

Table of Contents (NRLS Conference Proceedings)

Action Research into a Flood Resilient Value Chain – Biochar-Based Organic Fertilizer
Doubles Productivity of Pea in Udayapur, Nepal

Anu Joshi Shrestha, Bishnu Hari Pandit

DOI 10.18502/cls.v3i5.974, Pages 1-19

Comparison of the Main Bioactive Compounds and Antioxidant Activity from Garlic Water-soluble and Garlic Oil

Ardhia Deasy Rosita Dewi, Joni Kusnadi, Wen-Ling Shih

DOI 10.18502/cls.v3i5.975, Pages 20-34

Antioxidant Acitivity in Various Processed Products of Inferior Local Tubers (*Dioscorea* sp. L.)

Ari Yuniastuti, Retno Sri Iswari, and R. Susanti

DOI 10.18502/cls.v3i5.976, Pages 35-40

Synthesis and Characterization of TNTs/Polyaniline Composite as Photocatalyst Degradation of Rhodamin B by Visible Light

Atik Setyani, Sri Wahyuni, Sigit Priatmoko, and Nur Amin

DOI 10.18502/cls.v3i5.977, Pages 41-50

Two Antibacterial Compounds: Velutin and 4- (Hydroxy (Oxiran-2-yl)Methyl)-2-Methoxyphenol from the Stem Bark of *Drimys arfakensis* Gibbs.

Bimo Budi Santoso, Hidelisa Padua Hernandez, Evelyn B Rodriguez, Ida Farida Dalmacio

DOI 10.18502/cls.v3i5.978, Pages 51-62

Extraction and Toxicity Assay of Mycotoxin from Entomopathogenic Fungi Isolate of Kusuma Agrowisata Orchard Batu, Jawa Timur, Indonesia

Derdy Janli, Maria Goretti M. Purwanto, Ida Bagus Artadana, Theresia Desy Askitosari

DOI 10.18502/cls.v3i5.979, Pages 63-74

Solar Driven Photocatalytic Fuel Cells: an Environmentally Friendly Innovation of Power Plant Technology as Energy Source

Emas Agus Prastyo Wibowo, Navela Rahma Aji, Nuni Widiarti, Cepi Kurniawan

DOI 10.18502/cls.v3i5.980, Pages 75-80

A Glimpse into the Biosynthesis of Terpenoids

Ingy I. Abdallah, Wim J. Quax

DOI 10.18502/cls.v3i5.981, Pages 81-98

Transcription Pattern of Catalase Gene from *Gynostemma pentaphyllum* (Thunb.) Makino during Various Abiotic Stresses

Johan Sukweenadhi, Yu-Jin Kim, and Deok-Chun Yang

DOI 10.18502/cls.v3i5.982, Pages 99-109

Drying Kinetics of *Curcuma xanthorrhiza* Roxb.

Lanny Sapei, Elieser Taringan, Lie Hwa, Violita Putri Halim, Fhelix August Soebiantoro

DOI 10.18502/cls.v3i5.983, Pages 110-117

Water Sustainability: Emerging Trends for Water Quality Management

Lieke Riadi

DOI 10.18502/cls.v3i5.984, Pages 118-130

Isolation and Screening of Indigenous Fungus Producing Lignin Peroxidase from the Cocoa Plantation in Sepawon Kediri Regency Indonesia

Liling Delila, Evi Susanti, Eli Hendrik Sanjaya

DOI 10.18502/cls.v3i5.985, Pages 131-138

Cloning and Over-expression of xynB Gene of *Bacillus subtilis* subsp. *spizizenii* W23 into *Escherichia coli* Origami Host Cells

Mariana Wahjudi, Catherina, Nita Marcelia Wangunhardjo, Ernest Suryadjaja, Xavier Daniel

DOI 10.18502/cls.v3i5.986, Pages 139-149

The Utilization of Metroxylon Sago (*Rottb.*) Dregs for Low Bioethanol as Fuel Households Needs in Papua Province Indonesia

Numberi Johni Jonatan, Arifia Ekayuliana, I Made Kartika Dhiputra, Yulianto Sulisty Nugroho

DOI 10.18502/cls.v3i5.987, Pages 150-157

Composting of Corn By-Product using EM4 and Microorganism *Azotobacter* sp. as Composting Organism

Nuniek Hendriani, Sri Rachmania Juliastuti, Hamida Nuur Masetya, Imam Tianto Aditiyas Saputra

DOI 10.18502/cls.v3i5.988, Pages 158-166

Superoxide Dismutase Levels of Operator Gas Stations in Semarang, Central Java, Indonesia.

Nur Kusuma Dewi, Ari Yuniastuti

DOI 10.18502/cls.v3i5.989, Pages 167-172

Somatic Embryo from Basal Leaf Segments of *Vanda tricolor* Lindl. var. *pallida*

Popy Hartatie Hardjo and Wina Dian Savitri

DOI 10.18502/cls.v3i5.990, Pages 173-179

Efficiency Analysis of Production Factors Utilization in Upland Rice Farming

Rohmad Budiono, Praptiningsih Gamawati Adinurani

DOI 10.18502/cls.v3i5.991, Pages 180-187

In Vitro Study of Potato (*Solanum tuberosum* L.) Tolerant to the Drought Stress

Biliter Anton Sirait and Rosa Charloq

DOI 10.18502/cls.v3i5.992, Pages 188-192

Organic Fertilizer from Bioethanol Solid Waste, Agricultural Waste, and Banana Peels Waste
by Bio-act EM4 and *Aspergillus niger*
Sri Rachmania Juliastuti, Delftya Enhaperdhani, Rizka Uswatun Hasanah
DOI 10.18502/ks.v3i5.993, Pages 193-201

Intake Pericarp of *Garcinia mangostana* L. Extract Inhibited Oxidative Stress on Wistar Rat
Hyperglycemic through the Increased of Superoxide Dismutase and Histopathology
Pancreatic Activities
Sri Wahjuni, Anak Agung Istri Ayu Mayun Laksmiwati, Ni Made Puspawati
DOI 10.18502/ks.v3i5.994, Pages 202-207

The Role of Heavy Metals-Resistant Bacteria *Acinetobacter* sp. in Copper Phytoremediation
using *Eichhornia crasippes* [(Mart.) Solms]
Wahyu Irawati, Adolf Jan Nexson Parhusip, Nida Sopiah, Juniche Anggelique Tnunay
DOI 10.18502/ks.v3i5.995, Pages 208-220