

The Electrochemical Society

One-Dimensional Nanoscale Electronic and Photonic Devices 2

at the 214th ECS Meeting

ECS Transactions Volume 16 No.33

October 12-17, 2008
Honolulu, Hawaii, USA

Printed from e-media with permission by:

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

ISBN: 978-1-61567-307-0

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

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.

Table of Contents

Preface

Hybridization of Polydiacetylene Core and Metal Shell <i>T. Onodera, J. Ujita, D. Ishikawa, A. Masuhara, H. Kasai and H. Oikawa</i>	1
Focused-Ion-Beam-Deposited Pt Contacts on ZnO Nanowires <i>J. He, P. H. Chang, C. Chen and K. Tsai</i>	13
Fine-Tuning of TiO ₂ Nanofibers-Mixed Nanoparticles-Photoelectrode for High Efficient Dye-Sensitized Solar Cells <i>S. Chuangchote, T. Sagawa and S. Yoshikawa</i>	21
Effects of Spatial and Spectral Characteristics of Electrons on Quantum Capacitance Oscillations in Silicon NanoWire-Based MOS Structure <i>S. Chin and V. Ligatchev</i>	27
Morphological and Structural Properties of β -Ga ₂ O ₃ Nanostructures <i>T. Yasuda, Q. Yang, S. Honda, K. Ogino, H. Tatsuoka, M. Tanaka and P. Brown</i>	33
Author Index	39