ILMAT 2023

U.PORTO

7TH INTERNATIONAL Conference on Ionic Liquid Based Materials

21st to 24th November 2023

Porto, Portugal
Instituto Pernambuco

PROGRAMME

Contact email: ilmat2023@chemistry.pt

Website: https://ilmat2023.events.chemistry.pt

PARTNERS AND SPONSORS

WELCOME

Welcome to the **ILMAT2023** | 7th International Conference on Ionic Liquid-Based Materials held in Porto, Portugal, from November 21st to November 24th, 2023.

ILMAT2023 is organized by the Faculty of Science of the University of Porto in partnership with the Portuguese Society of Chemistry (SPQ).

The technical sessions for **ILMAT2023** take place at the Instituto Pernambuco – Porto, providing an ideal venue for fruitful discussions and knowledge exchange among researchers and industry professionals in the field.

Instituto Pernambuco – Rua das Estrelas 143, 4150-762 Porto

ILMAT conference series

The International Conferences on Ionic Liquid-Based Materials (ILMAT) are well-established European conferences that focus on the properties and applications of ionic liquids. Previous conferences were successfully held in Vienna (2011), Montpellier (2013), Berlin (2015), Santiago de Compostela (2017), Paris (2019), and Alsace (2021).

This European conference is dedicated to the study of ionic fluids, with a strong emphasis on ionic liquids. It comprehensively covers a wide range of topics, including the physicochemical and biological properties of these substances, as well as their potential applications. In recent years, the remarkable potential applications of ionic liquids have captured the interest of researchers from various multidisciplinary fields such as chemistry, physics, biology, and materials engineering. These versatile substances possess exceptional properties that stem from their unique dual character as both ionic and molecular entities. As a result, they have emerged as ideal advanced materials for a diverse range of energy applications. The extensive research and utilization of ionic liquids in various domains have made significant contributions to the advancement of knowledge in this field.

ILMAT2023 presents an unparalleled opportunity for researchers worldwide who specialize in ionic liquids to showcase their latest achievements and exchange valuable experiences. By bringing together academic scientists from diverse regions of the world, this conference aims to provide a forum for discussing a wide range of materials and their properties and applications, with a particular emphasis on ionic liquids. The overarching goal is to foster scientific discussions and collaborations in a socially dynamic and intellectually stimulating atmosphere that will inspire new applications in the field of sustainable development.

Thank you for joining us in Porto!

COMMITTEES

Scientific Committee

Luís M. N. B. F. Santos – University of Porto, Portugal
Luís M. Varela – University of Santiago de Compostela, Spain
Oscar Cabeza – University of A Coruña, Spain
Margarida Bastos – University of Porto, Portugal
Eduardo F. Marques – University of Porto, Portugal
Margarida Costa Gomes – Ecole Normale Superieure de Lyon, France
Laurent Douce – University of Strasbourg, France

Local Organizing Committee

Luís M. N. B. F. Santos (Chair)
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Artur F. M. Farinha
Dmitriy Moreira
Rui Machado
Rita M. Carvalho
Nuno A. S. Dias

PROGRAMME

Tuesday, 21st November	
13:30 - 14:30	Registration
14:30 - 15:00	Welcome and Opening Ceremony
15:00 - 15:50	Plenary 1
15:50 - 16:20	Keynote 1
16:30 - 18:00	Welcome Reception

Wednesday, 22nd November	
09:00 - 09:30	Keynote 2
09:30 - 10:20	Plenary 2
10:20 - 10:45	Coffee Break
10:45 - 12:20	Oral Communications (Session 1)
12:30 - 14:00	Lunch
14:00 - 15:00	Posters Session A
15:00 - 15:30	Keynote 3
15:30 - 16:20	Plenary 3
16:20 - 16:45	Coffee Break
16:45 - 18:20	Oral Communications (Session 2)

Thursday, 23rd November	
09:00 - 09:30	Keynote 4
09:30 - 10:20	Plenary 4
10:20 - 10:45	Coffee Break
10:45 - 12:20	Oral Communications (Session 3)
12:30 - 14:00	Lunch
14:00 - 15:00	Posters Session B
15:00	Social Events
20:00	Conference Dinner

Friday, 24th November	
09:00 - 10:20	Oral Communications (Session 4)
10:20 - 10:45	Coffee Break
10:45 - 11:50	Oral Communications (Session 5)
11:50 - 12:00	Short Coffee Break
12:00 - 12:30	Keynote 5
12:30 - 13:20	Plenary 5 (LYNDEN-BELL award)
13:20 - 13:30	Closing Ceremony
13:30 - 15:00	Farewell Party

DAY 1
21st November, Tuesday

13:30 - 14:30	**Registration**
14:30 - 15:00	**Welcome and Opening Ceremony** (Room A) Pedro Alexandrino Fernandes (Department of Chemistry and Biochemistry, FCUP) Joaquim Faria (SPQ | Portuguese Society of Chemistry) Luís Santos (Chair of ILMAT2023)
15:00 - 16:20	**Lectures Session 1** (Room A) | Chairman: Luís Santos
15:00 - 15:50	**Plenary 1 (PL_1)** João Coutinho (University of Aveiro, Portugal) *Maximizing solubilities in aqueous solutions of ionic liquids*
15:50 - 16:20	**Keynote 1 (KL_1)** Andrea Mele (Politecnico di Milano, Italy) *Hydrophobic eutectic mixtures and eutectogels: structural and dynamic features*
16:30 - 18:00	**Welcome Reception**

DAY 2

22nd **November,** Wednesday

09:00 - 10:20	**Lectures Session 2** (Room A) | Chairman: Luis Varela	
09:00 - 09:30	**Keynote 2 (KL_2)** Christian Schröder (University of Vienna, Austria) *Charge and proton transfer in polarizable molecular dynamics simulations of ionic liquids*	
09:30 - 10:20	**Plenary 2 (PL_2)** Agilio Padua (École Normale Supérieure de Lyon, France) *Ionic liquids at interfaces with 2D and porous materials*	
10:20 - 10:45	**Coffee Break**	
10:45 - 12:20	**Oral Communications** (Session 1)	
	Room A (A1.1 - A1.6) Chairman: Oscar Cabeza	**Room B (B1.1 - B1.6)** Chairman: Svyatoslav Kondrat
10:45 - 11:05	**A1.1*** Vladislav Ivanistsev *Electrical double layer in ionic liquids: structures, potentials, and applications*	**B1.1*** Tom Frömbgen *Chirality transfer and enantiomeric recognition in chiral ionic liquids*
11:05 - 11:20	**A1.2** Oliwia Degórska *Immobilization of lipases with the hydrophobic ionic liquids as effective biocatalysts in the resolution of ibuprofen ester*	**B1.2** Pablo Martínez-Crespo *Effect of DMSO concentration in the bulk and interfacial molecular dynamics of protic and aprotic ionic liquid-lithium salt mixture electrolytes*
11:20 - 11:35	**A1.3** Murilo L. Alcantara *Advancing membrane-free batteries: a COSMO-RS analysis of viologen derivatives*	**B1.3** Tuanan C. Lourenço *Elucidating ion-pairing in ionic liquids and their salt mixtures from theoretical calculations*

11:35 - 11:50	**A1.4** Giorgia Mannucci *Structural characterization of the $NiCl_2$·$6H_2O$:Urea 1:3.5 metal based deep eutectic solvents: a combined experimental and theoretical study*	**B1.4** Iuliia V. Voroshylova *Molecular dynamics simulation of surface charge screening in ionic liquids mixtures: competition of ions*
11:50 - 12:05	**A1.5** Fábio M. S. Costa *Bridging chemistry and biology: synthesis, characterization, and biological profile of fluoroquinolone-based GUMBOS*	**B1.5** Hadrián Montes-Campos *NeuralIL, a neural network-based force field for ionic liquid simulations*
12:05 - 12:20	**A1.6** Olga Russina *Water-based DES*	**B1.6** Hugo Marques *Nanostructure and solubility of carbon dioxide in ionic liquids*
12:30 - 14:00	**Lunch**	

* Highlighted talk

14:00 - 15:00	**Posters Session A**
15:00 - 16:20	**Lectures Session 3** (Room A) | Chairman: Olga Russina
15:00 - 15:30	**Keynote 3 (KL_3)** Trinidad Mendez Morales (University of Santiago de Compostela, Spain) *Computational modeling of ionic liquids in nanoconfinement*
15:30 - 16:20	**Plenary 3 (PL_3)** Anna Martinelli (Chalmers University of Technology, Sweden) *Protic ionic liquids. structure, dynamics, and new cations!*

16:20 - 16:45	**Coffee Break**	
16:45 - 18:20	**Oral Communications** (session 2)	
	Room A (A2.1 - A2.6) Chairman: Andrea Mele	**Room B (B2.1 - B2.6)** Chairman: Pedro Carvalho
16:45 - 17:05	**A2.1*** Leila Moura *Tools for screening solubility and understanding interactions in ionic liquids*	**B2.1*** Luís Branco *Development and application of task-specific ionic liquid crystals*
17:05 - 17:20	**A2.2** Eva Dahlqvist *Functionalization of imidazole with electron withdrawing groups for the synthesis of new acidic protic ionic liquids*	**B2.2** Oriele Palumbo *Understanding the 1:2 CAGE analogs properties*
17:20 - 11:35	**A2.3** Juan J. Parajó *Enthalpy of solvation of alkali metal salts in a protic ionic liquid: Effect of cation charge and size*	**B2.3** Oscar Rodríguez *Ionic liquids as extraction solvents for citrus oil deterpenation*
17:35 - 17:50	**A2.4** J. Mark Young *Hydrophobic low melting mixtures for biogas upgrading*	**B2.4** Aline Zambom *Ionic liquids as mass separation agents in terpenes separation processes*
17:50 - 18:05	**A2.5** Nicole Abdou *Transport and mechanical properties of methacrylate-based ionogels designed for use as structural battery electrolyte*	**B2.5** Olga Ferreira *Solubility enhancement of hydrophobic compounds in aqueous solutions using eutectic solvents or ionic liquids*
18:05 - 18:20	**A2.6** Oscar Cabeza *Strange behavior of the transport properties of ethyl ammonium nitrate (EAN) binary mixtures with organic solvents*	**B2.6** Mónia A. R. Martins *In silico COSMO-RS predictive screening of green solvents for lupin debittering*

* Highlighted talk

DAY 3

23rd November, Thursday

09:00 - 10:20	**Lectures Session 4** (Room A) | Chairman: Laurent Douce
09:00 - 09:30	**Keynote 4 (KL_4)** Andreas Taubert (University of Potsdam, Germany) *Metal-based ionic liquids: a highly flexible toolbox for materials design*
09:30 - 10:20	**Plenary 4 (PL_4)** Yuji Matsumoto (Tohoku University, Japan) *Nano science and engineering of ionic liquids with vacuum technology*
10:20 - 10:45	**Coffee Break**
10:45 - 12:20	**Oral Communications** (session 3)

	Room A (A3.1 - A3.6) Chairman: Luís Branco	**Room B (B3.1 - B3.6)** Chairman: Eduardo Marques
10:45 - 11:05	**A3.1*** Laurent Douce *Luminescent ionic materials for use as tools in biology and for physics to detect Neutron radiation*	**B3.1*** Eduards Bakis *Copper-catalyzed click reactions in ionic liquids*
11:05 - 11:20	**A3.2** Sónia N. Pedro *Switchable adhesive films loaded with a deep eutectic solvent-photosensitizer formulation for the treatment of drug-resistant skin infections*	**B3.2** Sergei B. Glavatskih *An ionic element in lubricating greases: what are the implications?*

11:20 - 11:35	**A3.3** Matteo Palluzzi *Innovative oxalatoborate-based ionic liquids for electrochemical applications: greener synthesis and combined experimental-theoretical characterization*	**B3.3** Renata Costa *Green energy storage: supercapacitors with sustainable solid-state electrolytes and marine waste biocarbon electrodes*
11:35 - 11:50	**A3.4** Nicolas Schaeffer *Selective precipitation of gold from an aqua regia leachate of e-waste using a quaternary ammonium ionic liquid*	**B3.4** Takafumi Hanada *Exploring the unique extraction behaviors of critical metals by hydrophobic eutectic solvents: comparison with diluted systems*
11:50 - 12:05	**A3.5** J. Duchet-Rumeau *Combination of ionic liquids and polymers for designing new generation of ionomers*	**B3.5** Liis Siinor *The importance of applying different characterization methods for studying organic adlayers at the electrode | ionic liquid interface*
12:05 - 12:20	**A3.6** Jean-François Gérard *Ionic liquids as healing agents for polymer-based materials*	**B3.6** Simone Di Muzio *Mixtures of ionic liquids and natural organic acids as example of deep eutectic solvents: experimental and computational characterization*

12:30 - 14:00	**Lunch**
14:00 - 15:00	**Posters Session B**
15:00	**Social Events**
20:00	**Conference Dinner**

* Highlighted talk

DAY 4

24th November, Friday

09:00 - 10:20	**Oral Communications** (session 4)	
	Room A (A4.1 - A4.5) Chairman: Mara Freire	**Room B (B4.1 - B4.5)** Chairman: Vladislav Ivanistsev
09:00 - 09:20	**A4.1*** Margarida Costa Gomes *Sustainable pathways to develop porous ionic liquids from common materials*	**B4.1*** Svyatoslav Kondrat *The role of quantum capacitance in capacitive energy storage with nanoporous electrodes: Can less be more?*
09:20 - 09:35	**A4.2** Liliana P. Silva *Encapsulated amino acid-based ionic liquid for CO_2 separation membranes*	**B4.2** Ranisha S. Sitlapersad *Charging and discharging of super-capacitors in molecular simulations*
09:35 - 09:50	**A4.3** Isabella Souza *Novel technology for indoor air quality: ionic liquids in carbonaceous sub-microcapsules into polymeric hollow fiber membranes*	**B4.3** Raúl Lois-Cuns *Hybrid water-in-salt electrolytes: a computational study*
09:50 - 10:05	**A4.4** N. Scaglione *Tuning of the CO_2 absorption by reactive phosphonium-carboxylate ionic liquids (ILs)*	**B4.4** M. Otero-Lema *Size matters: A computational study of hydrogen solvation in ionic liquids*
10:05 - 10:20	**A4.5** Carlos Miranda *New setup for the measurement of the electrical conductivity of ionic fluids: exploring the nanostructuration in ionic liquids*	**B4.5** A. Rivera-Pousa *Ternary solid polymer electrolytes at the electrochemical interface: a computational study*
10:20 - 10:45	**Coffee Break**	

10:45 - 11:50	**Oral Communications** (session 5)	
	Room A (A5.1 - A5.4) Chairman: Margarida Costa Gomes	**Room B (B5.1 - B5.4)** Chairman: Nicolas Schaeffer
10:45 - 11:05	**A5.1*** Helena Passos *Recovering valuable and critical metals from e-waste through innovative hydrometallurgical systems*	**B5.1*** Inês Vaz *Enthalpy of mixing of an alcohol + IL binary mixture - the signature of the different structuration regimes*
11:05 - 11:20	**A5.2** Sébastien Livi *Design for disassembly of composites and thermoset by using cleavable ionic liquid monomers as molecular building blocks*	**B5.2** Mariam Kholany *Ultrasound-assisted extraction of bacteriorhodopsin from halobacterium salinarum using superbase ILs: A green and efficient approach*
11:20 - 11:35	**A5.3** Filipe H. B. Sosa *The challenge of recovering superbase ionic liquids from aqueous solution*	**B5.3** Ana Júlio *Are ionic liquids key materials in the development of controlled drug delivery systems?*
11:35 - 11:50	**A5.4** Andreia A. Rosatella *Emerging photoswitchable materials based on ionic liquids*	**B5.4** João C. F. Nunes *Supported ionic liquid materials as portable colorimetric sensors for L-asparagine detection*

* Highlighted talk

11:50 - 12:00	Short **Coffee Break**
12:00 - 13:20	**Lectures Session 5** (Room A)
12:00 - 12:30	**Keynote 5 (KL_5)** | Chairman: Margarida Bastos Simão Pinho (Instituto Politécnico de Bragança, Portugal) *Choline chloride thermophysical and phase change studies: relevance for the representation of eutectic systems*
12:30 - 13:20	**Plenary 5 (PL_5)** **LYNDEN-BELL award** | Chairman: Luís Varela Alessandro Triolo (Istituto Struttura della Materia, Consiglio Nazionale delle Ricerche (CNR), Rome, Italy) *The mesoscopic landscape in Ionic liquid-based materials*
13:20 - 13:30	**Closing Ceremony** (Room A) Luís Santos; Luís Varela; Olga Russina (ILMAT 2025)
13:30 - 15:00	**Farewell Party**

LIST OF COMMUNICATIONS

Plenary Lectures

PL_1	**Maximizing solubilities in aqueous solutions of ionic liquids** João A. P. Coutinho
PL_2	**Ionic liquids at interfaces with 2D and porous materials** Agilio Padua, Zheng Gong, Mirella Simões Santos, Leila Bou Tannous, Audrey Steinberger, Ryan Clark, Chiara Corsini, Margarida Costa Gomes
PL_3	**Protic ionic liquids. Structure, dynamics, and new cations!** Anna Martinelli
PL_4	**Nanoscience and engineering of ionic liquids with vacuum technology** Yuji Matsumoto
PL_5	**The mesoscopic landscape in Ionic liquid-based materials** Alessandro Triolo, Olga Russina

Keynote Lectures

KL_1	**Hydrophobic eutectic mixtures and eutectogels: structural and dynamic features** Andrea Mele
KL_2	**Charge and proton transfer in polarizable molecular dynamics simulations of ionic liquids** Christian Schröder
KL_3	**Computational modeling of ionic liquids in nanoconfinement** Trinidad Méndez-Morales, Hadrián Montes-Campos, Luis M. Varela
KL_4	**Metal-based ionic liquids: a highly flexible toolbox for materials design** Andreas Taubert
KL_5	**Choline chloride thermophysical and phase change studies: relevance for the representation of eutectic systems** Simão. P. Pinho

Oral Communications

O_A1.1*	**Electrical double layer in ionic liquids: structures, potentials, and applications** Vladislav B. Ivaništšev, Heigo Ers, Ritums Cepitis, Iuliia V. Voroshylova
O_A1.2	**Immobilization of lipases with the hydrophobic ionic liquids as effective biocatalysts in the resolution of ibuprofen ester** Oliwia Degórska, Daria Szada, Jakub Zdarta
O_A1.3	**Advancing membrane-free batteries: A COSMO-RS analysis of viologen derivatives** Murilo L. Alcantara, Catarina M. S. S. Neves, Paula Navalpotro, Rubén Rubio-Presa, Edgar Ventosa, Rebeca Marcilla, João Coutinho
O_A1.4	**Structural characterization of the $NiCl_2 \cdot 6H_2O$:urea 1:3.5 metal-based deep eutectic solvents: a combined experimental and theoretical study** Giorgia Mannucci, Matteo Busato, Alessandro Tofoni, Francesco Tavani, Alessandra Del Giudice, Andrea Colella, Mauro Giustini and Paola D'Angelo
O_A1.5	**Bridging chemistry and biology: synthesis, characterization, and biological profile of fluoroquinolone-based GUMBOS** Fábio M. S. Costa, Andreia Granja, Rocío L. Pérez, Isiah M. Warner, Salette Reis, Marieta L. C. Passos, M. Lúcia M. F. S. Saraiva
O_A1.6	**Water-based DES** Alessandro Triolo, Emanuela Mangiacapre, Ahmad Alhadid, Fabrizio Lo Celso, Olga Russina
O_A2.1*	**Tools for screening solubility and understanding interactions in ionic liquids** J. Mark Young, Sam McCalmont, Sophie Fourmentin, Panagiotis Manesiotis, Margarida Costa Gomes, David Wilkins, John D. Holbreya, Leila Moura
O_A2.2	**Functionalization of imidazole with electron-withdrawing groups for the synthesis of new acidic protic ionic liquids** Eva Dahlqvist, Eduardo Maurina Morais and Anna Martinelli
O_A2.3	**Enthalpy of solvation of alkali metal salts in a protic ionic liquid: Effect of cation charge and size** Juan J. Parajó, Ana I. M. C. L. Lobo Ferreira, Jose M. Otero-Mato, J. Salgado, Luis M. Varela, Luís M. N. B. F. Santos

O_A2.4	**Hydrophobic low melting mixtures for biogas upgrading** J. Mark Young, John D. Holbrey, Sophie Fourmentin, Leila Moura
O_A2.5	**Transport and mechanical properties of methacrylate-based ionogels designed for use as structural battery electrolyte** Nicole Abdou, Achilleas Pipertzis, Johanna Xu, Leif E Asp, Jan Swenson and Anna Martinelli
O_A2.6	**Strange behavior of the transport properties of ethyl ammonium nitrate (EAN) binary mixtures with organic solvents** Rubén Rivera, Esther Rilo, Luis Miguel Varela, Oscar Cabeza
O_A3.1*	**Luminescent ionic materials for use as tools in biology and for physics to detect Neutron radiation** Laurent Douce, Nicolas del Giudice, Romain Berthiot and Louise Stuttgé
O_A3.2	**Switchable adhesive films loaded with a deep eutectic solvent-photosensitizer formulation for the treatment of drug-resistant skin infections** Sónia N. Pedro, Bruno F.A. Valente, Carla Vilela, Helena Oliveira, Adelaide Almeida, Mara G. Freire, Armando J. D. Silvestre, Carmen S.R. Freire
O_A3.3	**Innovative oxalatoborate-based ionic liquids for electrochemical applications: greener synthesis and combined experimental-theoretical characterization** Matteo Palluzzi, Giorgia Mannucci, Akiko Tsurumaki, Matteo Busato, Maria Assunta Navarra, Paola D'Angelo
O_A3.4	**Selective precipitation of gold from an aqua regia leachate of e-waste using a quaternary ammonium ionic liquid** André F.M. Nogueira, Ana R. F. Carreira, Sílvia J.R. Vargas, Paula Brandão, Helena Passos, Nicolas Schaeffer and João A.P. Coutinho
O_A3.5	**Combination of Ionic liquids and polymers for designing new generation of ionomers** L. Hou, S. Livi, J. F. Gérard, J. Duchet-Rumeau
O_A3.6	**Ionic liquids as healing agents for polymer-based materials** Shi Ting, Sébastien Livi, Jannick Duchet-Rumeau, Jean-François Gérard
O_A4.1*	**Sustainable pathways to develop porous ionic liquids from common materials** M. Costa Gomes, J. Avila, C. Corsini, C.M. Correa, M. Rosenthal, A. Padua

O_A4.2	**Encapsulated amino acid-based ionic liquid for CO_2 separation membranes** Liliana P. Silva, Eyad Qasem, Lakshmeesha Upadhyaya, Rebecca Esposito, Radosław Górecki, João A. P. Coutinho, Pedro J. Carvalho, and Suzana P. Nunes
O_A4.3	**Novel technology for indoor air quality: ionic liquids in carbonaceous sub-microcapsules into polymeric hollow fiber membranes** Isabella M. G. de Souza, Mohammad Hadi Nematollahi, Ricardo T. Pais, Liliana P. Silva, Pedro J. Carvalho
O_A4.4	**Tuning of the CO_2 absorption by reactive phosphonium-carboxylate ionic liquids (ILs)** N. Scaglione, A. Padua, and M. Costa Gomes
O_A4.5	**New setup for the measurement of the electrical conductivity of ionic fluids: exploring the nanostructuration in ionic liquids** Carlos F. P. Miranda, Luís M. N. B. F. Santos
O_A5.1*	**Recovering valuable and critical metals from e-waste through innovative hydrometallurgical systems** Helena Passos, Nicolas Shaeffer, João A. P. Coutinho
O_A5.2	**Design for disassembly of composites and thermoset by using cleavable ionic liquid monomers as molecular building blocks** Gabriel Perli, Jean-François Gérard, Jannick Duchet-Rumeau, Sébastien Livi
O_A5.3	**The challenge of recovering superbase ionic liquids from aqueous solution** Filipe H. B. Sosa, Pedro J. Carvalho and João A. P. Coutinho
O_A5.4	**Emerging photoswitchable materials based on ionic liquids** Andreia A. Rosatella, Joana Belo, Rafaela A. L. Silva, Mara M. Nunes, Vera Isca, Patrícia Rijo, Joana Marto, Carlos Afonso
O_B1.1*	**Chirality transfer and enantiomeric recognition in chiral ionic liquids** Tom Frömbgen, J. Blasius, P. Zaby, O. Hollóczki, and Barbara Kirchner
O_B1.2	**Effect of DMSO concentration in the bulk and interfacial molecular dynamics of protic and aprotic ionic liquid-lithium salt mixture electrolytes** Pablo Martínez-Crespo, Martín Otero-Lema, Trinidad Méndez-Morales, Hadrián Montes-Campos, Luis M. Varela

O_B1.3	**Elucidating ion-pairing in ionic liquids and their salt mixtures from theoretical calculations** Tuanan C. Lourenço, Tom Frömbgen, Vahideh Alizadeh, Paul Zaby, Juarez L. F. Da Silva, Barbara Kirchner
O_B1.4	**Molecular dynamics simulation of surface charge screening in ionic liquids mixtures: competition of ions** Iuliia V. Voroshylova, Heigo Ers, Vladislav B. Ivaništšev, M. Natália D.S. Cordeiro
O_B1.5	**NeuralIL, a neural network-based force field for ionic liquid simulations** Hadrián Montes-Campos, Trinidad Méndez-Morales, Jesús Carrete Montaña, Luis Miguel Varela Cabo
O_B1.6	**Nanostructure and solubility of carbon dioxide in ionic liquids** Hugo Marques, José Nuno Canongia Lopes, Adilson Alves de Freitas, Karina Shimizu
O_B2.1*	**Development and application of task-specific ionic liquid crystals** Luis C. Branco, Andreia F. M. Santos, Maria H. Godinho, Madalena Dionísio
O_B2.2	**Understanding the 1:2 CAGE analogs properties** Oriele Palumbo, Ana Dobre, Simone Di Muzio, Annalisa Paolone, Tom Welton
O_B2.3	**Ionic liquids as extraction solvents for citrus oil deterpenation** Oscar Rodríguez, Roufaida Mahdi, Lebna Djari, Eva Rodil, Héctor Rodríguez
O_B2.4	**Ionic liquids as mass separation agents in terpenes separation processes** Aline Zambom, Sérgio Vilas-Boas, Mónia A. R. Martins, João A. P. Coutinho, Olga Ferreira, Simão P. Pinho
O_B2.5	**Solubility enhancement of hydrophobic compounds in aqueous solutions using eutectic solvents or ionic liquids** Olga Ferreira, Liliana P. Silva, Heloísa Almeida, Jordana Benfica, Dinis O. Abranches, Simão P. Pinho, João A. P. Coutinho
O_B2.6	**In silico COSMO-RS predictive screening of green solvents for lupin debittering** Mónia A. R. Martins, Nathan Z. Barbosa, Filipe H. B. Sosa, João A. P. Coutinho, Miao Yu, Rob J. F. van Haren, Olga Ferreira, Simão P. Pinho

O_B3.1*	**Copper-catalyzed click reactions in ionic liquids** Eduards Bakis, Diana Sloboda, Cameron C. Weber
O_B3.2	**An ionic element in lubricating greases: what are the implications?** Sergei B. Glavatskih
O_B3.3	**Green energy storage: supercapacitors with sustainable solid-state electrolytes and marine waste biocarbon electrodes** Renata Costa, Ana T. S. C. Brandão, Sabrina Rosoiu-State, José A. Vázquez, Jesus Valcarcel, Juan J. Parajó, A. Fernando Silva, Liana Anicai, Marius Enachescu, Carlos M. Pereira
O_B3.4	**Exploring the unique extraction behaviors of critical metals by hydrophobic eutectic solvents: comparison with diluted systems** Takafumi Hanada, Takahiro Shima, Nicolas Schaeffer, Masahiro Katoh, Masahiro Goto, Joao A.P. Coutinho
O_B3.5	**The importance of applying different characterization methods for studying organic adlayers at the electrode | ionic liquid interface** Liis Siinor, Heigo Ers, Piret Pikma
O_B3.6	**Mixtures of ionic liquids and natural organic acids as an example of deep eutectic solvents: experimental and computational characterization** Simone Di Muzio, Oriele Palumbo, Francesco Trequattrini, Annalisa Paolone
O_B4.1*	**The role of quantum capacitance in capacitive energy storage with nanoporous electrodes: Can less be more?** Svyatoslav Kondrat, Taras Verkholyak, Andrij Kuzmak, Alexei Kornyshev
O_B4.2	**Charging and discharging of supercapacitors in molecular simulations** Ranisha S. Sitlapersad, Anthony R. Thornton, and Wouter K. den Otter
O_B4.3	**Hybrid water-in-salt electrolytes: A computational study** Raúl Lois-Cuns, Martín Otero-Lema, Alejandro Rivera-Pousa, Pablo Martínez-Crespo, Juan J. Parajó, Hadrián Montes-Campos, Trinidad Méndez-Morales, Luis M. Varela
O_B4.4	**Size Matters: A computational study of hydrogen solvation in ionic liquids** M. Otero-Lema, A. Rivera-Pousa, R. Lois-Cuns, H. Montes-Campos, T. Méndez-Morales, and L. M. Varela

O_B4.5	**Ternary solid polymer electrolytes at the electrochemical interface: a computational study** A. Rivera-Pousa, J. M. Otero-Mato, H. Montes-Campos, T. Méndez-Morales, D. Diddens, A. Heuer, and L. M. Varela
O_B5.1*	**Enthalpy of mixing of an alcohol + IL binary mixture - the signature of the different structuration regimes** Inês C. M. Vaz, Luís M. N. B. F. Santos
O_B5.2	**Ultrasound-assisted extraction of bacteriorhodopsin from halobacterium salinarum using superbase ILs: a green and efficient approach** Mariam Kholany, Meena Bisht, Inês P. E. Macário, Telma Veloso, Filipe H. B. Sosa, Sergei V. Kalenov, João A. P. Coutinho, Sónia P. M. Ventura
O_B5.3	**Are ionic liquids key materials in the development of controlled drug delivery systems?** Ana Júlio, Rossana Roque, Anaisa Sultane, Andreia Reis, Inês Martins, Marta Martins, Teresa Martinho, Ana S. Viana, Nuno Saraiva, João G. Costa, Catarina Rosado, Joana P. Mota, Tânia Santos de Almeida, Catarina Pereira-Leite
O_B5.4	**Supported ionic liquid materials as portable colorimetric sensors for L-asparagine detection** João C. F. Nunes, Márcia C. Neves, Mara G. Freire, Ana P. M. Tavares

*Highlighted talks

Poster Communications

P_A1.1	**Solvent-catalyst optimization of ionic liquid-based CO_2 conversion to propylene carbonate: Laboratory validation and techno-economic analysis** Rubén Santiago, Elisa Hernández, Alejandro Belinchón, Cristian Moya, Pablo Navarro, José Palomar
P_A1.2	**Efficient recyclability of amine-free CO_2 sorbent based on a solid-supported ionic liquid** M. Yousefe, A. Puga
P_A1.3	**Improving CO_2 solubility using [C_4C_1im][DMP] + carboxylate-based protic ionic liquids mixtures** Ricardo T. Pais, Liliana P. Silva, Ana C. Sousa, Pedro J. Carvalho
P_A1.4	**Use of polysulfone and n-methylpyrrolidone for preparation of polymeric membranes** Suzanna R. C. A. Sousa, Amanda M. D. Leite, Késia K. O. S. Silva
P_A1.5	**Liquid crystalline phases in fluorinated ionic liquids with surfactant-based anions** Gonçalo M. C. Silva, Tiago M. Eusébio, Pedro Morgado, Eduardo J. M. Filipe
P_A2.1	**Biosorbents modified with deep eutectic solvents for biogas purification** Patrycja Makoś-Chełstowska, Edyta Słupek, Patrycja Janicka, Dominika Sikorska, Jacek Gębicki
P_A2.2	**Optimization of collagen extraction, purification, and scale-up via DES** Abolfazl Keshmirshekan, Gabriela Kovaleski, Sónia P.M Ventura
P_A2.3	**A green separation of rare-earth elements from spent NdFeB permanent magnets using organic acid and eutectic solvent** Thaís S. Soares and Maria C. Hespanhol
P_A2.4	**Ultrathin films of [C_1C_1Im][Tf_2N] on Au(111) and Pt(111) – adsorption and thermal behavior studied by ARXPS** Timo Talwar, Stephen Massicot, Afra Gezmis, Jade Barreto, Leonhard Winter, Cynthia C. Fernández, Manuel Meusel, Andreas Bayer, Florian Maier, and Hans-Peter Steinrück

P_A2.5	**Interfacial nanostructure and wetting behavior of ionic liquid mixture films on solid surfaces** Soraia R. M. R. Silva, Rita M. Carvalho, Margarida Bastos, Luís M. N. B. F. Santos, and José C. S. Costa
P_A3.1	**Anion effect on the thermophysical behavior of alkylsilane-based ionic liquids** Rodrigo M. A. Silva, Eduards Bakis, Ana I. M. C. Lobo Ferreira, Luís M. N. B. F. Santos
P_A3.2	**Calorimetric and crystallographic phase-behavior study of selected 1 butylpyridinium ionic liquids** Štefan Kocian, Vojtěch Štejfa, Jan Rohlíček and Ctirad Červinka
P_A3.3	**On thermal stability of amine and carboxylic acid-based protic ionic liquids** Liisa-Maria Kaljusmaa, Jasper Adamson, Oliver Järvik
P_A3.4	**Thermodynamic study of a mixture of two tertiary alcohols - A pathway for the design of type V deep eutectic solvents** Inês C. M. Vaz, Ana I. M. C. Lobo Ferreira, Gonçalo M. C. Silva, Pedro Morgado, Dinis O. Abranches, Margarida Bastos, Luís M. N. B. F. Santos, Eduardo J. M. Filipe, João A. P. Coutinho
P_A4.1	**Deposition and surface dynamics of ionic liquids in confined spaces** Artur F. M. Farinha, Luís M. N. B. F. Santos, and José C. S. Costa
P_A4.2	**EMI TFSI effects on structural and mechanical properties of a composite material based on graphene oxide aerogels** Ploumistos Alexandros, Da Costa Romane, Fernandes Francisco, Porras-Gutierrez Ana-Gabriela, Rollet Anne-Laure, Sirieix-Plénet Juliette, Gaillon Laurent, Rizzi Cécile
P_A4.3	**Unlocking plastic recycling: exploring eutectic solvents for selective polymer dissolution by COSMO-RS** Ana M. Ferreira, José Pedro Wojeicchowsk, João T. S. Martins, Mariana I. S. Aguiar, Simão Vidinha Pandeirada, João A. P. Coutinho, Andreia F. Sousa
P_A4.4	**The adsorption and self-assembly of organics' from ionic liquid electrolyte** Heigo Ers, Liis Siinor, Piret Pikma
P_A5.1	**Poly(ionic liquid) compounds as multifunctional cement additives** Anna Wolny, Alina Brzęczek-Szafran, Paulina Maksym, Anna Chrobok

P_A5.2	**Triblock copolymers as versatile constituents of double stimuli-responsive ionic-liquid-based aqueous biphasic systems** Ana F. C. S. Rufino, Sara C. Ribeiro, Márcia C. Neves, João A.P. Coutinho, Francisca A. e Silva, Mara G. Freire
P_A5.3	**Novel ionic liquid-based aqueous biphasic system for the selective recovery of platinum group metals from spent automotive catalytic converters** Flavia N. Braga, Filipe H. B. Sosa, Nicolas Schaeffer, Helena Passos, João A.P. Coutinho
P_A5.4	**Association and coacervation of stimuli-responsive host-guest complexes driven by ionic interactions** Dmitriy Moreira, Pedro Mateus, Isabel Oliveira, Eduardo F. Marques, Nuno Basílio
P_A5.5	**Efficient decontamination of chemical warfare agents by ionic liquids** Rafaela A. L. Silva, Inês Cruz, Tiago Gonçalves, Pedro Neto, Paula Lopes, Vânia Tira-Picos, Carlos A. M. Afonso, Andreia Rosatella
P_B1.1	**Optimal cationic structure of acidic ionic liquids for synthesis of porphyrins** Satoshi Kitaoka, Maho Motohiro, Kaoru Nobuoka
P_B1.2	**Selective extraction of naringin and rutin from orange peels using aqueous solutions of biobased ionic liquids** Inês S. Cardoso, Aminou Mohamadou, Armando J. D. Silvestre, Mara G. Freire
P_B1.3	**Ionothermal syntheses of cluster-based tellurido mercurates** Mirko Tallu, Stefanie Dehnen
P_B1.4	**Solvent recovery in the process of deterpenation of citrus essential oils by liquid-liquid extraction with the ionic liquid 1-ethyl-3methylimidazolium acetate** Oscar Rodríguez, Abdeldjalil Yahia-Bey, Héctor Rodríguez, Eva Rodil
P_B1.5	**Synthesis and physicochemical characterization of antimalarial surface-active ionic liquids** Ana Teresa Silva, Isabel Oliveira, Ricardo Ferraz, Eduardo F. Marques, Paula Gomes

P_B2.1	**Influence of deposition rate on the nucleation and growth of ionic liquid films** Rita M. Carvalho, Soraia R. M. R. Silva, Cândida G. Neto, Luís M. N. B. F. Santos, Margarida Bastos, and José C. S. Costa
P_B2.2	**Ultrathin ionic liquid films tailor the selectivity of 1,3-butadiene versus 1-butene adsorption on Pt(111)** Cynthia C. Fernández, Leonhard Winter, Simon Trzeciak, Stephen Massicot, Timo Talwar, Afra Gezmis, Florian Maier, Dirk Zahn, Hans-Peter Steinrück
P_B2.3	**Enhancing solubility of hydrophobic compounds: exploring zwitterionic compounds as alternative hydrotropes** Ana M. Ferreira, Ana S. Pinto, Brayan Cruz, Dinis O. Abranches, Helena Passos, Kosuke Kuroda and João A.P. Coutinho
P_B2.4	**Exploring DASA stability in ionic liquids** Mara Nunes, Rafaela A. L. Silva, Catarina Cipriano, Carlos A. M. Afonso, Andreia Rosatella
P_B2.5	**New protic ionic liquids as lubricant additives for nano and microelectromechanical systems** Luís C. Branco, Mariana T. Donato, Jonas Deuermeier, Rogério Colaço and Benilde Saramago
P_B3.1	**Systematic study on the electrical conductivity and viscosity of imidazolium and pyrrolidinium-based ionic liquids** Carlos F. P. Miranda, Luís M. N. B. F. Santos
P_B3.2	**How electrode and membrane thicknesses affect capacitive energy storage with nanoporous supercapacitors** Daniele Paolini, Taras Verkholyak, Andrij Kuzmak, Svyatoslav Kondrat
P_B3.3	**Self-assembly phenomena in deep eutectic solvents: a systematic molecular simulation study** Gonçalo M. C. Silva, João A. P. Coutinho
P_B3.4	**Exploring the impact of sodium salts on the hydrotropic solubilization** Jordana Benfica, Afonso Cerqueira Martins, Germán Peréz-Sanchéz, Seishi Shimizu, Nicolas Schaeffer, João A.P. Coutinho

P_B3.5	**Exploring chain length mismatch and structural isomerism on thermotropic ionic liquid crystals from lysine-based surfactants** Isabel S. Oliveira, Maria J. Araújo, E. F. Marques
P_B4.1	**Size effects of binary cation ionic liquid mixtures on capacitive energy storage** Anna Seltmann, Taras Verkholyak, Dariusz Gołowicz, Emmanuel Pameté, Andrij Kuzmak, Volker Presser, Svyatoslav Kondrat
P_B4.2	**Using aqueous biphasic systems as membrane-free redox flow batteries** Catarina M. S. S. Neves, Marco Prazeres, Murilo L. Alcantara, Paula Navalpotro, Rebeca Marcilla, João A. P. Coutinho
P_B4.3	**Electric double-layer structure of salt-in-protic ionic-liquid ethylammonium nitrate doped with lithium** Juan J. Parajó, Trinidad Méndez Morales, Pablo Vallet, Hadrián Montes, Josefa Salgado, María Villanueva, Antia Santiago, Luis M. Varela, Carlos M. Pereira, Ana T. S. C. Brandao, A. Fernando Silva, Renata Costa
P_B4.4	**Formation and stabilization of metal nanoparticles in ionic liquid films** Alexandre C. P. M. Alves, Luís M. N. B. F. Santos, Margarida Bastos, and José C. S. Costa
P_B4.5	**Ionic liquids-carbon scaffolding materials for fluids exchange** Abobakr K. Ziyada, Ahmed M. Abdelmagid, Fahd Rajab, Abdelbagi Osman
P_B5.1	**Vesicles from cationic/anionic (catanionic) surfactant mixtures based on lysine derivatives: self-assembly and encapsulation of a bioactive molecule** Rui L. Machado, Andreia C. Gomes, Maria J. Araújo, Eduardo F. Marques
P_B5.2	**Keratin recovery using ionic liquids and its application for biofilm processing** Cariny Polesca, Helena Passos, Bruno M. Neves, Jason P. Hallett, João A. P. Coutinho, Mara G. Freire

P_B5.3	**Application of ionic-liquid-based aqueous biphasic systems in the extraction and purification of prostate-specific antigen from human serum** Marguerita E. Rosa, Maria S. M. Mendes, Ana P. M. Tavares, João A. P. Coutinho, Mara G. Freire, Francisca A. e Silva
P_B5.4	**Design of ionic liquids as solvents for the materialization of biopolymers** Kaoru Nobuoka, Satoshi Kitaoka
P_B5.5	**Removal of estrogens in an enzymatic membrane reactor using ionic liquids as reaction stabilizers** Oliwia Degórska, Weronika Badzińska, Jakub Zdarta

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SOCIAL EVENTS

23rd November, Thursday

Discover the Elegance of Burmester Wine Cellars

Time: Guided tours and tastings will be conducted in two groups, starting at 17:30 and 17:45.
Location: Largo Ponte Luiz I, Porto

Embark on a guided tour through the captivating Cave, where the legacy of Burmester's wines comes to life. Delight your senses with a curated tasting of two exquisite Port wines, each sip a testament to the craftsmanship that defines Burmester. This exclusive event offers a unique opportunity to savor world-class wines in a setting that seamlessly blends tradition and modernity.

https://burmester.pt/en/caves/

Conference Dinner

Time: 20:00
Location: Torreão Restaurant|Bar, Rua das Virtudes, 37 – Porto

https://www.torreao.pt/

Seize the opportunity to connect and forge meaningful relationships with fellow ILMAT participants at the **ILMAT2023** Conference Dinner, hosted at the charming Torreão Restaurant|Bar.

Highlights:

Networking: Immerse yourself in a convivial atmosphere ideal for networking and establishing connections with professionals in your field.

Gourmet Experience: Indulge in a delightful culinary journey curated by Torreão Restaurant|Bar, known for its exquisite dishes and warm ambiance.

Social Impact: Owned by SAOM, the restaurant actively contributes to social reintegration through its project, "Giving Meaning to Life." Since 2006, this initiative has been dedicated to dignifying and socially reintegrating homeless individuals. Profits from catering activities directly support this noble cause, aiming to enhance academic qualifications, provide rigorous training in the hospitality sector, and foster personal, social, and professional skills essential for sustained reintegration.

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