

MATERIALS RESEARCH SOCIETY
SYMPOSIUM PROCEEDINGS VOLUME 1436

Advanced Materials and Processes for Systems-on-Plastic

April 9-13, 2012
San Francisco, California, USA

Printed from e-media with permission by:

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

ISBN: 978-1-5108-0481-4

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

©Materials Research Society 2012

This reprint is produced with the permission of the Materials Research Society and Cambridge University Press.

This publication is in copyright, subject to statutory exception and to the provisions of relevant collective licensing agreements. No reproduction of any part may take place without the written permission of Cambridge University Press.

Cambridge University Press
Cambridge, New York, Melbourne, Madrid, Cape Town,
Singapore, São Paulo, Delhi, Tokyo, Mexico City

Cambridge University Press
32 Avenue of the Americas, New York, NY 10013-2473, USA
www.cambridge.org

Materials Research Society
506 Keystone Drive, Warrendale, PA 15086
www.mrs.org

CODEN: MRSPDH

ISBN: 978-1-5108-0481-4

Cambridge University Press has no responsibility for the persistence or accuracy of URLs for external or third-part Internet Web sites referred to in this publication and does not guarantee that any content on such Web sites is, or will remain, accurate or appropriate.

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

Analysis Of Electron Traps In <i>a</i>-IGZO Thin Films After High Pressure Vapor Annealing By Capacitance-Voltage Method	1
<i>Y. Ueoka, M. Fujii, H. Yamazaki, M. Horita, Y. Ishikawa, Y. Uraoka</i>	
ESR Anisotropy Of Organic Semiconductor Molecules: Calculation And Experiment	6
<i>H. Matsui, D. Kumaki, E. Takahashi, K. Takimiya, M. Ikawa, S. Tokito, T. Hasegawa</i>	
Protein-Based Nano-Structure Fabrication In Aqueous Solution: Bio Nano Process.....	10
<i>I. Yamashita</i>	
Thermal, Optical, And Film Properties Of A Ladder-Like Polysilsesquioxane As Flexible Electronic Device Substrates.....	17
<i>A. Lee, S.-S. Choi, H. Lee, H. Jeon, K.-Y. Baek, S. Hwang</i>	
Theoretical Approach For The Development Of Organic Semiconductors On The Basis Of The MO Symmetry: Thienoacene As An Example	23
<i>H. Kojima, T. Mori</i>	
Highly Flexible, Transparent And Electrically Conducting Silver Nanoparticles Films Enabled By Controlled Sedimentation	29
<i>M. Ombaba, T. Hasegawa, L. Lu, Y. Yasuda, M. Kimura, T. Nishida, S. Koh, Y. Uraoka, M. Islam</i>	
Fabrication Of 3D Micro Structures On Nonplanar Substrates And Its Applications For Roll Micro Contact Printing	34
<i>J. Park, H. Fujita, B. Kim</i>	
Room Temperature Deposition Of Highly Transparent n-ZnO PET And ZnO Semiconductor FET	40
<i>A. Neri, R. Lotti, D. Yarmolich, P. Nozar, S. Quiroga, E. Lunedei, C. Taliani</i>	
Detection Of Cadmium Using Conjugated Polymer Modified Electrodes.....	46
<i>T. Ponrathnam, S. Robertson, J. Cho, P. Kurup, R. Nagarajan</i>	
Effects Of Curing Time On Properties Of Spin-On Glass As Low-Temperature Insulator	52
<i>M. Dominguez, P. Rosales, A. Torres, M. Moreno</i>	
Effect Of Nitric Acid Concentration On Doping Of Thin Film Single-Walled Carbon Nanotubes For Electrode Application In Transparent, Flexible Dye Sensitized Solar Cells.....	57
<i>L. Zhang, M. Rao, J. Kochupurackal, N. Mathews, Y. Lam, S. Mhaisalkar</i>	
Emission Of Precipitation Deposited PbS Quantum Dots On Polyethylene Terephthalate	63
<i>B. Ullrich, A. Markelonis, J. Wang, G. Brown</i>	
Author Index	