
Sensors Based on Fluorescence, SERS, SPR, and Photoelectrochemistry

Editors:

N. Wu

West Virginia University
Morgantown, West Virginia, USA

L. Nagahara

National Cancer Institute
Bethesda, Maryland, USA

A. Simonian

Auburn University
Auburn, Alabama, USA

Sponsoring Division:



Sensor



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. 41, No. 38

Copyright 2012 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 978-1-56677-978-4 (PDF)
ISBN 978-1-60768-337-7 (Softcover)

Printed in the United States of America.

Table of Contents

<i>Preface</i>	<i>iii</i>
The Modeling, Fabrication, and Optical Characterization of Silicon and Polymer-Based Photonic Crystals for Biosensing Applications <i>B. M. Hamza, A. Kadiyala, L. A. Hornak, R. Carroll, Y. Liu, and J. M. Dawson</i>	1
Microfluidic Human Blood Plasma Separation for Lab on Chip Based Heavy Metal Detections <i>R. Zhong, N. Wu, and Y. Liu</i>	11
A pH Sensor Based on Surface-Enhanced Raman Scattering <i>M. Li and N. Wu</i>	17
Author Index	23