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Editorial

Editorial of the special issue on Advanced Electrochemical Technologies for Environmental Applications

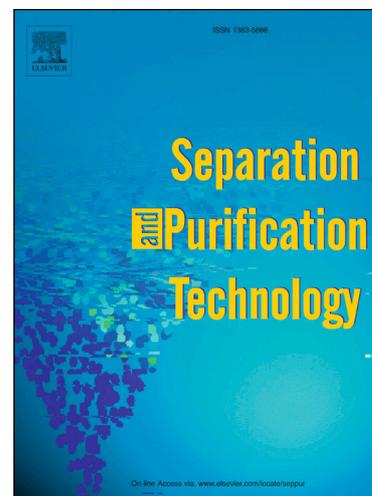
Enric Brillas, Vicente Montiel, Ignasi Sirés, Ane Urriaga

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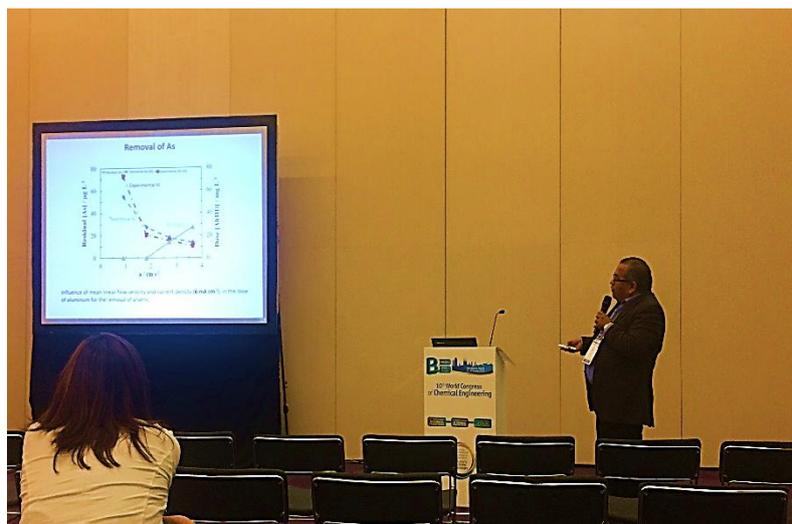
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Editorial

Editorial of the special issue on Advanced Electrochemical Technologies for Environmental Applications

This special issue of Separation and Purification Technology gathers 27 articles, which are related to keynotes and oral or poster presentations at the *2nd European Workshop of Electrochemical Engineering* entitled '*New Bridges for a New Knowledge on Electrochemical Engineering*'. The workshop was held from 1st to 5th October, 2017 in Barcelona (Spain), as a Joint Event of the 10th World Congress of Chemical Engineering (WCCE10). This congress was promoted by the World Chemical Engineering Council (WCEC), the European Federation of Chemical Engineering (EFCE) and the European Society of Biochemical Engineering Sciences (ESBES) to approach researchers and specialists in all areas of chemical engineering and to improve their strategy for the development of innovative processes that will be vital for the society of tomorrow. The joint event was promoted by the Working Party on Electrochemical Engineering (WPEE) of the EFCE and co-organized with the Spanish Excellence Network on Environmental and Energy Applications of the Electrochemical Technology (thus being the *2nd Workshop of E3TECH Network*). It took place at *Fira de Barcelona*, one of the most important trade fair institutions in Europe.

More than 2000 people of all around the world participated to the events of the WCCE10, which were very successful. The congress was organized in seven parallel Topics, along with fifteen Joint Events. The *2nd Workshop on Electrochemical Engineering* was aimed at finding response to the need for scientific and general discussion about the electrochemical technology. It consisted of a topical meeting within the WCCE10, organized with the support of the Spanish community of electrochemical engineers, in charge of the organization of the general congress. The workshop was expected to combine the renewed impulse of the electrochemical technology in many regions with the inclusion of researchers from other regions of the world. The participants were researchers and people from industry, with interest in electrochemistry or electrochemical engineering.



*Presentation of Prof. Dr. José L. Nava
(Universidad de Guanajuato, Mexico)*



*Presentation of Prof. Dr. Manuel A. Rodrigo
(Universidad de Castilla-La Mancha, Spain)*

The chair of the workshop was Prof. Dr. Manuel A. Rodrigo (*Universidad de Castilla-La Mancha, Spain*). The event was structured to cover general topics addressing electrochemical reactors, industrial electrochemistry, electrochemical engineering for environmental protection, electrochemical energy conversion and storage and corrosion protection engineering, along with more specific areas including bioelectrochemistry and microbial fuel cells, photoelectrochemistry, sonoelectrochemistry, electrochemical sensors and software development. A total of 93 contributions were presented, divided into 6 keynotes, 65 oral communications and 22 posters. The contributions were discussed in 6 round tables related to

the main topics presented. Another aim of the workshop was to foster the collaboration between American and European electrochemists. To accomplish this purpose, five recognized American researchers were invited to present keynotes on their research: Prof. Gerardine Botte (*Ohio University, USA*), Prof. Dr. Adalgisa Rodrigues de Andrade (*Universidade de São Paulo, Brazil*), Prof. Dr. Carlos A. Martinez Huitle (*Universidade Federal de Rio Grande do Norte, Brazil*), Prof. Jose L. Nava (*Universidad de Guanajuato, Mexico*) and Prof. José H. Zagal (*Universidad de Santiago de Chile, Chile*). Thanks to their participation, fruitful discussion over strategic topics and future perspectives in electrochemical engineering was made in the round tables scheduled.

All the topics related to the environmental applications of advanced electrochemical technologies are addressed in this special issue. We do hope that this collection not only enhance the dissemination of the understanding about the present status of electrochemical engineering, but it also opens the window to potentially novel applications in this exciting scientific and technological field.

Finally, the success of a special issue is not only based on the quality of the authors and their excellent manuscripts, but also on the association with expert reviewers and a strong journal's Editorial Team. We sincerely acknowledge all their efforts.

Guest Editors

Enric Brillas

Universitat de Barcelona, Spain

E-mail address: brillas@ub.edu

Vicente Montiel

Universidad de Alicante, Spain

E-mail address: vicente.montiel@ua.edu

Ignasi Sirés

Universitat de Barcelona, Spain

E-mail address: i.sires@ub.edu

Ane Urriaga

Universidad de Cantabria, Spain

E-mail address: urtiaga@unican.es