
SAIZU INTERNATIONAL CONFERENCE ON TRANSDISCIPLINARY RELIGIOUS STUDIES (SAIZU ICON-TREES)

ISSN 2964-5859, Volume 1, 2021, Pages 1-6

DOI: <https://doi.org/10.24090/icontrees.2021.2>

Proceeding of 1st Internasional Conference on Empowering Scientific Religious Studies in Post Pandemic Era

Open Learning Resource as Scientific Communication: a selected webliography

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Abstract: The pandemic not only changes the learning process, but also access to learning resources as a part of scientific communication. Before the pandemic, libraries as a learning resource centre could serve the user physically, but during the new normal era, many libraries provide online services. This requires the ability of library managers to be able to offer more learning resources for the academic community. This paper aims to describe various links and descriptions of web-shaped information sources that can be used as learning resources. The method used is a qualitative method by searching websites that contain the open learning resources. The results show that various websites have been found that not only provide information, but also various sources that can be used in the learning process with a very broad subject. All of the resources described are learning resources that are open and legal to use.

Keywords: *learning resource; open access; webliography; scientific communication*

A. INTRODUCTION

Today, from the last of 2019 ago, the entire world has been faced with the COVID-19. It has made a rapid change to adaptation in new normal era. Covid 19 has shutdown educational institution in several countries (Gutiérrez, Ponce, & Molina, 2021)[1]. Some of educational institutions apply e-learning as solution to keep education process going. Therefore, it needs the good learning resources that can be access by teacher and student. The problem arises when the library is unable to provide the service physically.

Many libraries in educational institution are close their physical services and change to the digital services. Some of them use subscribed digital collection, while others use digital open access collection to serve their user. This article focused on open access collection that can be used as learning resource.

Open access is a revolutionary free access to the authorized work without any financial and licensing restriction (Suber, 2019). According to that definition, open learning resource is a learning resource that can be accessed



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open and free without any financial and licensing restriction. The growth of open access literature as open learning resource predict will dominate the closed access literature (Arougheti, 2016). Morrison said that open access has been growth dramatically in 2020 (Morrison, 2013).

The rapid growth of open access literature that said above needs a good ability to find it. Many researchers, student, or teacher use search engine to find literature on the web. Today search engine, like google, has indexed billions web pages (Spasser, 2004). It is important to arrange a webliography that contains information about any resources that can be accessed for learning resource as scientific communication.

Webliography can be list through several stages. First stage is searching any relevance resource to find, evaluate, and deciding the resources (Yang, 2008). After determining the resource, it will be listed in certain format. The purpose of this webliography is to provide and describe the various link and materials that are being used for learning resource and scientific communication by researcher, teacher, and student. This article is to present selected list of learning resource that ready to use. All of the learning resource that describe is open access, so it can freely access by people.

B. MATERIALS AND METHODS

This is basic qualitative research. The type of this research is case study. Researchers collect the data by browsing the open access websites that contain the open learning resource and ensure that the learning resource can be accessed. The results are presented in

descriptive qualitative. It is arranged alphabetically as follows:

1. Category. It contains of the category of open learning resource, such as book, journal article, repository, etc.
2. Title of open learning resources. It contains the site title that listed on the website.
3. Address. It contains the site address.
4. Annotation. It contains information about the website, such as source and file types, how to access, and other information that useful for the readers.
5. Selected Webliographies

C. RESULT AND DISCUSSION

1. Book

Rumah Belajar: Belajar untuk Semua
(<https://bse.belajar.kemdikbud.go.id>)

Rumah Belajar (learning house) is a site that launched by Ministry of Education and Culture of Indonesia. It contains of Indonesian electronic book for school. This site provides learning resources for teacher and student to get learning books for free. It is categorized into teacher and student book. There are many books that provide for the various levels of education, such as PAUD (kindergarten), primary school, junior high school, senior high school, and vocational high school. People can download and save to computers easily in pdf format.

Directory of Open Access Books
(<https://www.doabooks.org/>)

Directory of open access books (DOABOOKS) is s site that indexes

electronic books from various trusted open access books publisher. It contains the electronic books that can be accessed freely. Today, until this article was created, more than 40000 books can be access openly through this site. It provides in various subject, language, and publisher. People can find open access book by using the search menu or browsing by subject, language, or publisher.

OAPEN: Open Access Publishing in European Networks
(<https://oapen.org/>)

Open Access Publishing in European Networks (OAPEN) is the site that indexes an electronic open book, especially that published in Europe. This site is under OAPEN Foundation, a non-profit organization based in Netherlands. Over than 6000 electronic books can be accessed through this site. Researcher, teacher, or student can access it by using search menu or browse by subject, publisher, language, and collection.

OpenEdition: Digital Resources in The Humanities and Social Sciences
(<https://www.openedition.org/?lang=en/>)

OpenEdition is the site that contain the open access digital resources in humanities and social sciences. The various open digital resources, such as book and journal, can be accessed through this site. Default language of this site is Français, but people can choose other language, such as English, to change the site language.

IntechOpen
(<https://www.intechopen.com/>)

IntechOpen is one of the publishers that publish open access book that based in London. The site of IntechOpen contains all information about this publisher. People also can submit to publish their work or just explore publication through this site. This publisher has published open access book in various subject, such as physical science, engineering and technology, life science, health science, and social science and humanities. They have also determined the topics that are currently waiting for manuscript for publication. People can read the book that has published in html page or download it into pdf format.

2. Journal Article

Moraref: Ministry of Religious Affairs Reference
(<https://moraref.kemenag.go.id>)

Ministry of Religious Affairs Reference (Moraref) is the web portal that contain the indexes of academic journal. It launched by Ministry of Religious Affairs of Indonesia. This site contains the registered journal that published by an institution under the Ministry of Religious Affairs of Indonesia. People can access the various subject of article, especially in religious studies. They also can access other subject that may be publish by universities or other institution under this ministry. The search menu can be used to find the article or journal, while article/journal browse menu can also provide it. Through this site, it is hoping the scientific journal under religious science and other related topics can disseminated easily.

Sinta Indonesia: Science and Technology Index

(<https://sinta.ristekbrin.go.id/journals/>)

Science and Technology Index (Sinta Indonesia) is a portal index that launched under the Ministry of Research and Technology/National Agency for Research and Innovation of Indonesia. This site offers an easy access to the various information about scientific resource by Indonesian researcher, such as books, journal, intellectual property right (IPR), research report, and community service report. Only accredited journals that indexes by Sinta Indonesia. People can choose the source menu to browse the journals that indexes by Sinta Indonesia. They also can search the journal in search column using issn, journal title, publisher, city, subject, or combine it all as the keyword.

Garuda: Garba Rujukan Digital (<https://garuda.ristekbrin.go.id/>)

Like Sinta Indonesia, Garba Rujukan Digital/digital reference chart (Garuda) is a portal that that launched under the Ministry of Research and Technology/National Agency for Research and Innovation of Indonesia. It contains an indexes journal that publish in Indonesia. It is slightly different from Moraref and Sinta Indonesia. Moraref only indexes the journal that published under institution in Ministry of Religious Affairs of Indonesia, while Sinta Indonesia only indexes the accredited journals. Garuda indexes all journal that published from various institutions, both from Ministry of Religious Affairs or other ministry, such as universities, private institutions, associations, and the others.

DOAJ: The Directory of Open Access Journals (<https://doaj.org/>)

The Directory of Open Access Journals (DOAJ) is the websites that indexes registered open access journal from around the world. Today, there are more that 16000 journal that indexes by DOAJ. It came from the various institution and various country. People can search journals or articles through search menu. They can read abstract and click 'read online' to find full text article.

3. Repository

Neliti: Indonesia's Research Repository (<https://www.neliti.com/>)

Neliti is research repository that produces by Indonesian researchers. This site provides an indexes journal article, research report, conference paper, books, policy paper, and dataset from various institution, such as government bodies, private institutions, universities, and others. As a repository, people can find the various scientific resources through searching column in the homepage.

Rama Repository (<https://rama.ristekbrin.go.id/>)

Rama Repository is research repository that launch by Ministry of Research and Technology/National Agency for Research and Innovation of Indonesia. It indexes the registered repository from various institution in Indonesia. This site contains any research report, such as final project, thesis, dissertation, student project, and other research report that my provide by lecturer or researcher (exclude article journal, conference, and books). People can use the search column to find and

access that resources through this site.

OpenDoar: Directory of Open Access Repository
(<https://v2.sherpa.ac.uk/opensoar/>)

Directory of Open Access Repository (OpenDoar) is a global directory of open access repository. It contains the various registered repository from around the world. Any open access resources can be found through repositories that indexes in OpenDoar, such as thesis, dissertation, article, book, and others. People can find the repository by using search column or browse it by country.

4. Others

In addition, the author believes that there are many other open learning resources that can be accessed by researchers, teachers, and students, below are some of them.

TABLE I.
OTHER OPEN LEARNING
RESOURCES (Harliansyah, 2016; Patra, 2013)

No	Title	Address
1	Core Base: Biefield	https://core.ac.uk/
2	Academic Search Engine	https://www.base-search.net/
3	Dart-Europe	https://www.dart-europe.eu/basic-search.php/
4	OhioLink Electronic Theses and Dissertations (ETD) Center	https://etd.ohiolink.edu/apexprod/rws_ohiolink/r/1501/1/

No	Title	Address
5	Open Access Theses and Dissertations	https://oatd.org/
6	NDLTD	http://search.ndltd.org/
7	PubMed	https://pubmed.ncbi.nlm.nih.gov/
8	BMC, research in progress	https://www.biomedcentral.com/
9	PLOS	https://plos.org/
10	RePEc	http://www.repec.org/
11	Dash: Digital Access to Scholarship at Harvard	https://dash.harvard.edu/
12	Cogprints	http://cogprints.org/
13	CiteSeerX	http://citeseerx.ist.psu.edu/index/
14	OAIster	https://oaister.worldcat.org
15	ROAR: Registry of Open Access Repository	http://roar.eprints.org/
16	ROARMAP: Registry of Open Access Repository Mandates and Policy	https://roarmap.eprints.org/
17	OpenAIRE	https://www.openaire.eu/

D. CONCLUSION

Professionals (researcher, teacher, or student) need access to various open learning resources quickly. Through webliography, they find volume of the resource that ready to access faster. This selected webliography for open learning resource as scientific communication is intended to facilitate them to find the web-based learning resource. It is important to understand that the digital resource is extremely growth. The resource can come and go, depending on who is charged to maintain them. The authors cannot guarantee that the site is always accessible.

This section is not mandatory but can be added to the manuscript if the discussion is unusually long or complex.

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