Preface

The papers included in this issue of *ECS Transactions* were originally presented in the symposium “Materials for Low Temperature Electrochemical Systems”, held during the 225th meeting of The Electrochemical Society, in Orlando, Florida, from May 11 to May 15, 2014.
## Table of Contents

*Preface*  

Highly Active Pt-Sn/C Catalysts for Ethanol Electro-Oxidation Prepared by a Polyol-Alcohol Reduction Process  
*D. González-Quijano, W. J. Pech-Rodríguez, J. I. Escalante-García, G. Vargas-Gutiérrez, F. J. Rodríguez-Varela*  

Electrochemical Characterization of Pt Nanocatalysts Supported on Functionalized Vulcan XC-72 for the EOR  
*W. J. Pech-Rodríguez, D. Gonzalez-Quijano, G. Vargas-Gutierrez, J. I. Escalante-Garcia, F. J. Rodriguez-Varela*  

Investigation of Borohydride Oxidation on Graphene Supported Gold-Copper Nanocomposites  
*E. Norkus, A. Baronaité, I. Stankevičienė, J. Vaiciuniene, R. Kondrotas, R. Juskenas, L. Tamasauskaite-Tamasiunaite*  

Effect of Heat Treatment on Activity of Fe/N/C Catalyst Prepared by Hemin for Oxygen Reduction Reaction  
*G. Tei, R. Kamat, H. Gyoten, T. Hayashi, M. Aizawa*  

Synthesis of Ordered Mesoporous Carbon as Support for Pt-Co Alloys: Evaluation as an Alcohol-Tolerant ORR Catalyst for Direct Oxidation Fuel Cells  
*D. Morales-Acosta, N. M. Sanchez-Padilla, F. J. Rodriguez-Varela*  

Zinc-Cobalt Alloy Deposited on the Titanium Surface as Electrocatalysts for Borohydride Oxidation  
*L. Tamasauskaite-Tamasiunaite, S. Lichusina, A. Balcimuaitė, A. Zabielaite, D. Simkunaite, J. Vaiciuniene, A. Selskis, E. Norkus*
Enhanced Catalytic Efficiency and CO Tolerance of Novel Pt Nanostructures Prepared by Pulsed Electrodeposition for Methanol Oxidation

C. K. Chuang, T. K. Yeh

Author Index
Facts about ECS

The Electrochemical Society (ECS) is an international, nonprofit, scientific, educational organization founded for the advancement of the theory and practice of electrochemistry, electronics, and allied subjects. The Society was founded in Philadelphia in 1902 and incorporated in 1930. There are currently over 7,000 scientists and engineers from more than 70 countries who hold individual membership; the Society is also supported by more than 100 corporations through Corporate Memberships.

The technical activities of the Society are carried on by Divisions. Sections of the Society have been organized in a number of cities and regions. Major international meetings of the Society are held in the spring and fall of each year. At these meetings, the Divisions and Groups hold general sessions and sponsor symposia on specialized subjects.

The Society has an active publication program that includes the following:

**Journal of The Electrochemical Society** — (JES) is the leader in the field of electrochemical science and technology. This peer-reviewed journal publishes an average of 550 pages of 85 articles each month. Articles are published online as soon as possible after undergoing the peer-review process. The online version is considered the final version and is fully citable with articles assigned specific page numbers within specific issues. The date of online publication is the official publication date of record.

**Journal of Solid State Science and Technology** — (JSS) is one of the newest peer-reviewed journals from ECS launched in 2012. JSS covers fundamental and applied areas of solid state science and technology including experimental and theoretical aspects of the chemistry and physics of materials and devices. Articles are published online as soon as possible after undergoing the peer-review process. The online version is considered the final version and is fully citable with articles assigned specific page numbers within specific issues. The date of online publication is the official publication date of record.

**Electrochemistry Letters** — (EEL) is one of the newest journals from ECS launched in 2012. It is dedicated to the rapid dissemination of peer-reviewed and concise research reports in fundamental and applied areas of electrochemical science and technology. Articles are published online as soon as possible after undergoing the peer-review process. The online version is considered the final version and is fully citable with articles assigned specific page numbers within specific issues. The date of online publication is the official publication date of record.

**Solid State Letters** — (SSL) is one of the newest journals from ECS launched in 2012. It is dedicated to the rapid dissemination of peer-reviewed and concise research reports in fundamental and applied areas of solid state science and technology. Articles are published online as soon as possible after undergoing the peer-review process. The online version is considered the final version and is fully citable with articles assigned specific page numbers within specific issues. The date of online publication is the official publication date of record.

**Electrochemical and Solid-State Letters** — (ESL) was the first rapid-publication electronic journal dedicated to covering the leading edge of research and development in the field of solid-state and electrochemical science and technology. ESL was a joint publication of ECS and IEEE Electron Devices Society. Volume 1 began July 1998 and contained six issues, thereafter new volumes began with the January issue and contained 12 issues. The final issue of ESL was Volume 16, Number 6, 2012. Preserved as an archive, ESL has since been replaced by SSL and EEL.

**Interface** — Interface is an authoritative yet accessible publication for those in the field of solid-state and electrochemical science and technology. Published quarterly, this four-color magazine contains technical articles about the latest developments in the field, and presents news and information about and for members of ECS.

**ECS Meeting Abstracts** — ECS Meeting Abstracts contain extended abstracts of the technical papers presented at the ECS biannual meetings and ECS-sponsored meetings. This publication offers a first look into the current research in the field. ECS Meeting Abstracts are freely available to all visitors to the ECS Digital Library.

**ECS Transactions** — (ECST) is the online database containing full-text content of proceedings from ECS meetings and ECS-sponsored meetings. ECST is a high-quality venue for authors and an excellent resource for researchers. The papers appearing in ECST are reviewed to ensure that submissions meet generally-accepted scientific standards. Each meeting is represented by a volume and each symposium by an issue.

Monograph Volumes — The Society sponsors the publication of hardbound monograph volumes, which provide authoritative accounts of specific topics in electrochemistry, solid-state science, and related disciplines.

For more information on these and other Society activities, visit the ECS website:

[www.electrochem.org](http://www.electrochem.org)