



ISSN: 2442-3750 (print)
ISSN: 2527-6204 (online)
Volume 7, Issue 3, November 2021

Nationally Accredited based on the Decree of the Minister of Research, Technology and Higher Education of Indonesia, Number [30/E/KPT/2018](#) as a **SINTA 2 journal**.

JPBI (Jurnal Pendidikan Biologi Indonesia), ISSN 2442-3750 ([print](#)); ISSN 2527-6204 ([online](#)), publishes a scientific papers on the results of the study/research and review of the literature in the sphere of biology education in primary education, secondary education, and higher education. Additionally, this journal also covers the issues on environmental education. This journal collaborates with Asosiasi Lesson Study Indonesia (ALSI)/Indonesian Association of Lesson Study. Editor accepts the article has not been published in other media with the writing format as listed on page manuscript writing guidelines.

JPBI (Jurnal Pendidikan Biologi Indonesia) was established in 2015, published three times a year, on March, July, and November. Started by Volume 3, Number 3, November 2017, the journal was only published by using one language namely English. The journal has been indexed in **DOAJ, BASE, Garuda, Google Scholar, SINTA**, and others.

JPBI (Jurnal Pendidikan Biologi Indonesia), in English is the "Indonesian Journal of Biology Education". The word "**Indonesia**" does not mean that the article is only written by an author from Indonesia, but it is more meaningful: (1) the journal publisher is from Indonesia and (2) the article needs to be related to conditions in Indonesia or countries that have the same conditions so that the article is expected to have implications and contributions to overcome Biology Education problems in Indonesia or possibilities to be applied in Indonesia.

Editorial Team

Editor-in-Chief

Assoc. Prof. Dr. Atok Miftachul Hudha, Scopus ID: 57209580278; Department of Biology Education, University of Muhammadiyah Malang, East Java, Indonesia

Section/Handling Editor

1. Mr H. Husamah, Scopus ID: 57195803428; Department of Biology Education, University of Muhammadiyah Malang, East Java, Indonesia
2. Mrs Diani Fatmawati, Scopus ID: 57188975423; Department of Biology Education, University of Muhammadiyah Malang, East Java, Indonesia
3. Mr Ahmad Fauzi, Scopus ID: 57190423577; Department of Biology Education, University of Muhammadiyah Malang, East Java, Indonesia

Editorial Advisory Regional Africa

Prof. Dr. Anthony Kudjo Donkor, Scopus ID: 55794169000; University for Development Studies, Tamale, Ghana

Editorial Advisory Regional America and Europe

Assoc. Prof. Dr Siti N. Hidayati, Scopus ID: 6602160347; Department of Biology, Middle Tennessee State University, Murfreesboro, United States

Editorial Advisory Regional South Asia

Dr. Shahin Gavanji, Scopus ID: 54883969200; Chairman of World Academy of Medical Sciences (WAMS); Department of Biotechnology, Faculty of Advanced Sciences and Technologies, University of Isfahan, Isfahan, Iran, Islamic Republic of

Editorial Advisory Regional Southeast Asia

Prof. Dr. Henita Rahmayanti, Scopus ID: 57193697371, Department of Population and Environmental Education, Universitas Negeri Jakarta, The Special Capital of Jakarta, Indonesia

Editorial Board

- Prof. Dr. Nuryani Y Rustaman, Scopus ID: 55872695700; Science Education Departement, Indonesia University of Education (UPI), West Java, Indonesia
- Prof. Dr. Nobuyasu Katayama, Scopus ID: 7102706409; Tokyo Institute for Biology Education; and Department of Biology, Faculty of Education, Tokyo Gakugei University, Koganei, Japan, Japan
- Prof. Dr. Dongryeul Kim, Scopus ID: 57037347100, Biology Education Major, Department of Science Education, College of Education, Daegu National University of Education, Daegu, Korea, Republic of
- Prof. Dr. Animesh Ku. Mohapatra, Scopus ID: 35729036800; Department of Life Science, Regional Institute of Education (NCERT), Bhubaneswar, Odisha, India



- Prof. Dr. Aloysius Duran Corebima, Scopus ID: 56857563800; Department of Biology, Universitas Kanjuruhan Malang, Malang, East Java; Prof. Emeritus at Universitas Negeri Malang, Indonesia
- Prof. Dr. Muhammad Faizal A. Ghani, Scopus ID: 49861280500; Department Of Educational Management, Planning, and Policy Faculty Of Education, University of Malaya, Kuala Lumpur, Malaysia
- Prof. Dr. Imran Parvez, Scopus ID: Hajee Mohammad Danesh Science and Technology University, Dinajpur, Bangladesh
- Assoc. Prof. Ziyng Engdasew, SCOPUS ID: 56006357200; School of Educational Sciences, Adama Science and Technology University, Ethiopia
- Assoc. Prof. Dr Siti N. Hidayati, Scopus ID: 6602160347; Department of Biology, Middle Tennessee State University, Murfreesboro, United States
- Assist. Prof. Dr Hidayah Binti Mohd Fadzil, Scopus ID: 56256057000; Department of Mathematics and Science Education, Faculty of Education, University of Malaya, Kuala Lumpur, Malaysia
- Assit. Prof. Pratchayapong Yasri, Scopus ID: 36543463100; Institute for Innovative Learning, Mahidol University, Nakhon Pathom, Thailand
- Assoc. Prof. Dr. Ruqiah Ganda Putri Panjaitan, Scopus ID: 55656556500, Biology Education Program, Mathematics and Natural Science Education Department, Teaching and Education Faculty, Universitas Tanjungpura, Indonesia
- Assoc. Prof. Dr Puguh Karyanto, Scopus ID: 57202219619, Department of Biology Education, Faculty of Teacher Training and Education, Universitas Sebelas Maret, Surakarta, Central Java; Head of Indonesian Consortium for Biology Education, Indonesia
- Assoc. Prof. Dr. Agus Sutanto, Scopus ID: 57210971026; Department of Biology Education, University of Muhammadiyah Metro, Lampung, Indonesia
- Assoc. Prof. Dr. Yuni Pantiwati, Scopus ID: 57190660805, Biology Education, Postgraduate, Universitas Muhammadiyah Malang, Indonesia
- Assoc. Prof. Dr. Marheny Lukitasari, Scopus ID: 57201676274; Department of Biology Education, University of PGRI Madiun, East Java, Indonesia
- Mr Ilmi Zajuli Ichsan, Scopus ID: 57209737062; Department of Biology Education, Faculty of Mathematics and Sciences, Universitas Negeri Jakarta, Special Region of Jakarta, Indonesia

Copy Editor and Proofreader

- Assist. Prof. Tien Tien Lee, Ph.D; Scopus ID: 55220444400; Department of Chemistry; Faculty of Science & Mathematics; Sultan Idris Education University, Malaysia
- Fuad Jaya Miharja, Scopus ID: 57208113299, Department of Biology Education, University of Muhammadiyah Malang, East Java, Indonesia
- Dwi Setyawan, Scopus ID: 57201433886, Department of Biology Education, University of Muhammadiyah Malang, East Java, Indonesia
- Dr Arsad Bahri, Scopus ID: 56857333400; Department of Biology, State University of Makassar (UNM), South Sulawesi, Indonesia

Administration

1. Tutut Indria Permana, Scopus ID: 56598093500; Department of Biology Education, University of Muhammadiyah Malang, East Java, Indonesia
2. Fendy Hardian Permana, Scopus ID; Department of Biology Education, University of Muhammadiyah Malang, East Java, Indonesia
3. Mr. Moh Mirza Nuryady, Scopus ID; 56809465100, Department of Biology Education, Universitas Muhammadiyah Malang, ID, Indonesia

Editorial Office

Department of Biology Education, Faculty of Teacher Training and Education,
University of Muhammadiyah Malang
3rd Campus, 1st Floor, BioEdu Room, Tlogomas Street No. 246 Malang, East Java, Indonesia
Postal Code: 65144
Phone: +62341- 464318 Ext.120 Fax: 0341- 460782
E-mail: jpbi@umm.ac.id / journal.educationalbiology@gmail.com
Website: <http://ejournal.umm.ac.id/index.php/jpbi>



TABLE OF CONTENT

Utilization of e-learning platforms by lecturers during the COVID-19 pandemic in Indonesia Dian Tauhidah, Ummi Nur Afinni Dwi Jayanti, Amining Rahmasiwi, Rahmania Pamungkas, Ahmad Saifulloh	198
Least mastered competencies in biology: Basis for instructional intervention Jack Torno Delos Santos, Roselyn Lim, Danilo V. Jr Rogayan	208
Profile composition of knowledge dimension in learning activities during the Covid-19 pandemic in structure and function of plant Eriska Novita Sari, Bambang Subali	222
Integration of local wisdom through Enculturation-Assimilation-Acculturation (EAA): A solution to enhance problem-solving skills Ika Nurani Dewi, Baiq Muli Harisanti, S. Sumarjan	231
University students' perception towards online learning in biology N. Nurdiyanti, Muhammad Wajdi, Nurul Magfirah, Nurul Fadhilah	240
A biodiverse entrepreneurship-based textbook: A media of students' entrepreneurship enthusiasm development Nur Hayati, Lina Arifah Fitriyah	248
Colleges of education science student engagement in Emergency Remote Teaching amidst COVID-19 in Nigeria Bello Ganiyu	258
Vocational students' HOTS and HOTSEP overview in developing ITA learning model Ana Amalia Islami, Henita Rahmayanti, Tuti Iriani, Ilmi Zajuli Ichsan, Isil Koc, Rahmawati Darussyamsu	267
Bibliometric analysis of studies on the Flipped Classroom Model in biology teaching Hüseyin Cihan Bozdağ, Suat Türkoğuz, İsa Gökler	275
Scientific attitudes of young children through literature-based and project-based learning organization Veena Prachagool, Chanlada Arsaiboon	288

VOLUME 7, ISSUE 3, NOVEMBER 2021