



KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
UNIVERSITAS HASANUDDIN
FAKULTAS PERTANIAN
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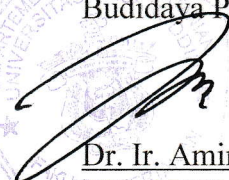
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Makassar, 9 Juli 2019

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Dr. Ir. Amir, M.Si
NIP. 195911031991031002

| No | Nama Dosen | Status pada Artikel | Anggota Penulis Lain: | Judul Publikasi | Nama Jurnal/Prosiding |
|----|--------------------------------------|---------------------|---|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
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| | | | | | |
|----|--|---------|---|--|--|
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| | | Ketua | Elkawakib Syam'unNovaty Eny Dunga | Vertikultur Sayur Sehat Di Pekarangan | Prosiding Seminar Nasional Pengabdian Pada Masyarakat Jurr Dinamika Pengabdian |
| | | Anggota | Ambri Bakhtiar (Ketua) Elkawakib Syam'un | The Growth And Production Of Soybean (Glycine max) Using Nitrogen Fixing Bacteria And Phosphate Solubilizing Bacteria.(Manuscript) | Suranaree Journal of Science and Technology |
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| | | Anggota | Muhamamd Kadir (Ketua) Yunus Musa Muhammad Farid B Amin Nur Karlina Syahrudin | Deteksi Alel Spesifik Pada Populasi Gandum Tropis Toleran Suhu Tinggi Menggunakan Marka SSR | Jurnal Ilmiah INOVASI, |
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| | | | | | |
|----|----------------------------------|---------|---|--|---|
| 14 | Dr. Ir. Hj. Feranita Haring, MP. | Anggota | 1. Rinaldi Sjahril (Ketua), 2. Rusli M. Rukka, 3. Rahmansyah Dermawan | PERBENIHAN KULTUR JARINGAN ANGGREK PADA TEACHING INDUSTRY UNIVERSITAS HASANUDDIN | Jurnal Dinamika Pengabdian |
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| | | | | | |
|----|-----------------------------------|---------|--|---|--|
| 18 | Ir. Rinaldi Sjahril, M.Agr, P.hD. | Ketua | 1. Muh. Riadi, 2. Rafiuddin 3. Trisnawaty AR, 4. Muh. Mukhtadir Putra, 5. Andi Muliarni Okasa, 6. Sepsriyanti Kannapadang | The Effect of Argon And Carbon Ion After Heavy Ion Beam Irradiation of Toraja Local Rice | IOP Conf. Series: Earth and Environmental Science |
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| 19 | Dr. Ir. Katriani Mantja, MP. | Anggota | Wardana A. Slamet S.H. Andarias Darwis Abd. Haris Bahrun | Induction of Lili Hujan polyploid (<i>Zephyranthes rosea</i> Lindl.) with ethanolic extract of Tapak Dara leaf (<i>Catharanthus roseus</i> (L.) G. don.) to increase its economic value | IOP Conference Series: Earth and Environmental Science |
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| | | Anggota | Dr. Ifayanti Ridwan, SP. MP. Dr. Ir. Amir Yassi, M.Si. Dr. Hari Iswoyo, SP. MA. | PEMBELAJARAN PEMBERDAYAAN MASYARAKAT MELALUI PENGEMBANGAN PERTANIAN ORGANIK PADA LAHAN SAWAH TADAH HUJAN DI DESA BILA KECAMATAN DUA PITUE KABUPATEN SIDRAP | Jurnal Dinamika Pengabdian |
| 21 | Dr. Ir. Abd. Haris B., M.Si. | Anggota | Wardana A. Slamet S.H. Andarias Katriani Mantja Darwis | Induction of Lili Hujan polyploid (<i>Zephyranthes rosea</i> Lindl.) with ethanolic extract of Tapak Dara leaf (<i>Catharanthus roseus</i> (L.) G. don.) to increase its economic value | IOP Conference Series: Earth and Environmental Science |

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|----|-------------------------------------|---------|---|---|---|
| 22 | Cri Wahyuni Brahmiyanti, SP., M.Si. | Anggota | E Rahail Untari I Herdjiono Saadah Cri Wahyuni | Low-emission strategy through effective planning and public participation in Merauke | IOP Conference Series: Earth and Environmental Science |
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| 23 | Nurfaida, SP. M.Si | Anggota | Dr. Ifayanti Ridwan, SP. MP. Dr. Ir. Amir Yassi, M.Si. Dr. Hari Iswoyo, SP. MA. Rahmansyah Dermawan, SP. M.Si. Abdul Mollah, SP. M.Si Nurfaida, SP. M.Si Cri Wahyuni Brahmi Yanti, SP. M.Si. Tigin Dariati, SP. MES. Dr. Ir. Katriani Mantja, MP Nuniek Widiayani, SP. MP. | PEMBELAJARAN PEMBERDAYAAN MASYARAKAT MELALUI PENGEMBANGAN PERTANIAN ORGANIK PADA LAHAN SAWAH TADAH HUJAN DI DESA BILA KECAMATAN DUA PITUE KABUPATEN SIDRAP | Jurnal Dinamika Pengabdian |
| 24 | Dr. Hari Iswoyo, SP. MA. | Anggota | Prof. Dr. Ir. Kahar Mustari, MS. Dr. Hari Iswoyo, SP. MA | RAPD primer screening for amplification on Katokkon pepper from Toraja, South Sulawesi, Indonesia | IOP Conf. Series: Earth and Environmental Science |
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| 25 | Abdul Mollah, SP. M.Si. | Anggota | Dr. Ifayanti Ridwan, SP. MP. Dr. Ir. Amir Yassi, M.Si. Dr. Hari Iswoyo, SP. MA. Rahmansyah Dermawan, SP. M.Si. Abdul Mollah, SP. M.Si Nurfaida, SP. M.Si Cri Wahyuni Brahmi Yanti, SP. M.Si. Tigin Dariati, SP. MES. Dr. Ir. Katriani Mantja, MP Nuniek Widiayani, SP. MP. | PEMBELAJARAN PEMBERDAYAAN MASYARAKAT MELALUI PENGEMBANGAN PERTANIAN ORGANIK PADA LAHAN SAWAH TADAH HUJAN DI DESA BILA KECAMATAN DUA PITUE KABUPATEN SIDRAP | Jurnal Dinamika Pengabdian |
| 26 | Dr. Ifayanti Ridwan Saleh, SP. MP. | Ketua | Dr. Shaun N. Lisson Assc. Prof. Phil H. Brown Dr. Ir. Rusnadi Padjung, M.Sc. | Changes in planting environment due to climate change likely to affect the pre-emergent growth of potato (<i>Solanum tuberosum</i> L.) having different seed tubers physiological ages | IOP Conf. Series: Earth and Environmental Science (EES) |
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| 27 | Nuniek Widiayani, SP. MP. | Anggota | Dr. Ifayanti Ridwan, SP. MP. Dr. Ir. Amir Yassi, M.Si. Dr. Hari Iswoyo, SP. MA. | PEMBELAJARAN PEMBERDAYAAN MASYARAKAT MELALUI PENGEMBANGAN PERTANIAN ORGANIK PADA LAHAN SAWAH TADAH HUJAN DI DESA BILA KECAMATAN DUA PITUE KABUPATEN SIDRAP | Jurnal Dinamika Pengabdian |

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|----|--------------------------------|----------------|---|--|---|
| 28 | Rahmansyah Dermawan, SP. M.Si. | Anggota | Prof. Dr. Ir. Yunus Musa, M.Sc. | Budidaya Jagung dengan Populasi Tinggi untuk Meningkatkan Produktivitas dan Efisiensi Lahan di Indonesia | Jurnal Agrosaintek |
| | | Anggota | Prof. Kahar Mustari Hari Iswoyo | RAPD primer screening for amplification on Katokkon pepper from Toraja, South Sulawesi, Indonesia | IOP Conf. Series: Earth and Environmental Science |
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PREFACE

The 1st International Conference on Global Issue for infrastructure, environment & socio-economic development (IC-GIESED 2018) was held in Makassar, Indonesia on September 31- October 1, 2018. IC-GIESED 2018 is dedicated to address issues related to natural disaster management on risk reduction toward sustainable development for civic society, hosted by Post Graduate School of Hasanuddin University and Publication Management Centre (PMC), Hasanuddin University.

Natural disaster still becomes a global issue in the world, particularly, Indonesia. The major goal and feature of the conference was to promote knowledge, science, and technology as well as to address issues in natural disaster, by bringing together researchers, scientists, practitioners and scholars in the respected fields. Professors from Japan and Australia are invited to deliver keynote speeches, together with invited speakers from Philippine, Malaysia, Netherlands and Indonesia. Their presence indicates the concern and role of the researchers, scientists and practitioners which are significant in keeping Global Issue for infrastructure, environment & socio-economic development.

This proceedings present selected papers submitted to the conference by academics and researches from universities and research institutes. All papers were subjected to rigorous peer-reviews by conference committee members and international reviewers to ensure their compliance to meet the required standard for qualified scientific publication. This volume presents recent researches in the field of Global Issue for infrastructure, environment & socio-economic development covering various related areas: disaster analysis, disaster monitoring and mitigation, emergency preparedness, risk mitigation, risk and security, safety and resilience, socio-economic issues, health risk, infrastructure & environment, human factors and multi-hazard risk assessment

We would like to appreciate all authors who have contributed to this proceedings, the conference committee, speakers, attendees, organizing committee and sponsors who have made the 1st GIESED 2018 a succes. We wish the conference will have significant contribution in field of global issue for infrastructure, environment & socio-economic development. We are also expecting that this conference proceeding contributes in looking at a new paradigm for global Issue for infrastructure, environment & socio-economic development.

Herman Parung
Chair of Organizing Commitee GIESED 2018.

Muhammad Arsyad
Director of Publication Management Centre
Hasanuddin University



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Development of light intensity data acquisition system to identify the suitability of soil conservation plants under the stand of Cocoa trees

Suhardi¹, M T Sapsal¹ and R Sjahrir²

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suhardi@unhas.ac.id

¹ Department of Agricultural Engineering, Hasanuddin University, Makassar 90245, Indonesia

² Department of Agronomy, Hasanuddin University, Makassar 90245

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Abstract

One of the causes of the decline in cocoa productivity is the decreasing quality of land due to erosion. Application of conservation techniques to cocoa land are limited because this plant is an annual plant. One possible conservation technique is to conserve soil through vegetation. The problem in cultivating plants under tree stands is the lack of sunlight intensity because of the shade of canopy plants and protective plants. To determine the level of cover that is suitable for the growth of conservation plants, self-developed tools have been built to measure intensity of the sun light. The sensor used is the NHGH09BU Photosynthetic Active Radiation Sensor. This sensor connected to the Arduino UNO

microcontroller module. The result of the test shows that this system can display a pattern of changes in the intensity of sunlight for 24 hours, where data above 300 W / m² reached at 10.00-14.30, and 0 W / m² at 16.50 -7.20.

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