

CONTENTS

Essay

..... T. FUJII (351)

Special Articles: Next Generation Solar Cell

(Reviews)

Perspectives of Crystalline Silicon Solar Cells and Their Novel Fabrication Processes
..... T. FUYUKI (352)

Current Status and Future Prospects of CdTe Solar Cells
..... T. OKAMOTO (356)

Recent Technologies on Multi-junction Solar Cells and Materials
..... Y. OHSHITA, M. YAMAGUCHI (362)

Present Status and Future Perspective of Dye-Sensitized Solar Cell Development
..... H. OZAWA, H. ARAKAWA (369)

Recent Progress on Organic Photovoltaic Cells
..... Y. YOSHIDA (376)

High-efficiency Quantum Nanostructure Solar Cells: Present and Future Opportunities
..... Y. OKADA (382)

Original Paper

GIS Evaluation of Renewable Energy Resource Potential and Its Application to Kyushu Area in Japan
..... T. WAKEYAMA, S. EHARA (391)

Bio-methanol Energy Chain Model from Feedstock Collection, Pre-treatment,
Transport to Biomass Conversion Plant, Plant Scale Factor, and Worldwide Shipment
..... M. MITANI, G. MOGI (405)

Approach for Determining Soot-Blowing Frequency Based on the Decreasing Behavior of Heat Flux
during Ash Deposition Determined in 1.5 MWth Pilot Plant Tests
..... M. SHIMOGORI, T. MINE, N. OHYATSU, N. TAKARAYAMA, Y. MATSUMURA (417)

Lecture Note

Energy Conversion (3-10):
Recent Advances in Supercapacitors Toward Higher Energy Density
..... K. NAOI, J. MIYAMOTO, Y. NAGANO (425)

Opinion

The Great East Japan Earthquake
Japanese Economy after the Catastrophic Earthquake in Eastern Japan
— Use Spending on Ecology and Energy as a Lever of Economic Growth —
..... T. SAWA (432)

Introduction of Research Group (Uchiyama and Okajima Laboratory, University of Tsukuba) (437)

Report on the 7th liquid atomization seminar (442)

Entropy (443) JIE Calendar (444)

Bulletin Board (444) From the Editors (446)