ionic polymers</i>	
09:30	Shiguo Zhang	<i>Highly adhesive ionic liquids</i>	
10:15	Coffee break		

Parallel sessions			Room
OP-22	J. Wishart	Interfaces, structure, and dynamics	Brasilia
11:00	Janis Hessling	<i>Structure and dynamics of an ionic liquid-based electrolyte confined in porous materials</i>	
11:15	Paul Lane	<i>High-energy aluminium atoms as reactive-atom probes of ionic-liquid surface structure</i>	
11:30	Leonhard Winter	<i>Surface science still goes liquid - experimental developments to access surfaces and interfaces of ionic liquids in vacuum</i>	
11:45	Hua Li	<i>Extremely slow dynamics of IL self-assembled nanostructures</i>	
12:00	Navjot K. Kahlon	<i>A small angle X-ray study to understand the effect of co-solvents and composition on the amphiphilic nanostructures of ILs and DES</i>	
12:15	Sefik Suzer	<i>Operando-XPS investigation of electrified solid/ionic liquid interfaces using lab-based instruments</i>	
OP-23	J. Palomar	Solvation and separations	Lima
11:00	António de Sousa Braga Neto	<i>NMR Spectroscopy Investigation of the Platinum Recovery from Aqueous Solutions Using Ionic Liquids</i>	
11:15	Leila Moura	<i>Experimental fast screening of sorbents for gas uptake and separation</i>	
11:30	Janine Richter	<i>Ionometallurgical cobalt recovery from cobalt oxides for ore processing and Li ion battery cathode recycling</i>	
11:45	Tam Greaves	<i>Ionic Liquid Solvent Effects on Globular Proteins</i>	
12:00	Jonas van Olmen	<i>Non-aqueous solvent extraction of cobalt and nickel using undiluted ionic liquids in milliflow contacting devices</i>	
12:15	Stephanie Boudesocque	<i>Ionogels as modular platform for metal extraction</i>	
12:30	Lunch break		

<i>Parallel sessions</i>			Room
OP-24	C. Cervinka	Theory and simulation	Mexico
11:00	Edward Maginn	<i>Recent advances in molecular modeling to enable the design of new hydrofluorocarbon separation processes using ionic liquids</i>	
11:15	Rachel Schurhammer	<i>Liquid–liquid extraction of the Eu(III) cation by BTP ligands into ionic liquids: interfacial features and extraction mechanisms investigated by MD simulations</i>	
11:30	Alessandra Serva	<i>Towards complex electrolytes for supercapacitors: insights from polarizable molecular dynamics</i>	
11:45	Tom Frömbgen	<i>Analyzing clusters in (ionic) liquids</i>	
12:00	Stuart Brown	<i>Characterising a protic ionic liquid library with applied machine learning algorithms</i>	
12:15	Luke Wylie	<i>Effects of ionization and Grotthuss diffusion in [C1Him][Ace]</i>	
OP-25	D. Mecerreyes	Polymers and polyelectrolytes	Washington
11:00	Eric Leroy	<i>Melt processing of paramylon using a water:ionic liquid mixture as plasticizer</i>	
11:15	Johanna Romischke	<i>Polymerized ionic liquids-based hydrogels as ion exchangers</i>	
11:30	Jannick Duchet-Rumeau	<i>New materials based on the combination of IL and polymers</i>	
11:45	Masayoshi Watanabe	<i>Solvation and phase-separation of polymers in ionic liquids: competitive interactions between ionic liquids and polymers</i>	
12:00	Matthew Panzer	<i>Coulombic tug-of-war: polyzwitterion scaffolds in Li-containing ionogel electrolytes</i>	
12:15	Frank Stiemke	<i>Ionic liquids (ILs) as green solvents for cellulose dissolution and fabrication of cellulose fibres for a sustainable textile industry</i>	
12:30	Lunch break		

Thursday 27 April – Afternoon

Keynote and plenary		Bonding, reactivity and catalysis	Room Brasilia
14:00	Tom Welton	<i>Bonding and reactivity in ionic liquids</i>	
14:30	Katarina Bica-Schröder	<i>Go with the flow: continuous processes in IL–scCO₂ systems</i>	

Parallel sessions			Room
OP-26	T. Greaves	Solvation and separations	Brasilia
15:15	José Palomar	<i>Integrated carbon capture and utilization based on bifunctional ILs</i>	
15:30	Pedro Carvalho	<i>Mixed matrix membranes composed of encapsulated ionic liquids for gas separation</i>	
15:45	Marie Plazanet	<i>Insights into the microscopic mechanisms responsible for phase separation in a ionic-liquid based biphasic acidic solution for metallic ion extraction</i>	
16:00	Lauriane Ginot	<i>Hydrophobic porous ionic liquids for metal extraction</i>	
16:15	Guilhem Arrachart	<i>Eco-friendly process for selective recovery of valuable metals from e-waste using ionic liquids</i>	
16:30	Guillaume Zante	<i>Redox-mediated dissolution of metals with deep eutectic solvents for sustainable recycling of electronic waste</i>	
OP-27	H. Rodríguez	Bio-based materials, pharmaceuticals	Lima
15:15	Blake Simmons	<i>Driving the future: ionic liquids as a disruptive technology for the production and biofuels, biochemicals, and bioproducts</i>	
15:30	Bartolomiej Gaida	<i>A closer look at hydrogen bonding in ionic bio-derived salts – towards sustainable phase change materials for thermal energy storage</i>	
15:45	Masahiro Goto	<i>Needle-free insulin delivery for diabetes using biocompatible lipid-based ionic liquids</i>	
16:00	Isabel Marrucho	<i>Enhancing efficiency of phenolic compounds extraction from <i>sargassum muticum</i> using deep eutectic solvents and intensification techniques</i>	
16:15	Kosuke Kuroda	<i>Zwitterionic liquids as next-generation solvents in the life science</i>	
16:30	Mónia Martins	<i>Studies on the controlled release of metal ions from nanomaterials using ionic liquids for agricultural applications</i>	
16:45	Poster session (even numbers) and cocktail		

<i>Parallel sessions</i>			Room
OP-28	J.N. Canongia Lopes	Theory and simulation	Mexico
15:15	Christian Schröder	<i>Charge and proton transfer in polarizable molecular dynamics simulations of ionic liquids</i>	
15:30	Yong Zhang	<i>Understanding structure-property relationship in des: a case study on choline chloride diol mixtures using md simulation</i>	
15:45	Mirella Simões Santos	<i>MD investigation of imidazolium-based ionic liquid crystals</i>	
16:00	Max Schammer	<i>From bulk thermodynamics to nano-structuring near electrified interfaces: a continuum transport theory for ionic liquids incorporating solvation effects</i>	
16:15	Vaiheh Alizadeh	<i>Ionic liquid modification of radical catalyst: ab initio molecular dynamics and metadynamics</i>	
16:30	Kana Ishisone	<i>Structural and electronic properties of an ionic liquid/WSe2 interface for application on next generation nanoelectronics devices</i>	
OP-29	A. van den Bruinhorst	Properties	Washington
15:15	Carlos Miranda	<i>Extensive study of the electrical conductivity of imidazolium ionic liquids: anion and alkyl chain effects</i>	
15:30	Bernd Rathke	<i>Liquid-liquid and vapor-liquid equilibria of imidazolium triflate ionic liquids with n-alkyl alcohols</i>	
15:45	Maleen Middendorf	<i>Investigating transport properties of protic ionic liquids</i>	
16:00	Faiz Ullah Shah	<i>Fluorine-free ionic liquid-based electrolytes</i>	
16:15	Eduardo Morais	<i>Synthesis of new protic ionic liquids for proton-exchange membranes: what else is out there?</i>	
16:30	Rodrigo Silva	<i>The thermodynamics of ionic liquids with alkylsilane and alkylsiloxane chain</i>	
16:45	Poster session (even numbers) and cocktail		

Keynote and plenary		Functional materials and devices	Room Brasilia
09:00	Sheng Dai	<i>Functional materials based on ionic liquids for energy-related applications</i>	
09:30	Debbie Silvester-Dean	<i>How ionic liquids are revolutionizing electrochemical sensors</i>	
10:15	Poster prizes		Room Brasilia
10:30	Coffee break		

Parallel sessions			Room
OP-30	K. Lovelock	Interfaces, structure, and dynamics	Brasilia
11:00	Oliver Hammond	<i>The effect of ion architecture on bulk nanostructure in bis(orthoborate) ionic liquids</i>	
11:15	Shurui Miao	<i>Lipid membrane flexibility in protic ionic liquids</i>	
11:30	Johanna Busch	<i>How hydrogen bonds in hydroxyl-functionalised ILs stabilise cation-networks and lend a hand to molecular components</i>	
11:45	Oriele Palumbo	<i>Insights into ionic liquids by mechanical spectroscopy</i>	
12:00	Jianan Wang	<i>Potential-dependent dynamics of the near-surface nanostructures of aprotic ILs revealed with video-rate atomic force microscopy</i>	
OP-31	S. Dai	Functional materials and devices	Lima
11:00	Laurent Douce	<i>Luminescent ionic materials for use as tools in biology and for physics to detect neutron radiation</i>	
11:15	Hamdi Ben Halima	<i>A novel conductometric sensor for acetone detection prepared through electro-polymerization of pyrrole-tailed ionic liquid</i>	
11:30	Istvan Szilagyí	<i>Specific effects of ionic liquids on the dispersion stability of low dimensional nanoparticles</i>	
11:45	Mariana Donato	<i>ILs as extreme pressure additives for bearing steel applications</i>	
12:00	Hélène Pung	<i>Thermotropic ionic liquid crystals (TILCs): tunable-by-design self-assembling and stimuli-sensible electrolytic materials platform for energy applications</i>	
OP-32	M. Forsyth	Electrochemistry and energy applications	Mexico
11:00	Jorge L. Lopez Morales	<i>Protic dialkylammonium-based organic ionic plastic crystals as solid-solid phase change materials for thermal energy storage</i>	
11:15	Sophie Legeai	<i>Two-step synthesis of Te-based single crystalline one dimensional nanostructures by template-free electrodeposition in an ionic liquid</i>	
11:30	Yukio Ouchi	<i>In-situ measurement of the potential-dependent adsorption/desorption of tetraglyme(G4)-Li[TFSA] solvate ionic liquid at the solid-electrolyte and cathode-electrolyte interfaces</i>	
11:45	Yuli Kou	<i>Ionic liquid electrolyte based algae battery: A new generation self-powered and charged free battery</i>	
12:00	Samuel Lorenz	<i>Ionic liquid-based electrolytes for next generation batteries</i>	
12:15	Closing remarks		
12:30	Lunch		

Tuesday 25 April | Poster session PS-01

P-01	Marina M. Seitkalieva	<i>5-hydroxymethylfurfural-derived ionic liquids: synthesis, biological activity and application</i>
P-03	Talia A. Shmool	<i>Biocompatible ionic liquid formulations for increasing therapeutic success rate</i>
P-05	Yuya Matsuda	<i>Cryopreservation of cells by anchoring zwitterionic polymers</i>
P-07	Shogo Iwata	<i>Green synthesis of thermoplastics by transesterification of total lignocellulose components of beet pulp using ionic liquid</i>
P-09	Takeru Ishizaki	<i>New design of cryoprotectants of cells: low toxic zwitterions</i>
P-11	Yelizaveta Belyankova	<i>Synthesis and biological activity of new ionic compounds based on diphenhydramine</i>
P-13	Yuchao Li	<i>Applied research of Lewis acid ionic liquid in Friedel-Crafts alkylation reaction of chlorobenzene/SOCl₂</i>
P-15	Brenda Rabell Montiel	<i>Efficient reversible production of hydrogen with CO₂ in a catalytic system employing Ru-PNP complexes and ionic liquids</i>
P-17	Shannon McLaughlin	<i>Frustrated Lewis pairs in ionic liquids</i>
P-19	Daniel Kremitzl	<i>In-situ chemical transformations of mono- and bifunctional ionic liquids applied in "solid catalysts with ionic liquid layer" for selective acetylene hydrogenation</i>
P-21	Luis Branco	<i>Ionic liquids and metal nanoparticles for CO₂ catalytic conversion to fuels</i>
P-23	Saliha Saher	<i>Azolium salts as potential phase change materials for thermal energy storage</i>
P-25	Sheng Bi	<i>Co-ion desorption as the main charging mechanism in metallic 1T-MoS₂ supercapacitors</i>
P-27	Sascha F-J Leyendecker	<i>Theoretical characterization of novel ionic liquid-salt combinations for use as efficient electrolytes</i>
P-29	Azra Sourjah	<i>Development of new organic ionic plastic crystals utilising the morpholinium cation</i>
P-31	Hugo Cruz	<i>Eutectic systems as sustainable electrolytes for energy storage and conversion</i>
P-33	Martin Lorenz	<i>Investigation of highly concentrated mixed-anion salt-in-ionic-liquid electrolytes</i>
P-35	Yansong Zhao	<i>Iron-ion battery using pure ionic liquid electrolyte: a low cost, highly safe and environmentally friendly rechargeable battery</i>
P-37	Matteo Palluzzi	<i>Ionic liquids, synthesized by greener methods, for high-voltage lithium-ion batteries</i>
P-39	Gaurav Tatrari	<i>New families of structurally flexible pyrrolidinium- and morpholinium-based ionic liquid electrolytes</i>
P-41	Isabel Marrucho	<i>Sodium salt eutectic mixtures for EDLC supercapacitor application</i>
P-43	Andreia F. M. Santos	<i>Confinement of ionic liquid crystals into covalent organic frameworks</i>
P-45	Gabriel B Calderon-Salmeron	<i>Considerations in the design of ionic liquid greases for low and high-speed rolling bearings</i>

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P-47	Leonard Dick	<i>Hygroscopic protic ionic liquids as electrolytes for electric double layer capacitors</i>
P-49	Mariana Donato	<i>New protic ionic liquids as lubricant additives for nano and microelectromechanical systems</i>
P-51	Wade Millar	<i>Solvated surface-active ionic liquids for capacitor applications</i>
P-53	Łukasz Scheller	<i>Thermophysical properties of ionanofluids composed of multi-walled carbon nanotubes and 1-butyl-3-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide</i>
P-55	Scott Shaw	<i>Effects of ion symmetry on molecular ordering transitions in ionic liquid films</i>
P-57	Anne Hockmann	<i>Investigation of the structure and dynamics of a localized high-concentration electrolyte</i>
P-59	Novina Malviya	<i>New boronium ionic liquids as ash-less lubricant additives</i>
P-61	Catherine Fung	<i>Probing anomalous underscreening with a protic ionic liquid between charged interfaces</i>
P-63	Julia Piotrowska	<i>Design and application of catalytically active membrane reactors</i>
P-65	Lisa Eisele	<i>Ionic liquid-based polymers for photocatalytic carbon dioxide reduction</i>
P-67	Lydie Viau	<i>Pyrrrole-tailed imidazolium surface-active monomers: aggregation properties in aqueous solution and polymerization behavior</i>
P-69	Emma McCrea	<i>Valorisation of waste polyolefin plastics using Lewis acidic ionic liquids</i>
P-71	Laura Laimina	<i>Ether-functionalized imidazolium ionic liquids</i>
P-73	Carlos F P Miranda	<i>Multi-frequency impedance methodology for the measurement of electrical conductivity of ionic fluids</i>
P-75	Ana M Ferreira	<i>Plastic recycling by selective solvent dissolution: COSMO-RS as predictive screening of deep eutectic solvents</i>
P-77	James Wishart	<i>Raman wavelength conversions in ionic liquids</i>
P-79	Joao A P Coutinho	<i>Solvatochromic parameters prediction based on COSMO-RS descriptors</i>
P-81	Marzena Dzida	<i>Thermodynamic speed of sound in ionic liquids at high pressures</i>
P-83	Elisa Hernández	<i>Toward sustainable and cost-effective CO₂ conversion processes to propylene carbonate based on ionic liquids</i>
P-85	Frederik Philippi	<i>Viscosity and design of imide ionic liquids: flexibility, fluorination, and mass of the anions</i>
P-87	Nicolas Schaeffer	<i>Acidic aqueous biphasic systems based on ionic liquids for metal extraction</i>
P-89	Nicolas Schaeffer	<i>Selective recovery of platinum from catalytic converter wastes using a fully ionic system</i>
P-91	Martina Sanadar	<i>Cobalt(ii) complexation in the [C4mim][Tf2N] ionic liquid</i>
P-93	Joao A P Coutinho	<i>Development of a low Ph degreaser for efficient removal of carbonized soil from hard surfaces</i>
P-95	Mónia A R Martins	<i>Fractionation of essential oils components using ionic liquids</i>
P-97	Beth Murray	<i>Hydrophobic deep eutectic solvents for the recovery of gallium</i>

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P-99	Dominic Burns	<i>Hydrophobic ionic liquids as anion exchangers</i>
P-101	Andreia Rosatella	<i>Ionic liquids as highly efficient decontamination systems for chemical warfare agents</i>
P-103	Juliette Sirieix Plénet	<i>La(iii) and Ce(iii) extraction using thermomorphic ionic liquid</i>
P-105	Ahmed Díaz Páez	<i>Porous liquids of ZIF-67 with gemini ionic liquids based on benzylammonium acetate for CO₂ adsorption: spectroscopic and thermodynamic study</i>
P-107	Rubén Santiago	<i>Bio-ionic liquids as promising solvents in industrial separation processes</i>
P-109	Andela Kovačević	<i>Separation of cobalt from nickel from NMC battery cathodes using phosphonium based ionic liquids</i>
P-111	Pedro J Carvalho	<i>Hybrid process for the treatment of brines: ILs ABS coupled with electro-fenton process</i>
P-113	Luke Wylie	<i>A theoretical analysis of physical and chemical CO₂ absorption by tri- and tetra-epoxidized imidazolium ionic liquids</i>
P-115	Jan Blasius	<i>Chirality transfer and enantiomeric recognition in chiral ionic liquids</i>
P-117	Chiara Corsini	<i>Computational modeling of porous deep-eutectic solvents for gas capture and separation</i>
P-119	Adilson de Freitas	<i>Diffusion of lithium cations in concentrated sulfolane-based liquid electrolytes</i>
P-121	Navneet Singh	<i>How sodium salt affects the structural landscape and dynamics of pyrrolidinium ionic liquid comprising asymmetric anion</i>
P-123	Tuanan C Lourenço	<i>Identification of sodiation mechanisms in graphite-base negative electrodes by molecular dynamics simulations combined with potential mean force</i>
P-125	Vahideh Alizadeh	<i>Ion pairing in deep eutectic solvents</i>
P-127	Alejandro Belinchon Abenojar	<i>Reaction-extraction platforms towards CO₂-derived cyclic carbonates catalyzed by ionic liquids by COSMO models</i>
P-129	Jorge Pereira	<i>Extraction of intracellular carotenoids from yeast cells: eutectic solvents versus ionic liquids</i>

P-02	Yuchao Li	<i>Algae cultivation in ultra-high concentration of amino acid based ionic liquids</i>
P-04	Ayumi Hachisu	<i>Critical factors for one-pot bioethanol production with low-toxic zwitterion</i>
P-06	Gyanendra Sharma	<i>Esterification of tamarind starch in ionic liquid and developing starch based films</i>
P-08	Stuart Brown	<i>High throughput screening of hen egg white lysozyme in ionic liquid-water solutions</i>
P-10	Pedro Verdía Barbará	<i>Study on the biomass pre-treatment using an ionic liquid/surfactant approach</i>
P-12	Marina Seitkalieva	<i>The structure – biological activity relationships of cinnamic-based ionic liquids</i>
P-14	Philipp Miksovsky	<i>Continuous formation of bioderived carbonates in supercritical carbon dioxide catalyzed by supported ionic liquids</i>
P-16	Romulo Ando	<i>Frustrated Lewis pairs from tricyanomethanide based ionic liquids – a spectroscopic investigation</i>
P-18	Piotr Latos	<i>Hybrid material based on deep eutectic solvent and metal oxide dedicated for the synthesis of plastisiers</i>
P-20	Aloisia King	<i>Intrinsically ionic liquid (IL) frustrated Lewis acid/base pairs and their innate ability for small molecule activation</i>
P-22	Kevin Lovelock	<i>Understanding and predicting the reactivity of trifluoroborate anion organic reagents using XPS and resonant XPS</i>
P-24	Cécile Rizzi	<i>Binary and ternary carbon-based composite materials including an ionic liquid constituent for anodes of rechargeable batteries</i>
P-26	Andreas Taubert	<i>Combining 3D printing and promising electrolyte research: ionic liquid based membrane materials</i>
P-28	Akiko Tsurumaki	<i>Design of ionic liquids from liquid to quasi-solid-state lithium ion batteries</i>
P-30	David Sconyers	<i>Electrochemistry of trivalent chromium in ionic-liquid based solutions</i>
P-32	Selflando Shehaj	<i>Imidazolium-based, sulfonate functionalized zwitterions and ionic liquids with different alkyl chain side lengths for Cu electrodeposition</i>
P-34	Mukhtiar Ahmed	<i>Ionic liquids and electrolytes with flexible aromatic anions</i>
P-36	Yansong Zhao	<i>Ionic liquids for sustainable energy applications</i>
P-38	Hadrián Montes-Campos	<i>Metal adsorption at the electrode-ionic liquid interface</i>
P-40	Guillaume Simon	<i>Mixing enthalpies of fluorinated precursors for textile industry in ionic liquids</i>
P-42	Henrique Bastos	<i>Understanding the effect of alcohol components of deep-eutectic solvents in battery recycling: from a chemical to an electrochemical approach</i>
P-44	Tuanan C. Lourenço	<i>Theoretical investigation of ionic liquids-based electrolytes for sodium-ion batteries: understanding of electrochemical stability and Na⁺ transport mechanism</i>

Thursday 27 April | Poster session PS-02

P-46	John Texter	<i>Electrospun electrodes of polymerized ionic liquid-stabilized nanocarbons: $0D + 1D = 2D$</i>
P-48	Łukasz Scheller	<i>New method for obtaining stable multi-walled carbon nanotubes-based ionanofluids with improved thermal properties</i>
P-50	Hugo Cruz	<i>Photo-electrochromic materials: from ionic liquids polymeric ionic liquids and eutectic mixtures to ionogel based devices</i>
P-52	Andreia F M Santos	<i>Stimuli-responsive ionic liquid crystals as promising tailor-made materials</i>
P-54	Lois Morandeira	<i>Aggregation behavior of aqueous mixtures of biocompatible choline amino acid ionic liquids</i>
P-56	Edward Quitevis	<i>Interionic motional coupling in charge transport in the ionic liquid 1-ethyl-3-methylimidazolium methyl phosphonate</i>
P-58	Roman de la Presilla	<i>Ionic liquids as a tool to prevent fretting in wind power bearings</i>
P-60	Denis Morineau	<i>On the coupling between ionic conduction and dipolar relaxation: comparing ionic and nonionic deep eutectic solvent</i>
P-62	Shurui Miao	<i>Water, choline, and amino acid as aqueous deep eutectic solvents</i>
P-64	Masoud Ramezanzadeh	<i>Incorporation of imidazolium-based ionic liquids in non-isocyanate polyurethane networks</i>
P-66	Andreia Rosatella	<i>New ILs-based photowitchable materials</i>
P-68	Andrei Filippov	<i>Self-diffusion in mixtures of a polypropylene grease and three phosphonium ionic liquids</i>
P-70	Rodrigo Silva	<i>A high precision microcalorimeter for the determination of heat capacity</i>
P-72	Tim Groves	<i>Forces and structure in ion dense mixtures</i>
P-74	Carlos A. Nieto de Castro	<i>On the density, viscosity and thermal conductivity of $[C_{12}mim][[(CF_3SO_2)_2N]$ and their ionanofluids with graphene</i>
P-76	Joao A. P. Coutinho	<i>Predicting the partitioning of redox-active compounds in ionic liquid-based aqueous biphasic systems</i>
P-78	Cintia M. Correa	<i>Rheological properties of phosphonium-based porous ionic liquids</i>
P-80	Coby Clarke	<i>Thermally-stable imidazolium dicationic ionic liquids with pyridine functional groups</i>
P-82	Ana IMC Lobo Ferreira	<i>Thermophysical properties of the 1-alkyl-3-methylimidazolium triflate series</i>
P-84	Beatriz Rocha de Moraes	<i>Understanding the role of hydrogen bonding in ether-functionalized ionic liquids by vibrational spectroscopy</i>
P-86	Inês C. M. Vaz	<i>Absorption of hydrocarbon gases in phosphorous-containing ionic liquids</i>
P-88	Ana M. Ferreira	<i>Are zwitterionic compounds analogous to ionic liquids a pathway as alternative hydrotropes?</i>
P-90	Héctor Rodríguez	<i>Chemical absorption of carbon dioxide in the equimolar mixture of two acetate ionic liquids</i>

P-92	Leila Moura	<i>Deep eutectic solvents as absorbents for biogas upgrading</i>
P-94	Junzhe Quan	<i>Forward osmosis with membrane distillation using tetrabutylphosphonium based LCST-type ionic liquid as osmotic agent for seawater desalination</i>
P-96	Jonatan Perez-Arce	<i>Halometallate ionic liquids as suitable solvents for polyolefins</i>
P-98	Nicolas Schaeffer	<i>Hydrophobic eutectic solvents for metal recovery from spent lithium-ion batteries</i>
P-100	Mark Young	<i>Hydrophobic low melting mixtures for biogas upgrading</i>
P-102	Surya Chandra Tiwari	<i>Kinetics modelling and thermodynamics study of dual functionalized ionic liquid blend methyl diethanolamine system for CO₂ capture</i>
P-104	Sanskrita Madhukailya	<i>LCST behaviour in aqueous mixtures of 5-phenyltetrazolate ionic liquids</i>
P-106	Bruna Silva Soares	<i>Screening ILs based on mixed-gas permeability at various partial pressures and CO₂/O₂ compositions for oxygenation membranes</i>
P-108	Naoki Wada	<i>Separation of 1-ethyl-3-methylimidazolium acetate and acetic acid with the aid of protic solvents</i>
P-110	Dionysios Vroulias	<i>Water vapor/gas separation performance of supported ionic liquid membranes: effect of the anion</i>
P-112	Vinicius Piccoli	<i>Protein solvation by aqueous ionic liquids: a study using the minimum-distance distributions functions and the Kirkwood–Buff theory</i>
P-114	Tom Frömbgen	<i>Best practices for analyzing ionic liquid trajectories</i>
P-116	András Szabadi	<i>Collectivity in ionic liquids: a temperature dependent, polarizable molecular dynamics study</i>
P-118	Alejandro Rivera-Pousa	<i>Computational study of the structure of ternary ionic liquid/salt/polymer electrolytes based on ionic liquids</i>
P-120	Anne Hockmann	<i>Enhancing Li⁺ transference number by the formation of clusters with heterogeneous Li⁺ coordination</i>
P-122	Jan Blasius	<i>How to obtain vibrational spectra of ionic liquids from molecular dynamics simulations</i>
P-124	Márta Gödény	<i>Investigating the transport of excess protons in a protic ionic liquid via polarizable molecular dynamics simulations</i>
P-126	Florian Jörg	<i>Protex – a python utility for proton exchange in molecular dynamics simulations</i>
P-128	Karina Shimizu	<i>The influence of metal-organic frameworks in the structure of ionic liquids near the interface</i>
P-130	Anna Karina Müller	<i>The influence of pressure on the carbon dioxide absorption in ionic liquids</i>