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# Fluid Phase Equilibria

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## Preface<sup>☆</sup>

The 5<sup>th</sup> Edition of the Iberoamerican Meeting on Ionic Liquids (IMIL 2017) was held April 5–7 2017 in Santos, Brazil. The conference was the 5<sup>th</sup> meeting in a series of biannual conferences on ionic liquids that have been held in Iberian countries since 2009 (2009 – Aveiro, Portugal; 2011 – Santiago de Compostela – A Coruña, Spain; Algarve, Portugal; 2015 – Madrid Spain). In 2017, for the first time, the event was held outside Europe, to expand the high-quality discussions on and knowledge of ionic liquids to the central and south American scientific community. Considering that ionic liquids are leading an era of green and sustainable technology; the meeting provided an outstanding international forum to present and discuss scientific progresses in research and development from the most fundamental concepts to the wide range of applications in the field of ionic liquids.

IMIL 2017 had 101 participants from more than 13 countries who presented their work in different topics and disciplines, including ionic liquids fundamentals, process modelling studies, and their applications in several different fields ranging from chemical engineering to biotechnology. All these scientific topics were discussed through 4 plenary lectures, 5 keynote lectures, 20 oral communications, 20 flash communications for young researchers and more than 50 poster presentations.

As chairs of the IMIL 2017 we would like to thank all the participants for their engagement in the fruitful and rewarding discussions that occurred during all the days of the meeting. We also acknowledge the members of the Honorary, Organizing, Scientific and Local Technical Supporting Committees for their help and support. We would also like to acknowledge our financial sponsors, particularly, São Paulo State University (UNESP), São Paulo Research Foundation Brazil (FAPESP), and the companies that recognized the importance of ionic liquids and supported our meeting.

This virtual special issue is composed of 8 selected manuscripts presented at the conference that are within the scope of Fluid Phase Equilibria. Herein, it is included applied studies that are focused on

the extraction and purification of biomolecules using ionic-liquids based systems, or on the development of ionic liquids as materials or products to be used in food and chemical engineering processes. Two more fundamental works are also included in this issue, were the solvation of ionic liquid aqueous solutions and the ionic liquid carbon dioxide high pressure vapor-liquid equilibria were carefully discussed. As Guest Editors of this issue, we would like to thank all the authors that contributed to the special issue, and to express our appreciation to the reviewers of Fluid Phase Equilibria, for their useful and helpful comments and revisions. Finally, we would like to thank all members of the Editorial Board of Fluid Phase Equilibria, especially, Editor-in-Chief, Prof. Clare McCabe and Editor, Prof. Ana Soto, for their help, support, advice and patience to make this special issue a reality. We hope that this issue will be of interest to all of the scientific community interested not only in ionic liquids but also in the general scope of the journal Fluid Phase Equilibria.

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