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Title: Indonesian state educational universities' bibliometric dataset

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Corresponding Author: Dr. Lantip Diat Prasajo,

Corresponding Author's Institution: State University of Yogyakarta

First Author: Lantip Diat Prasajo

Order of Authors: Lantip Diat Prasajo; Reni Fatmasari; Eti Nurhayati;
Ahmad Darmadji; Fitri Ayu Kusumaningrum; Yuli Andriansyah

Submit Date: Aug 26, 2018

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Detailed Response to Reviewers

Dear Editor of Data in Brief,

We are very interested in submitting and publishing our research articles in Data in Brief. We attached the zip file consists of dataset for this data article.

I am looking forward to hearing from you

Thank you very much

Best regards,

Dr. Lantip Diat Prasajo

*Title:	Indonesian state educational universities' bibliometric dataset
*Authors:	Lantip Diat Prasajo
*Affiliations:	Department of Educational Management, Postgraduate Program, Universitas Negeri Yogyakarta, Indonesia
*Contact email:	lantip@uny.ac.id
*Co-authors:	Reni Fatmasari (reni.fatmasari@gmail.com), Eti Nurhayati (etinurhayati@syekhnurjati.ac.id), Ahmad Darmadji (ahmad.darmadji@uii.ac.id), Fitri Ayu Kusumaningrum (fitriayukusumaningrum@uii.ac.id), & Yuli Andriansyah (yuliandriansyah@uii.ac.id)
*CATEGORY:	Education

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Affiliations: ¹Department of Educational Management, Postgraduate Program, Universitas Negeri Yogyakarta, Indonesia, ²Master of TESOL, Faculty of Education, Monash University, Australia, ³Department of Islamic Early Childhood Education, Faculty of Islamic Education, Institut Agama Islam Negeri Syekh Nurjati, Indonesia, ⁴Department of Islamic Education & Master of Islamic Studies, Faculty of Islamic Studies, Universitas Islam Indonesia, Indonesia, ⁵Department of Psychology, Faculty of Psychology and Socio-Cultural Studies, Universitas Islam Indonesia, Indonesia, ⁶Department of Islamic Economics, Faculty of Islamic Studies, Universitas Islam Indonesia, Indonesia

Contact email: lantip@uny.ac.id

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More specific subject area	Higher education
Type of data	Table and figure
How data was acquired	Scopus search analysis
Data format	Raw and filtered
Experimental factors	Institutional search in Scopus is conducted to obtain ten Indonesian leading educational universities
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Data source location	Indonesia
Data accessibility	The dataset is accessible within this article data
Related research article	<ol style="list-style-type: none"> 1. A. Darmadji, L. D. Prasajo, Y. Riyanto, F. A. Kusumaningrum, and Y. Andriansyah, "Publications of Islamic University of Indonesia in Scopus Database: A bibliometric assessment," <i>COLLNET J. Sci. Inf. Manag.</i>, vol. 12, no. 1, pp. 109–131, 2018. 2. A. Darmadji, L. D. Prasajo, F. A. Kusumaningrum, and Y. Andriansyah, "Research productivity and international collaboration of top Indonesian universities," <i>Curr. Sci.</i>, vol. 115, no. 4, pp. 653–658, 2018.

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Please let me know if there is something that we need to add or revise related to our article.

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Value of the Data

- The dataset in this article will help further research on research quality of Indonesian educational universities. Policy makers, researchers, and other stakeholders can use the dataset to compare research quality of each university.
- The dataset will also provide useful tool for analysis in university level. Policy makers, researchers, and other stakeholders can use the dataset to analyze research quality of each university in terms of productivity, collaboration, citation and others.
- The dataset will also be useful in conducting citation analysis of highly-cited documents. This particular data can provide insight on how to publish in high impact academic journals as well as conferences.

Data

This article data presents bibliometric dataset of ten Indonesian leading educational universities. Educational universities in this context are those that previously known as IKIP or

Institut Keguruan dan Ilmu Pendidikan (Institute of Teaching and Educational Sciences). These universities previously provide higher education services to prepare teachers all over Indonesia after Independence Day. In the late 1990s and early 2000s, Government of Indonesia transform these universities into more open in educational services by providing courses in education, law, humanities, business, engineering, technology and others. This transformation changes also these universities name from previously institute to university.

After the transformation, some of educational universities show its capacity to compete to improve research quality. This dataset focuses on leading educational universities with largest publication in Scopus. Scopus is chosen as database because of its usage by Government of Indonesia to rank universities. Ranking these Indonesian leading educational universities based on Scopus documents results in names as follow: Universitas Pendidikan Indonesia (UPI), Universitas Negeri Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ), Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri Gorontalo (UNG).

Table 1 below summarizes ten Indonesian leading educational universities name and its abbreviation, documents in Scopus, first year in Scopus, average documents until 2010, and average documents from 2011 to 2018. This data is useful to understand the pattern of these universities' documents in Scopus database. Average documents before and after 2010 are presented to show the increasing trend in documents in Scopus as implication of policies by Government of Indonesia regarding Scopus. In 2010s, Government of Indonesia uses Scopus for some important policies for higher education: 1) document in Scopus is required for professor tenure[1]; 2) university ranking based on document in Scopus[2], [3]; and 3) researcher ranking based on document and citation in Scopus[2]. These policies imply competition among universities, including educational ones, to publish in Scopus-indexed journals and conference that make improvement in data in Table 1 reasonable.

Table 1 General information of ten Indonesian educational universities in dataset

University Name and Abbreviation	Documents in Scopus	First Year in Scopus	Average Documents Until 2010*	Average Documents 2011-2018*
Universitas Pendidikan Indonesia (UPI)	1382	2002	4.22	168.00
Universitas Negeri Malang (UM)	611	2000	6.55	67.38
Universitas Negeri Semarang (UNNES)	559	2001	2.00	67.38
Universitas Negeri Surabaya (Unesa)	547	2000	1.45	66.38
Universitas Negeri Yogyakarta (UNY)	340	2002	1.78	40.50

University Name and Abbreviation	Documents in Scopus	First Year in Scopus	Average Documents Until 2010*	Average Documents 2011-2018*
Universitas Negeri Makassar (UNM)	338	2000	0.91	41.00
Universitas Negeri Jakarta (UNJ)	304	2001	2.20	35.25
Universitas Negeri Padang (UNP)	261	2003	1.25	31.38
Universitas Negeri Medan (Unimed)	141	2000	1.55	15.50
Universitas Negeri Gorontalo (UNG)	104	2008	0.67	12.75

Source: Scopus, accessed June 27, 2018. *Authors estimation.

After using Scopus database to search for leading educational universities in Indonesia, further steps collect data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each universities. This data were then saved in an .xlsx file for each university. Every .xlsx file consists of data for single university. To explain what each .xlsx file consists of, sample of Universitas Pendidikan Indonesia will be described in the following tables and figure.

Table 2 below describes number of documents per year in Scopus published by Universitas Pendidikan Indonesia (UPI). This table informs initial year the university published document in Scopus and its development until recently. Increasing trend in data can also simply be viewed from this table.

Table 2 Documents per Year of Universitas Pendidikan Indonesia (UPI)

Year	Documents
2002	1
2003	5
2004	0
2005	5
2006	5
2007	3
2008	5
2009	0
2010	14
2011	13
2012	28
2013	41
2014	50
2015	55
2016	270

Year	Documents
2017	507
2018	380

Source: Scopus, accessed June 27, 2018.

Figure 1 below describes subject area of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. This subject area can inform the strength of the university in publication. It can also be a good source to evaluate transformation of the university from previously focused on education to a wider range of teaching as today. Policy makers from Government of Indonesia can use this data to analyze whether policy on educational university has a shift paradigm in publication and soon.

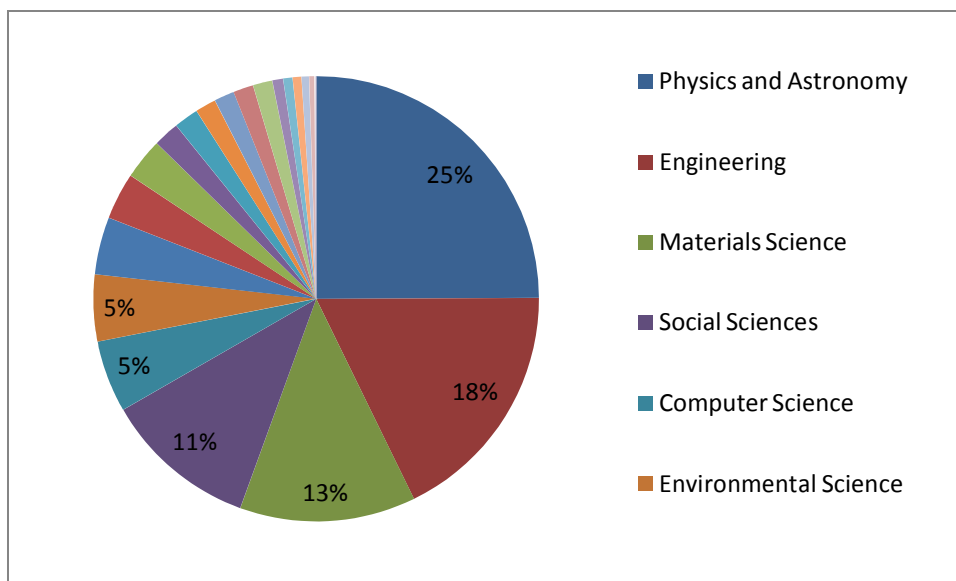


Figure 1 Subject Area of Documents of Universitas Pendidikan Indonesia (UPI)

Source: Scopus, accessed June 27, 2018.

Table 3 below describes source titles of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. The data on source title can inform the trend in the university's publication. A researcher can use this data to analyze quality of source based on its impact factor, SCIMago journal ranking, CiteScore, and other measurements. The source can also be a good source to determine the university policy in publication: whether it focuses on quantity, by allowing researchers to publish at any kind of Scopus-indexed journals and conferences, or quality, by emphasizing on only high impact journals or conferences.

Table 3 Source Title of Documents of Universitas Pendidikan Indonesia (UPI)

Source Title	Documents
Journal of Physics Conference Series	392

Source Title	Documents
IOP Conference Series Materials Science And Engineering	243
AIP Conference Proceedings	127
IOP Conference Series Earth And Environmental Science	62
Indonesian Journal of Applied Linguistics	44
Jurnal Pendidikan IPA Indonesia	31
Man In India	31
Pertanika Journal of Science And Technology	19
International Journal of Applied Business And Economic Research	16
Advanced Science Letters	11
International Journal Of Economic Research	11
Journal Of Engineering Science And Technology	11
ARNP Journal Of Engineering And Applied Sciences	6
New Educational Review	6
American Journal Of Applied Sciences	5
Indonesian Journal Of Chemistry	5
International Journal Of Instruction	5
Jurnal Teknologi Sciences And Engineering	5
Materials Science Forum	5
Social Sciences Pakistan	5

Source: Scopus, accessed June 27, 2018.

Table 4 below describes document types of publication in Scopus by Universitas Pendidikan Indonesia (UPI). The data can inform the university policy in publishing research. Government of Indonesia considers article has a greater value than conference paper. Thus, when the university emphasizes on conference paper, it can be an indication for its effort to improve number of documents. Document types can also inform the variety of academic communication by the university.

Table 4 Document Types of Universitas Pendidikan Indonesia (UPI)

Document Type	Documents
Conference Paper	949
Article	400
Book Chapter	11
Review	7
Editorial	6
Article in Press	4
Erratum	3
Note	2

Source: Scopus, accessed June 27, 2018.

Table 5 below describes country/territory of document origin by Universitas Pendidikan Indonesia (UPI) in Scopus. The data can inform collaboration pattern of the university in term of country. The data shows Indonesia in top list which can be interpreted as main source of document origin. Japan follows in second list as indication of 63 documents published in collaboration with researchers from this country. This data will also be useful to map collaboration based on regions. Researchers for example can analyze publications in collaboration with Asian, European, American countries, and soon.

Table 5 Country/Territory of Documents of Universitas Pendidikan Indonesia (UPI)

Country/Territory	Documents
Indonesia	1379
Japan	63
Malaysia	32
South Korea	19
Netherlands	16
Australia	15
United States	15
Turkey	8
China	7
Pakistan	7
Poland	7
Saudi Arabia	7
Canada	6
Italy	6
Mexico	6
Brazil	5
Bulgaria	5
Croatia	5
Estonia	5
Ghana	5
Hong Kong	5
Hungary	5
India	5
Iran	5
Kenya	5
Nigeria	5
Portugal	5
Romania	5
Russian Federation	5
Slovakia	5
Spain	5

Country/Territory	Documents
Uganda	5
United Kingdom	5
Philippines	4
Switzerland	4
France	3
Germany	3
Singapore	3
Bosnia and Herzegovina	2
Colombia	2
Israel	2
Taiwan	2
Thailand	2
Argentina	1
Austria	1
Chile	1
Czech Republic	1
Finland	1
Norway	1
Peru	1
Serbia	1
Ukraine	1
Undefined	3

Source: Scopus, accessed June 27, 2018.

Table 6 below describes prominent authors in Universitas Pendidikan Indonesia (UPI). These authors are those whose largest documents in Scopus. The data on these authors can be useful to analyze disparities among staff member of university. Policy makers can also use the data as source of potential individuals tasked to improve university publication. For public, these authors can also be sources for commentary and analysis for occurring events in the society.

Table 6 Authors of Documents of Universitas Pendidikan Indonesia (UPI)

Author Name	Documents
Nandiyanto, A.B.D.	70
Abdullah, A.G.	51
Suhandi, A.	38
Rustaman, N.Y.	31
Samsudin, A.	28
Hasanah, L.	27
Setiawan, A.	27
Jupri, A.	26
Firman, H.	24

Author Name	Documents
Kaniawati, I.	24
Suryadi, D.	22
Permanasari, A.	20
Riza, L.S.	20
Rusdiana, D.	20
Hidayat, T.	19
Khoerunnisa, F.	19
Liliasari	19
Redjeki, S.	19
Munir	18
Herman, T.	17

Source: Scopus, accessed June 27, 2018.

Table 7 below describes affiliations in documents by Universitas Pendidikan Indonesia (UPI) in Scopus. The data consists of universities, research institutions, libraries and other entities having collaboration with the university in publishing documents. This type of data can be very useful to analyze collaboration pattern in research in terms of internationalization. Government of Indonesia has encouraged researchers to collaborate with potential partners especially in developed countries by providing relevant grants. Such data can be resource to track the results of this policy. Furthermore, having collaboration with world leading universities, for example those that are listed in Top 100 QS World University Rankings, will also has significant value for accreditation. Thus, policy makers in university can use the data to plan further potential collaboration and choose potential university partners.

Table 7 Affiliation in documents by Universitas Pendidikan Indonesia (UPI)

Affiliation	Documents
Universitas Pendidikan Indonesia	1382
Institut Teknologi Bandung	123
Universitas Padjadjaran	23
Hiroshima University	21
UIN Sunan Gunung Djati	14
Universitas Sultan Ageng Tirtayasa	14
Universitas Riau	11
State University of Malang	11
Shinshu University	10
Universitas Sriwijaya	10
Universitas Muhammadiyah Prof. Dr. HAMKA	10
Universiti Teknologi Malaysia	9
Lembaga Ilmu Pengetahuan Indonesia	8
Universitas Tadulako	8

Affiliation	Documents
Universitas Ahmad Dahlan	8
Gadjah Mada University	7
Bengkulu University	7
Telkom University	7
Universitas Negeri Surabaya	7
Universitas Islam Negeri Syarif Hidayatullah Jakarta	7
Universitas Swadaya Gunung Djati	6
Universiti Kebangsaan Malaysia	6
Utrecht University	6
Universitas Syiah Kuala	6
Federal Neuropsychiatric Hospital	5
Universitas Nusantara PGRI Kediri	5
Universitas Galuh	5
Universidade Federal do Rio de Janeiro	5
Kyung Hee University	5
University of Amsterdam	5
Universiti Utara Malaysia	5
Chiba University	5
Chinese University of Hong Kong	5
Wageningen University and Research Centre	5
Pecsi Tudományegyetem	5
Matej Bel University	5
Universidade do Estado do Rio de Janeiro	5
University of Zagreb	5
Baqiyatallah University of Medical Sciences	5
Akdeniz Üniversitesi	5
Indian Institute of Technology, Guwahati	5
Japan Advanced Institute of Science and Technology	5
Universidad Iberoamericana	5
Ankara Üniversitesi	5
Central University of Finance and Economics	5
King Saud University	5
Cumhuriyet Üniversitesi	5
Adekunle Ajasin University	5
University of Washington, Seattle	5
University of Wrocław	5
Saint Mary's University	5
University of Ghana	5
Izmir Ekonomi Üniversitesi	5
Universidade de Coimbra	5
Russian Academy of Sciences	5
Razi University	5

Affiliation	Documents
Universidade Federal do Rio Grande do Norte	5
Universita Cattolica del Sacro Cuore	5
Universitatea Babes-Bolyai din Cluj-Napoca	5
Kanazawa University	5
University of Nigeria	5
Universidad de Granada	5
Curtin University	5
University of Nairobi	5
University of Karachi	5
University of Tartu	5
Universitas Indonesia	5
Institut Pertanian Bogor	5
Universitas Brawijaya	5
Universitas Sebelas Maret	5
South-West University Neofit Rilski	5
Indian Institute of Management Bangalore	5
Makerere University	5
University Malaysia Pahang	5
Universitas Kanjuruhan Malang	5
Universitas Muhammadiyah Sidoarjo	5
University of Science and Culture, Tehran	5
Pakuan University	5
Universitas Negeri Medan	5
Yayasan Salib Suci	4
Universitas Muhammadiyah Tangerang	4
Arizona State University	4
Tohoku University	4
Institute of Psychology of the Polish Academy of Sciences	4
Universitat Zurich	4
Uniwersytet Warszawski	4
Universidade Federal de Uberlandia	4
Monash University	4
Istanbul Universitesi	4
Pontificia Universidade Catolica do Rio de Janeiro	4
Universitas Diponegoro	4
Universitas Lampung	4
Universitas Pasundan	4
Universitas Terbuka	4
Instituto D'Or de Pesquisa e Ensino	4
Universidade de Coimbra, Faculdade de Psicologia e de Ciencias da Educacao	4
Universitas PGRI Semarang	4
Universitas Serang Raya	3

Affiliation	Documents
PSTNT-BATAN	3
Universitas PGRI Palembang	3
Möttemaru Oü	3
Nanyang Technological University	3
Kyoto University	3
Russian State University for the Humanities	3
Technische Universität Dresden	3
Kumoh National Institute of Technology	3
Yildiz Technical University	3
The University of Warwick	3
University of Tokyo	3
SWPS Uniwersytet Humanistycznospółeczny	3
Constantine the Philosopher University	3
University of Mataram	3
Universitas Pattimura	3
Nisshin Seifun Group Inc	3
Universitas Negeri Jakarta	3
Universitas Negeri Padang	3
STKIP PGRI Sumbar	3
Politeknik Negeri Lhokseumawe	3
Universitas Islam Riau	3
Universitas Sarjanawiyata Tamansiswa	3
Universitas Muhammadiyah Purwokerto	3
International Development Center of	2
Politeknik Negeri Semarang	2
PTNBR-BATAN	2
Public Health Institute	2
Universitas Siliwangi	2
Arsari Group	2
MI Consulting Corporation	2
Institut Teknologi Sumatera	2
Universitas Borneo Tarakan	2
Guangdong Construction Polytechnic	2
Sekolah Tinggi Keguruan Dan Ilmu Pendidikan Pasundan	2
SMAN 2 Kota Sukabumi	2
Dinas Pendidikan	2
STKIP Bima	2
Universitas Singaperbangsa Karawang	2
Hanwha	2
Nagoya University	2
University of Illinois at Urbana-Champaign	2
Kangwon National University	2

Affiliation	Documents
Universiti Sains Malaysia	2
Universite Pierre et Marie Curie	2
Bar-Ilan University	2
Uniwersytet Opolski	2
Slovak Academy of Sciences	2
The University of British Columbia	2
University of Wollongong	2
Hokkaido University	2
International Islamic University Malaysia	2
Universidade da Madeira	2
Simon Fraser University	2
Institute for Materials Research, Tohoku University	2
National Science Museum, Tokyo	2
Baskent Universitesi	2
Universitas Udayana	2
Universitas Andalas	2
Satya Wacana Christian University	2
Institut Teknologi Sepuluh Nopember	2
University of the Philippines Los Banos	2
Japan International Cooperation Agency	2

Source: Scopus, accessed June 27, 2018.

Table 8 below describes twenty most-cited documents of Universitas Pendidikan Indonesia (UPI) in Scopus. The data will be useful resource for citation analysis on authors and its research pattern. Researchers can track journals or conferences with higher citations and plan it for future potential publication outlets. Citation to documents in Scopus, as previously described, has been integrated in ranking for both university and researcher. Thus, such data will be important for institutions to improve its competitiveness in research. University, for example, might use the data to inform authors on what subject to research or what journal to submit and soon. University can also encourage researchers to do more collaborative works, as those that have collaborators, especially foreign experts, tend to have better citations.

Table 8 Most-Cited Documents of Universitas Pendidikan Indonesia (UPI)

Author(s)	Journal	Citation
Vashaei et al. (2005)	Journal of Applied Physics	96
Cho et al. (2005)	Semiconductor Science and Technology	56
Topik, Yukawa, & Ito (2005)	Journal of Plant Research	46
Song et al. (2013)	Carbon	41
Ogi, Nandiyanto, & Okuyama (2014)	Advanced Powder Technology	37
Nandiyanto et al. (2013)	Chemical Engineering Science	31

Author(s)	Journal	Citation
Saito et al. (2006)	Journal of In-Service Education	29
Ray Hamidie et al. (2015)	Metabolism: Clinical and Experimental	26
Muraza et al. (2015)	Microporous and Mesoporous Materials	25
Arutanti et al. (2015)	ACS Applied Materials and Interfaces	25
Fatimah & Verhulst (2003)	Nonlinear Dynamics	25
Simonin et al. (2003)	Hydrometallurgy	23
Nandiyanto et al. (2013)	Langmuir	22
Aisyah et al. (2013)	Journal of Agricultural and Food Chemistry	21
	World Transactions on Engineering and	
Sundayana et al. (2017)	Technology Education	20
Nandiyanto et al. (2014)	Chemical Engineering Journal	19
Arutanti et al. (2014)	AIChE Journal	19
Suhendi et al. (2013)	Langmuir	19
Radiman & Yuliani (2008)	Polymer International	19
Saito et al. (2007)	International Journal of Educational Development	19

Source: Scopus, accessed June 27, 2018.

Experimental Design, Materials, and Methods

This data article collects the dataset from Scopus database. An institutional subscription is required to access the database. Once in Scopus database, institutional search was conducted using keyword “Indonesia”. From more than two hundred institutions, ten state educational universities were chosen. For each university, collection of data was conducted using search analysis tool. Documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each university were downloadable in .csv format. These data in .csv file were then collected in an .xlsx file for each university. Ten .xlsx files for ten Indonesian educational universities were then uploaded along with this data article.

Further usage of the data can be based on policy makers, researchers or stake holders’ point of view. For initial evaluation, a descriptive statistics using some tables and figures can be sufficient. However, a more detailed analysis will require further bibliometric analytic techniques and tools. Previous research can be guidance for researchers for a specific analysis on a university [4] or partial analysis of some universities as set of group [5] for Indonesian context.

Acknowledgments

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collaboration and writing process possible should be acknowledged. Thus, authors thank State University of Yogyakarta, Monash University, Institut Agama Islam Negeri Syekh Nurjati, and Islamic University of Indonesia. This article data along with its further derived publication are solely authors' responsibility and views.

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*Conflict of Interest Form

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Supplementary material

[Click here to download Supplementary material: Indonesian state educational universities bibliometric dataset.zip](#)

Indonesian state educational universities' bibliometric dataset

givennameLantip Diat Prasojosurname^a

lantip@uny.ac.id

givennameReni Fatmasarisurname^b reni.fatmasari@gmail.com

givennameEti Nurhayatisurname^c

etinurhayati@syekhnurjati.ac.id

givennameAhmad Darmadjisurname^d

ahmad.darmadji@uii.ac.id

givennameFitri Ayu Kusumaningrumsurname^e

fitriayukusumaningrum@uii.ac.id

givennameYuli Andriansyahsurname^f

yuliantriansyah@uii.ac.id

^aDepartment of Educational Management, Postgraduate Program, Universitas Negeri YogyakartaYogyakarta, Indonesia

^bFaculty of Education, Monash UniversityUniversity, Australia

^cDepartment of Islamic Early Childhood Education, Faculty of Islamic Education, Institut Agama Islam Negeri Syekh NurjatiNurjati, Indonesia

^dDepartment of Islamic Education & Master of Islamic Studies, Faculty of Islamic Studies, Universitas Islam IndonesiaIndonesia, Indonesia

^eDepartment of Psychology, Faculty of Psychology and Socio-Cultural Studies, Universitas Islam IndonesiaIndonesia, Indonesia

^fDepartment of Islamic Economics, Faculty of Islamic Studies, Universitas Islam IndonesiaIndonesia, Indonesia

Abstract

This data article presents an important bibliometric dataset of ten Indonesian leading educational universities. These ten Indonesian leading educational universities are Universitas Pendidikan Indonesia (UPI), Universitas Negeri Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ), Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri Gorontalo (UNG). Using Scopus database search analysis, this data article collects data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each universities.

Specifications **Table**

alt-text: Table

Subject area	Education
More specific subject area	Higher education

Type of data	Table and figure
How data was acquired	Scopus search analysis
Data format	Raw and filtered
Experimental factors	Institutional search in Scopus is conducted to obtain ten Indonesian leading educational universities
Experimental features	Search analysis in Scopus is conducted for each ten Indonesian leading educational universities to obtain bibliometric data
Data source location	Indonesia
Data accessibility	The dataset is accessible within this article data
Related research article	<ol style="list-style-type: none"> 1. A. Darmadji, L. D. Prasajo, Y. Riyanto, F. A. Kusumaningrum, and Y. Andriansyah, "Publications of Islamic University of Indonesia in Scopus Database: A bibliometric assessment," COLLNET J. Sci. Inform. Manag., vol. 12, no. (1), 2018, pp. 109–131, 2018. 2. A. Darmadji, L. D. Prasajo, F. A. Kusumaningrum, and Y. Andriansyah, "Research productivity and international collaboration of top Indonesian universities," Curr. Sci., vol. 115, no. (4), 2018, pp. 653–658, 2018.

Value of the **Data** data

- The dataset in this article will help further research on research quality of Indonesian educational universities. Policy makers, researchers, and other stakeholders can use the dataset to compare research quality of each university.
- The dataset will also provide useful tool for analysis in university level. Policy makers, researchers, and other stakeholders can use the dataset to analyze research quality of each university in terms of productivity, collaboration, citation and others.
- The dataset will also be useful in conducting citation analysis of highly-cited documents. This particular data can provide insight on how to publish in high impact academic journals as well as conferences.

1 Data

This article data presents bibliometric dataset of ten Indonesian leading educational universities. Educational universities in this context are those that previously known as IKIP or Institut Keguruan dan Ilmu Pendidikan (Institute of Teaching and Educational Sciences). These universities previously provide higher education services to prepare teachers all over Indonesia after Independence Day. In the late 1990s and early 2000s, Government of Indonesia transform these universities into more open in educational services by providing courses in education, law, humanities, business, engineering, technology and others. This transformation changes also these universities name from previously institute to university.

After the transformation, some of educational universities show its capacity to compete to improve research quality. This dataset focuses on leading educational universities with largest publication in Scopus. Scopus is chosen as database because of its usage by Government of Indonesia to rank universities. Ranking these Indonesian leading educational universities based on Scopus documents results in names as follow: Universitas Pendidikan Indonesia (UPI), Universitas Negeri Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ), Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri Gorontalo (UNG).

Table 1 below summarizes ten Indonesian leading educational universities name and its abbreviation, documents in Scopus, first year in Scopus, average documents until 2010, and average documents from 2011 to 2018. This data is useful to understand the pattern of these universities' documents in Scopus database. Average documents before and after 2010 are presented to show the increasing trend in documents in Scopus as implication of policies by Government of Indonesia regarding Scopus. In 2010s, Government of Indonesia uses Scopus for some important policies for higher education: 1) document in Scopus is required for professor tenure [1]; 2) university ranking based on document in Scopus [2,3]; and 3) researcher ranking based on document and citation in Scopus [2]. These policies imply competition among universities, including educational ones, to publish in Scopus-indexed journals and conference that make improvement in data in Table 1 reasonable.

Table 1 General information of ten Indonesian educational universities in dataset.

alt-text: Table 1

Source: Scopus, accessed June 27, 2018.

University Name and Abbreviation	Documents in Scopus	First Year in Scopus	Average Documents Until 2010 ^a	Average Documents 2011-2018 ^a
Universitas Pendidikan Indonesia (UPI)	1382	2002	4.22	168.00
Universitas Negeri Malang (UM)	611	2000	6.55	67.38
Universitas Negeri Semarang (UNNES)	559	2001	2.00	67.38
Universitas Negeri Surabaya (Unesa)	547	2000	1.45	66.38
Universitas Negeri Yogyakarta (UNY)	340	2002	1.78	40.50
Universitas Negeri Makassar (UNM)	338	2000	0.91	41.00
Universitas Negeri Jakarta (UNJ)	304	2001	2.20	35.25
Universitas Negeri Padang (UNP)	261	2003	1.25	31.38
Universitas Negeri Medan (Unimed)	141	2000	1.55	15.50
Universitas Negeri Gorontalo (UNG)	104	2008	0.67	12.75

^a Authors estimation.

After using Scopus database to search for leading educational universities in Indonesia, further step is collecting data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each universities. This data were then saved in an .xlsx file for each university. Every .xlsx file consists of data for single university. To explain what each .xlsx file consists of, sample of Universitas Pendidikan Indonesia will be described in the following tables and figure.

Table 2 below describes number of documents per year in Scopus published by Universitas Pendidikan Indonesia (UPI). This table informs initial year the university published document in Scopus and its development until recently. Increasing trend in data can also simply be viewed from this table.

Table 2 Documents per Year of Universitas Pendidikan Indonesia (UPI).

alt-text: Table 2

Source: Scopus, accessed June 27, 2018.

Year	Documents
2002	1
2003	5
2004	0
2005	5
2006	5
2007	3
2008	5
2009	0
2010	14

2011	13
2012	28
2013	41
2014	50
2015	55
2016	270
2017	507
2018	380

Fig. 1 below describes subject area of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. This subject area can inform the strength of the university in publication. It can also be a good source to evaluate transformation of the university from previously focused on education to a wider range of teaching as today. Policy makers from Government of Indonesia can use this data to analyze whether policy on educational university has a shift paradigm in publication and soon.

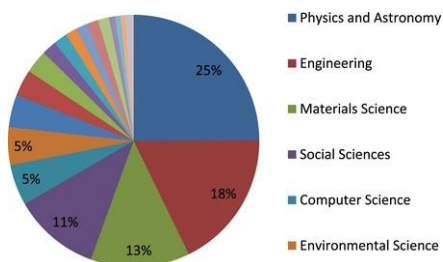


Fig. 1 Subject Area of Documents of Universitas Pendidikan Indonesia (UPI).

alt-text: Fig. 1

Table 3 below describes source titles of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. The data on source title can inform the trend in the university's publication. A researcher can use this data to analyze quality of source based on its impact factor, SCIMago journal ranking, CiteScore, and other measurements. The source can also be a good source to determine the university policy in publication: whether it focuses on quantity, by allowing researchers to publish at any kind of Scopus-indexed journals and conferences, or quality, by emphasizing on only high impact journals or conferences.

Table 3 Source Title of Documents of Universitas Pendidikan Indonesia (UPI).

alt-text: Table 3

Source: Scopus, accessed June 27, 2018.

Source Title	Documents
Journal of Physics Conference Series	392
IOP Conference Series Materials Science And Engineering	243
AIP Conference Proceedings	127
IOP Conference Series Earth And Environmental Science	62
Indonesian Journal of Applied Linguistics	44
Jurnal Pendidikan IPA Indonesia	31
Man In India	31

Pertanika Journal of Science And Technology	19
International Journal of Applied Business And Economic Research	16
Advanced Science Letters	11
International Journal Of Economic Research	11
Journal Of Engineering Science And Technology	11
ARPJ Journal Of Engineering And Applied Sciences	6
New Educational Review	6
American Journal Of Applied Sciences	5
Indonesian Journal Of Chemistry	5
International Journal Of Instruction	5
Jurnal Teknologi Sciences And Engineering	5
Materials Science Forum	5
Social Sciences Pakistan	5

Table 4 below describes document types of publication in Scopus by Universitas Pendidikan Indonesia (UPI). The data can inform the university policy in publishing research. Government of Indonesia considers article has a greater value than conference paper. Thus, when the university emphasizes on conference paper, it can be an indication for its effort to improve number of documents. Document types can also inform the variety of academic communication by the university.

Table 4 Document Types of Universitas Pendidikan Indonesia (UPI).

alt-text: Table 4

Source: Scopus, accessed June 27, 2018.

Document Type	Documents
Conference Paper	949
Article	400
Book Chapter	11
Review	7
Editorial	6
Article in Press	4
Erratum	3
Note	2

Table 5 below describes country/territory of document origin by Universitas Pendidikan Indonesia (UPI) in Scopus. The data can inform collaboration pattern of the university in term of country. The data shows Indonesia in top list which can be interpreted as main source of document origin. Japan follows in second list as indication of 63 documents published in collaboration with researchers from this country. This data will also be useful to map collaboration based on regions. Researchers for example can analyze publications in collaboration with Asian, European, American countries, and soon.

Table 5 Country/Territory of Documents of Universitas Pendidikan Indonesia (UPI).

alt-text: Table 5

Source: Scopus, accessed June 27, 2018.

Country/Territory	Documents
Indonesia	1379
Japan	63
Malaysia	32
South Korea	19
Netherlands	16
Australia	15
United States	15
Turkey	8
China	7
Pakistan	7
Poland	7
Saudi Arabia	7
Canada	6
Italy	6
Mexico	6
Brazil	5
Bulgaria	5
Croatia	5
Estonia	5
Ghana	5
Hong Kong	5
Hungary	5
India	5
Iran	5
Kenya	5
Nigeria	5
Portugal	5
Romania	5
Russian Federation	5
Slovakia	5
Spain	5

Uganda	5
United Kingdom	5
Philippines	4
Switzerland	4
France	3
Germany	3
Singapore	3
Bosnia and Herzegovina	2
Colombia	2
Israel	2
Taiwan	2
Thailand	2
Argentina	1
Austria	1
Chile	1
Czech Republic	1
Finland	1
Norway	1
Peru	1
Serbia	1
Ukraine	1
Undefined	3

Table 6 below describes prominent authors in Universitas Pendidikan Indonesia (UPI). These authors are those whose largest documents in Scopus. The data on these authors can be useful to analyze disparities among staff member of university. Policy makers can also use the data as source of potential individuals tasked to improve university publication. For public, these authors can also be sources for commentary and analysis for occurring events in the society.

Table 6 Authors of Documents of Universitas Pendidikan Indonesia (UPI.(UPI).

alt-text: Table 6

Source: Scopus, accessed June 27, 2018.

Author Name	Documents
Nandiyanto, A.B.D.	70
Abdullah, A.G.	51
Suhandi, A.	38
Rustaman, N.Y.	31

Samsudin, A.	28
Hasanah, L.	27
Setiawan, A.	27
Jupri, A.	26
Firman, H.	24
Kaniawati, I.	24
Suryadi, D.	22
Permanasari, A.	20
Riza, L.S.	20
Rusdiana, D.	20
Hidayat, T.	19
Khoerunnisa, F.	19
Liliasari	19
Redjeki, S.	19
Munir	18
Herman, T.	17

Table 7 below describes affiliations in documents by Universitas Pendidikan Indonesia (UPI) in Scopus. The data consists of universities, research institutions, libraries and other entities having collaboration with the university in publishing documents. This type of data can be very useful to analyze collaboration pattern in research in terms of internationalization. Government of Indonesia has encouraged researchers to collaborate with potential partners especially in developed countries by providing relevant grants. Such data can be resource to track the results of this policy. Furthermore, having collaboration with world leading universities, for example those that are listed in Top 100 QS World University Rankings, will also has significant value for accreditation. Thus, policy makers in university can use the data to plan further potential collaboration and choose potential university partners.

Table 7 Affiliation in documents by Universitas Pendidikan Indonesia (UPI).

alt-text: Table 7

Source: Scopus, accessed June 27, 2018.

Affiliation	Documents
Universitas Pendidikan Indonesia	1382
Institut Teknologi Bandung	123
Universitas Padjadjaran	23
Hiroshima University	21
UIN Sunan Gunung Djati	14
Universitas Sultan Ageng Tirtayasa	14
Universitas Riau	11
State University of Malang	11
Shinshu University	10
Universitas Sriwijaya	10

Universitas Muhammadiyah Prof. Dr. HAMKA	10
Universiti Teknologi Malaysia	9
Lembaga Ilmu Pengetahuan Indonesia	8
Universitas Tadulako	8
Universitas Ahmad Dahlan	8
Gadjah Mada University	7
Bengkulu University	7
Telkom University	7
Universitas Negeri Surabaya	7
Universitas Islam Negeri Syarif Hidayatullah Jakarta	7
Universitas Swadaya Gunung Djati	6
Universiti Kebangsaan Malaysia	6
Utrecht University	6
Universitas Syiah Kuala	6
Federal Neuropsychiatric Hospital	5
Universitas Nusantara PGRI Kediri	5
Universitas Galuh	5
Universidade Federal do Rio de Janeiro	5
Kyung Hee University	5
University of Amsterdam	5
Universiti Utara Malaysia	5
Chiba University	5
Chinese University of Hong Kong	5
Wageningen University and Research Centre	5
Peci Tudományegyetem	5
Matej Bel University	5
Universidade do Estado do Rio de Janeiro	5
University of Zagreb	5
Baqiyatallah University of Medical Sciences	5
Akdeniz Universitesi	5
Indian Institute of Technology, Guwahati	5
Japan Advanced Institute of Science and Technology	5
Universidad Iberoamericana	5
Ankara Universitesi	5

Central University of Finance and Economics	5
King Saud University	5
Cumhuriyet Universitesi	5
Adekunle Ajasin University	5
University of Washington, Seattle	5
University of Wroclaw	5
Saint Mary's University	5
University of Ghana	5
Izmir Ekonomi Universitesi	5
Universidade de Coimbra	5
Russian Academy of Sciences	5
Razi University	5
Universidade Federal do Rio Grande do Norte	5
Universita Cattolica del Sacro Cuore	5
Universitatea Babeș-Bolyai din Cluj-Napoca	5
Kanazawa University	5
University of Nigeria	5
Universidad de Granada	5
Curtin University	5
University of Nairobi	5
University of Karachi	5
University of Tartu	5
Universitas Indonesia	5
Institut Pertanian Bogor	5
Universitas Brawijaya	5
Universitas Sebelas Maret	5
South-West University Neofit Rilski	5
Indian Institute of Management Bangalore	5
Makerere University	5
University Malaysia Pahang	5
Universitas Kanjuruhan Malang	5
Universitas Muhammadiyah Sidoarjo	5
University of Science and Culture, Tehran	5
Pakuan University	5

Universitas Negeri Medan	5
Yayasan Salib Suci	4
Universitas Muhammadiyah Tangerang	4
Arizona State University	4
Tohoku University	4
Institute of Psychology of the Polish Academy of Sciences	4
Universitat Zurich	4
Uniwersytet Warszawski	4
Universidade Federal de Uberlandia	4
Monash University	4
Istanbul Universitesi	4
Pontificia Universidade Catolica do Rio de Janeiro	4
Universitas Diponegoro	4
Universitas Lampung	4
Universitas Pasundan	4
Universitas Terbuka	4
Instituto D'Or de Pesquisa e Ensino	4
Universidade de Coimbra, Faculdade de Psicologia e de Ciencias da Educacao	4
Universitas PGRI Semarang	4
Universitas Serang Raya	3
PSTNT-BATAN	3
Universitas PGRI Palembang	3
Möttemaru Oü	3
Nanyang Technological University	3
Kyoto University	3
Russian State University for the Humanities	3
Technische Universität Dresden	3
Kumoh National Institute of Technology	3
Yildiz Technical University	3
The University of Warwick	3
University of Tokyo	3
SWPS Uniwersytet Humanistycznospółeczny	3
Constantine the Philosopher University	3

University of Mataram	3
Universitas Pattimura	3
Nisshin Seifun Group Inc	3
Universitas Negeri Jakarta	3
Universitas Negeri Padang	3
STKIP PGRI Sumbar	3
Politeknik Negeri Lhokseumawe	3
Universitas Islam Riau	3
Universitas Sarjanawiyata Tamansiswa	3
Universitas Muhammadiyah Purwokerto	3
International Development Center of	2
Politeknik Negeri Semarang	2
PTNBR-BATAN	2
Public Health Institute	2
Universitas Siliwangi	2
Arsari Group	2
MI Consulting Corporation	2
Institut Teknologi Sumatera	2
Universitas Borneo Tarakan	2
Guangdong Construction Polytechnic	2
Sekolah Tinggi Keguruan Dan Ilmu Pendidikan Pasundan	2
SMAN 2 Kota Sukabumi	2
Dinas Pendidikan	2
STKIP Bima	2
Universitas Singaperbangsa Karawang	2
Hanwha	2
Nagoya University	2
University of Illinois at Urbana-Champaign	2
Kangwon National University	2
Universiti Sains Malaysia	2
Universite Pierre et Marie Curie	2
Bar-Ilan University	2
Uniwersytet Opolski	2
Slovak Academy of Sciences	2

The University of British Columbia	2
University of Wollongong	2
Hokkaido University	2
International Islamic University Malaysia	2
Universidade da Madeira	2
Simon Fraser University	2
Institute for Materials Research, Tohoku University	2
National Science Museum, Tokyo	2
Baskent Universitesi	2
Universitas Udayana	2
Universitas Andalas	2
Satya Wacana Christian University	2
Institut Teknologi Sepuluh Nopember	2
University of the Philippines Los Banos	2
Japan International Cooperation Agency	2

Table 8 below describes twenty most-cited documents of Universitas Pendidikan Indonesia (UPI) in Scopus. The data will be useful resource for citation analysis on authors and its research pattern. Researchers can track journals or conferences with higher citations and plan it for future potential publication outlets. Citation to documents in Scopus, as previously described, has been integrated in ranking for both university and researcher. Thus, such data will be important for institutions to improve its competitiveness in research. University, for example, might use the data to inform authors on what subject to research or what journal to submit and soon. University can also encourage researchers to do more collaborative works, as those that have collaborators, especially foreign experts, tend to have better citations.

Table 8 Most-Cited Documents of Universitas Pendidikan Indonesia (UPI).

alt-text: Table 8

Source: Scopus, accessed June 27, 2018.

Author(s)	Journal	Citation
Vashaei et al. (2005)	Journal of Applied Physics	96
Cho et al. (2005)	Semiconductor Science and Technology	56
Topik, Yukawa, & Ito (2005)	Journal of Plant Research	46
Song et al. (2013)	Carbon	41
Ogi, Nandiyanto, & Okuyama (2014)	Advanced Powder Technology	37
Nandiyanto et al. (2013)	Chemical Engineering Science	31
Saito et al. (2006)	Journal of In-Service Education	29
Ray Hamidie et al. (2015)	Metabolism: Clinical and Experimental	26
Muraza et al. (2015)	Microporous and Mesoporous Materials	25
Arutanti et al. (2015)	ACS Applied Materials and Interfaces	25
Fatimah & Verhulst (2003)	Nonlinear Dynamics	25

Simonin et al. (2003)	Hydrometallurgy	23
Nandiyanto et al. (2013)	Langmuir	22
Aisyah et al. (2013)	Journal of Agricultural and Food Chemistry	21
Sundayana et al. (2017)	World Transactions on Engineering and Technology Education	20
Nandiyanto et al. (2014)	Chemical Engineering Journal	19
Arutanti et al. (2014)	AIChE Journal	19
Suhendi et al. (2013)	Langmuir	19
Radiman & Yuliani (2008)	Polymer International	19
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2 Experimental ~~Design, Materials, design, materials, and Methods~~ ~~methods~~

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Acknowledgments

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Transparency document Supporting information

Transparency data associated with this article can be found in the online version at <https://doi.org/10.1016/j.dib.2018.11.128>.

Appendix A. Supporting information

Supplementary data associated with this article can be found in the online version at <https://doi.org/10.1016/j.dib.2018.11.128>.

References

- [1] Directorate of Higher Education Ministry of Education and Culture, Pedoman operasional penilaian angka kredit kenaikan pangkat/jabatan akademik dosen [Operational guide to credit points for lecturer’s academic position promotion], 2014, Directorate of Higher Education, Ministry of Education and Culture; Jakarta, Indonesia. (Please change to this => Directorate of Higher Education Ministry of Education and Culture, “Pedoman operasional penilaian angka kredit kenaikan pangkat/jabatan akademik dosen [Operational guide to credit points for lecturer’s academic position promotion]. Directorate of Higher Education, Ministry of Education and Culture, Jakarta, 2014.)
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of Research, Technology and Higher Education; Jakarta. (Please change to this => Ministry of Research Technology and Higher Education, "Strength of 50 Indonesian Academic Institutions: Profile of Academic Publication in Scopus." Directorate of Research Empowerment and Development, Ministry of Research, Technology and Higher Education, Jakarta, 2016.)

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Transparency document Supplementary material

[Multimedia Component 1](#)

Supplementary material

Appendix A. Supplementary material

[Multimedia Component 2](#)

Supplementary material

Queries and Answers

Query:

Please confirm that given names and surnames have been identified correctly and are presented in the desired order, and please carefully verify the spelling of all authors.

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Corresponding author has not been indicated in the author group. Kindly provide the corresponding author's information.

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Query:

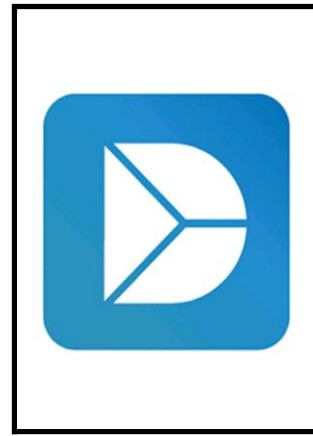
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Author's Accepted Manuscript

Indonesian state educational universities'
bibliometric dataset

Lantip Diat Prasajo, Reni Fatmasari, Eti Nurhayati,
Ahmad Darmadji, Fitri Ayu Kusumaningrum, Yuli
Andriansyah



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Indonesian state educational universities' bibliometric dataset

Lantip Diat Prasajo¹, Reni Fatmasari², Eti Nurhayati³, Ahmad Darmadji⁴, Fitri Ayu Kusumaningrum⁵, Yuli Andriansyah⁶

¹Department of Educational Management, Postgraduate Program, Universitas Negeri Yogyakarta, Indonesia

²Master of TESOL, Faculty of Education, Monash University, Australia

³Department of Islamic Early Childhood Education, Faculty of Islamic Education, Institut Agama Islam Negeri Syekh Nurjati, Indonesia

⁴Department of Islamic Education & Master of Islamic Studies, Faculty of Islamic Studies, Universitas Islam Indonesia, Indonesia

⁵Department of Psychology, Faculty of Psychology and Socio-Cultural Studies, Universitas Islam Indonesia, Indonesia

⁶Department of Islamic Economics, Faculty of Islamic Studies, Universitas Islam Indonesia, Indonesia

lantip@uny.ac.id

reni.fatmasari@gmail.com

etinurhayati@syekhnurjati.ac.id

ahmad.darmadji@uui.ac.id

fitriayukusumaningrum@uui.ac.id

yuliandriansyah@uui.ac.id

Abstract

This data article presents an important bibliometric dataset of ten Indonesian leading educational universities. These ten Indonesian leading educational universities are Universitas Pendidikan Indonesia (UPI), Universitas Negeri Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ), Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri Gorontalo (UNG). Using Scopus database search analysis, this data article collects data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each universities.

Specifications Table

Subject area	Education
More specific subject area	Higher education
Type of data	Table and figure
How data was acquired	Scopus search analysis
Data format	Raw and filtered
Experimental factors	Institutional search in Scopus is conducted to obtain ten Indonesian leading educational universities
Experimental features	Search analysis in Scopus is conducted for each ten Indonesian leading educational universities to obtain bibliometric data
Data source location	Indonesia
Data accessibility	The dataset is accessible within this article data
Related research article	<ol style="list-style-type: none"> 1. A. Darmadji, L. D. Prasajo, Y. Riyanto, F. A. Kusumaningrum, and Y. Andriansyah, "Publications of Islamic University of Indonesia in Scopus Database: A bibliometric assessment," <i>COLLNET J. Sci. Inf. Manag.</i>, vol. 12, no. 1, pp. 109–131, 2018. 2. A. Darmadji, L. D. Prasajo, F. A. Kusumaningrum, and Y. Andriansyah, "Research productivity and international collaboration of top Indonesian universities," <i>Curr. Sci.</i>, vol. 115, no. 4, pp. 653–658, 2018.

Value of the Data

- The dataset in this article will help further research on research quality of Indonesian educational universities. Policy makers, researchers, and other stakeholders can use the dataset to compare research quality of each university.
- The dataset will also provide useful tool for analysis in university level. Policy makers, researchers, and other stakeholders can use the dataset to analyze research quality of each university in terms of productivity, collaboration, citation and others.

- The dataset will also be useful in conducting citation analysis of highly-cited documents. This particular data can provide insight on how to publish in high impact academic journals as well as conferences.

Data

This article data presents bibliometric dataset of ten Indonesian leading educational universities. Educational universities in this context are those that previously known as IKIP or Institut Keguruan dan Ilmu Pendidikan (Institute of Teaching and Educational Sciences). These universities previously provide higher education services to prepare teachers all over Indonesia after Independence Day. In the late 1990s and early 2000s, Government of Indonesia transform these universities into more open in educational services by providing courses in education, law, humanities, business, engineering, technology and others. This transformation changes also these universities name from previously institute to university.

After the transformation, some of educational universities show its capacity to compete to improve research quality. This dataset focuses on leading educational universities with largest publication in Scopus. Scopus is chosen as database because of its usage by Government of Indonesia to rank universities. Ranking these Indonesian leading educational universities based on Scopus documents results in names as follow: Universitas Pendidikan Indonesia (UPI), Universitas Negeri Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ), Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri Gorontalo (UNG).

Table 1 below summarizes ten Indonesian leading educational universities name and its abbreviation, documents in Scopus, first year in Scopus, average documents until 2010, and average documents from 2011 to 2018. This data is useful to understand the pattern of these universities' documents in Scopus database. Average documents before and after 2010 are presented to show the increasing trend in documents in Scopus as implication of policies by Government of Indonesia regarding Scopus. In 2010s, Government of Indonesia uses Scopus for some important policies for higher education: 1) document in Scopus is required for professor tenure[1]; 2) university ranking based on document in Scopus[2], [3]; and 3) researcher ranking based on document and citation in Scopus[2]. These policies imply competition among universities, including educational ones, to publish in Scopus-indexed journals and conference that make improvement in data in Table 1 reasonable.

Table 1 General information of ten Indonesian educational universities in dataset

University Name and Abbreviation	Documents in Scopus	First Year in Scopus	Average Documents Until 2010*	Average Documents 2011-2018*
Universitas Pendidikan Indonesia (UPI)	1382	2002	4.22	168.00
Universitas Negeri Malang (UM)	611	2000	6.55	67.38
Universitas Negeri Semarang (UNNES)	559	2001	2.00	67.38
Universitas Negeri Surabaya (Unesa)	547	2000	1.45	66.38
Universitas Negeri Yogyakarta (UNY)	340	2002	1.78	40.50
Universitas Negeri Makassar (UNM)	338	2000	0.91	41.00
Universitas Negeri Jakarta (UNJ)	304	2001	2.20	35.25
Universitas Negeri Padang (UNP)	261	2003	1.25	31.38
Universitas Negeri Medan (Unimed)	141	2000	1.55	15.50
Universitas Negeri Gorontalo (UNG)	104	2008	0.67	12.75

Source: Scopus, accessed June 27, 2018. *Authors estimation.

After using Scopus database to search for leading educational universities in Indonesia, further steps collect data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each universities. This data were then saved in an .xlsx file for each university. Every .xlsx file consists of data for single university. To explain what each .xlsx file consists of, sample of Universitas Pendidikan Indonesia will be described in the following tables and figure.

Table 2 below describes number of documents per year in Scopus published by Universitas Pendidikan Indonesia (UPI). This table informs initial year the university published document in Scopus and its development until recently. Increasing trend in data can also simply be viewed from this table.

Table 2 Documents per Year of Universitas Pendidikan Indonesia (UPI)

Year	Documents
2002	1
2003	5
2004	0
2005	5
2006	5
2007	3
2008	5
2009	0
2010	14

Year	Documents
2011	13
2012	28
2013	41
2014	50
2015	55
2016	270
2017	507
2018	380

Source: Scopus, accessed June 27, 2018.

Figure 1 below describes subject area of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. This subject area can inform the strength of the university in publication. It can also be a good source to evaluate transformation of the university from previously focused on education to a wider range of teaching as today. Policy makers from Government of Indonesia can use this data to analyze whether policy on educational university has a shift paradigm in publication and soon.

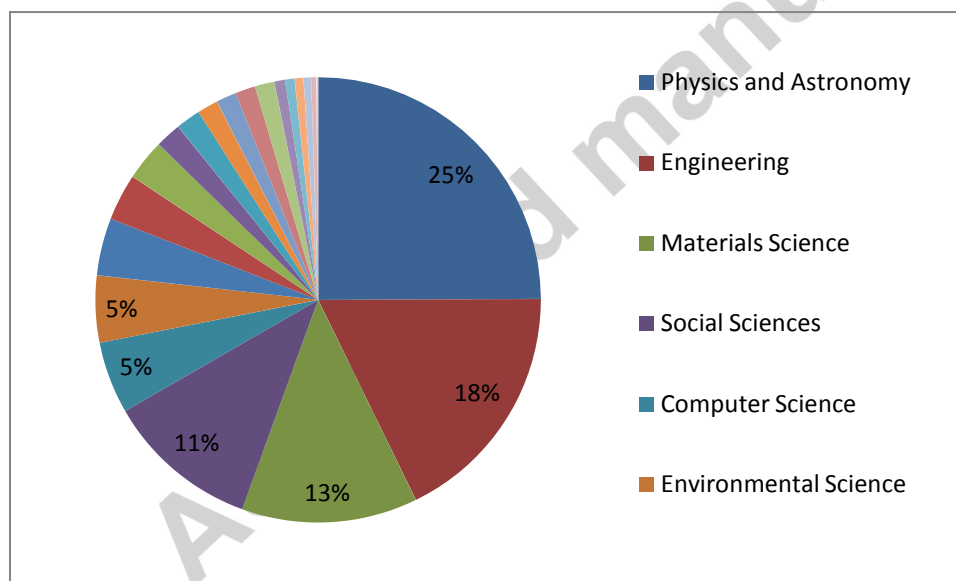


Fig 1 Subject Area of Documents of Universitas Pendidikan Indonesia (UPI)

Source: Scopus, accessed June 27, 2018.

Table 3 below describes source titles of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. The data on source title can inform the trend in the university's publication. A researcher can use this data to analyze quality of source based on its impact factor, SCIMago journal ranking, CiteScore, and other measurements. The source can also be a good source to determine the university policy in publication: whether it focuses on quantity, by allowing

researchers to publish at any kind of Scopus-indexed journals and conferences, or quality, by emphasizing on only high impact journals or conferences.

Table 3 Source Title of Documents of Universitas Pendidikan Indonesia (UPI)

Source Title	Documents
Journal of Physics Conference Series	392
IOP Conference Series Materials Science And Engineering	243
AIP Conference Proceedings	127
IOP Conference Series Earth And Environmental Science	62
Indonesian Journal of Applied Linguistics	44
Jurnal Pendidikan IPA Indonesia	31
Man In India	31
Pertanika Journal of Science And Technology	19
International Journal of Applied Business And Economic Research	16
Advanced Science Letters	11
International Journal Of Economic Research	11
Journal Of Engineering Science And Technology	11
ARNP Journal Of Engineering And Applied Sciences	6
New Educational Review	6
American Journal Of Applied Sciences	5
Indonesian Journal Of Chemistry	5
International Journal Of Instruction	5
Jurnal Teknologi Sciences And Engineering	5
Materials Science Forum	5
Social Sciences Pakistan	5

Source: Scopus, accessed June 27, 2018.

Table 4 below describes document types of publication in Scopus by Universitas Pendidikan Indonesia (UPI). The data can inform the university policy in publishing research. Government of Indonesia considers article has a greater value than conference paper. Thus, when the university emphasizes on conference paper, it can be an indication for its effort to improve number of documents. Document types can also inform the variety of academic communication by the university.

Table 4 Document Types of Universitas Pendidikan Indonesia (UPI)

Document Type	Documents
Conference Paper	949
Article	400
Book Chapter	11
Review	7
Editorial	6

Article in Press	4
Erratum	3
Note	2

Source: Scopus, accessed June 27, 2018.

Table 5 below describes country/territory of document origin by Universitas Pendidikan Indonesia (UPI) in Scopus. The data can inform collaboration pattern of the university in term of country. The data shows Indonesia in top list which can be interpreted as main source of document origin. Japan follows in second list as indication of 63 documents published in collaboration with researchers from this country. This data will also be useful to map collaboration based on regions. Researchers for example can analyze publications in collaboration with Asian, European, American countries, and soon.

Table 5 Country/Territory of Documents of Universitas Pendidikan Indonesia (UPI)

Country/Territory	Documents
Indonesia	1379
Japan	63
Malaysia	32
South Korea	19
Netherlands	16
Australia	15
United States	15
Turkey	8
China	7
Pakistan	7
Poland	7
Saudi Arabia	7
Canada	6
Italy	6
Mexico	6
Brazil	5
Bulgaria	5
Croatia	5
Estonia	5
Ghana	5
Hong Kong	5
Hungary	5
India	5
Iran	5
Kenya	5
Nigeria	5

Country/Territory	Documents
Portugal	5
Romania	5
Russian Federation	5
Slovakia	5
Spain	5
Uganda	5
United Kingdom	5
Philippines	4
Switzerland	4
France	3
Germany	3
Singapore	3
Bosnia and Herzegovina	2
Colombia	2
Israel	2
Taiwan	2
Thailand	2
Argentina	1
Austria	1
Chile	1
Czech Republic	1
Finland	1
Norway	1
Peru	1
Serbia	1
Ukraine	1
Undefined	3

Source: Scopus, accessed June 27, 2018.

Table 6 below describes prominent authors in Universitas Pendidikan Indonesia (UPI). These authors are those whose largest documents in Scopus. The data on these authors can be useful to analyze disparities among staff member of university. Policy makers can also use the data as source of potential individuals tasked to improve university publication. For public, these authors can also be sources for commentary and analysis for occurring events in the society.

Table 6 Authors of Documents of Universitas Pendidikan Indonesia (UPI)

Author Name	Documents
Nandiyanto, A.B.D.	70
Abdullah, A.G.	51
Suhandi, A.	38
Rustaman, N.Y.	31

Author Name	Documents
Samsudin, A.	28
Hasanah, L.	27
Setiawan, A.	27
Jupri, A.	26
Firman, H.	24
Kaniawati, I.	24
Suryadi, D.	22
Permanasari, A.	20
Riza, L.S.	20
Rusdiana, D.	20
Hidayat, T.	19
Khoerunnisa, F.	19
Liliasari	19
Redjeki, S.	19
Munir	18
Herman, T.	17

Source: Scopus, accessed June 27, 2018.

Table 7 below describes affiliations in documents by Universitas Pendidikan Indonesia (UPI) in Scopus. The data consists of universities, research institutions, libraries and other entities having collaboration with the university in publishing documents. This type of data can be very useful to analyze collaboration pattern in research in terms of internationalization. Government of Indonesia has encouraged researchers to collaborate with potential partners especially in developed countries by providing relevant grants. Such data can be resource to track the results of this policy. Furthermore, having collaboration with world leading universities, for example those that are listed in Top 100 QS World University Rankings, will also has significant value for accreditation. Thus, policy makers in university can use the data to plan further potential collaboration and choose potential university partners.

Table 7 Affiliation in documents by Universitas Pendidikan Indonesia (UPI)

Affiliation	Documents
Universitas Pendidikan Indonesia	1382
Institut Teknologi Bandung	123
Universitas Padjadjaran	23
Hiroshima University	21
UIN Sunan Gunung Djati	14
Universitas Sultan Ageng Tirtayasa	14
Universitas Riau	11
State University of Malang	11
Shinshu University	10

Affiliation	Documents
Universitas Sriwijaya	10
Universitas Muhammadiyah Prof. Dr. HAMKA	10
Universiti Teknologi Malaysia	9
Lembaga Ilmu Pengetahuan Indonesia	8
Universitas Tadulako	8
Universitas Ahmad Dahlan	8
Gadjah Mada University	7
Bengkulu University	7
Telkom University	7
Universitas Negeri Surabaya	7
Universitas Islam Negeri Syarif Hidayatullah Jakarta	7
Universitas Swadaya Gunung Djati	6
Universiti Kebangsaan Malaysia	6
Utrecht University	6
Universitas Syiah Kuala	6
Federal Neuropsychiatric Hospital	5
Universitas Nusantara PGRI Kediri	5
Universitas Galuh	5
Universidade Federal do Rio de Janeiro	5
Kyung Hee University	5
University of Amsterdam	5
Universiti Utara Malaysia	5
Chiba University	5
Chinese University of Hong Kong	5
Wageningen University and Research Centre	5
Pecsi Tudományegyetem	5
Matej Bel University	5
Universidade do Estado do Rio de Janeiro	5
University of Zagreb	5
Baqiyatallah University of Medical Sciences	5
Akdeniz Üniversitesi	5
Indian Institute of Technology, Guwahati	5
Japan Advanced Institute of Science and Technology	5
Universidad Iberoamericana	5
Ankara Üniversitesi	5
Central University of Finance and Economics	5
King Saud University	5
Cumhuriyet Üniversitesi	5
Adekunle Ajasin University	5
University of Washington, Seattle	5
University of Wrocław	5
Saint Mary's University	5

Affiliation	Documents
University of Ghana	5
Izmir Ekonomi Universitesi	5
Universidade de Coimbra	5
Russian Academy of Sciences	5
Razi University	5
Universidade Federal do Rio Grande do Norte	5
Universita Cattolica del Sacro Cuore	5
Universitatea Babes-Bolyai din Cluj-Napoca	5
Kanazawa University	5
University of Nigeria	5
Universidad de Granada	5
Curtin University	5
University of Nairobi	5
University of Karachi	5
University of Tartu	5
Universitas Indonesia	5
Institut Pertanian Bogor	5
Universitas Brawijaya	5
Universitas Sebelas Maret	5
South-West University Neofit Rilski	5
Indian Institute of Management Bangalore	5
Makerere University	5
University Malaysia Pahang	5
Universitas Kanjuruhan Malang	5
Universitas Muhammadiyah Sidoarjo	5
University of Science and Culture, Tehran	5
Pakuan University	5
Universitas Negeri Medan	5
Yayasan Salib Suci	4
Universitas Muhammadiyah Tangerang	4
Arizona State University	4
Tohoku University	4
Institute of Psychology of the Polish Academy of Sciences	4
Universitat Zurich	4
Uniwersytet Warszawski	4
Universidade Federal de Uberlandia	4
Monash University	4
Istanbul Universitesi	4
Pontificia Universidade Catolica do Rio de Janeiro	4
Universitas Diponegoro	4
Universitas Lampung	4
Universitas Pasundan	4

Affiliation	Documents
Universitas Terbuka	4
Instituto D'Or de Pesquisa e Ensino	4
Universidade de Coimbra, Faculdade de Psicologia e de Ciencias da Educacao	4
Universitas PGRI Semarang	4
Universitas Serang Raya	3
PSTNT-BATAN	3
Universitas PGRI Palembang	3
Möttemaru Oü	3
Nanyang Technological University	3
Kyoto University	3
Russian State University for the Humanities	3
Technische Universität Dresden	3
Kumoh National Institute of Technology	3
Yildiz Technical University	3
The University of Warwick	3
University of Tokyo	3
SWPS Uniwersytet Humanistycznospołeczny	3
Constantine the Philosopher University	3
University of Mataram	3
Universitas Pattimura	3
Nisshin Seifun Group Inc	3
Universitas Negeri Jakarta	3
Universitas Negeri Padang	3
STKIP PGRI Sumbar	3
Politeknik Negeri Lhokseumawe	3
Universitas Islam Riau	3
Universitas Sarjanawiyata Tamansiswa	3
Universitas Muhammadiyah Purwokerto	3
International Development Center of	2
Politeknik Negeri Semarang	2
PTNBR-BATAN	2
Public Health Institute	2
Universitas Siliwangi	2
Arsari Group	2
MI Consulting Corporation	2
Institut Teknologi Sumatera	2
Universitas Borneo Tarakan	2
Guangdong Construction Polytechnic	2
Sekolah Tinggi Keguruan Dan Ilmu Pendidikan Pasundan	2
SMAN 2 Kota Sukabumi	2
Dinas Pendidikan	2
STKIP Bima	2

Affiliation	Documents
Universitas Singaperbangsa Karawang	2
Hanwha	2
Nagoya University	2
University of Illinois at Urbana-Champaign	2
Kangwon National University	2
Universiti Sains Malaysia	2
Universite Pierre et Marie Curie	2
Bar-Ilan University	2
Uniwersytet Opolski	2
Slovak Academy of Sciences	2
The University of British Columbia	2
University of Wollongong	2
Hokkaido University	2
International Islamic University Malaysia	2
Universidade da Madeira	2
Simon Fraser University	2
Institute for Materials Research, Tohoku University	2
National Science Museum, Tokyo	2
Baskent Universitesi	2
Universitas Udayana	2
Universitas Andalas	2
Satya Wacana Christian University	2
Institut Teknologi Sepuluh Nopember	2
University of the Philippines Los Banos	2
Japan International Cooperation Agency	2

Source: Scopus, accessed June 27, 2018.

Table 8 below describes twenty most-cited documents of Universitas Pendidikan Indonesia (UPI) in Scopus. The data will be useful resource for citation analysis on authors and its research pattern. Researchers can track journals or conferences with higher citations and plan it for future potential publication outlets. Citation to documents in Scopus, as previously described, has been integrated in ranking for both university and researcher. Thus, such data will be important for institutions to improve its competitiveness in research. University, for example, might use the data to inform authors on what subject to research or what journal to submit and soon. University can also encourage researchers to do more collaborative works, as those that have collaborators, especially foreign experts, tend to have better citations.

Table 8 Most-Cited Documents of Universitas Pendidikan Indonesia (UPI)

Author(s)	Journal	Citation
Vashaei et al. (2005)	Journal of Applied Physics	96

Author(s)	Journal	Citation
Cho et al. (2005)	Semiconductor Science and Technology	56
Topik, Yukawa, & Ito (2005)	Journal of Plant Research	46
Song et al. (2013)	Carbon	41
Ogi, Nandiyanto, & Okuyama (2014)	Advanced Powder Technology	37
Nandiyanto et al. (2013)	Chemical Engineering Science	31
Saito et al. (2006)	Journal of In-Service Education	29
Ray Hamidie et al. (2015)	Metabolism: Clinical and Experimental	26
Muraza et al. (2015)	Microporous and Mesoporous Materials	25
Arutanti et al. (2015)	ACS Applied Materials and Interfaces	25
Fatimah & Verhulst (2003)	Nonlinear Dynamics	25
Simonin et al. (2003)	Hydrometallurgy	23
Nandiyanto et al. (2013)	Langmuir	22
Aisyah et al. (2013)	Journal of Agricultural and Food Chemistry	21
Sundayana et al. (2017)	World Transactions on Engineering and Technology Education	20
Nandiyanto et al. (2014)	Chemical Engineering Journal	19
Arutanti et al. (2014)	AIChE Journal	19
Suhendi et al. (2013)	Langmuir	19
Radiman & Yuliani (2008)	Polymer International	19
Saito et al. (2007)	International Journal of Educational Development	19

Source: Scopus, accessed June 27, 2018.

Experimental Design, Materials, and Methods

This data article collects the dataset from Scopus database. An institutional subscription is required to access the database. Once in Scopus database, institutional search was conducted using keyword "Indonesia". From more than two hundred institutions, ten state educational universities were chosen. For each university, collection of data was conducted using search analysis tool. Documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each university were downloadable in .csv format. These data in .csv file were then collected in an .xlsx file for each university. Ten .xlsx files for ten Indonesian educational universities were then uploaded along with this data article.

Further usage of the data can be based on policy makers, researchers or stake holders' point of view. For initial evaluation, a descriptive statistics using some tables and figures can be sufficient. However, a more detailed analysis will require further bibliometric analytic techniques and tools. Previous research can be guidance for researchers for a specific analysis on a university [4] or partial analysis of some universities as set of group [5] for Indonesian context.

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Title: Indonesian state educational universities' bibliometric dataset

Journal Title: Data in Brief

Corresponding Author: Dr. Lantip Diat Prasojo

All Authors: Lantip Diat Prasojo; Reni Fatmasari; Eti Nurhayati; Ahmad Darmadji; Fitri Ayu Kusumaningrum; Yuli Andriansyah

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Q1 Indonesian state educational universities'
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Ahmad Darmadji^d, Fitri Ayu Kusumaningrum^e,
Yuli Andriansyah^f

^a Department of Educational Management, Postgraduate Program, Universitas Negeri Yogyakarta, Indonesia

^b Faculty of Education, Monash University, Australia

Q3 ^c Department of Islamic Early Childhood Education, Faculty of Islamic Education, Institut Agama Islam Negeri Syekh Nurjati, Indonesia

^d Department of Islamic Education & Master of Islamic Studies, Faculty of Islamic Studies, Universitas Islam Indonesia, Indonesia

^e Department of Psychology, Faculty of Psychology and Socio-Cultural Studies, Universitas Islam Indonesia, Indonesia

^f Department of Islamic Economics, Faculty of Islamic Studies, Universitas Islam Indonesia, Indonesia

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a b s t r a c t

This data article presents an important bibliometric dataset of ten Indonesian leading educational universities. These ten Indonesian leading educational universities are Universitas Pendidikan Indonesia (UPI), Universitas Negeri Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ), Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri Gorontalo (UNG). Using Scopus database search analysis, this data article collects data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each universities.

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Specifications table

Subject area	Education
More specific subject area	Higher education
Type of data	Table and figure
How data was acquired	Scopus search analysis
Data format	Raw and filtered
Experimental factors	Institutional search in Scopus is conducted to obtain ten Indonesian leading educational universities
Experimental features	Search analysis in Scopus is conducted for each ten Indonesian leading educational universities to obtain bibliometric data
Data source location	Indonesia
Data accessibility	The dataset is accessible within this article data
Related research article	<ol style="list-style-type: none"> 1. A. Darmadji, L. D. Prasajo, Y. Riyanto, F. A. Kusumaningrum, and Y. Andriansyah, "Publications of Islamic University of Indonesia in Scopus Database: A bibliometric assessment," <i>COLLNET J. Sci. Inf. Manag.</i>, vol. 12, no. 1, pp. 109–131, 2018. 2. A. Darmadji, L. D. Prasajo, F. A. Kusumaningrum, and Y. Andriansyah, "Research productivity and international collaboration of top Indonesian universities," <i>Curr. Sci.</i>, vol. 115, no. 4, pp. 653–658, 2018.

Value of the data

The dataset in this article will help further research on research quality of Indonesian educational universities. Policy makers, researchers, and other stakeholders can use the dataset to compare research quality of each university.

The dataset will also provide useful tool for analysis in university level. Policy makers, researchers, and other stakeholders can use the dataset to analyze research quality of each university in terms of productivity, collaboration, citation and others.

The dataset will also be useful in conducting citation analysis of highly-cited documents. This particular data can provide insight on how to publish in high impact academic journals as well as conferences.

1. Data

This article data presents bibliometric dataset of ten Indonesian leading educational universities. Educational universities in this context are those that previously known as IKIP or Institut Keguruan dan Ilmu Pendidikan (Institute of Teaching and Educational Sciences). These universities previously provide higher education services to prepare teachers all over Indonesia after Independence Day. In the late 1990s and early 2000s, Government of Indonesia transform these universities into more open in educational services by providing courses in education, law, humanities, business, engineering, technology and others. This transformation changes also these universities name from previously institute to university.

After the transformation, some of educational universities show its capacity to compete to improve research quality. This dataset focuses on leading educational universities with largest publication in Scopus. Scopus is chosen as database because of its usage by Government of Indonesia to rank universities. Ranking these Indonesian leading educational universities based on Scopus documents results in names as follow: Universitas Pendidikan Indonesia (UPI), Universitas Negeri

109 Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas
 110 Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ),
 111 Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri
 112 Gorontalo (UNG).

113 **Table 1** below summarizes ten Indonesian leading educational universities name and its abbrevi-
 114 ation, documents in Scopus, first year in Scopus, average documents until 2010, and average
 115 documents from 2011 to 2018. This data is useful to understand the pattern of these universities'
 116 documents in Scopus database. Average documents before and after 2010 are presented to show the
 117 increasing trend in documents in Scopus as implication of policies by Government of Indonesia
 118 regarding Scopus. In 2010s, Government of Indonesia uses Scopus for some important policies for
 119 higher education: 1) document in Scopus is required for professor tenure[1]; 2) university ranking
 120 based on document in Scopus [2,3]; and 3) researcher ranking based on document and citation in
 121 Scopus [2]. These policies imply competition among universities, including educational ones, to
 122 publish in Scopus-indexed journals and conference that make improvement in data in **Table 1**
 123 reasonable.
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Table 1

General information of ten Indonesian educational universities in dataset. Source: Scopus, accessed June 27, 2018.

University Name and Abbreviation	Documents in Scopus	First Year in Scopus	Average Documents Until 2010 ^a	Average Documents 2011-2018 ^a
Universitas Pendidikan Indonesia (UPI)	1382	2002	4.22	168.00
Universitas Negeri Malang (UM)	611	2000	6.55	67.38
Universitas Negeri Semarang (UNNES)	559	2001	2.00	67.38
Universitas Negeri Surabaya (Unesa)	547	2000	1.45	66.38
Universitas Negeri Yogyakarta (UNY)	340	2002	1.78	40.50
Universitas Negeri Makassar (UNM)	338	2000	0.91	41.00
Universitas Negeri Jakarta (UNJ)	304	2001	2.20	35.25
Universitas Negeri Padang (UNP)	261	2003	1.25	31.38
Universitas Negeri Medan (Unimed)	141	2000	1.55	15.50
Universitas Negeri Gorontalo (UNG)	104	2008	0.67	12.75

^a Authors estimation.

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Table 2

Documents per Year of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Year	Documents
2002	1
2003	5
2004	0
2005	5
2006	5
2007	3
2008	5
2009	0
2010	14
2011	13
2012	28
2013	41
2014	50
2015	55
2016	270
2017	507
2018	380

After using Scopus database to search for leading educational universities in Indonesia, further steps collect data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each universities. This data were then saved in an .xlsx file for each university. Every .xlsx file consists of data for single university. To explain what each .xlsx file consists of, sample of Universitas Pendidikan Indonesia will be described in the following tables and figure.

Table 2 below describes number of documents per year in Scopus published by Universitas Pendidikan Indonesia (UPI). This table informs initial year the university published document in Scopus and its development until recently. Increasing trend in data can also simply be viewed from this table.

Fig. 1 below describes subject area of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. This subject area can inform the strength of the university in publication. It can also be a good source to evaluate transformation of the university from previously focused on education to a wider range of teaching as today. Policy makers from Government of Indonesia can use this data to analyze whether policy on educational university has a shift paradigm in publication and soon.

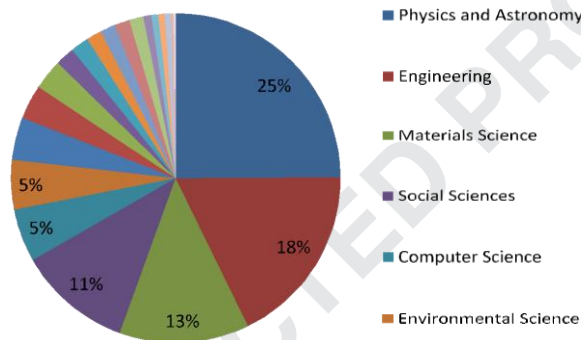


Fig. 1. Subject Area of Documents of Universitas Pendidikan Indonesia (UPI).

Table 3

Source Title of Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Source Title	Documents
Journal of Physics Conference Series	392
IOP Conference Series Materials Science And Engineering	243
AIP Conference Proceedings	127
IOP Conference Series Earth And Environmental Science	62
Indonesian Journal of Applied Linguistics	44
Jurnal Pendidikan IPA Indonesia	31
Man In India	31
Pertanika Journal of Science And Technology	19
International Journal of Applied Business And Economic Research	16
Advanced Science Letters	11
International Journal Of Economic Research	11
Journal Of Engineering Science And Technology	11
ARPN Journal Of Engineering And Applied Sciences	6
New Educational Review	6
American Journal Of Applied Sciences	5
Indonesian Journal Of Chemistry	5
International Journal Of Instruction	5
Jurnal Teknologi Sciences And Engineering	5
Materials Science Forum	5
Social Sciences Pakistan	5

217 Table 4
 218 Document Types of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Document Type	Documents
221 Conference Paper	949
222 Article	400
223 Book Chapter	11
224 Review	7
Editorial	6
225 Article in Press	4
226 Erratum	3
227 Note	2

228
 229
 230 **Table 3** below describes source titles of documents by Universitas Pendidikan Indonesia (UPI) in
 231 Scopus. The data on source title can inform the trend in the university's publication. A researcher can
 232 use this data to analyze quality of source based on its impact factor, SCIMago journal ranking, Cite-
 233 Score, and other measurements. The source can also be a good source to determine the university
 234 policy in publication: whether it focuses on quantity, by allowing researchers to publish at any kind of
 235 Scopus-indexed journals and conferences, or quality, by emphasizing on only high impact journals or
 236 conferences.

237 **Table 4** below describes document types of publication in Scopus by Universitas Pendidikan
 238 Indonesia (UPI). The data can inform the university policy in publishing research. Government of
 239 Indonesia considers article has a greater value than conference paper. Thus, when the university
 240 emphasizes on conference paper, it can be an indication for its effort to improve number of docu-
 241 ments. Document types can also inform the variety of academic communication by the university.

242 **Table 5** below describes country/territory of document origin by Universitas Pendidikan Indonesia
 243 (UPI) in Scopus. The data can inform collaboration pattern of the university in term of country. The data
 244 shows Indonesia in top list which can be interpreted as main source of document origin. Japan follows in
 245 second list as indication of 63 documents published in collaboration with researchers from this country.
 246 This data will also be useful to map collaboration based on regions. Researchers for example can analyze
 247 publications in collaboration with Asian, European, American countries, and soon.

248 **Table 6** below describes prominent authors in Universitas Pendidikan Indonesia (UPI). These
 249 authors are those whose largest documents in Scopus. The data on these authors can be useful to
 250 analyze disparities among staff member of university. Policy makers can also use the data as source of
 251 potential individuals tasked to improve university publication. For public, these authors can also be
 252 sources for commentary and analysis for occurring events in the society.

253 **Table 7** below describes affiliations in documents by Universitas Pendidikan Indonesia (UPI) in Scopus.
 254 The data consists of universities, research institutions, libraries and other entities having collaboration
 255 with the university in publishing documents. This type of data can be very useful to analyze collaboration
 256 pattern in research in terms of internationalization. Government of Indonesia has encouraged researchers
 257 to collaborate with potential partners especially in developed countries by providing relevant grants. Such
 258 data can be resource to track the results of this policy. Furthermore, having collaboration with world
 259 leading universities, for example those that are listed in Top 100 QS World University Rankings, will also
 260 has significant value for accreditation. Thus, policy makers in university can use the data to plan further
 261 potential collaboration and choose potential university partners.

262 **Table 8** below describes twenty most-cited documents of Universitas Pendidikan Indonesia (UPI)
 263 in Scopus. The data will be useful resource for citation analysis on authors and its research pattern.
 264 Researchers can track journals or conferences with higher citations and plan it for future potential
 265 publication outlets. Citation to documents in Scopus, as previously described, has been integrated in
 266 ranking for both university and researcher. Thus, such data will be important for institutions to
 267 improve its competitiveness in research. University, for example, might use the data to inform authors
 268 on what subject to research or what journal to submit and soon. University can also encourage
 269 researchers to do more collaborative works, as those that have collaborators, especially foreign
 270 experts, tend to have better citations.

Table 5

Country/Territory of Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Country/Territory	Documents
Indonesia	1379
Japan	63
Malaysia	32
South Korea	19
Netherlands	16
Australia	15
United States	15
Turkey	8
China	7
Pakistan	7
Poland	7
Saudi Arabia	7
Canada	6
Italy	6
Mexico	6
Brazil	5
Bulgaria	5
Croatia	5
Estonia	5
Ghana	5
Hong Kong	5
Hungary	5
India	5
Iran	5
Kenya	5
Nigeria	5
Portugal	5
Romania	5
Russian Federation	5
Slovakia	5
Spain	5
Uganda	5
United Kingdom	5
Philippines	4
Switzerland	4
France	3
Germany	3
Singapore	3
Bosnia and Herzegovina	2
Colombia	2
Israel	2
Taiwan	2
Thailand	2
Argentina	1
Austria	1
Chile	1
Czech Republic	1
Finland	1
Norway	1
Peru	1
Serbia	1
Ukraine	1
Undefined	3

325 Table 6
 326 Authors of Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

327	Author Name	Documents
328		
329	Nandiyanto, A.B.D.	70
330	Abdullah, A.G.	51
331	Suhandi, A.	38
332	Rustaman, N.Y.	31
333	Samsudin, A.	28
334	Hasanah, L.	27
335	Setiawan, A.	27
336	Jupri, A.	26
337	Firman, H.	24
338	Kaniawati, I.	24
339	Suryadi, D.	22
340	Permanasari, A.	20
341	Riza, L.S.	20
342	Rusdiana, D.	20
343	Hidayat, T.	19
344	Khoerunnisa, F.	19
345	Liliasari	19
346	Redjeki, S.	19
347	Munir	18
348	Herman, T.	17

348 Table 7
 349 Affiliation in documents by Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

350	Affiliation	Documents
351		
352	Universitas Pendidikan Indonesia	1382
353	Institut Teknologi Bandung	123
354	Universitas Padjadjaran	23
355	Hiroshima University	21
356	UIN Sunan Gunung Djati	14
357	Universitas Sultan Ageng Tirtayasa	14
358	Universitas Riau	11
359	State University of Malang	11
360	Shinshu University	10
361	Universitas Sriwijaya	10
362	Universitas Muhammadiyah Prof. Dr. HAMKA	10
363	Universiti Teknologi Malaysia	9
364	Lembaga Ilmu Pengetahuan Indonesia	8
365	Universitas Tadulako	8
366	Universitas Ahmad Dahlan	8
367	Gadjah Mada University	7
368	Bengkulu University	7
369	Telkom University	7
370	Universitas Negeri Surabaya	7
371	Universitas Islam Negeri Syarif Hidayatullah Jakarta	7
372	Universitas Swadaya Gunung Djati	6
373	Universiti Kebangsaan Malaysia	6
374	Utrecht University	6
375	Universitas Syiah Kuala	6
376	Federal Neuropsychiatric Hospital	5
377	Universitas Nusantara PGRI Kediri	5
378	Universitas Galuh	5
	Universidade Federal do Rio de Janeiro	5
	Kyung Hee University	5
	University of Amsterdam	5
	Universiti Utara Malaysia	5
	Chiba University	5
	Chinese University of Hong Kong	5
	Wageningen University and Research Centre	5
	Pecsi Tudományegyetem	5
	Matej Bel University	5

Table 7 (continued)

Affiliation	Documents
Universidade do Estado do Rio de Janeiro	5
University of Zagreb	5
Baqiyatallah University of Medical Sciences	5
Akdeniz Universitesi	5
Indian Institute of Technology, Guwahati	5
Japan Advanced Institute of Science and Technology	5
Universidad Iberoamericana	5
Ankara Universitesi	5
Central University of Finance and Economics	5
King Saud University	5
Cumhuriyet Universitesi	5
Adekunle Ajasin University	5
University of Washington, Seattle	5
University of Wroclaw	5
Saint Mary's University	5
University of Ghana	5
Izmir Ekonomi Universitesi	5
Universidade de Coimbra	5
Russian Academy of Sciences	5
Razi University	5
Universidade Federal do Rio Grande do Norte	5
Universita Cattolica del Sacro Cuore	5
Universitatea Babes-Bolyai din Cluj-Napoca	5
Kanazawa University	5
University of Nigeria	5
Universidad de Granada	5
Curtin University	5
University of Nairobi	5
University of Karachi	5
University of Tartu	5
Universitas Indonesia	5
Institut Pertanian Bogor	5
Universitas Brawijaya	5
Universitas Sebelas Maret	5
South-West University Neofit Rilski	5
Indian Institute of Management Bangalore	5
Makerere University	5
University Malaysia Pahang	5
Universitas Kanjuruhan Malang	5
Universitas Muhammadiyah Sidoarjo	5
University of Science and Culture, Tehran	5
Pakuan University	5
Universitas Negeri Medan	5
Yayasan Salib Suci	4
Universitas Muhammadiyah Tangerang	4
Arizona State University	4
Tohoku University	4
Institute of Psychology of the Polish Academy of Sciences	4
Universitat Zurich	4
Uniwersytet Warszawski	4
Universidade Federal de Uberlandia	4
Monash University	4
Istanbul Universitesi	4
Pontificia Universidade Catolica do Rio de Janeiro	4
Universitas Diponegoro	4
Universitas Lampung	4
Universitas Pasundan	4
Universitas Terbuka	4
Instituto D'Or de Pesquisa e Ensino	4
Universidade de Coimbra, Faculdade de Psicologia e de Ciencias da Educacao	4
Universitas Serang Raya	3
PSTNT-BATAN	3
Universitas PGRI Palembang	3

Table 7 (continued)

Affiliation	Documents
Möttemaru Oü	3
Nanyang Technological University	3
Kyoto University	3
Russian State University for the Humanities	3
Technische Universität Dresden	3
Kumoh National Institute of Technology	3
Yildiz Technical University	3
The University of Warwick	3
University of Tokyo	3
SWPS Uniwersytet Humanistycznospołeczny	3
Constantine the Philosopher University	3
University of Mataram	3
Universitas Pattimura	3
Nisshin Seifun Group Inc	3
Universitas Negeri Jakarta	3
Universitas Negeri Padang	3
STKIP PGRI Sumbar	3
Politeknik Negeri Lhokseumawe	3
Universitas Islam Riau	3
Universitas Sarjanawiyata Tamansiswa	3
Universitas Muhammadiyah Purwokerto	3
International Development Center of	2
Politeknik Negeri Semarang	2
PTNBR-BATAN	2
Public Health Institute	2
Universitas Siliwangi	2
Arsari Group	2
MI Consulting Corporation	2
Institut Teknologi Sumatera	2
Universitas Borneo Tarakan	2
Guangdong Construction Polytechnic	2
Sekolah Tinggi Keguruan Dan Ilmu Pendidikan Pasundan	2
SMAN 2 Kota Sukabumi	2
Dinas Pendidikan	2
STKIP Bima	2
Universitas Singaperbangsa Karawang	2
Hanwha	2
Nagoya University	2
University of Illinois at Urbana-Champaign	2
Kangwon National University	2
Universiti Sains Malaysia	2
Universite Pierre et Marie Curie	2
Bar-Ilan University	2
Uniwersytet Opolski	2
Slovak Academy of Sciences	2
The University of British Columbia	2
University of Wollongong	2
Hokkaido University	2
International Islamic University Malaysia	2
Universidade da Madeira	2
Simon Fraser University	2
Institute for Materials Research, Tohoku University	2
National Science Museum, Tokyo	2
Baskent Universitesi	2
Universitas Udayana	2
Universitas Andalas	2
Satya Wacana Christian University	2
Institut Teknologi Sepuluh Nopember	2
University of the Philippines Los Banos	2
Japan International Cooperation Agency	2

Table 8

Most-Cited Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Author(s)	Journal	Citation
Vashaei et al. (2005)	Journal of Applied Physics	96
Cho et al. (2005)	Semiconductor Science and Technology	56
Topik, Yukawa, & Ito (2005)	Journal of Plant Research	46
Song et al. (2013)	Carbon	41
Ogi, Nandiyanto, & Okuyama (2014)	Advanced Powder Technology	37
Nandiyanto et al. (2013)	Chemical Engineering Science	31
Saito et al. (2006)	Journal of In-Service Education	29
Ray Hamidie et al. (2015)	Metabolism: Clinical and Experimental	26
Muraza et al. (2015)	Microporous and Mesoporous Materials	25
Arutanti et al. (2015)	ACS Applied Materials and Interfaces	25
Fatimah & Verhulst (2003)	Nonlinear Dynamics	25
Simonin et al. (2003)	Hydrometallurgy	23
Nandiyanto et al. (2013)	Langmuir	22
Aisyah et al. (2013)	Journal of Agricultural and Food Chemistry	21
Sundayana et al. (2017)	World Transactions on Engineering and Technology Education	20
Nandiyanto et al. (2014)	Chemical Engineering Journal	19
Arutanti et al. (2014)	AIChE Journal	19
Suhendi et al. (2013)	Langmuir	19
Radiman & Yuliani (2008)	Polymer International	19
Saito et al. (2007)	International Journal of Educational Development	19

2. Experimental design, materials, and methods

This data article collects the dataset from Scopus database. An institutional subscription is required to access the database. Once in Scopus database, institutional search was conducted using keyword “Indonesia”. From more than two hundred institutions, ten state educational universities were chosen. For each university, collection of data was conducted using search analysis tool. Documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each university were downloadable in .csv format. These data in .csv file were then collected in an .xlsx file for each university. Ten .xlsx files for ten Indonesian educational universities were then uploaded along with this data article.

Further usage of the data can be based on policy makers, researchers or stake holders’ point of view. For initial evaluation, a descriptive statistics using some tables and figures can be sufficient. However, a more detailed analysis will require further bibliometric analytic techniques and tools. Previous research can be guidance for researchers for a specific analysis on a university [4] or partial analysis of some universities as set of group [5] for Indonesian context.

Acknowledgments

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541 Transparency document. Supporting information

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543 Transparency data associated with this article can be found in the online version at [https://doi.org/](https://doi.org/10.1016/j.dib.2018.11.128)

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Appendix A. Supporting information

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Supplementary data associated with this article can be found in the online version at <https://doi.org/10.1016/j.dib.2018.11.128>.

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All Authors: Lantip Diat Prasajo; Reni Fatmasari; Eti Nurhayati; Ahmad Darmadji; Fitri Ayu Kusumaningrum; Yuli Andriansyah

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Data Article

Indonesian state educational universities' bibliometric dataset

Lantip Diat Prasajo^a, Reni Fatmasari^b, Eti Nurhayati^c,
Ahmad Darmadji^d, Fitri Ayu Kusumaningrum^e,
Yuli Andriansyah^f

^a Department of Educational Management, Postgraduate Program, Universitas Negeri Yogyakarta, Indonesia

^b Faculty of Education, Monash University, Australia

^c Department of Islamic Early Childhood Education, Faculty of Islamic Education, Institut Agama Islam Negeri Syekh Nurjati, Indonesia

^d Department of Islamic Education & Master of Islamic Studies, Faculty of Islamic Studies, Universitas Islam Indonesia, Indonesia

^e Department of Psychology, Faculty of Psychology and Socio-Cultural Studies, Universitas Islam Indonesia, Indonesia

^f Department of Islamic Economics, Faculty of Islamic Studies, Universitas Islam Indonesia, Indonesia

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abstract

This data article presents an important bibliometric dataset of ten Indonesian leading educational universities. These ten Indonesian leading educational universities are Universitas Pendidikan Indonesia (UPI), Universitas Negeri Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ), Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri Gorontalo (UNG). Using Scopus database search analysis, this data article collects data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each universities.

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E-mail addresses: lantip@uny.ac.id (L.D. Prasajo), etinurhayati@syekhnujati.ac.id (E. Nurhayati), ahmad.darmadji@uii.ac.id (A. Darmadji), fitriayukusumaningrum@uii.ac.id (F.A. Kusumaningrum), yuliandriansyah@uii.ac.id (Y. Andriansyah).

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Specifications table

Subject area	Education
More specific subject area	Higher education
Type of data	Table and figure
How data was acquired	Scopus search analysis
Data format	Raw and filtered
Experimental factors	Institutional search in Scopus is conducted to obtain ten Indonesian leading educational universities
Experimental features	Search analysis in Scopus is conducted for each ten Indonesian leading educational universities to obtain bibliometric data
Data source location	Indonesia
Data accessibility	The dataset is accessible within this article data
Related research article	<ol style="list-style-type: none"> 1. A. Darmadji, L. D. Prasajo, Y. Riyanto, F. A. Kusumaningrum, and Y. Andriansyah, "Publications of Islamic University of Indonesia in Scopus Database: A bibliometric assessment," <i>COLLNET J. Sci. Inf. Manag.</i>, vol. 12, no. 1, pp. 109–131, 2018. 2. A. Darmadji, L. D. Prasajo, F. A. Kusumaningrum, and Y. Andriansyah, "Research productivity and international collaboration of top Indonesian universities," <i>Curr. Sci.</i>, vol. 115, no. 4, pp. 653–658, 2018.

Value of the data

The dataset in this article will help further research on research quality of Indonesian educational universities. Policy makers, researchers, and other stakeholders can use the dataset to compare research quality of each university.

The dataset will also provide useful tool for analysis in university level. Policy makers, researchers, and other stakeholders can use the dataset to analyze research quality of each university in terms of productivity, collaboration, citation and others.

The dataset will also be useful in conducting citation analysis of highly-cited documents. This particular data can provide insight on how to publish in high impact academic journals as well as conferences.

1. Data

This article data presents bibliometric dataset of ten Indonesian leading educational universities. Educational universities in this context are those that previously known as IKIP or Institut Keguruan dan Ilmu Pendidikan (Institute of Teaching and Educational Sciences). These universities previously provide higher education services to prepare teachers all over Indonesia after Independence Day. In the late 1990s and early 2000s, Government of Indonesia transform these universities into more open in educational services by providing courses in education, law, humanities, business, engineering, technology and others. This transformation changes also these universities name from previously institute to university.

After the transformation, some of educational universities show its capacity to compete to improve research quality. This dataset focuses on leading educational universities with largest publication in Scopus. Scopus is chosen as database because of its usage by Government of Indonesia to rank universities. Ranking these Indonesian leading educational universities based on Scopus documents results in names as follow: Universitas Pendidikan Indonesia (UPI), Universitas Negeri

Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ), Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri Gorontalo (UNG).

Table 1 below summarizes ten Indonesian leading educational universities name and its abbreviation, documents in Scopus, first year in Scopus, average documents until 2010, and average documents from 2011 to 2018. This data is useful to understand the pattern of these universities' documents in Scopus database. Average documents before and after 2010 are presented to show the increasing trend in documents in Scopus as implication of policies by Government of Indonesia regarding Scopus. In 2010s, Government of Indonesia uses Scopus for some important policies for higher education: 1) document in Scopus is required for professor tenure[1]; 2) university ranking based on document in Scopus [2,3]; and 3) researcher ranking based on document and citation in Scopus [2]. These policies imply competition among universities, including educational ones, to publish in Scopus-indexed journals and conference that make improvement in data in Table 1 reasonable.

Table 1

General information of ten Indonesian educational universities in dataset. Source: Scopus, accessed June 27, 2018.

University Name and Abbreviation	Documents in Scopus	First Year in Scopus	Average Documents Until 2010 ^a	Average Documents 2011-2018 ^a
Universitas Pendidikan Indonesia (UPI)	1382	20 02	4.22	168.00
Universitas Negeri Malang (UM)	611	2000	6.55	67.38
Universitas Negeri Semarang (UNNES)	559	2001	2.00	67.38
Universitas Negeri Surabaya (Unesa)	547	2000	1.45	66.38
Universitas Negeri Yogyakarta (UNY)	340	20 02	1.78	40.50
Universitas Negeri Makassar (UNM)	338	2000	0.91	41.00
Universitas Negeri Jakarta (UNJ)	304	20 01	2.20	35.25
Universitas Negeri Padang (UNP)	261	20 03	1.25	31.38
Universitas Negeri Medan (Unimed)	141	2000	1.55	15.50
Universitas Negeri Gorontalo (UNG)	104	2008	0.67	12.75

^a Authors estimation.

Table 2

Documents per Year of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Year	Documents
2002	1
2003	5
2004	0
2005	5
2006	5
2007	3
2008	5
2009	0
2010	14
2011	13
2012	28
2013	41
2014	50
2015	55
2016	270
2017	507
2018	380

After using Scopus database to search for leading educational universities in Indonesia, further steps collect data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each universities. This data were then saved in an .xlsx file for each university. Every .xlsx file consists of data for single university. To explain what each .xlsx file consists of, sample of Universitas Pendidikan Indonesia will be described in the following tables and figure.

Table 2 below describes number of documents per year in Scopus published by Universitas Pendidikan Indonesia (UPI). This table informs initial year the university published document in Scopus and its development until recently. Increasing trend in data can also simply be viewed from this table.

Fig. 1 below describes subject area of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. This subject area can inform the strength of the university in publication. It can also be a good source to evaluate transformation of the university from previously focused on education to a wider range of teaching as today. Policy makers from Government of Indonesia can use this data to analyze whether policy on educational university has a shift paradigm in publication and soon.

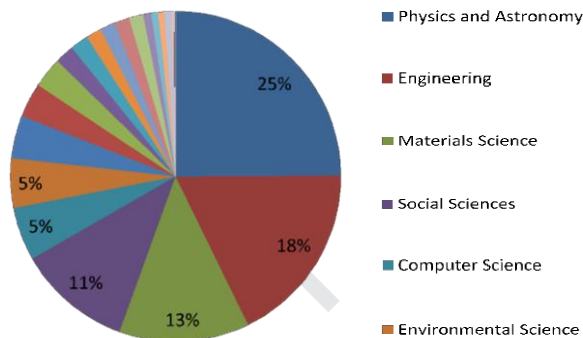


Fig. 1. Subject Area of Documents of Universitas Pendidikan Indonesia (UPI).

Table 3

Source Title of Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Source Title	Documents
Journal of Physics Conference Series	392
IOP Conference Series Materials Science And Engineering	243
AIP Conference Proceedings	127
IOP Conference Series Earth And Environmental Science	62
Indonesian Journal of Applied Linguistics	44
Jurnal Pendidikan IPA Indonesia	31
Man In India	31
Pertanika Journal of Science And Technology	19
International Journal of Applied Business And Economic Research	16
Advanced Science Letters	11
International Journal Of Economic Research	11
Journal Of Engineering Science And Technology	11
ARNP Journal Of Engineering And Applied Sciences	6
New Educational Review	6
American Journal Of Applied Sciences	5
Indonesian Journal Of Chemistry	5
International Journal Of Instruction	5
Jurnal Teknologi Sciences And Engineering	5
Materials Science Forum	5
Social Sciences Pakistan	5

Table 4

Document Types of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Document Type	Documents
Conference Paper	949
Article	400
Book Chapter	11
Review	7
Editorial	6
Article in Press	4
Erratum	3
Note	2

Table 3 below describes source titles of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. The data on source title can inform the trend in the university's publication. A researcher can use this data to analyze quality of source based on its impact factor, SCIMago journal ranking, Cite-Score, and other measurements. The source can also be a good source to determine the university policy in publication: whether it focuses on quantity, by allowing researchers to publish at any kind of Scopus-indexed journals and conferences, or quality, by emphasizing on only high impact journals or conferences.

Table 4 below describes document types of publication in Scopus by Universitas Pendidikan Indonesia (UPI). The data can inform the university policy in publishing research. Government of Indonesia considers article has a greater value than conference paper. Thus, when the university emphasizes on conference paper, it can be an indication for its effort to improve number of documents. Document types can also inform the variety of academic communication by the university.

Table 5 below describes country/territory of document origin by Universitas Pendidikan Indonesia (UPI) in Scopus. The data can inform collaboration pattern of the university in term of country. The data shows Indonesia in top list which can be interpreted as main source of document origin. Japan follows in second list as indication of 63 documents published in collaboration with researchers from this country. This data will also be useful to map collaboration based on regions. Researchers for example can analyze publications in collaboration with Asian, European, American countries, and soon.

Table 6 below describes prominent authors in Universitas Pendidikan Indonesia (UPI). These authors are those whose largest documents in Scopus. The data on these authors can be useful to analyze disparities among staff member of university. Policy makers can also use the data as source of potential individuals tasked to improve university publication. For public, these authors can also be sources for commentary and analysis for occurring events in the society.

Table 7 below describes affiliations in documents by Universitas Pendidikan Indonesia (UPI) in Scopus. The data consists of universities, research institutions, libraries and other entities having collaboration with the university in publishing documents. This type of data can be very useful to analyze collaboration pattern in research in terms of internationalization. Government of Indonesia has encouraged researchers to collaborate with potential partners especially in developed countries by providing relevant grants. Such data can be resource to track the results of this policy. Furthermore, having collaboration with world leading universities, for example those that are listed in Top 100 QS World University Rankings, will also has significant value for accreditation. Thus, policy makers in university can use the data to plan further potential collaboration and choose potential university partners.

Table 8 below describes twenty most-cited documents of Universitas Pendidikan Indonesia (UPI) in Scopus. The data will be useful resource for citation analysis on authors and its research pattern. Researchers can track journals or conferences with higher citations and plan it for future potential publication outlets. Citation to documents in Scopus, as previously described, has been integrated in ranking for both university and researcher. Thus, such data will be important for institutions to improve its competitiveness in research. University, for example, might use the data to inform authors on what subject to research or what journal to submit and soon. University can also encourage researchers to do more collaborative works, as those that have collaborators, especially foreign experts, tend to have better citations.

Table 5

Country/Territory of Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Country/Territory	Documents
Indonesia	1379
Japan	63
Malaysia	32
South Korea	19
Netherlands	16
Australia	15
United States	15
Turkey	8
China	7
Pakistan	7
Poland	7
Saudi Arabia	7
Canada	6
Italy	6
Mexico	6
Brazil	5
Bulgaria	5
Croatia	5
Estonia	5
Ghana	5
Hong Kong	5
Hungary	5
India	5
Iran	5
Kenya	5
Nigeria	5
Portugal	5
Romania	5
Russian Federation	5
Slovakia	5
Spain	5
Uganda	5
United Kingdom	5
Philippines	4
Switzerland	4
France	3
Germany	3
Singapore	3
Bosnia and Herzegovina	2
Colombia	2
Israel	2
Taiwan	2
Thailand	2
Argentina	1
Austria	1
Chile	1
Czech Republic	1
Finland	1
Norway	1
Peru	1
Serbia	1
Ukraine	1
Undefined	3

Table 6

Authors of Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Author Name	Documents
Nandiyanto, A.B.D.	70
Abdullah, A.G.	51
Suhandi, A.	38
Rustaman, N.Y.	31
Samsudin, A.	28
Hasanah, L.	27
Setiawan, A.	27
Jugri A	26
Firman, H.	24
Kaniawati, I.	24
Suryadi, D.	22
Permanasari, A.	20
Riza, L.S.	20
Rusdiana, D.	20
Hidayat, T.	19
Khoerunnisa, F.	19
Liliasari	19
Redjeki, S.	19
Munir	18
Herman, T.	17

Table 7

Affiliation in documents by Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Affiliation	Documents
Universitas Pendidikan Indonesia	1382
Institut Teknologi Bandung	123
Universitas Padjadjaran	23
Hiroshima University	21
UIN Sunan Gunung Djati	14
Universitas Sultan Ageng Tirtayasa	14
Universitas Riau	11
State University of Malang	11
Shinshu University	10
Universitas Sriwijaya	10
Prof. Dr. HAMKA	10
Universiti Teknologi Malaysia	9
Lembaga Ilmu Pengetahuan Indonesia	8
Universitas Tadulako	8
Universitas Ahmad Dahlan	8
Gadjah Mada University	7
Bengkulu University	7
Telkom University	7
Universitas Negeri Surabaya	7
Universitas Islam Negeri Syarif Hidayatullah Jakarta	7
Universitas Swadaya Gunung Djati	6
Universiti Kebangsaan Malaysia	6
Utrecht University	6
Universitas Syiah Kuala	6
Federal Neuropsychiatric Hospital	5
Universitas Nusantara PGRI Kediri	5
Universitas Galuh	5
Universidade Federal do Rio de Janeiro	5
Kyung Hee University	5
University of Amsterdam	5
Universiti Utara Malaysia	5
Chiba University	5
Chinese University of Hong Kong	5
Wageningen University and Research Centre	5
Pecsi Tudományegyetem	5
Matej Bel University	5

Table 7 (continued)

Affiliation	Documents
Universidade do Estado do Rio de Janeiro	5
University of Zagreb	5
Baqiyatallah University of Medical Sciences	5
Akdeniz Universitesi	5
Indian Institute of Technology, Guwahati	5
Japan Advanced Institute of Science and Technology	5
Universidad Iberoamericana	5
Ankara Universitesi	5
Central University of Finance and Economics	5
King Saud University	5
Cumhuriyet Universitesi	5
Adekunle Ajasin University	5
University of Washington, Seattle	5
University of Wroclow	5
Saint Mary's University	5
University of Ghana	5
Izmir Ekonomi Universitesi	5
Universidade de Coimbra	5
Russian Academy of Sciences	5
Razi University	5
Universidade Federal do Rio Grande do Norte	5
Universita Cattolica del Sacro Cuore	5
Universitatea Babes-Bolyai din Cluj-Napoca	5
Kanazawa University	5
University of Nigeria	5
Universidad de Granada	5
Curtin University	5
University of Nairobi	5
University of Karachi	5
University of Tartu	5
Universitas Indonesia	5
Institut Pertanian Bogor	5
Universitas Brawijaya	5
Universitas Sebelas Maret	5
South-West University Neofit Rilski	5
Indian Institute of Management Bangalore	5
Makerere University	5
University Malaysia Pahang	5
Universitas Kanjuruhan Malang	5
Universitas Muhammadiyah Sidoarjo	5
University of Science and Culture, Tehran	5
Pakuan University	5
Universitas Negeri Medan	5
Yayasan Salib Suci	4
Universitas Muhammadiyah Tangerang	4
Arizona State University	4
Tohoku University	4
Institute of Psychology of the Polish Academy of Sciences	4
Universitat Zurich	4
Uniwersytet Warszawski	4
Universidade Federal de Uberlandia	4
Monash University	4
Istanbul Universitesi	4
Pontificia Universidade Catolica do Rio de Janeiro	4
Universitas Diponegoro	4
Universitas Lampung	4
Universitas Pasundan	4
Universitas Terbuka	4
Instituto D'Or de Pesquisa e Ensino	4
Universidade de Coimbra, Faculdade de Psicologia e de Ciencias da Educacao	4
Universitas Serang Raya	3
PSTNT-BATAN	3
Universitas PGRI Palembang	3

Table 7 (continued)

Affiliation	Documents
Möttemaru Oü	3
Nanyang Technological University	3
Kyoto University	3
Russian State University for the Humanities	3
Technische Universität Dresden	3
Kumoh National Institute of Technology	3
Yildiz Technical University	3
The University of Warwick	3
University of Tokyo	3
SWPS Uniwersytet Humanistycznospoleczny	3
Constantine the Philosopher University	3
University of Mataram	3
Universitas Pattimura	3
Nisshin Seifun Group Inc	3
Universitas Negeri Jakarta	3
Universitas Negeri Padang	3
STKIP PGRI Sumbar	3
Politeknik Negeri Lhokseumawe	3
Universitas Islam Riau	3
Universitas Sarjanawiyata Tamansiswa	3
Universitas Muhammadiyah Purwokerto	3
International Development Center of	2
Politeknik Negeri Semarang	2
PTNBR-BATAN	2
Public Health Institute	2
Universitas Siliwangi	2
Arsari Group	2
MI Consulting Corporation	2
Institut Teknologi Sumatera	2
Universitas Borneo Tarakan	2
Guangdong Construction Polytechnic	2
Sekolah Tinggi Keguruan Dan Ilmu Pendidikan Pasundan	2
SMAN 2 Kota Sukabumi	2
Dinas Pendidikan	2
STKIP Bima	2
Universitas Singaperbangsa Karawang	2
Hanwha	2
Nagoya University	2
University of Illinois at Urbana Champaign	2
angwon National University	2
Universiti Sains Malaysia	2
Universite Pierre et Marie Curie	2
Bar-Ilan University	2
Uniwersytet Opolski	2
Slovak Academy of Sciences	2
The University of British Columbia	2
University of Wollongong	2
Hokkaido University	2
International Islamic University Malaysia	2
Universidade da Madeira	2
Simon Fraser University	2
Institute for Materials Research, Tohoku University	2
National Science Museum, Tokyo	2
Baskent Universitesi	2
Universitas Udayana	2
Universitas Andalas	2
Satya Wacana Christian University	2
Institut Teknologi Sepuluh Nopember	2
University of the Philippines Los Banos	2
Japan International Cooperation Agency	2

Table 8

Most-Cited Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Author(s)	Journal	Citation
Vashaei et al. (2005)	Journal of Applied Physics	96
Cho et al. (2005)	Semiconductor Science and Technology	56
Topik, Yukawa, & Ito (2005)	Journal of Plant Research	46
Song et al. (2013)	Carbon	41
Ogi, Nandiyanto, & Okuyama (2014)	Advanced Powder Technology	37
Nandiyanto et al. (2013)	Chemical Engineering Science	31
Saito et al. (2006)	Journal of In-Service Education	29
Ray Hamidie et al. (2015)	Metabolism: Clinical and Experimental	26
Muraza et al. (2015)	Microporous and Mesoporous Materials	25
Arutanti et al. (2015)	ACS Applied Materials and Interfaces	25
Fatimah & Verhulst (2003)	Nonlinear Dynamics	25
Simonin et al. (2003)	Hydrometallurgy	23
Nandiyanto et al. (2013)	Langmuir	22
Aisyah et al. (2013)	Journal of Agricultural and Food Chemistry	21
Sundayana et al. (2017)	World Transactions on Engineering and Technology Education	20
Nandiyanto et al. (2014)	Chemical Engineering Journal	19
Arutanti et al. (2014)	AIChE Journal	19
Suhendi et al. (2013)	Langmuir	19
Radiman & Yuliani (2008)	Polymer International	19
Saito et al. (2007)	International Journal of Educational Development	19

2. Experimental design, materials, and methods

This data article collects the dataset from Scopus database. An institutional subscription is required to access the database. Once in Scopus database, institutional search was conducted using keyword "Indonesia". From more than two hundred institutions, ten state educational universities were chosen. For each university, collection of data was conducted using search analysis tool. Documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each university were downloadable in .csv format. These data in .csv file were then collected in an .xlsx file for each university. Ten .xlsx files for ten Indonesian educational universities were then uploaded along with this data article.

Further usage of the data can be based on policy makers, researchers or stake holders' point of view. For initial evaluation, a descriptive statistics using some tables and figures can be sufficient. However, a more detailed analysis will require further bibliometric analytic techniques and tools. Previous research can be guidance for researchers for a specific analysis on a university [4] or partial analysis of some universities as set of group [5] for Indonesian context.

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Transparency document. Supporting information

Transparency data associated with this article can be found in the online version at <https://doi.org/10.1016/j.dib.2018.11.128>.

Appendix A. Supporting information

Supplementary data associated with this article can be found in the online version at <https://doi.org/10.1016/j.dib.2018.11.128>.

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Dear Editor in Chief,

I would like to say thanks that our article, Indonesian state educational universities' bibliometric dataset is now available online, containing full bibliographic details.

Best regards,

Dr. Lantip Diat Prasojo



Contents lists available at ScienceDirect

Data in Brief

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Data Article

Indonesian state educational universities' bibliometric dataset



Lantip Diat Prasajo^{a,n}, Reni Fatmasari^b, Eti Nurhayati^c,
Ahmad Darmadji^d, Fitri Ayu Kusumaningrum^e,
Yuli Andriansyah^f

^a Department of Educational Management, Postgraduate Program, Universitas Negeri Yogyakarta, Indonesia

^b Faculty of Education, Monash University, Australia

^c Department of Islamic Early Childhood Education, Faculty of Islamic Education, Institut Agama Islam Negeri Syekh Nurjati, Indonesia

^d Department of Islamic Education & Master of Islamic Studies, Faculty of Islamic Studies, Universitas Islam Indonesia, Indonesia

^e Department of Psychology, Faculty of Psychology and Socio-Cultural Studies, Universitas Islam Indonesia, Indonesia

^f Department of Islamic Economics, Faculty of Islamic Studies, Universitas Islam Indonesia, Indonesia

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abstract

This data article presents an important bibliometric dataset of ten Indonesian leading educational universities. These ten Indonesian leading educational universities are Universitas Pendidikan Indonesia (UPI), Universitas Negeri Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ), Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri Gorontalo (UNG). Using Scopus database search analysis, this data article collects data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each universities.

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ⁿ Corresponding author.

E-mail addresses: lantip@uny.ac.id (L.D. Prasajo), reni0001@monash.edu.au (R. Fatmasari), etinurhayati@syekhnurjati.ac.id (E. Nurhayati), ahmad.darmadji@uii.ac.id (A. Darmadji), fitriayukusumaningrum@uii.ac.id (F.A. Kusumaningrum), yuliandriansyah@uii.ac.id (Y. Andriansyah).

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Specifications table

Subject area	Education
More specific subject area	Higher education
Type of data	Table and figure
How data was acquired	Scopus search analysis
Data format	Raw and filtered
Experimental factors	Institutional search in Scopus is conducted to obtain ten Indonesian leading educational universities
Experimental features	Search analysis in Scopus is conducted for each ten Indonesian leading educational universities to obtain bibliometric data
Data source location	Indonesia
Data accessibility	The dataset is accessible within this article data
Related research article	<ol style="list-style-type: none"> 1. A. Darmadji, L. D. Prasajo, Y. Riyanto, F. A. Kusumaningrum, and Y. Andriansyah, "Publications of Islamic University of Indonesia in Scopus Database: a bibliometric assessment," <i>COLLNET J. Sci. Inform. Manag.</i>, 12 (1), 2018, 109–131. 2. A. Darmadji, L. D. Prasajo, F. A. Kusumaningrum, and Y. Andriansyah, "Research productivity and international collaboration of top Indonesian universities," <i>Curr. Sci.</i>, 115 (4), 2018, 653–658.

Value of the data

The dataset in this article will help further research on research quality of Indonesian educational universities. Policy makers, researchers, and other stakeholders can use the dataset to compare research quality of each university.

The dataset will also provide useful tool for analysis in university level. Policy makers, researchers, and other stakeholders can use the dataset to analyze research quality of each university in terms of productivity, collaboration, citation and others.

The dataset will also be useful in conducting citation analysis of highly-cited documents. This particular data can provide insight on how to publish in high impact academic journals as well as conferences.

1. Data

This article data presents bibliometric dataset of ten Indonesian leading educational universities. Educational universities in this context are those that previously known as IKIP or Institut Keguruan dan Ilmu Pendidikan (Institute of Teaching and Educational Sciences). These universities previously provide higher education services to prepare teachers all over Indonesia after Independence Day. In the late 1990s and early 2000s, Government of Indonesia transform these universities into more open in educational services by providing courses in education, law, humanities, business, engineering, technology and others. This transformation changes also these universities name from previously institute to university.

After the transformation, some of educational universities show its capacity to compete to improve research quality. This dataset focuses on leading educational universities with largest publication in Scopus. Scopus is chosen as database because of its usage by Government of Indonesia to rank universities. Ranking these Indonesian leading educational universities based on Scopus documents results in names as follow: Universitas Pendidikan Indonesia (UPI), Universitas Negeri Malang (UM), Universitas Negeri Semarang (UNNES), Universitas Negeri Surabaya (Unesa), Universitas Negeri Yogyakarta (UNY), Universitas Negeri Makassar (UNM), Universitas Negeri Jakarta (UNJ),

Universitas Negeri Padang (UNP), Universitas Negeri Medan (Unimed), and Universitas Negeri Gorontalo (UNG).

Table 1 below summarizes ten Indonesian leading educational universities name and its abbreviation, documents in Scopus, first year in Scopus, average documents until 2010, and average documents from 2011 to 2018. This data is useful to understand the pattern of these universities' documents in Scopus database. Average documents before and after 2010 are presented to show the increasing trend in documents in Scopus as implication of policies by Government of Indonesia regarding Scopus. In 2010s, Government of Indonesia uses Scopus for some important policies for higher education: 1) document in Scopus is required for professor tenure[1]; 2) university ranking based on document in Scopus [2,3]; and 3) researcher ranking based on document and citation in Scopus [2]. These policies imply competition among universities, including educational ones, to publish in Scopus-indexed journals and conference that make improvement in data in Table 1 reasonable.

After using Scopus database to search for leading educational universities in Indonesia, further step is collecting data on documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited

Table 1

General information of ten Indonesian educational universities in dataset. Source: Scopus, accessed June 27, 2018.

University Name and Abbreviation	Documents in Scopus	First Year in Scopus	Average Documents Until 2010 ^a	Average Documents 2011-2018 ^a
Universitas Pendidikan Indonesia (UPI)	1382	2002	4.22	168.00
Universitas Negeri Malang (UM)	611	2000	6.55	67.38
Universitas Negeri Semarang (UNNES)	559	2001	2.00	67.38
Universitas Negeri Surabaya (Unesa)	547	2000	1.45	66.38
Universitas Negeri Yogyakarta (UNY)	340	2002	1.78	40.50
Universitas Negeri Makassar (UNM)	338	2000	0.91	41.00
Universitas Negeri Jakarta (UNJ)	304	2001	2.20	35.25
Universitas Negeri Padang (UNP)	261	2003	1.25	31.38
Universitas Negeri Medan (Unimed)	141	2000	1.55	15.50
Universitas Negeri Gorontalo (UNG)	104	2008	0.67	12.75

^a Authors estimation.

Table 2

Documents per Year of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Year	Documents
2002	1
2003	5
2004	0
2005	5
2006	5
2007	3
2008	5
2009	0
2010	14
2011	13
2012	28
2013	41
2014	50
2015	55
2016	270
2017	507
2018	380

documents for each universities. This data were then saved in an .xlsx file for each university. Every .xlsx file consists of data for single university. To explain what each .xlsx file consists of, sample of Universitas Pendidikan Indonesia will be described in the following tables and figure.

Table 2 below describes number of documents per year in Scopus published by Universitas Pendidikan Indonesia (UPI). This table informs initial year the university published document in Scopus and its development until recently. Increasing trend in data can also simply be viewed from this table.

Fig. 1 below describes subject area of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. This subject area can inform the strength of the university in publication. It can also be a good source to evaluate transformation of the university from previously focused on education to a wider range of teaching as today. Policy makers from Government of Indonesia can use this data to analyze whether policy on educational university has a shift paradigm in publication and soon.

Table 3 below describes source titles of documents by Universitas Pendidikan Indonesia (UPI) in Scopus. The data on source title can inform the trend in the university's publication. A researcher can use this data to analyze quality of source based on its impact factor, SCIMago journal ranking, Cite-

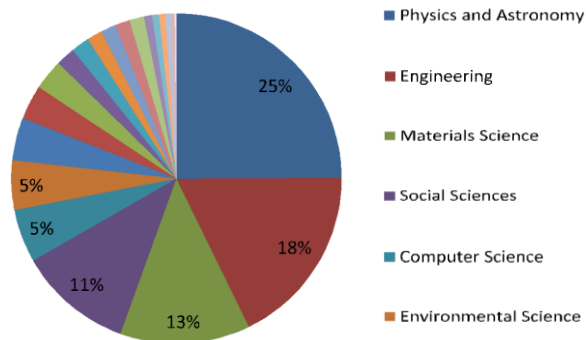


Fig. 1. Subject Area of Documents of Universitas Pendidikan Indonesia (UPI).

Table 3

Source Title of Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Source Title	Documents
Journal of Physics Conference Series	392
IOP Conference Series Materials Science And Engineering	243
AIP Conference Proceedings	127
IOP Conference Series Earth And Environmental Science	62
Indonesian Journal of Applied Linguistics	44
Jurnal Pendidikan IPA Indonesia	31
Man In India	31
Pertanika Journal of Science And Technology	19
International Journal of Applied Business And Economic Research	16
Advanced Science Letters	11
International Journal Of Economic Research	11
Journal Of Engineering Science And Technology	11
ARNP Journal Of Engineering And Applied Sciences	6
New Educational Review	6
American Journal Of Applied Sciences	5
Indonesian Journal Of Chemistry	5
International Journal Of Instruction	5
Jurnal Teknologi Sciences And Engineering	5
Materials Science Forum	5
Social Sciences Pakistan	5

Table 4
Document Types of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Document Type	Documents
Conference Paper	949
Article	400
Book Chapter	11
Review	7
Editorial	6
Article in Press	4
Erratum	3
Note	2

Score, and other measurements. The source can also be a good source to determine the university policy in publication: whether it focuses on quantity, by allowing researchers to publish at any kind of Scopus-indexed journals and conferences, or quality, by emphasizing on only high impact journals or conferences.

Table 4 below describes document types of publication in Scopus by Universitas Pendidikan Indonesia (UPI). The data can inform the university policy in publishing research. Government of Indonesia considers article has a greater value than conference paper. Thus, when the university emphasizes on conference paper, it can be an indication for its effort to improve number of documents. Document types can also inform the variety of academic communication by the university.

Table 5 below describes country/territory of document origin by Universitas Pendidikan Indonesia (UPI) in Scopus. The data can inform collaboration pattern of the university in term of country. The data shows Indonesia in top list which can be interpreted as main source of document origin. Japan follows in second list as indication of 63 documents published in collaboration with researchers from this country. This data will also be useful to map collaboration based on regions. Researchers for example can analyze publications in collaboration with Asian, European, American countries, and soon.

Table 6 below describes prominent authors in Universitas Pendidikan Indonesia (UPI). These authors are those whose largest prominent documents in Scopus. The data on these authors can be useful to analyze disparities among staff member of university. Policy makers can also use the data as source of potential individuals tasked to improve university publication. For public, these authors can also be sources for commentary and analysis for occurring events in the society.

Table 7 below describes affiliations in documents by Universitas Pendidikan Indonesia (UPI) in Scopus. The data consists of universities, research institutions, libraries and other entities having collaboration with the university in publishing documents. This type of data can be very useful to analyze collaboration pattern in research in terms of internationalization. Government of Indonesia has encouraged researchers to collaborate with potential partners especially in developed countries by providing relevant grants. Such data can be resource to track the results of this policy. Furthermore, having collaboration with world leading universities, for example those that are listed in Top 100 QS World University Rankings, will also has significant value for accreditation. Thus, policy makers in university can use the data to plan further potential collaboration and choose potential university partners.

Table 8 below describes twenty most-cited documents of Universitas Pendidikan Indonesia (UPI) in Scopus. The data will be useful resource for citation analysis on authors and its research pattern. Researchers can track journals or conferences with higher citations and plan it for future potential publication outlets. Citation to documents in Scopus, as previously described, has been integrated in ranking for both university and researcher. Thus, such data will be important for institutions to improve its competitiveness in research. University, for example, might use the data to inform authors on what subject to research or what journal to submit and soon. University can also encourage researchers to do more collaborative works, as those that have collaborators, especially foreign experts, tend to have better citations.

Table 5

Country/Territory of Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Country/Territory	Documents
Indonesia	1379
Japan	63
Malaysia	32
South Korea	19
Netherlands	16
Australia	15
United States	15
Turkey	8
China	7
Pakistan	7
Poland	7
Saudi Arabia	7
Canada	6
Italy	6
Mexico	6
Brazil	5
Bulgaria	5
Croatia	5
Estonia	5
Ghana	5
Hong Kong	5
Hungary	5
India	5
Iran	5
Kenya	5
Nigeria	5
Portugal	5
Romania	5
Russian Federation	5
Slovakia	5
Spain	5
Uganda	5
United Kingdom	5
Philippines	4
Switzerland	4
France	3
Germany	3
Singapore	3
Bosnia and Herzegovina	2
Colombia	2
Israel	2
Taiwan	2
Thailand	2
Argentina	1
Austria	1
Chile	1
Czech Republic	1
Finland	1
Norway	1
Peru	1
Serbia	1
Ukraine	1
Undefined	3

Table 6

Authors of Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Author Name	Documents
Nandiyanto, A.B.D.	70
Abdullah, A.G.	51
Suhandi, A.	38
Rustaman, N.Y.	31
Samsudin, A.	28
Hasanah, L.	27
Setiawan, A.	27
Jupri, A.	26
Firman, H.	24
Kaniawati, I.	24
Suryadi, D.	22
Permanasari, A.	20
Riza, L.S.	20
Rusdiana, D.	20
Hidayat, T.	19
Khoerunnisa, F.	19
Liliasari	19
Redjeki, S.	19
Munir	18
Herman, T.	17

Table 7

Affiliation in documents by Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Affiliation	Documents
Universitas Pendidikan Indonesia	1382
Institut Teknologi Bandung	123
Universitas Padjadjaran	23
Hiroshima University	21
UIN Sunan Gunung Djati	14
Universitas Sultan Ageng Tirtayasa	14
Universitas Riau	11
State University of Malang	11
Shinshu University	10
Universitas Sriwijaya	10
Universitas Muhammadiyah Prof. Dr. HAMKA	10
Universiti Teknologi Malaysia	9
Lembaga Ilmu Pengetahuan Indonesia	8
Universitas Tadulako	8
Universitas Ahmad Dahlan	8
Gadjah Mada University	7
Bengkulu University	7
Telkom University	7
Universitas Negeri Surabaya	7
Universitas Islam Negeri Syarif Hidayatullah Jakarta	7
Universitas Swadaya Gunung Djati	6
Universiti Kebangsaan Malaysia	6
Utrecht University	6
Universitas Syiah Kuala	6
Federal Neuropsychiatric Hospital	5
Universitas Nisantara PGRI Kediri	5
Universitas Galuh	5
Universidade Federal do Rio de Janeiro	5
Kyung Hee University	5
University of Amsterdam	5
Universiti Utara Malaysia	5
Chiba University	5
Chinese University of Hong Kong	5
Wageningen University and Research Centre	5
Peci Tudomanygyetem	5
Matej Bel University	5

Table 7 (continued)

Affiliation	Documents
Universidade do Estado do Rio de Janeiro	5
University of Zagreb	5
Baqiyatallah University of Medical Sciences	5
Akdeniz Universitesi	5
Indian Institute of Technology, Guwahati	5
Japan Advanced Institute of Science and Technology	5
Universidad Iberoamericana	5
Ankara Universitesi	5
Central University of Finance and Economics	5
King Saud University	5
Cumhuriyet Universitesi	5
Adekunle Ajasin University	5
University of Washington, Seattle	5
University of Wroclaw	5
Saint Mary's University	5
University of Ghana	5
Izmir Ekonomi Universitesi	5
Universidade de Coimbra	5
Russian Academy of Sciences	5
Razi University	5
Universidade Federal do Rio Grande do Norte	5
Universita Cattolica del Sacro Cuore	5
Universitatea Babeş-Bolyai din Cluj-Napoca	5
Kanazawa University	5
University of Nigeria	5
Universidad de Granada	5
Curtin University	5
University of Nairobi	5
University of Karachi	5
University of Tartu	5
Universitas Indonesia	5
Institut Pertanian Bogor	5
Universitas Brawijaya	5
Universitas Sebelas Maret	5
South-West University Neofit Rilski	5
Indian Institute of Management Bangalore	5
Makerere University	5
University Malaysia Pahang	5
Universitas Kanjuruhan Malang	5
Universitas Muhammadiyah Sidoarjo	5
University of Science and Culture, Tehran	5
Pakuan University	5
Universitas Negeri Medan	5
Yayasan Salib Suci	4
Universitas Muhammadiyah Tangerang	4
Arizona State University	4
Tohoku University	4
Institute of Psychology of the Polish Academy of Sciences	4
Universitat Zurich	4
Uniwersytet Warszawski	4
Universidade Federal de Uberlandia	4
Monash University	4
Istanbul Universitesi	4
Pontificia Universidade Catolica do Rio de Janeiro	4
Universitas Diponegoro	4
Universitas Lampung	4
Universitas Pasundan	4
Universitas Terbuka	4
Instituto D'Or de Pesquisa e Ensino	4
Universidade de Coimbra, Faculdade de Psicologia e de Ciencias da Educacao	4
Universitas PGRI Semarang	4
Universitas Serang Raya	3
PSTNT-BATAN	3
Universitas PGRI Palembang	3

Table 7 (continued)

Affiliation	Documents
Möttemaru Oti	3
Nanyang Technological University	3
Kyoto University	3
Russian State University for the Humanities	3
Technische Universität Dresden	3
Kumoh National Institute of Technology	3
Yildiz Technical University	3
The University of Warwick	3
University of Tokyo	3
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Universitas Pattimura	3
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Universitas Negeri Jakarta	3
Universitas Negeri Padang	3
STKIP PGRI Sumbar	3
Politeknik Negeri Lhokseumawe	3
Universitas Islam Riau	3
Universitas Sarjanawiyata Tamansiswa	3
Universitas Muhammadiyah Purwokerto	3
International Development Center of	2
Politeknik Negeri Semarang	2
PTNBR-BATAN	2
Public Health Institute	2
Universitas Siliwangi	2
Arsari Group	2
MI Consulting Corporation	2
Institut Teknologi Sumatera	2
Universitas Borneo Tarakan	2
Guangdong Construction Polytechnic	2
Sekolah Tinggi Keguruan Dan Ilmu Pendidikan Pasundan	2
SMAN 2 Kota Sukabumi	2
Dinas Pendidikan	2
STKIP Bima	2
Universitas Singaperbangsa Karawang	2
Hanwha	2
Nagoya University	2
University of Illinois at Urbana-Champaign	2
Kangwon National University	2
Universiti Sains Malaysia	2
Universite Pierre et Marie Curie	2
Bar-Ilan University	2
Uniwersytet Opolski	2
Slovak Academy of Sciences	2
The University of British Columbia	2
University of Wollongong	2
Hokkaido University	2
International Islamic University Malaysia	2
Universidade da Madeira	2
Simon Fraser University	2
Institute for Materials Research, Tohoku University	2
National Science Museum, Tokyo	2
Baskent Üniversitesi	2
Universitas Udayana	2
Universitas Andalas	2
Satya Wacana Christian University	2
Institut Teknologi Sepuluh Nopember	2
University of the Philippines Los Banos	2
Japan International Cooperation Agency	2

Table 8
Most-Cited Documents of Universitas Pendidikan Indonesia (UPI). Source: Scopus, accessed June 27, 2018.

Author(s)	Journal	Citation
Vashaei et al. (2005)	Journal of Applied Physics	96
Cho et al. (2005)	Semiconductor Science and Technology	56
Topik, Yukawa, & Ito (2005)	Journal of Plant Research	46
Song et al. (2013)	Carbon	41
Ogi, Nandiyanto, & Okuyama (2014)	Advanced Powder Technology	37
Nandiyanto et al. (2013)	Chemical Engineering Science	31
Saito et al. (2006)	Journal of In-Service Education	29
Ray Hamidie et al. (2015)	Metabolism: Clinical and Experimental	26
Muraza et al. (2015)	Microporous and Mesoporous Materials	25
Arutanti et al. (2015)	ACS Applied Materials and Interfaces	25
Fatimah & Verhulst (2003)	Nonlinear Dynamics	25
Simonin et al. (2003)	Hydrometallurgy	23
Nandiyanto et al. (2013)	Langmuir	22
Aisyah et al. (2013)	Journal of Agricultural and Food Chemistry	21
Sundayana et al. (2017)	World Transactions on Engineering and Technology Education	20
Nandiyanto et al. (2014)	Chemical Engineering Journal	19
Arutanti et al. (2014)	AIChE Journal	19
Suhendi et al. (2013)	Langmuir	19
Radiman & Yuliani (2008)	Polymer International	19
Saito et al. (2007)	International Journal of Educational Development	19

2. Experimental design, materials, and methods

This data article collects the dataset from Scopus database. An institutional subscription is required to access the database. Once in Scopus database, institutional search was conducted using keyword “Indonesia”. From more than two hundred institutions, ten state educational universities were chosen. For each university, collection of data was conducted using search analysis tool. Documents per year, subject area of documents, source title of documents, documents type, country/territory, author name and number of documents, affiliation and most cited documents for each university were downloadable in .csv format. These data in .csv file were then collected in an .xlsx file for each university. Ten .xlsx files for ten Indonesian educational universities were then uploaded along with this data article.

Further usage of the data can be based on policy makers, researchers or stake holders’ point of view. For initial evaluation, a descriptive statistics using some tables and figures can be sufficient. However, a more detailed analysis will require further bibliometric analytic techniques and tools. Previous research can be guidance for researchers for a specific analysis on a university [4] or partial analysis of some universities as set of group [5] for Indonesian context.

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Transparency document. Supporting information

Transparency data associated with this article can be found in the online version at <https://doi.org/10.1016/j.dib.2018.11.128>.

Appendix A. Supporting information

Supplementary data associated with this article can be found in the online version at <https://doi.org/10.1016/j.dib.2018.11.128>.

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4. Rates and prices: Unless otherwise agreed by Elsevier in writing the price/rates for the Products shall be those set out in Elsevier's current price/rate list (whether print or online). All such prices/rates shall be exclusive of any handling, packing, loading, freight, transport and insurance charges unless otherwise agreed in writing, and shall also be exclusive of any taxes, import duties or other levies imposed on the sale or import of the Products by local or national authorities, which shall be charged by Elsevier as appropriate. Where applicable, Client shall provide its VAT registration number or other evidence of tax exemption to Elsevier at the time of placing its order. If, under the laws of the territory in which Client is selling the Products, the Client is required to withhold any tax on the amounts payable to Elsevier under the TC, then the amount of the payment will be automatically increased to fully offset such tax, so that the amount actually remitted to Elsevier, net of all taxes, equals the amount invoiced or otherwise due. The Client will promptly furnish Elsevier with the official receipt of payment of those taxes to the appropriate taxing authority. All financial transactions must be settled in the currency of the applicable Elsevier invoice. The Client will be solely responsible at its own cost for completing any foreign exchange-related procedures in the said territory that are necessary to make payments to Elsevier under the TC, including without limitation all bank charges and foreign exchange charges.

5. Payment: Unless otherwise agreed in writing, payments shall be effected within thirty (30) days of the invoice date in the currency invoiced. Time for payment shall be of the essence. Elsevier may set and vary credit limits for any Client account and shall be entitled to refuse to supply any Client who has exceeded its current credit limit. Legal and beneficial title in any tangible Products supplied by Elsevier to the Client shall remain with Elsevier until Elsevier has received in full (in cash or cleared funds) all sums due to it in respect of the Products and all other sums which are or which become due to Elsevier from the Client on any account. The Client may resell the Products before ownership has passed to it provided that any sale shall be effected in the ordinary course of the Client's business at full market value and any such sale shall be a sale of Elsevier's property on the Client's own behalf and the Client shall deal as principal when making such a sale. Elsevier shall be entitled to recover payment for the copies of the Product notwithstanding that ownership of any of the copies of the Product has not passed from Elsevier. For the avoidance of doubt no intellectual property rights in any Elsevier Products shall transfer to the Client. Products shall be at the Client's risk as from delivery. The Client shall make all payments due under the TC without any deduction whether by way of set-off, counterclaim, discount, abatement or otherwise unless the Client has a valid court order requiring an amount equal to such deduction to be paid by Elsevier to the Client. From the due date of the invoice to the date of payment in full, interest at the rate of 1% may be charged to the Client on a monthly basis for any sums outstanding, together with any collection fees incurred by Elsevier. If the Client wishes to dispute any invoice (or part), the Client shall, as soon as reasonably practicable, but no later than the due date of such invoice, send full details of such dispute to Elsevier in writing. The Client shall remain liable for any undisputed part of such invoice. Elsevier shall be entitled, at any time, to demand payment in advance and may suspend performance of its obligations arising from the TC until such advance payment has been received. Where the Client is indebted to Elsevier for any other Product or Service under any other order, Elsevier reserves the right to withhold supply of the Products or Services under the current order until any outstanding monies are fully paid. Elsevier shall be entitled to apply any monies received by the Client, to clear any of the Client's outstanding debts to Elsevier.

6. Distribution: The Client shall not engage in piracy, reproduction, or plagiarism of the Products or any other products of Elsevier or its affiliates, nor shall it directly or indirectly facilitate any other party to engage in those activities. The Client shall promptly notify Elsevier if it becomes aware of any piracy, reproduction, or plagiarism of the Products by any third party. The Client is solely responsible for collecting from its customers amounts due in respect of its sales of the Products, exercising full credit control and solely bearing all of its own losses resulting from any uncollected amounts. Delays or failures in obtaining such payments will not affect the Client's obligation to make payments to Elsevier under clause 5.

7. Intellectual property: Copyright and other intellectual property rights to all Elsevier proposals, publications and other Products and/or Services shall remain with Elsevier unless agreed otherwise in writing. The rights granted by Elsevier are restricted to use solely by the Client and may not be assigned, transferred or sublicensed without the prior written permission of Elsevier. The rights granted by Elsevier are non-exclusive and for the purpose expressly agreed upon. Any other use shall require the prior written permission of Elsevier. The Client shall not acquire any intellectual property rights in the Products. No part

of the Elsevier proposals, publications or Products may be stored in any automated data file and/or reproduced, whether electronically, mechanically, by photocopying, recording or in any other manner or form, without the specific prior written permission of Elsevier.

8. Liability and claims: TO THE MAXIMUM EXTENT PERMITTED BY RELEVANT LAWS (i) Elsevier shall not be liable for any of the following losses which may arise by reason of any breach of this TC or any implied warranty, condition or other term, any representation or any duty of any kind imposed on Elsevier by operation of law: (a) any loss of anticipated profits or expected future business; (b) damage to reputation or goodwill; (c) any damages, costs or expenses payable by Elsevier to any third party; (d) loss of any order or contract; or (e) any loss that was not foreseeable by the Client and Elsevier at the time this TC was entered into; or (f) any loss not caused by any breach on the part of Elsevier; AND (ii) NEITHER PARTY SHALL BE RESPONSIBLE FOR DEATH OR PERSONAL INJURY EXCEPT THAT RESULTING FROM ITS OWN NEGLIGENCE OR WILFUL INTENT OR THE NEGLIGENCE OF ITS EMPLOYEES OR OTHERS FOR WHOM THE PARTY IS LEGALLY RESPONSIBLE. NOTHING IN THE TC SHALL BE CONSTRUED AS CREATING AN OBLIGATION TO INDEMNIFY THE OTHER PARTY AGAINST THE OTHER PARTY'S OWN NEGLIGENCE. ELSEVIER'S LIABILITY FOR ANY OTHER LOSS IMPUTABLE TO IT SHALL IN ANY EVENT BE LIMITED TO THE INVOICE VALUE OF THE PART OF THE TC TO WHICH THE LIABILITY ARISES. TO THE MAXIMUM EXTENT PERMITTED BY RELEVANT LAWS Elsevier EXPRESSLY EXCLUDES ANY LIABILITY FOR BREACH OF ANY IMPLIED OR EXPRESS WARRANTY OF AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NOTHING IN THIS CONTRACT SHALL LIMIT THE CLIENT'S EXISTING LEGAL OR STATUTORY RIGHTS WHERE IT IS ACTING AS A CONSUMER. The parties agree that the United Nations Convention on Contracts for the International Sale of Goods shall not apply to this TC or the interpretation or enforcement thereof. The Client has entered into this TC in the knowledge that the liability of Elsevier is to be limited in accordance with these terms and conditions and the charges have been agreed accordingly. The Client acknowledges that a higher price would be payable for the Products or Services but for such limitations.

9. Force majeure: If by reason of labor dispute, strikes, inability to obtain labor or materials, fire or other action of the elements, accidents, power or telecommunications failure, customs delays, governmental restrictions or appropriation or other causes beyond the control of a party, such party is unable to perform in whole or in part its obligations set forth in this TC, then such party shall be relieved of those obligations to the extent it is thereby unable to perform, and such inability to perform shall not make such party liable to any other party. The party subject to an event of force majeure shall use good faith efforts to comply as closely as possible with the provisions of this TC and to avoid the effects of such event to the extent possible.

10. Audit: If Client is an agent, Client shall allow Publisher's authorized representative at any reasonable time to have access to Client's premises (or to arrange for Publisher's authorized representatives to have access to other relevant premises) for the purpose of inspecting Client's facilities, books and records to verify Client's compliance with the TC.

11. Compliance with laws: Client shall at all times during the term strictly comply with all applicable laws, ordinances, codes, regulations, standards and judicial and administrative orders (jointly "Applicable Laws" or "Laws") relevant to its duties, obligations and performance under the TC, including, without limitation, the RELX Code of Conduct for Suppliers (available at www.relx.com), Laws related to bribery, including, without limitation any such Laws that are enforced internationally (such as the United States Foreign Corrupt Practice Act and the UK Bribery Act) and those enforced in the country where business is being conducted and/or the Client's place of business or residency. Client and its officers, directors, employees and agents shall engage only in legitimate business and ethical practices in commercial operations and in relation to its dealings with any employee or official of a government agency or any other government owned, operated or controlled entity (including, without limitation, state run universities, hospitals and libraries), or political parties or candidates (jointly "Government Official"). Neither Client nor any of its officers, directors, employees or agents shall pay, offer, give, promise or authorize the payment, directly or indirectly, of any monies or anything of value to any commercial contact or Government Official for the purpose or intent to induce such person to use his/her authority to help the Client, Elsevier, and/or any affiliate of Elsevier for personal gain or for that of Elsevier or Elsevier's affiliates (any such act, a "Prohibited Payment").

A Prohibited Payment does not include a payment of reasonable and bona fide expenditures, such as travel or lodging expenses, which are directly related to the promotion, demonstration or explanation of Products or Services or the execution or performance of a contract provided that such payments are permissible under the Applicable Laws. Client further agrees that he/she will not accept any payment or other benefit in money or in kind from any person as an inducement or reward for any act or forbearance or in connection with any matter or business transacted by or on behalf of Elsevier.

12. Cancellations & Returns: Without prejudice to any rights the Client may have under statute as a consumer, if the Client cancels an order either fully or partially, a cancellation fee may be charged. All cancellations must be made in writing. This fee will be calculated to cover any external or internal costs which have been incurred or committed up to and including the date of cancellation. No new external costs will be incurred or committed/contracted from the date of receipt of written notice of cancellation by Elsevier. Any returns of the Products shall be subject to the relevant Elsevier company's return policy applicable to the product at the time of the return. Details of such policies will be provided to the Client upon request. Reprints cannot be returned once these have been printed.

13. General: The formation, existence, construction, performance, validity and all aspects of the TC shall be governed by the law of the corporate domicile of the Elsevier company which is providing the Products or Services. The parties agree to submit to the exclusive jurisdiction of the courts of that same corporate domicile. The Client shall not be entitled to assign the TC or any part of it without the prior written consent of Elsevier. Elsevier may assign the TC or any part of it to any person, firm or company. If any provision of the TC is found by any court, tribunal or administrative body of competent jurisdiction to be wholly or partly illegal, invalid, void, voidable, unenforceable or unreasonable it shall to the extent of such illegality, invalidity, voidness, voidability, unenforceability or unreasonableness be deemed severable and the remaining provisions of the TC and the remainder of such provision shall continue in full force and effect. Failure or delay by Elsevier in enforcing or partially enforcing any provision (or prosecuting any breach) of the TC will not be construed as a waiver of any of its rights under the TC.

No Tiket : 18121900243196 Jenis Trx : BANK JUAL Rate : 14460.000
 No Trx : 924623 2018-12-19 14:19:39 049975
 USD 2,42 IDR
 Pelaku Trx : LANTIE DIAT PRASOJO
 Debet Rek : 0000000128943190 LANTIE DIAT PRASOJO
 Kredit Rek : 00000002280004124 SIMSEM GIRO INTERNAL



**PERMOHONAN PENGIRIMAN UANG
 REMITTANCE APPLICATION**

BERLAKU KETENTUAN DI BALIK INI
 SUBJECT TO CONDITION REVERSE

Tgl. / Date : 12-12-2018

Nama & Alamat Pengirim :
 Remitter's Name & Address :
 LANTIE DIAT PRASOJO
 Jl. ...
 Ac. No. : 0128943190

Kepada / To
 PT. Bank Negara Indonesia (Persero) Tbk
 Cabang / Branch : BNI UGM

1. Harap kirimkan uang dengan
 Please remit by Telex / Swift Pos / Mail *)

2. Harap terbitkan draft
 Please Issue draft

3. Penerima / Beneficiary
 ● Nama/Name ** : ELSEVIER INC
 ● Alamat/Address : 2291 RIVERPORT MARYLAND HEIGHTS
 MD 23043 US

(Kota/City) (Negara/Country)
 ● Rekening/Account No. : NL 17 INGB 0020 158157
 ● Pada/With Bank : ING BANK N.V.
 (Kota/City) AMSTERDAM (Negara/Country) THE NETHERLANDS

4. Ongkos Bank Koresponden (OKB) atas beban
 Correspondent Bank Charger (CBC) for account +) Penerima Beneficiary Pengirim Remitter *)

5. Keterangan pembayaran : PROJECT NO 17795CVI
 Payment detail

6. Jumlah VA / CCY : 500 USD
 Amount dengan huruf/in words : Lima ratus USD

7. Sumber dana*** :
 8. Penggunaan dana *** :

DIISI OLEH BANK / FILLED BY BANK

	Valas	Rupiah
Nominal	USD 500	Rp. 7.250.000
Komisi / Comm		Rp. 25.000
Ongkos / Charges		
OBK / CBC +)	USD 25	Rp. 261.500
Kurs / Rate	14.160	
Total	USD 525	Rp. 7.626.500
Dng. Huruf / In Word		

Setoran / Cover *) : Tunai Cash Debit rekening kami Cebit my/our account Lain-lain Others

Disetujui / Accepted
 PT Bank Negara Indonesia (Persero) Tbk
 Ref. No. : Tgl. :



Pengirim / Remitter
 (LANTIE DIAT PRASOJO)
 081370766717

*) Pilihan beri tanda / Choice marked
 **) Bagi Non nasabah untuk transaksi di atas Rp. 100.000.000,- agar menyerahkan fotocopy identitas
 ***) Untuk transaksi di atas Rp. 100.000.000,-

REFERENCE : S10UGM00224418
 NO. TRX. : 49975 926778 96962 TRAN 19/12/2018 14:23:08
 NO. REK. : 000002280004124 SIMSEM GIRO INTERNAL
 JUMLAH : USD 527,42 - 1568
 226 - UGM YOGYA

NO. TRX. : 49975 926778 96962
 NO. REK. : 000002280004124
 JUMLAH : USD 527,42 - 1568
 226 - UGM YOGYA

No Tiket : 18121900243196 Jenis Trx : BANK JUAL Rate : 14460.000
 No Trx : 924623 2018-12-19 14:19:39 049975
 USD 525 IDR 7.591.500
 Pelaku Trx : sdr LANTIE DIAT PRASOJO
 Debet Rek : IDR 0000000128943190 LANTIE DIAT PRASOJO
 Kredit Rek : USD 00000002280004124 SIMSEM GIRO INTERNAL

PT. BANK NEGARA INDONESIA (Persero), Tbk
CABANG : UGM YOGYA

IBOC - Maintenance (S10

Teller ID : 49975
Date : 19/12/2018
Time : 14:26:41

Sender's Reference:
:20:S10UGM00224418
Bank Operation Code:
:23B:CRED
Value Date/Currency/Interbank Settled Amount:
:32A:181219USD500,
Ordering Customer:
:50K:/128943190
DR. LANTIP DIAT PRASOJO
UNIVERSITAS NEGERI YOGYAKARTA
JL.KOLOMBO NO.1 YOGYA INDONESIA
Ordering Institution:
:52A:BNINIDJAXXX
Account With Institution:
:57A:INGBNL2AXXX
Beneficiary Customer:
:59:/NL17INGB0020158157
ELSEVIER INC.
3251 RIVERPORT MARYLAND HEIGHTS
MO 63043 USA
Remittance Information:
:70:INVOICE NO: 17795CV1
Details Of Charges:
:71A:OUR

