

International Conference on Ecosystem, BioTechnology Agriculture and Environmental Science 2020

IOP Conference Series: Earth and Environmental Science
Volume 1131

Online
21-23 July 2020

Editor:

Robbi Rahim

ISBN: 978-1-7138-6988-7
ISSN: 1755-1307

Printed from e-media with permission by:

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



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

This work is licensed under a Creative Commons Attribution 3.0 International Licence.
Licence details: <http://creativecommons.org/licenses/by/3.0/>.

No changes have been made to the content of these proceedings. There may be changes to pagination and minor adjustments for aesthetics.

Printed with permission by Curran Associates, Inc. (2023)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

AGRICULTURE

Strengthening Farmer Organization for Smallholder Farmers	1
<i>Dhina Mustikaningrum</i>	
Agronomic performance of F7 soybean lines resistant to Soybean mosaic virus in the dryland area	7
<i>Wuyue R. Andayanie, Praptiningsih G. Adinurani, Martin Lukito, Akas Y. Pulihasih</i>	
Is Long-term Cassava-based Agriculture Sustainable? (Case Study of Potassium Content in the Soil)	16
<i>Ursulin Sacer Setyastika, Sri Rahayu Utami, Syahrul Kurniawan, Christanti Agustina</i>	
Urban Agriculture Exploration Strategy: Case Study of Mushroom and Freshwater Fish Cultivation in West Surabaya	21
<i>S Sutini, G Guniarti, W Widiwurjani, Nora Augustien, Didik Utomo Pribadi</i>	
Growth of Arengapinnata Seedlings on Three Different Media	26
<i>Budi Prakoso, R Widarawati</i>	
Socio Characteristics of Citronella Farmers in Kedungrandu Village, Banyumas District	30
<i>Lutfi Zulkifli, Anny Hartati, Tatang Widjojoko, Irene Kartika Eka Wijayanti, Adwi Herry Koesoema Elyanto, Alpha Nadeira Mandamdari, Rifki Andi Novia, Sunendar</i>	
Effects of rice husk biochar (RHB) with combined inoculation of arbuscular mycorrhizal fungi (AMF) and phosphate solubilizing bacteria (PSB) on growth of maize (Zea mays)	34
<i>A. S. AuFa Ain, M. J. Noraini</i>	
Healthy organic coconut sugar powder business's development strategy: A case study at the Nira Perwira Cooperative, Purbalingga District, Central Java, Indonesia	40
<i>Budi Dharmawan, Suyono, Agus Sutanto, Irene Kartika Wijayanti, Dindy Darmawati Putri</i>	
Development Model for Sustainable Utilization of Among Tani Application (A Study in Batu Smart City)	46
<i>Alia Fibrianingtyas, Vi'In Ayu Pertiwi, Neza Fadia Rayesa</i>	
Analysis of Organic Brown Sugar in Banyumas Regency	51
<i>Dindy Darmawati Putri, S Suyono, Irene Kartika Eka Wijayanti</i>	
Survivability and Benefit Evaluation of Streptomyces sp. and Trichoderma sp. as Active Ingredients of Biopesticides and Soil Fertility Enhancer in Shallot Fields at Wates Village Tulungagung	56
<i>Rachmanita D Prastiti, Arga D Indrawan, Penta Suryaminarsih, Tri Mujoko, Bakti W Widjajani</i>	
Phytochemical Compounds and Antibacterial Activity to Escherichia coli of Green Macro Algae	63
<i>Ketut Srie Marhaeni Julyasih, Arika Purnawati</i>	
"Hulun Hyang" Farmer Group Asset Mapping Using Asset-Based Community Development Methode as an Ex-situ Edelweiss Flower Conservation in the Bromo Tengger Semeru National Park Area (Case Study: Edelweiss Park, Wonokitri Village)	68
<i>Melati Julia Rahma, Soemarno Soemarno, Jati Batoro</i>	

Collaborative Management to support sustainable Community Forest	75
<i>Hertasning Yatim, Yusran Yusran, Supratman, Nur Zaman</i>	
Growth and fruit yield of sponge gourd (<i>Luffa acutangula</i> L.) as influenced by combination of plant spacing and chicken manure.....	81
<i>A R Fahreza, N Aini</i>	
The Decreasing Interest of Farmers in Soybean Farming in Puger Sub-District Jember Regency	87
<i>Nurul Fathiyah Fauzi, Sisi Dwi Andriyani, Aisyah Yuristianti Utami</i>	
Study of antibiosis of <i>Streptomyces</i> sp. from the land of shallot plants as biological agents of <i>Fusarium</i> sp. cause of Twisted diseases (Moler)	93
<i>Penta Suryaminarsih, Tri Mujoko, K Gusriyan, Fitri Wijayanti, Salmah Mohammad</i>	
Evaluation of the Success of Forest Land Based on Geographic Information Systems, in Wonosalam District, Jombang Regency	99
<i>Maroeto, P. Rossyda, Mohammad Idhom, Wahyu Santoso, Siswanto</i>	
The Use of Pest Mobile Application for Optimizing the Sustainability Support of Pest Management in Oil Palm Plantation	105
<i>Henny Hendarjanti, Sapto W. Indratno</i>	

Author Index