Table of contents

Volume 924

12th International Conference on Nanomolecular Electronics (ICNME-2016)
14–16 December 2016, Kobe, Japan
Accepted papers received: 1 November 2017Published online: 5 December 2017

Preface

12th International Conference on Nanomolecular Electronics (ICNME-2016)

Peer review statement

Papers

Parametric Optimization of Dye-Sensitized Solar Cells Using Far red Sensitizing Dye with Cobalt Electrolyte

A Pradhan, M Saikiran, G Kapil, S S. Pandey and S Hayase.....1

Quantitative evaluation of spatial scale of carrier trapping at grain boundary by GHz-microwave dielectric loss spectroscopy

W. Choi, Y. Tsutsui, T. Miyakai, T. Sakurai and S. Seki.....10

Bulk-Heterojunction Thin-Film Solar Cells Utilizing Miscible Binary Donor Materials of Liquid Crystalline Phthalocyanine and its Analogue

Kento Fujita, Dai Nakagawa, Chika Nakano, Quang-Duy Dao, Akihiko Fujii and Masanori Ozaki.....18

Aggregation States of Organic Dye Molecules in Organic – Inorganic Hybrid Films Studied by Near-Field and Far-Field Fluorescence Spectroscopy

M. Ishihara.....25
Fabrication of Carbon Nanotube Polymer Actuator Using Nanofiber Sheet
Hayato Kato, Akikazu Shimizu, Taiga Sato and Masahito Kushida.....33

Photophysical Characterization and BSA Interaction of Direct Ring Carboxy Functionalized Symmetrical squaraine Dyes
Maryala Saikiran, Shyam S Pandey, Shuzi Hayase and Tamaki Kato.....45

Effect of High Pressure on Resistance in Au(dmit)$_2$ LB Films
Y F Miura, H Hasegawa, K Torizuka and Y Uwatoko.....55

Solution-processed organic field-effect transistors based on dinaphthothienothiophene precursor with chemically modified electrodes
Takashi Nagase, Souichiro Abe, Takashi Kobayashi, Yu Kimura, Azusa Hamaguchi, Yoshinori Ikeda and Hiroyoshi Naito.....61

Relation between active-layer thickness and power conversion efficiency in P3HT:PCBM inverted organic photovoltaics
S. Nakami, T. Narioka, T. Kobayashi, T. Nagase and H. Naito.....67

Functional design of electrolytic biosensor
D M Gamage Preethichandra, E M I Mala Ekanayake and M Onoda.....73

Calculation of Reflection Spectrum with Actual Layer Thickness Profile in Nacre of Akoya Pearl Oyster
R Ozaki, A Yoshimoto, G Watanabe, K Kadowaki and K Odawara.....85

Negative capacitance in an organic solar cell observed by displacement current measurement
Koji Shimizu, Yuya Tanaka, Yutaka Noguchi and Hisao Ishii.....92
Effect of immobilization technique on performance ZnO nanorods based enzymatic electrochemical glucose biosensor

Mayoorika Shukla, Pramila, I.A. Palani and Vipul Singh.....99

Casting Control of Floating-films into Ribbon-shape Structure by modified Dynamic FTM

A Tripathi, M Pandey, S Nagamatsu, S S Pandey, S Hayase and W Takashima.....109

Oriented antibody immobilization on self-assembled monolayers applied as impedance biosensors

Kaiki Tsugimura, Hitoshi Ohnuki, Haiyun Wu, Hideaki Endo, Daiju Tsuya and Mitsuru Izumi.....115

M intermediate accumulation analysis of bacteriorhodopsin reconstituted with three partial peptides

Y Tsujiuchi, H Masumoto and T Goto.....123

Vapor Deposition Polymerization and Molecular Orientation of Polyimide Thin Films

Takatoshi Yamazaki, Chanya Mahapun, Satoshi Usui, Kuniaki Tanaka and Hiroaki Usui.....135