Manuel M. Baizer Award Symposium on **Organic Electrochemistry**

Editors:

K. Moeller

Washington University at St. Louis St. Louis, Missouri, USA

F. Maran

University of Padova Padua, Italy

H. Tanaka

Okayama University Okayama City, Japan

Sponsoring Division:



Organic and Biological Electrochemistry



The Electrochemical Society

65 South Main Street, Building D Pennington, NJ 08534-2839, USA

www.electrochem.org

Aestransactions ™

Vol. 13 No. 24

Copyright 2008 by The Electrochemical Society. All rights reserved.

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

Published by:

The Electrochemical Society 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)

ISBN 978-1-56677-682-0 (PDF) ISBN 978-1-60768-033-8 (Softcover)

Printed in the United States of America.

ECS Transactions, Volume 13, Issue 24 Manuel M. Baizer Award Symposium on Organic Electrochemistry

Table of Contents

Preface	iii
Studies in the Oxidation of Carboxylic Acids: New Twists for an Old Reaction. Synthesis of Various Cyclic Systems and Substituted Orthoesters <i>F. Lebreux, F. Buzzo and I. Marko</i>	1
Silyl Radicals by Reverse and One-Electron Electrochemistry V. V. Jouikov	11
Towards Molecular-Level Understanding of Electrocatalytic Hydrogenation. A Comparison of Cyclic Voltammetric Behavior of Benzene Adsorption at Pt(111) Single Crystal Electrodes in Aqueous HClO4 and H2SO4 M. Obradovic, G. Jerkiewicz and J. Lessard	17
Polarographic Studies of Reactions of Three Isomeric Benzenedicarboxaldehydes with Ammonia (NH3) and 2-Aminoethanol (H2NCH2CH2OH) P. Zuman and E. Kulla	25
Electrochemistry in Aqueous Solutions of Isomeric Benzenedicarboxaldehydes <i>P. Zuman, N. Salem and E. Kulla</i>	33
Electron Transfer Dynamics Through Supramolecular Associations C. E. Frontana, I. Gonzalez and F. Gonzalez	37
Synthesis of Heterocyclic Compounds by Radical Electrochemical Approach in Environentally Friendly Media E. Dunach, A. P. Esteves, C. Neves and M. J. Medeiros	49
Electrochemical Investigations of the Fries Rearrangement in Ionic Liquids <i>G. T. Cheek</i>	57
Electrochemical Reactivity and Anodic Cyanation of Germatranes S. Soualmi, L. Ignatovich, E. Lukevics, A. Ourari and V. V. Jouikov	63
Linear Sweep Voltammetry of N-Bromosuccinimide I. U. Haque, W. Akram, S. Iqbal and S. Sadaf	71
Author Index	77