

ARTICLES



Variability of fruit shelf-life of commercial tomatoes and their hybrids crossing with insensitivity ethylene mutant tomato *Sletr1-2*

1

Gungun Wiguna, Nedya Putri Bachtiar, Anas, Noladhi Wicaksana, Syariful Mubarak, and Imas Rita Saadah



Humic acid enriched with urea and NPK factory by-products promoted the growth and yield of *Saccharum officinarum* L.

9

Muhammad Abdul Aziz, Fauziatul Fitriyah, Sri Wahyuni, Poppy Arisandy, Hana Fadila, Valdi Muhamad Rafiansyah Siregar, Sulastri, Insyiah Meida Luktyansyah, Priyono, and Siswanto



Effects of different management practices on the growth and yield of corn

22

Yusril Syafrizal, Nindy Sevirasari, and Cahyo Adileksana



Characteristics and classification of the peat at Toba Highland, North Sumatera, Indonesia

35

Sarifuddin, Ester Juliana Sitohang, and Mukhlis



Effects of water hyacinth compost and biological agents (*Trichoderma* sp) on the growth and yield of shallots (*Allium ascalonicum* L.) in dry land

43

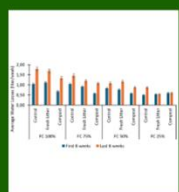
Laurensius Lehar, Tri Luchi Proklamita, and Zainal Arifin



Response of mineral formulation towards different growth phases of arabica coffee in lowland

51

Distiana Wulanjari, Ketut Anom Wijaya, Muhammad Ghuftron Rosyady, Suwardiyanto, Susan Barbara Patricia Sembiring Meliala, Setiyono, and Oria Alit Farisi



Sugarcane leaf litter biomass and its effects on increasing sugarcane drought stress tolerance and reducing CO₂ emissions

57

Donny Nugroho Kalbuadi, Siswanto, and Happy Widiastuti

ILMU PERTANIAN
(AGRICULTURAL SCIENCE)
ISSN : 0126-4214 (Print) e-ISSN : 2527-7162 (Online)
Vol. 9 No.1 April 2024

Ilmu Pertanian (Agricultural Science) is a scientific, open access, peer-reviewed journal and provides publications of novel research in all aspect of tropical agricultural science with the scope of smart agriculture, agronomy, plant science, soil science, genetics and plant breeding, biotechnology in plant breeding, plant technology, and plant productions. Ilmu Pertanian (Agricultural Science) is published three times annually, April, August, and December.

Ilmu Pertanian (Agricultural Science) is nationally accredited with Sinta 2 as a scientific journal by the Ministry of Research-Technology and the Higher Education Republic of Indonesia: 5162/E4/AK.04/2021 Period: Vol.5 No.3 2020 until Vol.10 No.2 2025

EDITORIAL TEAM

Editor in Chief

Prof. Dr. Rudi Hari Murti, S.P., M.P. (Universitas Gadjah Mada, Indonesia)

Editorial Board

Prof. Dr. Irwandi Jaswir (International Islamic University Malaysia, Malaysia)

Dr. Endang Septiningsih (Texas A&M University, United States of America)

Dr. Chee How Teo (University of Malaya, Malaysia)

Dr. Sastia Prama Putri (Osaka University, Japan)

Dr. Kim Kyung Min (Kyungpook National University, Republic of Korea)

Dr. Bunyamin Tar'an (University of Saskatchewan, Canada)

Dr. Agung Wahyu Susilo (Indonesian Coffee and Cocoa Research Institute, Indonesia)

Associate (Handling) Editors

Dr. Elly Syafriani, S.P. (Universitas Gadjah Mada, Indonesia)

Nur Ainun Harlin Jennie Pulungan, S.Si., M.Sc., Ph.D. (Universitas Gadjah Mada, Indonesia)

Valentina Dwi Suci Handayani, S.P., M.Sc., Ph.D. (Universitas Gadjah Mada, Indonesia)

Enik Nurlaili Afifah, S.P., M.Sc. (Universitas Gadjah Mada, Indonesia)

Editorial Assistants

Vivien Tiara Dewi, S.Si. (Universitas Gadjah Mada, Indonesia)

Sri Junandi, S.I.P. (Universitas Gadjah Mada, Indonesia)

Laili Hidayah, M.A. (Universitas Gadjah Mada, Indonesia)

Palupi Jatuasri, S.P. (Universitas Gadjah Mada, Indonesia)

PUBLISHERS

Faculty of Agriculture, Universitas Gadjah Mada

Perhimpunan Sarjana Pertanian Indonesia (PISPI)

EDITORIAL ADDRESS

Faculty of Agriculture, Universitas Gadjah Mada

Jl. Flora, Bulaksumur, Yogyakarta 55281, Indonesia

Phone/Fax: 62-274-563062, +628112632106

E-mail: jip.faperta@ugm.ac.id