

DEVELOPMENT STRATEGY OF MINING TECHNOLOGY JOURNAL AS JOURNAL PUBLICATION PLATFORM IN IMPROVEMENT OF PUBLICATIONS IN MINING ENGINEERING DEPARTMENT

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Abstract

University is a place that is a reflection of the face of education. This is because universities are able to produce high quality human resources. Higher education has the responsibility of pursuing the target for publication of scientific journals. These publications are the measure of research quality even as to the quality of teaching and devotion to the community. One measure of the research quality is the publication of that study in a scientific journal. The national journal level consists of ordinary journals and accredited national journals. Accredited journals have levels ranging from level 1 to level 6. The international journal level consists of ordinary international journals and global reputed international journal. In the international global reputation there is the journal quality clusterization with Quartile terms, with 4 quartile, Q1, Q2, Q3 and Q4. The Q1 is the highest or most important cluster in terms of journal quality, followed by Q2, Q3 and Q4 below. The study aims to determine how much increase in publications in mining engineering and technical mining strategies the technology journal has developed as a platform that can be used for publication improvements. It will be developed into an accredited and indexed journal by Scopus which will enhance the quality of the journal.

Keywords: Publication, Journal, Accredited, Mining Technology Journal.

I. INTRODUCTION

University is a place that is a reflection of the face of education [1]. This is because universities are able to produce high quality human resources. Higher education has the responsibility of pursuing the target for publication articles in scientific journals. These publications are the measure of research quality even as to the quality of teaching and devotion to the community. One measure of the research quality is the publication of that study in a scientific journal [2]. Scientific journals or academic journals are collections of periodised scientific articles in order to disseminate the results of recent research for the advancement of science [3]. Scientific journals need to be published periodically according to Permendiknas No. 22 Tahun 2011 which states that scientific publications are a form of notification or communication containing scientific works and published on a scheduled basis in printed and/or electronic form. This is based on Peraturan Dirjen Dikti No. 1 Tahun 2014 concerning Guidelines for Accreditation of Periodic Publication [4] The level of national journals consists of ordinary journals and accredited national journals. Accredited journals also have levels ranging from level 1 to level 6. The international journal level consists of ordinary international journals and international journals with global reputation. The international journal level consists of ordinary international journals and international journals of global reputation. In an international journal with global reputation, there is a clustering of journal quality with the term Quartile, with 4 Quartiles, namely Q1, Q2, Q3 and Q4. The Q1 is the highest or most important cluster in terms of journal quality, followed by Q2, Q3 and Q4 below [2].

In the Department of Mining Engineering UPN “Veteran” Yogyakarta, the publication of journals and proceedings are sometimes hampered regarding publication platform. The Mining Engineering Department itself consists of several study programs including the Mining Engineering Bachelor Program, the Metallurgical Engineering Bachelor Program and the Mining Engineering Masters Program. In improvement of publications in the Department, it is necessary to create a publication platform. Until now, the Mining Engineering Master Program as one of the mainstay study programs of UPN “Veteran” Yogyakarta, already has a scientific journal called Mining Technology Journal. However, the journal is

not managed properly so that it is not enough to provide benefits. The journal is read only by certain authorities and it is very difficult to rely on funding from the sale of journal, while production costs are currently quite high. On the other hand, advertising will actually lower the accreditation assessments, while collecting fees from writers does not seem to help much. Therefore, it is necessary to allocate funds from the annual budget so that the Mining Technology Journal can be published regularly without being hampered by funding problems.

Some of the points above indicate that research on improving the quality of Mining Technology Journal at the Master of Mining Engineering Program, Universitas Pembangunan Nasional "Veteran" Yogyakarta, is very crucial and needs to be carried out immediately.

II. LITERATURE REVIEW

Scientific publication is a publication system that produces high-quality objectivity-level research based on peer-reviewed research conducted by experts in the same field of science [5]. Currently, scientific publications have a different business model from the previous pattern, namely by transitioning from a print publishing format to an electronic format. Scientific publications are currently undergoing major changes, arising from the transition from the print publishing format to the electronic format, which has a different business model from the previous pattern. The current general trend is that access to electronic scientific journals is provided openly. This means that more and more scientific publications are freely available online, both as provided by the journal publishers and as by the authors of the journal articles themselves.

Electronic Journal or e-Jurnal is a serial publication such as in a printed form, but this journal is made into an electronic form. Consists of three formats, namely text, text and graphics, as well as full image (in PDF format). The publishing process starts from the announcement of writing requests, submissions from authors, reviews, notification of review results, submission of writing corrections, editing and layout, printing to distribution all done online by utilizing information technology [6]. Electronic journals in terms of access are divided into two types, namely; (1) Open access electronic journals, that can be downloaded and printed freely; (2) Closed access electronic journals, that cannot be downloaded if you are not subscribed and need to use a password to access them. The electronic journal that can be accessed with open access is a journal that contains information sources that allow users to access scientific works for free. Electronic journals that are available online, anyone around the world can access them without obstacles both in legal and technical issues [7].

The online journal publishing system is a processing system that functions to publish conventional and printed online journals in the process including submitting incoming articles, editing, reviewing, and resubmitting until the journal is ready to be published [8].

III. RESEARCH METHODOLOGY

This qualitative research uses library research and field studies through observations and interviews in collecting data. The data were analyzed using a content analysis approach.

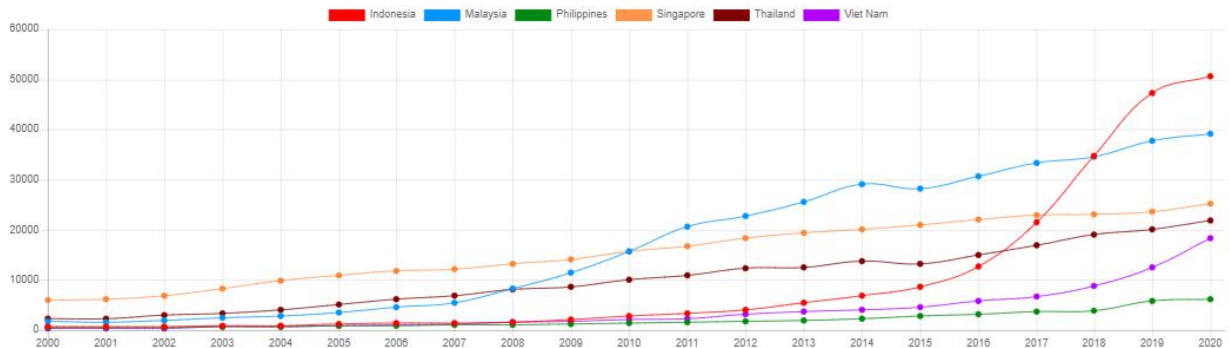
The stages are carried out as follows:

1. Literature study related to this research.
2. Looking for publication data carried out by UPN "Veteran" Yogyakarta.
3. Looking for publication data in the Department of Mining Engineering.
4. Make an analysis of the data that has been collected.
5. Making an analysis of the Mining Technology Journal development.
6. Make problem solving.

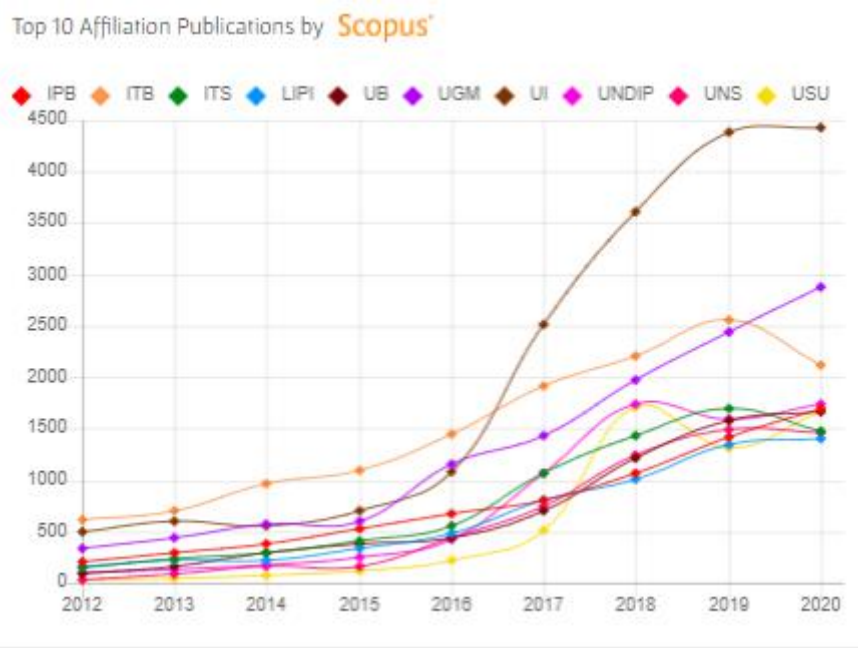
IV. FINDING AND DISCUSSION

Based on data collected through the website <https://sinta.ristekbrin.go.id/> It is known that Indonesia is one of the countries in Asean which publishes the largest publications in Scopus both in the form of journals and proceeding.

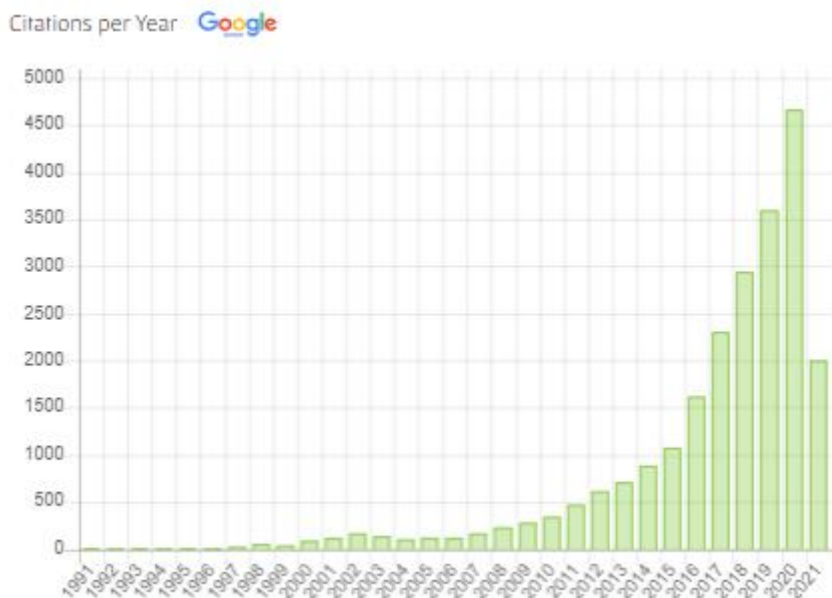
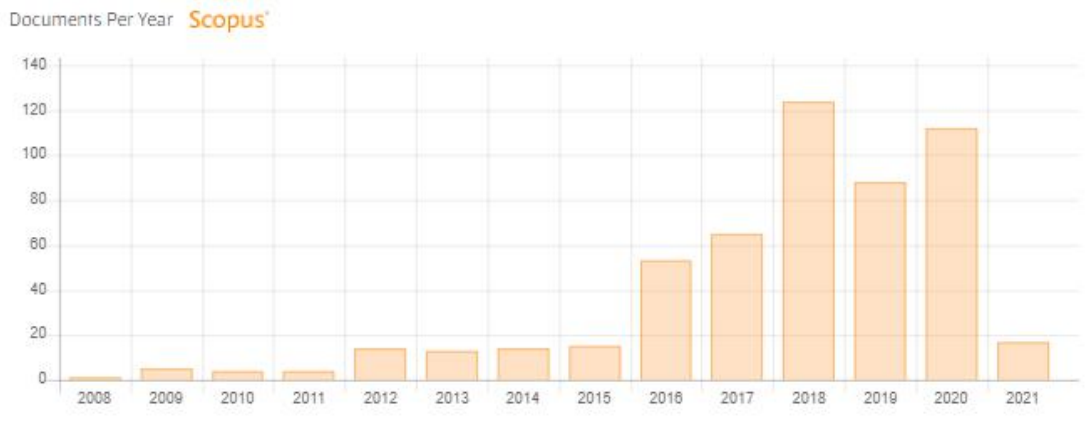
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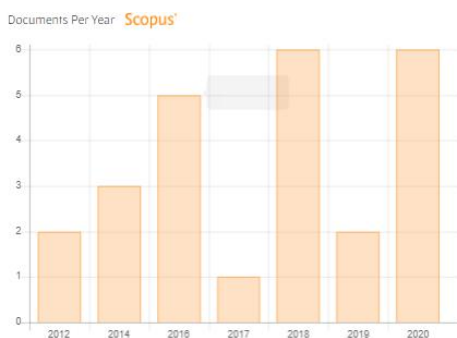
It can be seen that Indonesia experienced a sharp spike in Scopus-indexed publications from 2018 to 2020 and became the country with the most publications in ASEAN countries. And it can be seen that the increase in publications occurs in the education sector, we can see how universities in Indonesia continue to increase their publications.



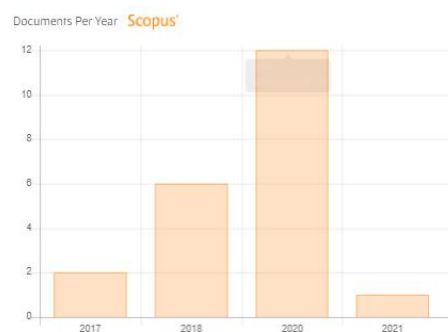
It is not surprising that Indonesia experienced a sharp spike in the writing of scientific publications indexed by Scopus because every university also continues to increase its publications, then what about the condition of publications at UPN "Veterans" Yogyakarta, based on data taken from <https://sinta.ristekbrin.go.id/>, UPN also experienced a large increase and became one of the universities that experienced an increase in the number of publications.



From the data above, there is a big increase in relation to publications indexed by Scopus and Scholar at UPN “Veteran” Yogyakarta. The Mining Engineering Department which in the last 5 years has also experienced an increase in number of publications, but is still in a low publication position at UPN, namely the Mining Engineering Master Program ranked at 13th and the Mining Engineering Bachelor Program ranked at 20th and Metallurgical Engineering Bachelor Program at position 27th, so it is necessary to get known the cause of the problem. The number of articles is known to have increased but not significantly.



Mining Engineering Master Program



Mining Engineering Bachelor Program

Meanwhile, none of the Metallurgical Engineering Study Programs has been published on Scopus. So it is necessary to do a SWOT analysis in relation to the strategy that must be carried out by the Mining Engineering Department in increasing publications.

SWOT Analysis

Strategy SO	Internal Factors	External Factors	Strategy ST
	Strength (S)	Opportunities (O)	
Produce superior quality in paper publishing and scientific publication management	<ol style="list-style-type: none"> 1. Making customer satisfaction a high priority in scientific publications 2. Creating better interaction and communication between members of the MTJ publication management team 3. Performance of scientific publications according to customer demands and responsive to changes 4. Paper writing is faster and more regular 	Healthy competition between the quality of other scientific publications	Increasing the existence of MTJ Journals that apply Agile methods in managing scientific publication
Strategy WO	Weakness (W)	Threats (T)	Strategy WT
MTJ publication team is given flexible working hours	<ol style="list-style-type: none"> 1. Scientific publication management will not work if the team's commitment is lacking 2. The team must always be ready for change 3. Uncertain publication schedule for a paper 	Other scientific publications have better qualities	Motivate each other with a Working Agreement

It is need to improve the quality of journals for publication platform so it could increase the quantity of publications in the Mining Engineering Department. One of them is to develop MTJ as one of the journals that will have reputation by indexing it on Scopus. It is hoped that with the increase in indexation at MTJ, it can absorb publications made by UPN internally, especially in the Department of Mining Engineering. The pattern of development that needs to be considered is how to manage a good journal consisting of:

1. Standardized journal management system and has a clear SOP
2. Good article management system
3. Improving the quality of journals by monitoring and evaluating journals
4. And the development of a good publication system in increasing the number of incoming articles.

With good management of the journal system in the mining engineering department, it is hoped that it can increase the publications in the department and can improve the quality and quality of the publications produced.

V. CONCLUSION AND FURTHER RESEARCH

The increase in scientific publications in Indonesia is due to the necessity of lecturers and researchers to publish publications in indexed journals or proceedings. This significant increase has positive impact on the research development in Indonesia, as well as at UPN "Veteran" Yogyakarta, especially in the Department of Mining Engineering. The increase in publications must be balanced with an increase in the quality of research so that the Mining Engineering Department must improve the quality of the


publications produced. To make it easier to publish, the Mining Engineering Department develops a journal that will be registered on the Scopus indexation, where the aim is to be a good publication forum for researchers in the Mining Engineering Department. Therefore, good journal management needs to be done. The MTJ in the Mining Engineering Department is expected to increase the quantity of literature available on mining industry.

VI. ACKNOWLEDGEMENT

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