

The Electrochemical Society

Physical and Analytical Electrochemistry (General)

at the 210th ECS Meeting

ECS Transactions Volume 3 No.32

October 29 – November 3, 2006
Cancun, Mexico

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-60423-909-6

Some format issues inherent in the e-media version may also appear in this print version.

Copyright 2007 by The Electrochemical Society, Inc.
All rights reserved.

This book has been registered with Copyright Clearance Center, Inc.
For further information, please contact the Copyright Clearance Center,
Salem, Massachusetts.

Published by:

The Electrochemical Society, Inc.
65 South Main Street
Pennington, New Jersey 08534-2839, USA

Telephone 609.737.1902
Fax 609.737.2743
e-mail: ecs@electrochem.org
Web: www.electrochem.org

ISSN 1938-6737 (online)
ISSN 1938-5862 (print)

Printed in the United States of America.

Table of Contents

Preface	
The Effect of Phthalate/Sulphonic Acid Ester Plasticisers on the TiO ₂ Photocatalyzed Degradation of PVC <i>G. P. Martin, A. Robinson and D. A. Worsley</i>	1
Methanol Oxidation on PtRu/C Electrocatalysts Prepared by a Microemulsion Method <i>D. Godoi, J. Perez and H. M. Villullas</i>	11
An Improved Borohydride-H ₂ O ₂ Laboratory Fuel Cell <i>D. M. Santos, J. A. Condeco, M. W. Franco and C. A. Sequeira</i>	19
Oxygen Reduction Characteristics on Ag, Pt, and Ag-Pt Alloys in Low-Temperature SOFCs <i>H. Huang, T. P. Holme and F. B. Prinz</i>	31
Electro-oxidation of Biginelli Dihydropyrimidones <i>J. M. Aceves-Hernandez, R. Miranda and O. Kappe</i>	41
The Impact of Oxygen Vacancies on the Oxygen Electrode Reaction on Anodic Oxide Films on Titanium <i>B. Roh and D. D. Macdonald</i>	57
Anodic Reactions of Borohydride in Sodium Hydroxide Solutions <i>D. M. Santos and C. A. Sequeira</i>	69
Redox Reaction of Catalytic Layer in the Electrochemical Reactor for NO _x Decomposition <i>K. Hamamoto, Y. Fujishiro and M. Awano</i>	79
Author Index	87