
Nanotechnology (General) – 224th ECS Meeting

Editors:

O. M. Leonte

Berkeley Polymer Technology
Berkeley, California, USA

W. E. Mustain

University of Connecticut
Storrs, Connecticut, USA

Sponsoring Divisions:



All Divisions



New Technology Subcommittee



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

ecstransactions™

Vol. 58, No. 47

Copyright 2014 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)
ISSN 2151-2051 (cd-rom)

ISBN 978-1-62332-179-6 (Softcover)
ISBN 978-1-60768-535-7 (PDF)

Printed in the United States of America.

Table of Contents

| | |
|---|------------|
| <i>Preface</i> | <i>iii</i> |
| Nano-Sized Titanium Oxides as Electrocatalyst for Oxygen Reduction Reaction toward PEFC <i>K. Suito, A. Ishihara, T. Hayashi, M. Matsumoto, M. Arao, Y. Kohno, K. Matsuzawa, H. Imai, S. Mitsushima, K. I. Ota</i> | 1 |
| Light Scattering Investigation of 2D and 3D Opal Template Formation on Hydrophilized Surfaces <i>E. Armstrong, W. Khunsin, M. Osiak, C. M. Sotomayor Torres, C. O'Dwyer</i> | 9 |
| Electrochemical Dealloying of Gold-Silver Nanoparticles - Selective Dissolution of the Less and More Noble Species <i>C. A. Starr, D. A. Buttry</i> | 19 |
| Hydrogen-Carbon Bond on the Nanostructured Graphite for Hydrogen Sensor <i>Y. Zhang, D. Book</i> | 27 |
| Adsorption of Methylene Orange on Embedding Carbon Nanotubes Sodium Alginate /Chitosan Gel Beads <i>F. C. Tsai, T. C. Chiang, N. Ma, J. J. Shi, X. Yue, L. C. Tsai, T. Jiang, S. K. Su</i> | 33 |
| Surface Morphology and Electrical Properties of ZnO:Ga Films Formed by Magnetron Sputtering <i>N. Yamamoto, K. Morisawa</i> | 45 |
| Author Index | 51 |