



TITLE:

Citation Advantages of Green Open Access Articles: A Case Study at Kyoto University

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CITATION:

Nishioka, Chifumi. Citation Advantages of Green Open Access Articles: A Case Study at Kyoto University. Open Science Fair 2021 (OSFair2021) 2021

ISSUE DATE:

2021-09-21

URL:

<http://hdl.handle.net/2433/265506>

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Citation Advantages of Green Open Access Articles: A Case Study at Kyoto University

Chifumi Nishioka, Kyoto University Library

The 3rd Open Science Fair Conference
September 21, 2021



京都大学
KYOTO UNIVERSITY



Kyoto University Open Access Policy

Kyoto University Open Access (OA) Policy (2015)

(Objective)

To assure open access to published products of Kyoto University faculty research to **further research and public accountability.**

(Access Rights)

Kyoto University Research Information Repository (hereafter “Repository”) shall provide open public access to Kyoto University faculty research published in journal articles without acquiring copyright.

(Waiver)

Kyoto University exempts research requesting copyright or similar protection.

(Non-retroactive)

This policy exempts research published prior to its implementation or contractually conflicting with it.

(Electronic Data Submission)

The Repository shall **disclose published versions of research whenever permitted. If a publisher prohibits open access to the published version but allows open access to final prepublication manuscripts, researchers should submit their final prepublication manuscripts to the Repository.** Deposit, release, subsequent use, and all other issues related to the Repository shall be implemented in accordance with Kyoto University Research Information Repository Operational Guidelines.

(Others)

Open access issues unstated in this policy shall be negotiated by the parties concerned.

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Open access issues

mandate faculty members to make their scholarly articles public on the institutional repository, Kyoto University Research Information Repository (KURENAI)

KURENAI, an Institutional Repository

The screenshot shows the KURENAI website interface. At the top, there is a navigation bar with links for Home, Browse, Most Used Items, Access Statistics, Kyoto University, and Library. Below this is the KURENAI logo and the text 'Kyoto University Research Information Repository'. A main text block describes the repository's content and provides statistics: over 200,000 articles, 295 journals, and over 8,180,000 full-text downloads in AY2020. A list of recent news items follows. A callout box titled 'Figures' lists: DSpace 5.6.0; 216,738 records (203,972 full-texts) as of August 31, 2021; 5th in TRANSPARENT RANKING: Institutional Repositories by Google Scholar (August 2021 Edition); and 4,467,977 downloads in 2020. Another callout box titled 'Resources available on KURENAI' lists: Scholarly articles to implement Green OA; Bulletins and research records; Dissertations and theses; Educational materials; Research data; and an ellipsis. At the bottom, a table lists various communities with their respective record counts, and a footer contains the URL 'https://repository.kulib.kyoto-u.ac.jp/dspace/?locale=en' and a logo for '京大新刊情報ポータル'.

Home Browse ▾ Most Used Items Access Statistics Kyoto University Library

京都大学学術情報リポジトリ
KURENAI 紅
Kyoto University Research Information Repository

Kyoto University Research Information Repository

Kyoto University Research Information Repository (KURENAI) contains peer-reviewed journal articles, bulletin papers and any kind of scholarly works of Kyoto University.

* over 200,000 Articles (2021.3) / 295 Journals (2021.3) / over 8,180,000 fulltext downloads (AY2020)

- KURENAI (Kyoto University Research Information Repository) is ranked 5th in the latest "TRANSPARENT RANKING: Institutional Repositories by Google Scholar" (August 2021) (2021/08/31)
- New post on our website: Open access / open science support : Open access to research results (papers and research data), bulletins, and rare materials (2021/04/01)
- "Implementation Policy on Research Data Management and Sharing at the Graduate School of XXX, Kyoto University (sample)" is formulated (2021/03/15)
- "Kyoto University Research Information Repository Operational Guidelines" is revised (2020/07/17)
- Kyoto University has formulated "Kyoto University Policy on Research Data Management and Sharing" (2020/05/22)
- KURENAI Deposit System officially started (2017/04/27)
- Kyoto University has adopted "Kyoto University Open Access Policy" (2015/04/28)

紅 KURENAI @KURENAI
『Zephyr』第33号研究会)を京都大学公開しました (h Akira Moriya 「Us Late Modern Aus hdl.handle.net/24

Communities in KURENAI
Choose a community to browse its collections.

001_Presidents of Kyoto University	129
002_Thesis or Dissertation	11748
003_Reports of Grants-in-Aid for Scientific Research	9517
005_Kyoto University Press	
007_Related Academic Societies	
010_Graduate School of Letters	
020_Graduate School of Education	
030_Graduate School of Law	
040_Graduate School of Economics	
050_Graduate School of Science	

京大新刊情報ポータル
Publications by Kyoto University Researchers
図書館機構 × KURENAI

https://repository.kulib.kyoto-u.ac.jp/dspace/?locale=en

Evaluation of OA Policy

In 2020, five years after adopting the policy, we evaluate outcomes and effects of the OA policy

- Questionnaire to faculty members
 - How well faculty members recognize the OA policy
 - Experiences of faculty members to deposit scholarly articles to KURENAI
- Bibliometric analysis
 - Number of citations
 - Number of citations from other fields
 - Number of downloads

Data Collection and Processing

- Scholarly articles
 - Retrieve scholarly articles from Scopus that meet the criteria:
 1. An article has at least one author belonging to Kyoto University or an institution affiliated with Kyoto University
 2. An article was published between 2010 and 2019
 3. An article has been assigned a Crossref DOI
 4. An article is a journal-article
 - Classify the scholarly articles into two groups:
 - Scholarly articles deposited to KURENAI
 - Non-deposited scholarly articles
- Metrics and data

Metrics	Data
number of citations	COCI (OpenCitations Index of Crossref open DOI-to-DOI citations)
number of citations from other fields	
number of downloads	access logs on KURENAI

Number of Citations

	Deposited articles	Non-deposited articles
all	7.74 (9,950)	6.42 (57,076)
articles not co-authored with foreign researchers	7.12 (6,730)	5.55 (31,082)

* We show the geometric mean citation with respect to each group.

* The numbers in the parentheses are the number of scholarly articles.

- In general, scholarly articles available on KURENAI have been cited more than their counterpart.

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- The difference in the number of citations of articles co-authored with foreign researchers depending availability on KURENAI is smaller than the difference in the number of citations of all articles depending on the availability of KURENAI.
 - ⇒ KURENAI contributes to increasing the number of citations of scholarly articles that are not co-authored with foreign researchers.

Number of Citations from Other Fields

	Deposited articles	Non-deposited articles
citations	7.74 (9,950)	6.42 (57,076)
citations from other fields	3.49 (8,782)	2.79 (49,168)

* We show the geometric mean citation with respect to each group.

* The numbers in the parentheses are the number of scholarly articles.

* We identify fields of scholarly articles using ESI Journal List.

	Deposited articles	Non-deposited articles
percentages of citations from other fields (%)	39.25	33.26

* We show the arithmetic mean of percentages with respect to each group.

- Publications in other fields account for a higher percentage among publications that cite deposited articles, compared to among publications that cite non-deposited articles.
 - ⇒ KURENAI contributes to increasing citations by scholarly articles in different fields and promoting interdisciplinary research.

Number of Downloads

	Number of downloads
all	195.12
gold OA (articles that are also open access on publishers)	157.74
hybrid OA (articles that are also open access on publishers)	166.23
articles available on any repositories (including preprints)	196.51
articles available only on institutional repositories	247.75

- Scholarly articles that are open access only on IRs have been downloaded more frequently than those that are also open access on other platforms (e.g., open access journals and other repositories)
- Recently, as the number of submissions of scholarly outcomes to KURENAI has increased, it takes some time until a deposited article becomes available on the repository.
- It would be helpful to introduce a system that prioritizes publication of scholarly articles that are not open access on any other platforms, when processing submissions.

Take-home Messages and Future Work

- Further analysis is needed
 - Selection bias
- The institutional repository (IR) has contributed to
 - Increasing the number of citations of scholarly articles that are not co-authored with foreign researchers
 - Increasing citations by scholarly articles in different fields
- The IR facilitates dissemination of scholarly outputs to wider communities, fosters interdisciplinary research, and contribute to increasing diversity in scholarship.
- Scholarly articles that are open access only on the repository have been downloaded more frequently
 - Prioritize publication of scholarly articles that are not open access on any platforms, when processing submissions to the IR
 - Need an OA monitoring system

Acknowledgement

- Open Access Committee in Kyoto University Library Network
- Open Access Promotion Project Team in Kyoto University Library Network

Thank you!

