



# ASEAN Journal for Science and Engineering in Materials



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## Four Years of Yayasan Bumi Publikasi Nusantara's Contribution to Advancing Knowledge and Supporting the Sustainable Development Goals (SDGs): A Bibliometric Perspective on ASEAN Journal for Science and Engineering in Materials

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### ABSTRACT

Since its establishment on 10 January 2022, Yayasan Bumi Publikasi Nusantara (BPN) has been dedicated to enhancing the quality and visibility of Indonesian scientific publications, aligning with the Sustainable Development Goals (SDGs), particularly SDG 4 (Quality Education) and SDG 9 (Industry, Innovation, and Infrastructure). BPN currently manages nine international open-access journals through the Open Journal Systems platform. Among these, the ASEAN Journal for Science and Engineering in Materials (AJSEM) stands out as a leading journal, engaging authors from 17 countries and disseminating impactful theoretical and experimental research in material science. BPN has strengthened the national and global research ecosystem, fostered international collaboration, and promoted open science. This paper highlights BPN's achievements, challenges, and strategic recommendations to advance its role in supporting global scientific progress and the SDGs. This study combines a descriptive overview with bibliometric analysis, examining publication trends, citation performance, and global collaboration patterns in material science.

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## 1. INTRODUCTION

Scientific publication serves as a vital mechanism for advancing knowledge, facilitating scholarly communication, and fostering innovation across disciplines. In Indonesia, however, challenges such as limited international visibility, insufficient indexing, and restricted access to high-quality journals have hindered the growth of a robust research ecosystem. Addressing these issues requires strategic initiatives capable of elevating both the quality and global impact of national research outputs ([Prasojo et al., 2025](#)). In response, Yayasan Bumi Publikasi Nusantara (BPN) was established on January 10, 2022, by Srie Rosalin Nandiyanti, with a mission to strengthen the quality and accessibility of Indonesian scholarly publications in alignment with international standards. Officially recognized through Notarial Deed No. 08, Registration No. 5022011132101017, and the Decree of the Ministry of Law and Human Rights of the Republic of Indonesia No. AHU-0000783.AH.01.04.Tahun 2022, BPN operates as a legally accredited institution committed to advancing research excellence.

Over the past four years, BPN has successfully developed and managed nine peer-reviewed, open-access international journals via the Open Journal Systems (OJS) platform. Among them, the ASEAN Journal for Science and Engineering in Materials (AJSEM) has emerged as a flagship publication, attracting contributions from 17 countries and disseminating high-impact theoretical and experimental research in material science. BPN's commitment aligns strongly with Sustainable Development Goals (SDGs), especially SDG 4 for Quality Education and SDG 9 for Industry, Innovation, and Infrastructure, as its publications not only advance academic discourse but also support capacity building, innovation, and international collaboration. The organization integrates rigorous editorial processes, robust peer review, and global networking, ensuring that its journals meet international scientific and ethical standards. Based on a previous study ([Nandianti, 2025](#)), this paper aims to provide a comprehensive account of BPN's contributions, particularly in material science through AJSEM, by combining a descriptive overview with bibliometric analysis. It examines publication trends, citation performance, and global collaboration patterns, while also identifying challenges and proposing strategic recommendations. The novelty of this study lies in presenting the first combined descriptive and bibliometric analysis of BPN's journals (particularly AJSEM), highlighting its global research network, SDG relevance, and role as a model for emerging scientific publication institutions in Indonesia.

## 2. METHOD

This study employed a mixed descriptive and bibliometric approach to analyze the contributions of BPN to scientific publication, with a particular focus on AJSEM. Detailed information regarding bibliometrics is explained elsewhere ([Rochman et al., 2024](#); [Al Husaeni & Nandiyanto, 2022](#); [Al Husaeni & Al Husaeni, 2022](#)).

## 3. RESULTS AND DISCUSSION

Since its establishment in January 2022, BPN has evolved rapidly into a multi-journal publisher with a broad disciplinary reach. As of August 2025, BPN manages 9 peer-reviewed, open-access international journals hosted on the OJS platform (see **Table 1**), including ASEAN Journal of Physical Education and Sport Science (AJOPES), ASEAN Journal of Religion, Education, and Society (AJORES), ASEAN Journal of Agriculture and Food Engineering (AJAFE), ASEAN Journal of Economic and Economic Education (AJEEE), AJSEM, ASEAN Journal for Science Education (AJSEd), ASEAN Journal of Community Service and Education (AJCSE),

ASEAN Journal of Educational Research and Technology (AJERT), and ASEAN Journal of Community and Special Needs Education (AJCSNE). These journals collectively serve as dissemination channels for a wide range of academic disciplines, and representative examples of current publications are presented in **Tables 2 and 3**.

**Table 1.** Journals managed by Yayasan Bumi Publikasi Nusantara (BPN).

| No. | Journal Title | ISSN (p/e)                  | Field / Scope                      |
|-----|---------------|-----------------------------|------------------------------------|
| 1   | AJOPESS       | p: 2964-2302 / e: 2964-5727 | Physical Education, Sport Science  |
| 2   | AJORES        | p: 2964-2108 / e: 2964-0814 | Religion, Education, Society       |
| 3   | AJAFE         | p: 2963-9093 / e: 2961-9505 | Agriculture, Food Engineering      |
| 4   | AJEEE         | p: 2828-9064 / e: 2828-9056 | Economics, Economic Education      |
| 5   | AJSEM         | p: 2828-920X / e: 2828-9951 | Material Science, Engineering      |
| 6   | AJSEd         | p: 2828-3287 / e: 2828-3295 | Science Education                  |
| 7   | AJCSE         | p: 2829-0216 / e: 2828-8122 | Education, Community Service       |
| 8   | AJERT         | p: 2828-4887 / e: 2828-4860 | Educational Research, Technology   |
| 9   | AJCSNE        | p: 2828-3236 / e: 2828-3309 | Special Needs Education, Community |

**Table 2.** Current publication in BPN.

| No | Title  | Reference  |
|----|--|--|
| 1  | Effectiveness of cooperative learning using multimedia in some physical abilities and basic skills for junior players in basketball.   | <a href="#">Abbood (2024)</a>                      |
| 2  | Teachers 21st century skills special program in sports curriculum.   | <a href="#">Bantilan (2024)</a>                    |
| 3  | Achievement motivation and socio-economic status of engineering sports persons.  | <a href="#">Pathania (2024)</a>                    |
| 4  | Play-based learning as a tool in enhancing physical skill development of children.   | <a href="#">Sulyman et al. (2024)</a>              |
| 5  | Assessment of the potential in halal tourism in the Philippines: The case of the Islamic city in Marawi, Lanao Del Sur, the Philippines.   | <a href="#">Daud &amp; Laguindab (2025)</a>        |
| 6  | Encoding schemes for image and symbol classification in religious traditions.  | <a href="#">Khimataliev &amp; Omonova (2025)</a>   |
| 7  | Reconciling faith and identity: Homosexuality, emotional trauma, and religious interpretations in Islam, Christianity, Judaism, Hinduism, Buddhism, and the perks of being a wallflower. | <a href="#">Warren (2025)</a>                      |
| 8  | Understanding cultural competence in non-muslim nurses caring for muslim patients in the Philippines.  | <a href="#">Contaio (2025)</a>                     |
| 9  | Exploring mythology as a cultural, religious, and literary device in Uzbek and English literature.   | <a href="#">Nabiyeva &amp; Abduramanova (2025)</a> |
| 10 | Optimizing psychomotor skills through project-based learning in seaweed dodol processing.  | <a href="#">Wahyuningsih et al. (2024)</a>         |
| 11 | Enhancement of sensory qualities of papaya leaf extract (PLE) gummy candy.   | <a href="#">Acob et al. (2024)</a>                 |
| 12 | A bibliometric analysis of seed priming: Global research advances.   | <a href="#">Nurrahma et al. (2024)</a>             |
| 13 | Assessing the socio-economic impacts of urban sprawl on rural communities.   | <a href="#">Muzaffar &amp; Ali (2025)</a>          |
| 14 | Contribution of cooperation between Indonesia and Singapore in the tourism sector to the domestic economy.   | <a href="#">Hibatullah &amp; Paksi (2025)</a>      |
| 15 | Financial management practices of elementary school heads: A case study.   | <a href="#">Amado et al. (2025)</a>                |
| 16 | Corporate pricing strategies and consumer welfare: Analyzing ethical, economic, and regulatory implications.   | <a href="#">Kamraju (2025)</a>                     |

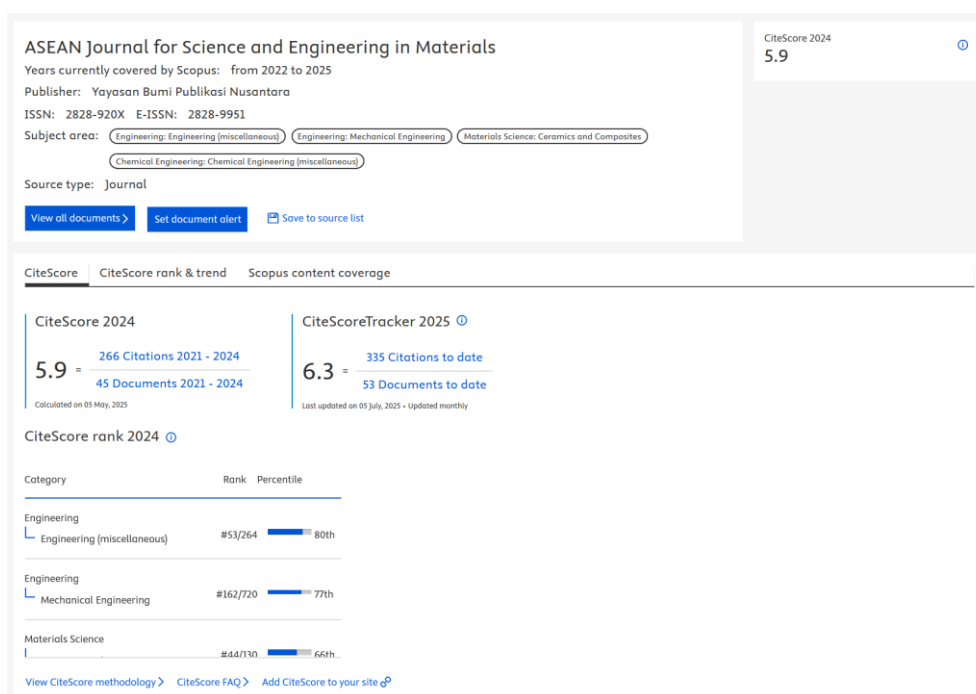
**Table 2 (continue).** Current publication in BPN.

| No | Title   | Reference  |
|----|---|--|
| 17 | Advancing machine learning for financial fraud detection: A comprehensive review of algorithms, challenges, and future directions.            | <a href="#">Herath (2025)</a>                      |
| 18 | Development and validation of CalTech (calculator techniques) exercises manual.   | <a href="#">Vicera (2025)</a>                      |
| 19 | Effects of the language and discourse of Nigerian newspaper reporting on national security: Peoples' perceptions.                             | <a href="#">Deji-Afuye &amp; Deji-Afuye (2025)</a> |
| 20 | Community service assessment of senior secondary school students' enrolment and attitudes toward formal education.                            | <a href="#">Olomola et al. (2025)</a>              |
| 21 | The Islamic ethos of interfaith socialization: Strengthening community harmony.   | <a href="#">Daud (2025)</a>                        |
| 22 | Evaluation of robotics class in a private school in the Philippines.  | <a href="#">Ahillon Jr et al. (2025)</a>           |
| 23 | The effectiveness of blended education in educational institutions.   | <a href="#">Salomova (2025)</a>                    |
| 24 | An investigation of factors that motivate academics to conduct research and research productivity in Lao Public Universities.                 | <a href="#">Sackdanouvong (2025)</a>               |
| 25 | Structural equation modelling of factors influencing confidence in mathematics.   | <a href="#">Bendol &amp; Dalayap Jr (2025)</a>     |
| 26 | Perception and attitude of undergraduates toward online learning platforms in post-covid-19.  | <a href="#">Abdulmumin et al. (2025)</a>           |
| 27 | The role of interactive pedagogy for educational reform.  | <a href="#">Ergashi &amp; Muhidin (2025)</a>       |
| 28 | Ensuring the effectiveness of education through interactive methods in the modern pedagogical process.  | <a href="#">Rashid &amp; Khurshid (2025)</a>       |
| 29 | Effectiveness of the phenomenon-based approach in enhancing senior high school students' mathematical achievement and problem-solving skills. | <a href="#">Sabugal &amp; Apellido Jr (2025)</a>   |
| 30 | Investigating teaching strategies to braille beginners in special pre-primary schools.  | <a href="#">Komba et al. (2025)</a>                |
| 31 | Organizing subject-practical activities to support the development of hearing-impaired children with intellectual disabilities.               | <a href="#">Baxtiyor &amp; Ruslanovna (2025)</a>   |

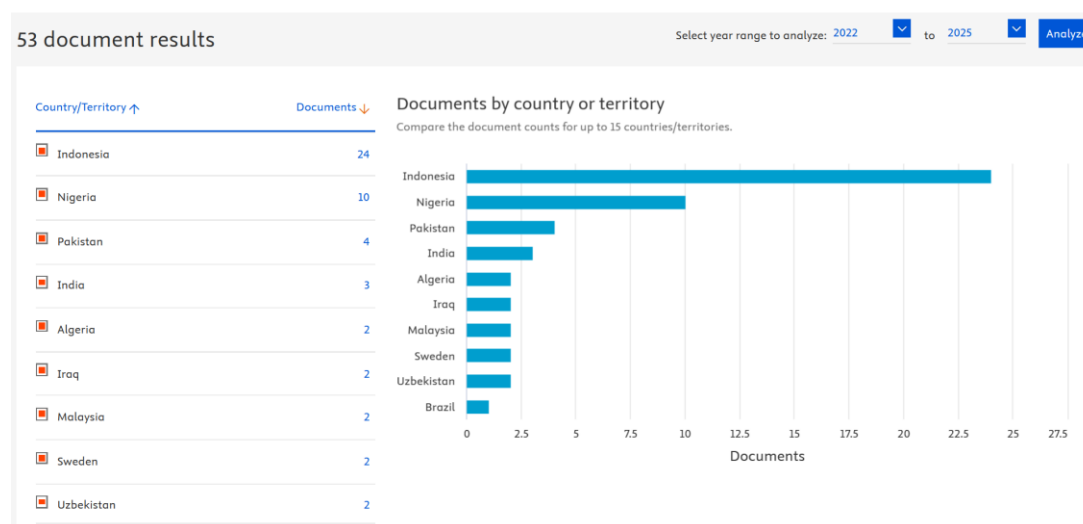
**Table 3.** Top-cited papers in AJSEM (in 2024) based on Scopus (taken in August 2025).

| No | Title  | Reference  | Cited |
|----|--|--|-------|
| 1  | Sustainable packaging: Bioplastics as a low-carbon future step for the sustainable development goals (SDGs).                     | <a href="#">Basnur et al. (2024)</a>             | 36    |
| 2  | How to calculate economic evaluation in industrial chemical plant design: A case study of gold mining using amalgamation method. | <a href="#">Fiandini &amp; Nandiyanto (2024)</a> | 18    |
| 3  | Techno-economic analysis of the business potential of recycling lithium-ion batteries using hydrometallurgical methods.          | <a href="#">Rachmadhani &amp; Priyono (2024)</a> | 11    |

Among the nine journals, AJSEM has emerged as the flagship publication (see **Figure 1**), recognized for its rigorous editorial standards, biannual publication frequency, and diverse international author base representing 17 countries (**Figure 2**). Its focus on material science positions AJSEM as a strategic platform for advancing innovation, bridging academic research and industrial applications. When compared to other prominent science and engineering journals in Indonesia, such as the *Indonesian Journal of Science and Technology (IJoST)* and the *ASEAN Journal of Science and Engineering (AJSE)* (see **Tables 4 and 5**), AJSEM demonstrates commendable performance. AJSEM holds a competitive position within Indonesia and Southeast Asia, with strong citation metrics and a high proportion of international authorship.



**Figure 1.** AJSEM in Scopus database (<https://www.scopus.com/sourceid/21101288812>).



**Figure 2.** Contributed country in AJSEM

**Table 4.** Top-cited papers in IJoST (in 2024) based on Scopus (taken in August 2025).

| No | Title  | Reference                         | Cited |
|----|--|-----------------------------------|-------|
| 1  | Low-carbon food consumption for solving climate change mitigation: Literature review with bibliometric and simple calculation application for cultivating sustainability consciousness in facing sustainable development goals (SDGs). | Nurramadhani <i>et al.</i> (2024) | 57    |
| 2  | How to calculate statistics for significant difference test using SPSS: Understanding students comprehension on the concept of steam engines as power plant.   | Fiandini <i>et al.</i> (2024)     | 49    |
| 3  | Augmented reality for cultivating computational thinking skills in mathematics completed with literature review, bibliometrics, and experiments for students.  | Angraini <i>et al.</i> (2024)     | 39    |

**Table 4 (continue).** Top-cited papers in IJoST (in 2024) based on Scopus (taken in August 2025).

| No | Title   | Reference                                | Cited |
|----|---|--|-------|
| 4  | Prototype of greenhouse effect for improving problem-solving skills in science, technology, engineering, and mathematics (STEM)-education for sustainable development (ESD): Literature review, bibliometric, and experiment. | <a href="#">Solihah et al. (2024)</a>    | 28    |
| 5  | Assessment of student awareness and application of eco-friendly curriculum and technologies in Indonesian higher education for supporting sustainable development goals (SDGs): A case study on environmental challenges.     | <a href="#">Djirong et al. (2024)</a>    | 22    |
| 6  | Chatbots as digital language tutors: revolutionizing education through AI.  | <a href="#">Luckyardi et al. (2024)</a>  | 18    |
| 7  | Towards sustainable wind energy: A systematic review of airfoil and blade technologies over the past 25 years for supporting sustainable development goals (SDGs).  | <a href="#">Krishnan et al. (2024)</a>   | 18    |
| 8  | Light intensity distribution in the room using light dependent resistor: Through the engineering design process.  | <a href="#">Susilawati et al. (2024)</a> | 17    |
| 9  | Measurement enhancement of ultrasonic sensor using pelican optimization algorithm for robotic application.  | <a href="#">Khaleel et al. (2024)</a>    | 16    |

**Table 5.** Top-cited papers in AJSE (in 2024) based on Scopus (taken in August 2025).

| No | Title   | Reference                                | Cited |
|----|---|--|-------|
| 1  | How technology can change educational research? Definition, factors for improving quality of education and computational bibliometric analysis.   | <a href="#">Al Husaeni et al. (2024)</a> | 61    |
| 2  | How bibliometric analysis using VOSviewer based on artificial intelligence data (using ResearchRabbit Data): Explore research trends in hydrology content.                              | <a href="#">Rochman et al. (2024)</a>    | 41    |
| 3  | Research trends from the scopus database using keyword water hyacinth and ecosystem: A bibliometric literature review.  | <a href="#">Nandiyanto et al. (2024)</a> | 38    |
| 4  | Chatbot artificial intelligence as educational tools in science and engineering education: A literature review and bibliometric mapping analysis with its advantages and disadvantages. | <a href="#">Al Husaeni et al. (2024)</a> | 28    |
| 5  | How to read and determine the specific surface area of inorganic materials using the Brunauer-Emmett-Teller (BET) method.   | <a href="#">Irwansyah et al. (2024)</a>  | 24    |
| 6  | Use of blockchain technology for the exchange and secure transmission of medical images in the cloud: Systematic review with bibliometric analysis.                                     | <a href="#">Lizama et al. (2024)</a>     | 23    |
| 7  | Artificial intelligence (AI)-based learning media: Definition, bibliometric, classification, and issues for enhancing creative thinking in education.                                   | <a href="#">Solihat et al. (2024)</a>    | 20    |
| 8  | An application of statistical testing: A guide to basic parametric statistics in educational research using SPSS.   | <a href="#">Rahayu et al. (2024)</a>     | 18    |
| 9  | Effects of sustained deficit irrigation on vegetative growth and yield of plum trees under the semi-arid conditions: Experiments and review with bibliometric analysis.                 | <a href="#">Laita et al. (2024)</a>      | 16    |

BPN's capacity to sustain nine active journals reflects its commitment to building a robust scholarly infrastructure. This breadth of coverage fosters cross-disciplinary synergies, enabling knowledge from one field to inform and inspire innovations in another. Moreover, BPN's publication activities align strongly with SDG 4 and SDG 9. Across its journals, numerous articles contribute to enhancing educational quality, promoting technological innovation, and supporting industrial development. In AJSEM, a significant proportion of articles address

sustainable material innovation, environmentally friendly technologies, and engineering solutions for industrial applications, all directly supporting SDG 9. Likewise, education-focused journals such as AJSEd, AJERT, AJCSNE, and AJCSE emphasize teacher training, STEM education, and digital learning strategies, contributing to SDG 4. This synergy between editorial policy and author contributions demonstrates BPN's relevance in the global academic community and its active role in advancing sustainability-focused research.

#### 4. CONCLUSION

In four years, BPN has grown into a reputable publisher managing nine peer-reviewed, open-access international journals via the OJS platform. One of the best journals in BPN is AJSEM, standing out for its rigorous standards, international authorship from 17 countries, and competitive citation metrics. BPN's open-access model and alignment with SDG 4 and SDG 9 enhance educational quality, foster innovation, and support industrial development. This study affirms BPN's significant impact and outlines strategic directions to strengthen editorial quality, expand global collaborations, and increase visibility through enhanced indexing.

#### 5. ACKNOWLEDGMENT

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#### 6. AUTHORS' NOTE

The author declares that there is no conflict of interest regarding the publication of this article. The author confirmed that the paper was free of plagiarism.

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