# **Role of Electrochemistry** in Addressing Climate Change

### **Editors:**

S. Minteer

Saint Louis University St. Louis, Missouri, USA

S. Narayanan

Jet Propulsion Laboratory Pasadena, California, USA

## **Sponsoring Divisions:**



Physical and Analytical Electrochemistry



Energy Technology



Published by

# The Electrochemical Society

65 South Main Street, Building D Pennington, NJ 08534-2839, USA tel 609 737 1902

fax 609 737 2743 www.electrochem.org **ecs**transactions ™

Vol. 19 No. 14

Copyright 2009 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)

Printed in the United States of America.

*ECS Transactions*, **Volume 19**, **Issue 14**Role of Electrochemistry in Addressing Climate Change

# **Table of Contents**

| Preface   | iii |
|---|-----|
| Effect of Gaseous Impurities on the Electrochemical Reduction of CO <sub>2</sub> on Copper Electrodes  Y. Zhai, L. Chiachiarelli and N. Sridhar | 1   |
| Electrochemical Oxidation of Carbon for Electric Power Generation: A Review<br>J. F. Cooper and R. Selman                                       | 15  |
| Author Index  | 27  |