

Journal of the Japan Institute of Energy

Volume 91 Number 10 October 2012

C O N T E N T S

Essay

..... K. HASE (947)

Special Articles: Biomass

(Original Paper)

Growth and Above-ground Biomass Production of a Willow Clone with High Productivity, *Salix pet-susu* clone KKD
..... S. SATOH, K. ISHIZAWA, Y. MITSUI, K. MINATO (948)

Mass and Energy Yields of Bio-oil Obtained by Microwave-induced Pyrolysis of Oil Palm Kernel Shell
..... Y. UEMURA, W. N. OMAR, S. RAZLAN, H. AFIF, S. YUSUP, K. ONOE (954)

Sustainability Assessment Methodology of Biomass Utilization for Energy in East Asian Countries
..... Y. SADAMICHI, Y. KUDOH, M. SAGISAKA, S. S. CHEN, J. C. ELAURIA, S. H. GHEEWALA
U. HASANUDIN, J. ROMERO, X. SHI, V. K. SHARMA (960)

Selective and Quantitative Isolation of Aromatic Dimers from Woody Biomass
..... R. YAMAMOTO, H. NONAKA, M. FUNAOKA (969)

Thermal Conduction and Gas Generation Undergoing Pyrolysis in the Packed Bed of Woody Biomass
..... K. TANOUE, T. SUETOMI, T. NISHIMURA, M. TANIGUCHI, K. SASAUCHI (976)

Structural Conversion of a Lignin-based Material: Lignocresol under Hydrothermal Conditions at Lower Temperatures
..... H. NONAKA, M. FUNAOKA (985)

Comparison of Softwood and Hardwood Lignocresol-immobilized Cellulases
..... A. KOBAYASHI, H. NONAKA, M. FUNAOKA (992)

Production of Composite Fuel with High Heating Value from Waste Mixture of Food and Plastic
Using Subcritical Water
..... I. OKAJIMA, N. KAWASE, T. SHIMIZU, K. TAMURA, N. KANNO, S. KAWAJIRI, T. SAKO (998)

(Technical Paper)

A Survey on Awareness for Biofuel in Kingdom of Thailand
..... N. NOMURA, M. SAGISAKA (1007)

Abatement Cost of Greenhouse Gas Emissions Using Charcoal Cookstove in the Philippines
..... M. M. ELAIRIA, J. C. ELAIRIA (1016)

Special Articles: The Current Situation and Future of Biomass Gasification Technology in Japan

(Preface)

Preface for Special Articles on the Current Situation and Future of Biomass Gasification Technology in Japan
..... Y. MATSUMURA (1022)

(Reviews)

The Current Situation and Challenges of Biomass Gasification System with Rotary Kiln
..... M. TANIGUCHI, A. NISHIYAMA, K. SASAUCHI (1024)

Present Situation and Future Prospects on Fixed Bed Downdraft Gasifier and Dual Fuel Engine
..... H. WAKIZAKA (1030)

The Actual Status and the Prospect of Blue Tower Gasification Technology
..... K. DOWAKI, R. OHKUBO, K. KOIDO, H. IKEDA, M. KAMEYAMA (1035)

Present Status and Future Enhancement of Updraft Biomass Gasifier
..... K. OKUYAMA, Y. MIYAGOSHI, Y. SUZUKI, T. IWASAKI (1047)

Special Report: The Second LSE (Life style, Energy saving, and Energy studies) Three-Division Seminar - The Direction of Energy Saving Policy and the Achievement of Electricity Saving One Year after the Great East Japan Earthquake -

(Reviews)

Electricity Saving in the Residential and Commercial Sectors in Japan	T. TSURUSAKI	(1053)
Integration of Energy Efficiency and Renewable Energy Resources	H. ASANO	(1060)
The Role of Distributed Generation under Usual Circumstance or Emergency	A. AKISAWA	(1066)
Mechanism of the 2011 Tohoku Earthquake and Prediction of Earthquake and Tsunami	Y. OKAMURA	(1073)
~~~~~		
Report on the 21st Annual Meeting of the Japan Institute of Energy .....		(1080)
The Report of the 36th Japan CBM & Shale Gas Forum .....		(1084)
Entropy .....	(1085)	JIE Calendar .....
Bulletin Board .....	(1087)	From the Editors .....
~~~~~		