HOKKAIDO UNIVERSITY

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Author(s)	北海道大学北キャンパス図書室
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Afternoon Talk

Impact Factor and Improved Access to Papers

July 2018

Afternoon Talk on
Impact Factor and Improved Access to Papers

■ Impact Factor (Journal Impact Factor : JIF)
- Definition and Calculation Method
- How to find out JIF of a journal
- How to compare journals by JIF

■ Improved Access to Papers
1) Improved Access to the Papers you wrote
- Library services for publishing open access

2) Improved Access to the Papers you refer to
- Useful browser plugins to expedite your access to papers

* I will explain the above based on access to papers from the campus (HINES).

What is Journal Impact Factor (JIF)?

One of the metrics on journals based on citations,
that deals with the journals within “Science Citation Index Expanded”
and “Social Science Citation Index” of Web of Science

- × a metric on papers
- × a metric on researchers
- × a metric on humanities journals

Clarivate Analytics calculates JIF for each year,
and announces its latest version as "update of JCR" in the following June or July.

JIF is displayed in Web of Science (WoS),
and its detailed information is found in Journal Citation Reports (JCR).

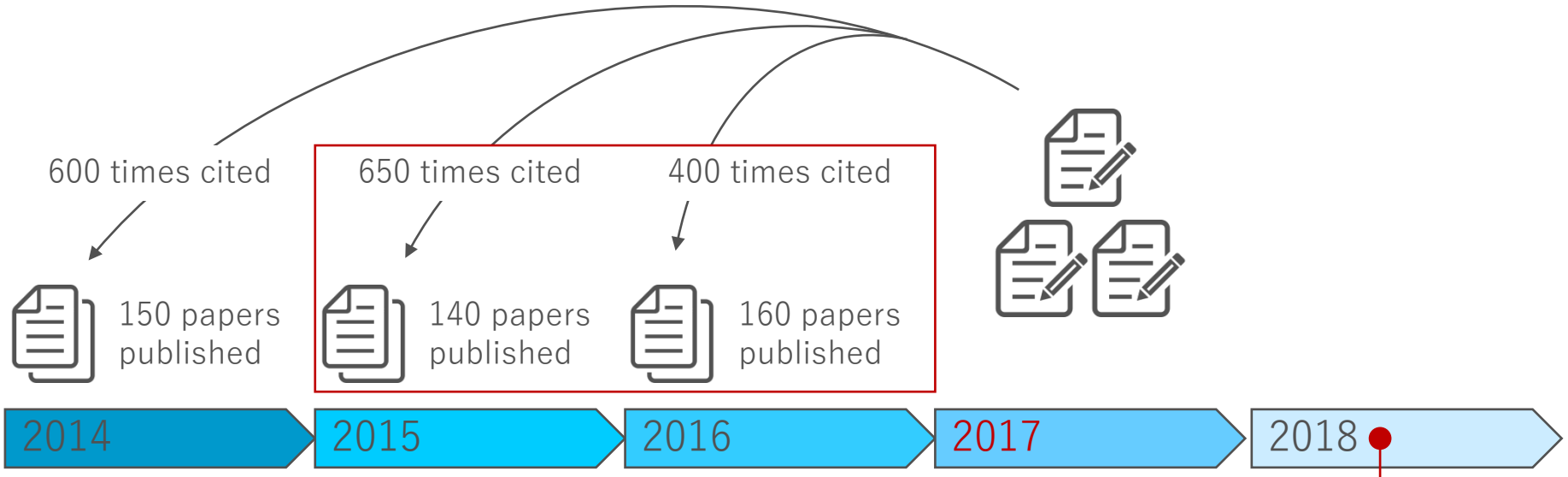
The latest version (2017 JIF : released in June 2018)

- covers 11655 Journals
- classifies journals in 234 research fields
- newly includes citations from books

https://clarivate.com/blog/news/clarivate-analytics-releases-JCR-2018

How to calculate Journal Impact Factor

The Journal Impact Factor of a journal in a certain year is
the average number of the citations
that the papers published in the previous 2 years received in the year.



(650+400)/(140+160)
=1050/300
=3.5 ← this journal's 2017 JIF

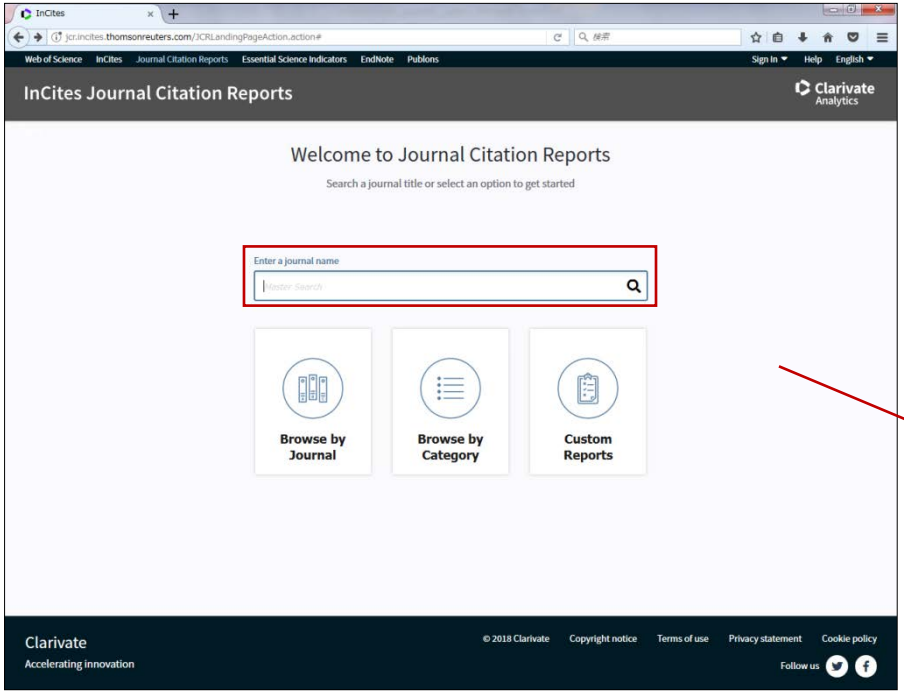
released
in June or July

* JIF is granted after three and a half years since its first issue.

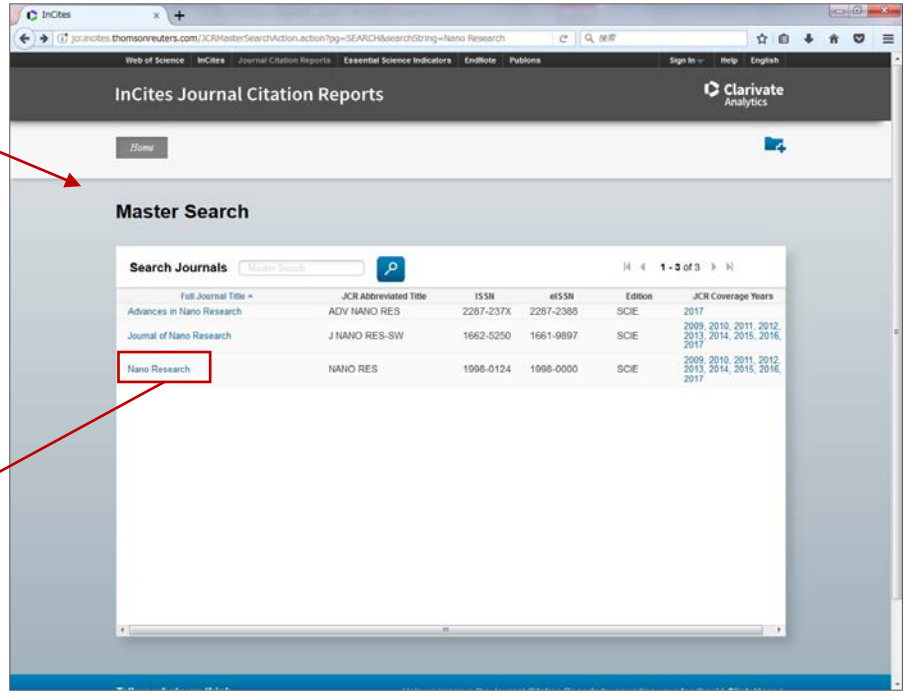
Find out Journal Impact Factor (1)
Directly by JCR (When you have the journal's name to know)

https://jcr.incites.thomsonreuters.com

Search Google with
“journal citation reports”



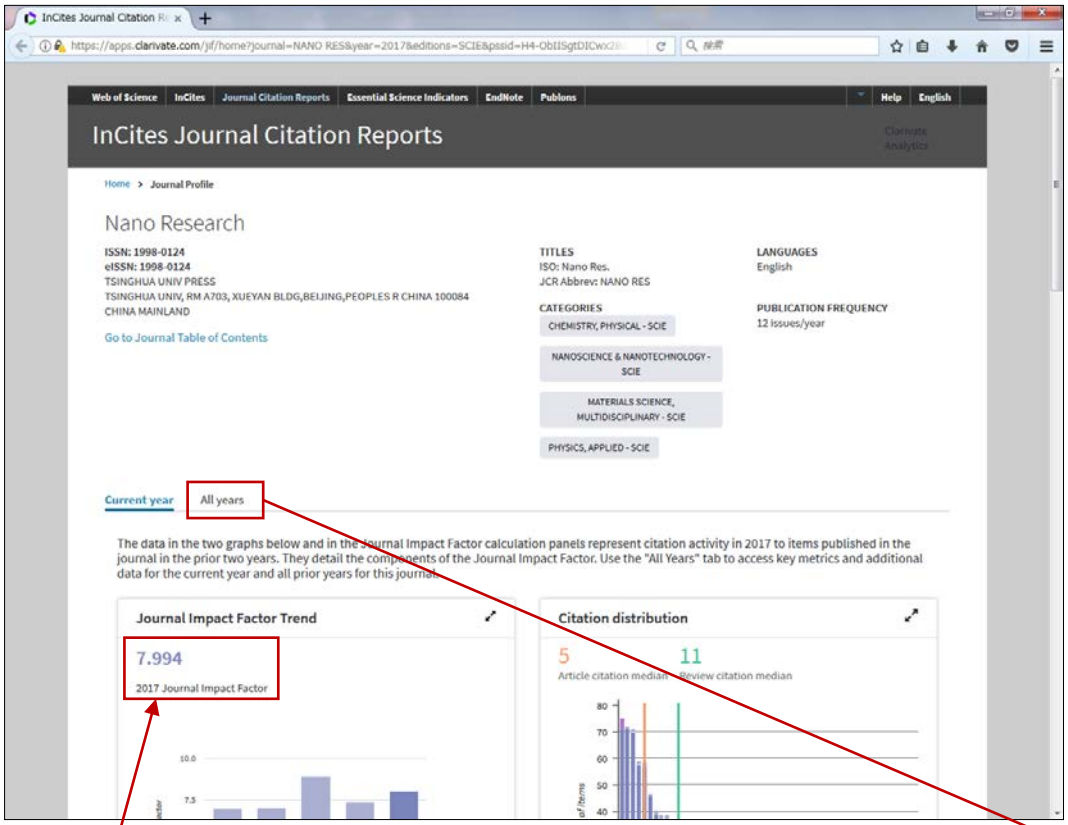
Search by entering journal title or ISSN



To Journal Profile (Current year)

Find out Journal Impact Factor (1)
Directly by JCR (When you have the journal's name to know)

Journal Profile (Current year)

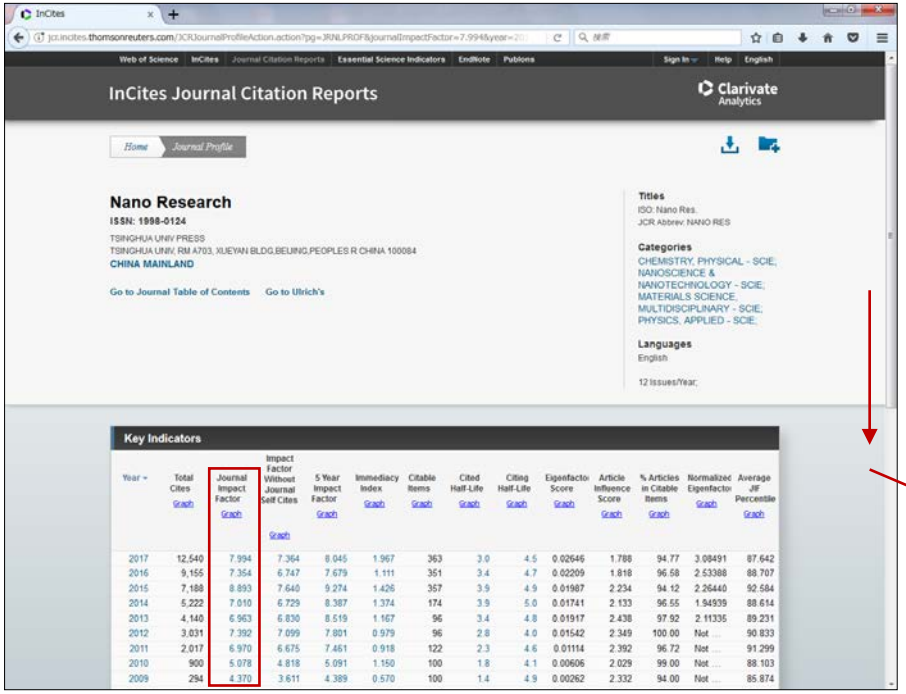


Journal Impact Factor

To Journal Profile (All years)

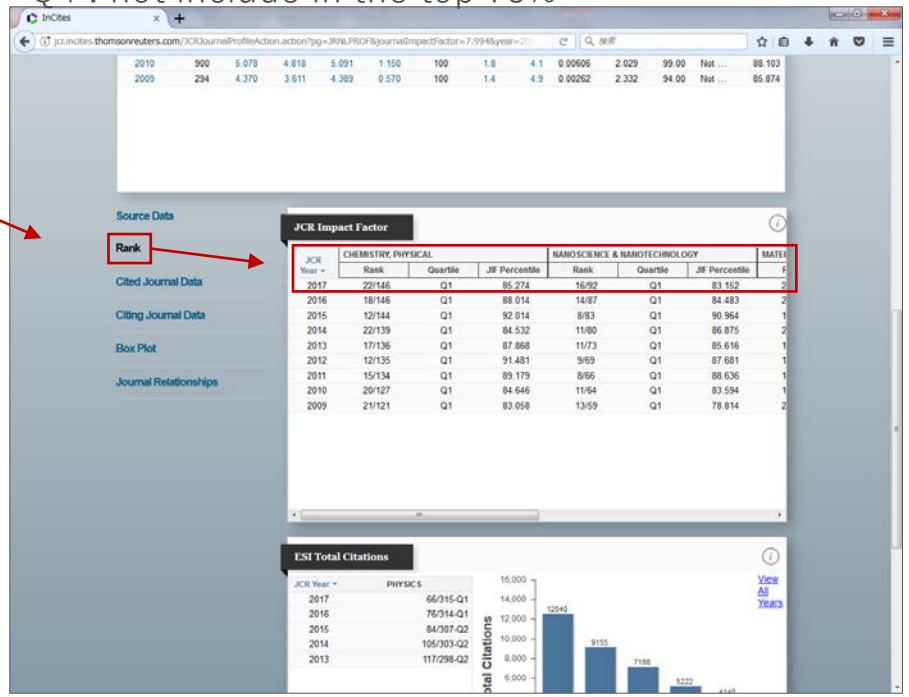
Find out Journal Impact Factor (1)
Directly by JCR (When you have the journal's name to know)

Journal Profile (All years)



This column shows the JIFs of this journal.

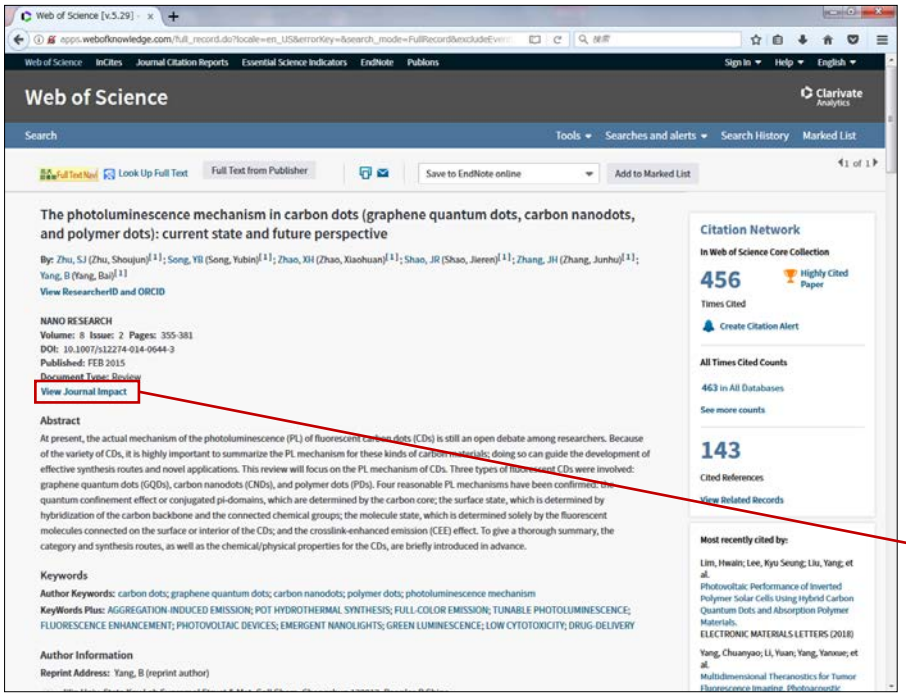
"Rank" shows the position of this journal within the research field(s).
Q1 : in the top 25 %
Q2 : in the top 50 % (not included in the top 25 %)
Q3 : in the top 75 % (not included in the top 50 %)
Q4 : not include in the top 75%



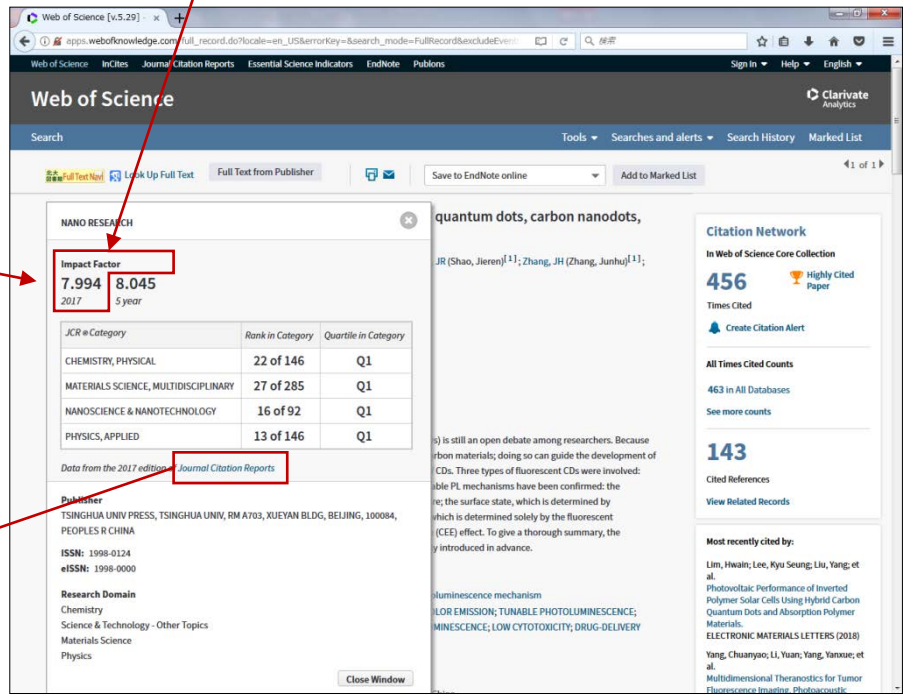
Find out Journal Impact Factor (2)
From the paper that you found in Web of Science

http://webofknowledge.com/WOS

Search Google with “web of science”



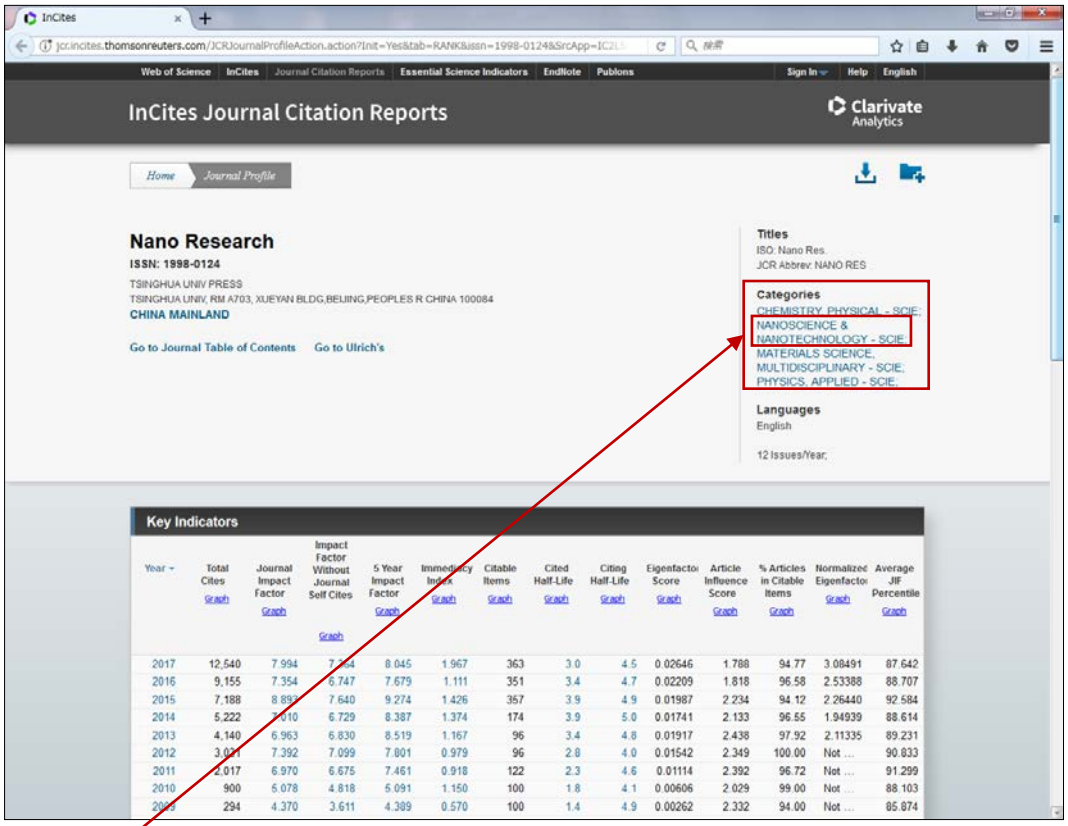
Journal Impact Factor



To Journal Profile (All years)

Compare journals by Journal Impact Factor

Journal Profile (All years)



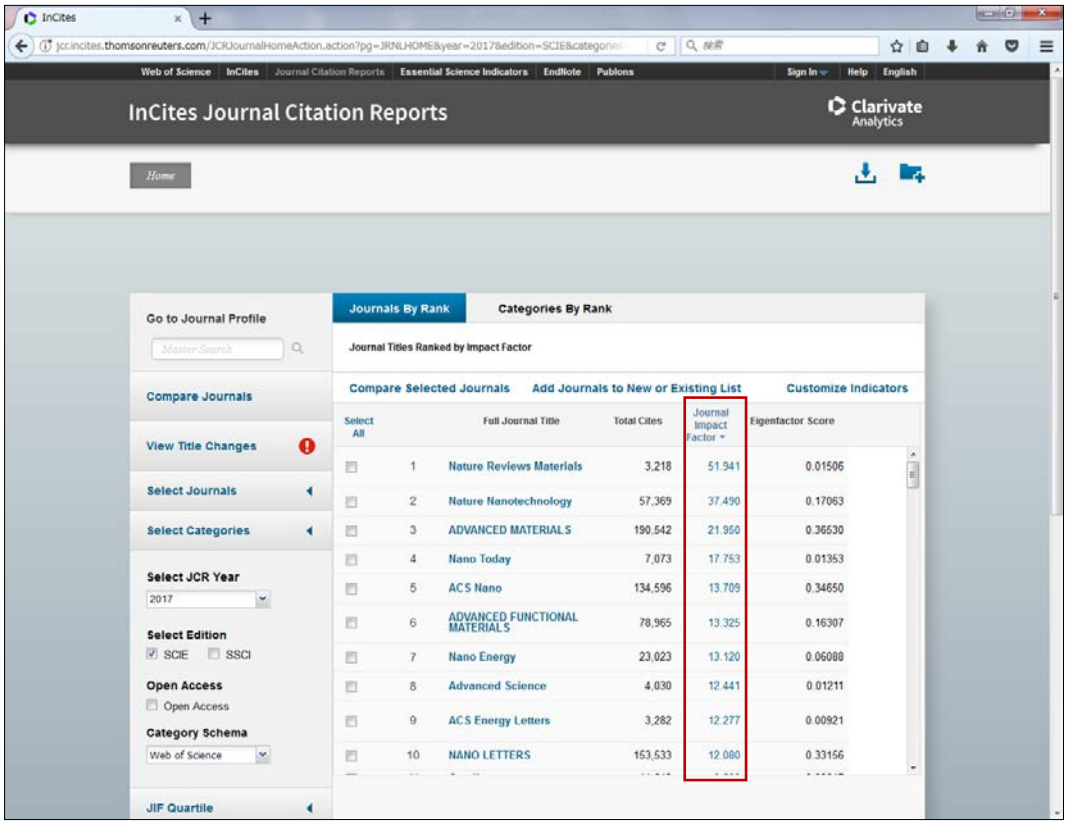
In the latest version (2017 JIF), JCR categorizes journals into 234 research fields.

* There are also journals that are classified into multiple research fields.

When you click on one that matches your research field from "Categories", its ranking will be displayed.

Compare journals by Journal Impact Factor

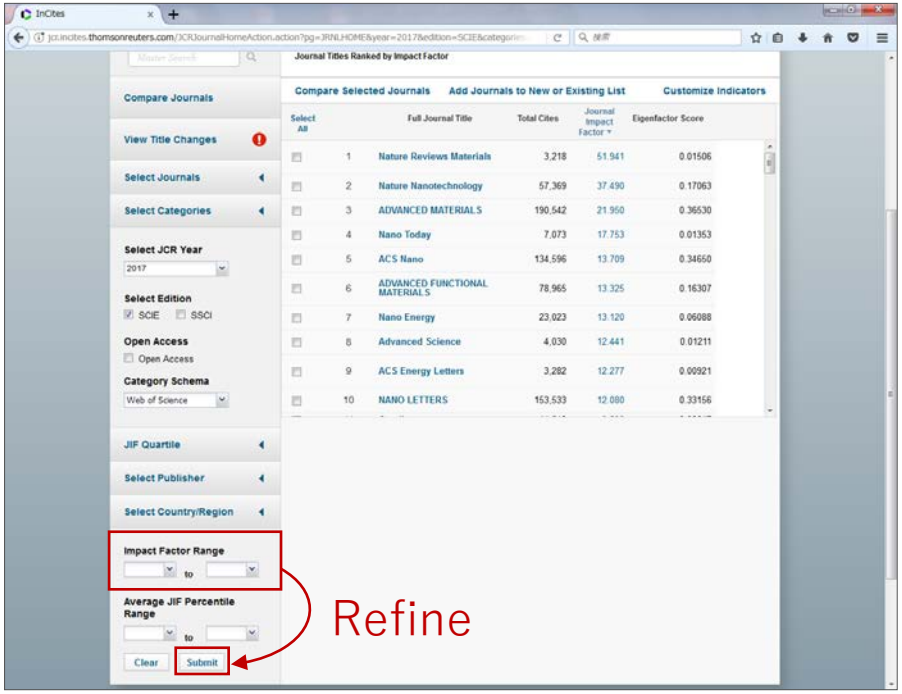
Journals By Rank



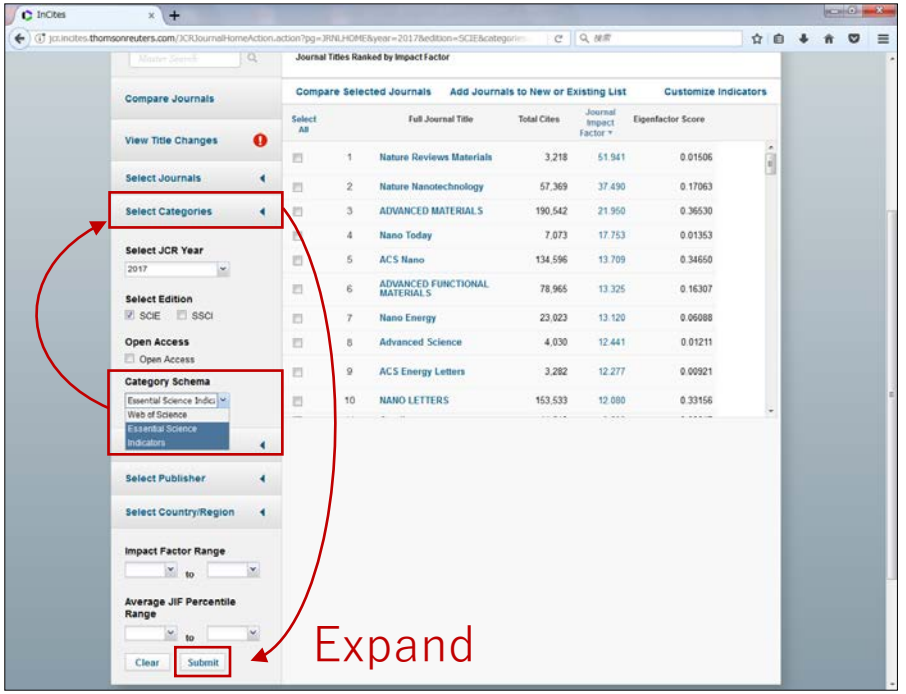
The screen displays the ranking by 2017 JIF
of the journals of "NANOSCIENCE & NANOTECHNOLOGY - SCIE".

Compare journals by Journal Impact Factor

Refine journals by the range of JIFs / Expand them by 22 Research Fields of ESI



To compare in a wider range than the category of JCR, select "Essential Science Indicators" in "Category Schema“ and select one from 22 categories in "Select Categories".

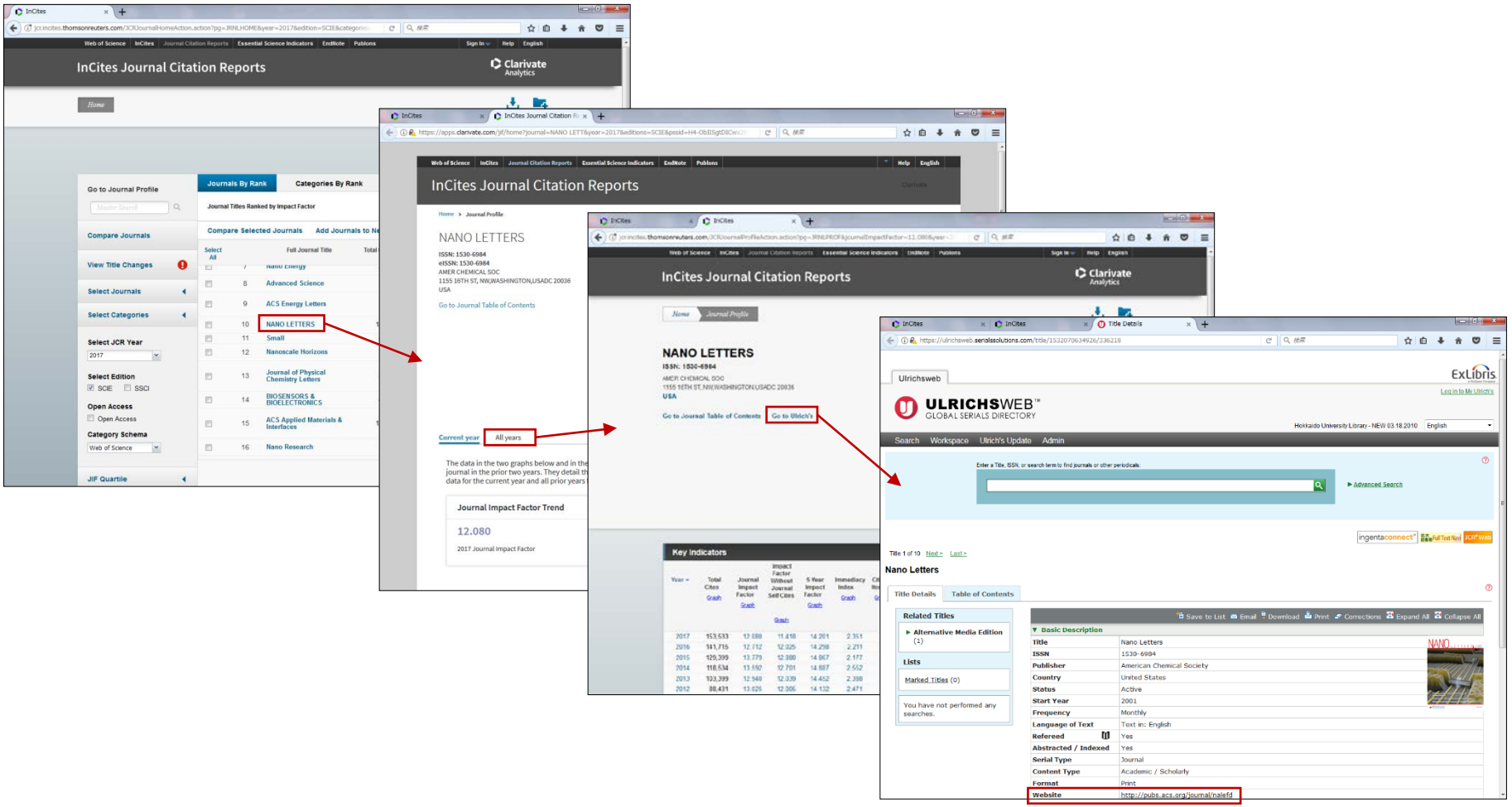


※22 Research Fields of ESI

- AGRICULTURAL SCIENCES
- BIOLOGY & BIOCHEMISTRY
- CHEMISTRY
- CLINICAL MEDICINE
- COMPUTER SCIENCE
- ECONOMICS & BUSINESS
- ENGINEERING
- ENVIRONMENT/ECOLOGY
- GEOSCIENCES
- IMMUNOLOGY
- MATERIALS SCIENCE
- MATHEMATICS
- MICROBIOLOGY
- MOLECULAR BIOLOGY & GENETICS
- MULTIDISCIPLINARY
- NEUROSCIENCE & BEHAVIOR
- PHARMACOLOGY & TOXICOLOGY
- PHYSICS
- PLANT & ANIMAL SCIENCE
- PSYCHIATRY/PSYCHOLOGY
- SOCIAL SCIENCES, GENERAL
- SPACE SCIENCE

When you find an interesting journal in the ranking

You can refer to its detailed information in Ulrichsweb



Improved Access to Papers

1) Improved Access to Papers you wrote
- Making your paper open access (OA) will increase the possibility of citing...

↓

- Library services for publishing open access

2) Improved Access to Papers you refer to
- Conventional way to access to papers may have been complicated?

↓

- Useful browser plugins to expedite your access to papers

Improved Access to Papers you wrote
Support for publishing open access

Many researches and studies support a citation advantage for OA papers.

- The Open Access Citation Advantage Service (OACA)
  46 of 70 researches found a citation advantage for OA papers
  http://sparceurope.org/what-we-do/open-access/sparc-europe-open-access-resources/open-access-citation-advantage-service-oaca/
- Research impact of paywalled versus open access papers
  “OA papers have an indisputable citation advantage”
  http://www.1science.com/1numbr/

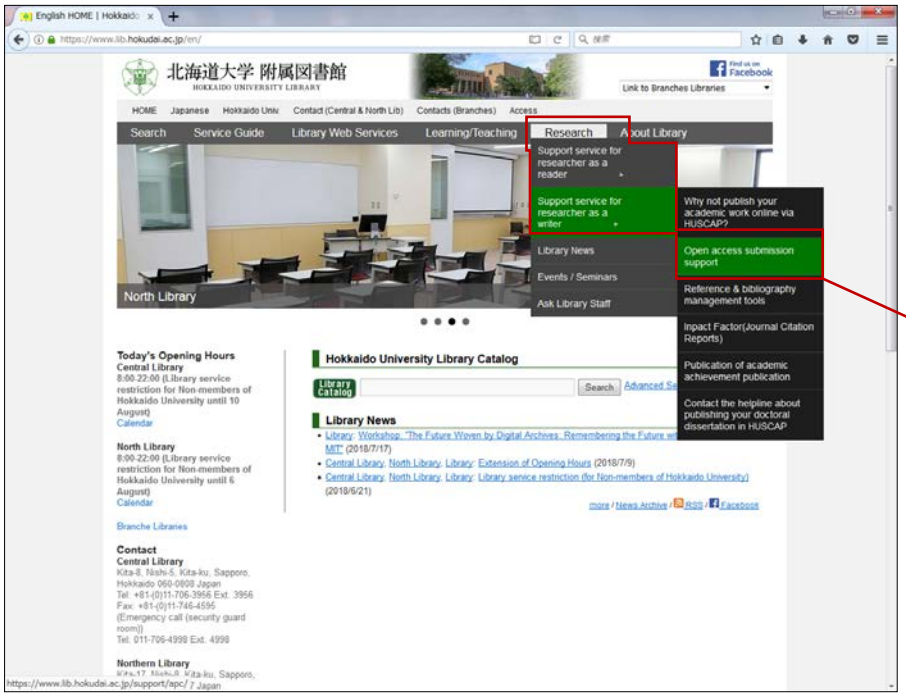
This is a simple idea, but it is difficult to cite papers that are difficult to access...

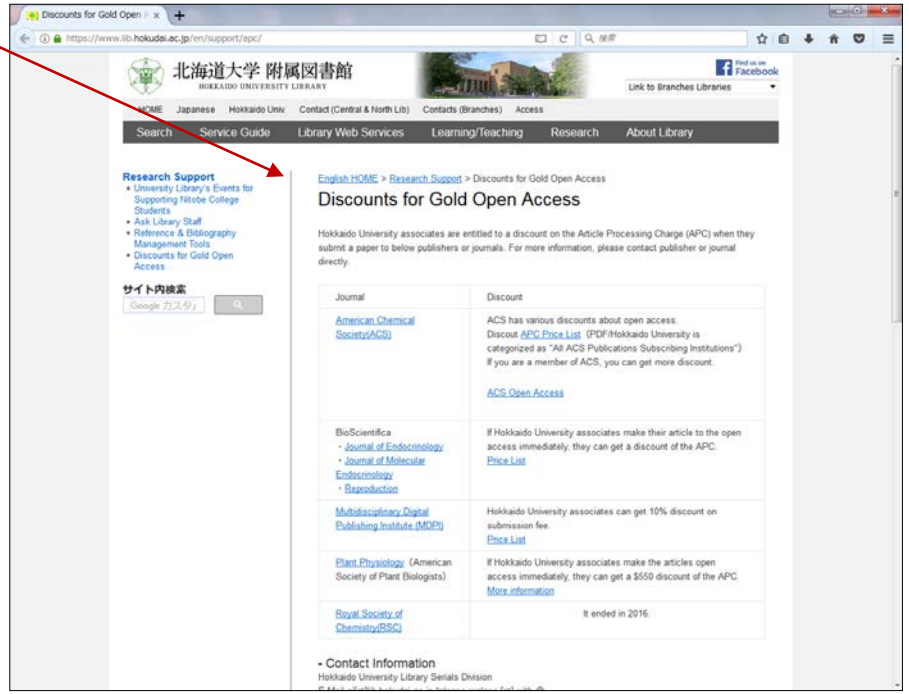
There are 2 ways of publishing OA

- Gold OA
  The author bears the cost for OA (APC) and publishes the paper open access.
- Green OA
  The author publishes
  the manuscript approved by the publisher (usually the author’s final draft)
  after the period set by the publisher (eg. one year after publication).

Gold OA
Information of discounts for Gold OA

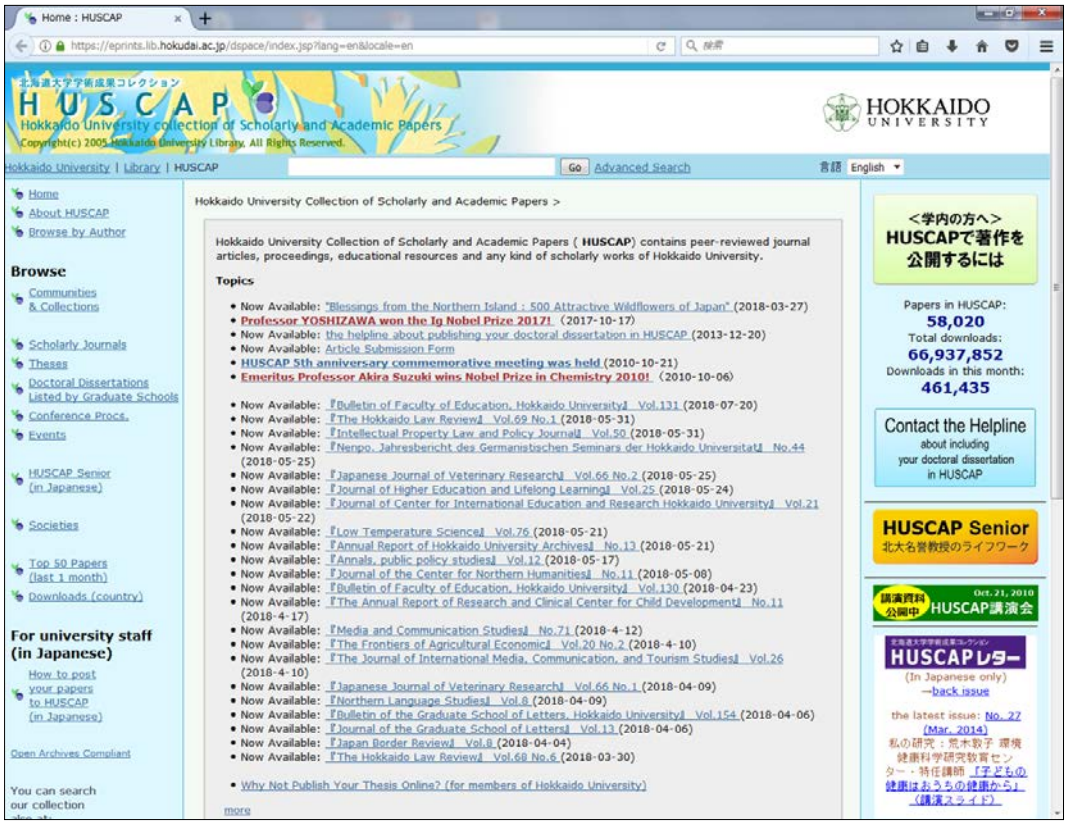
https://www.lib.hokudai.ac.jp/support/apc





Green OA
Self-archive in HUSCAP

https://eprints.lib.hokudai.ac.jp/?locale=en&lang=en



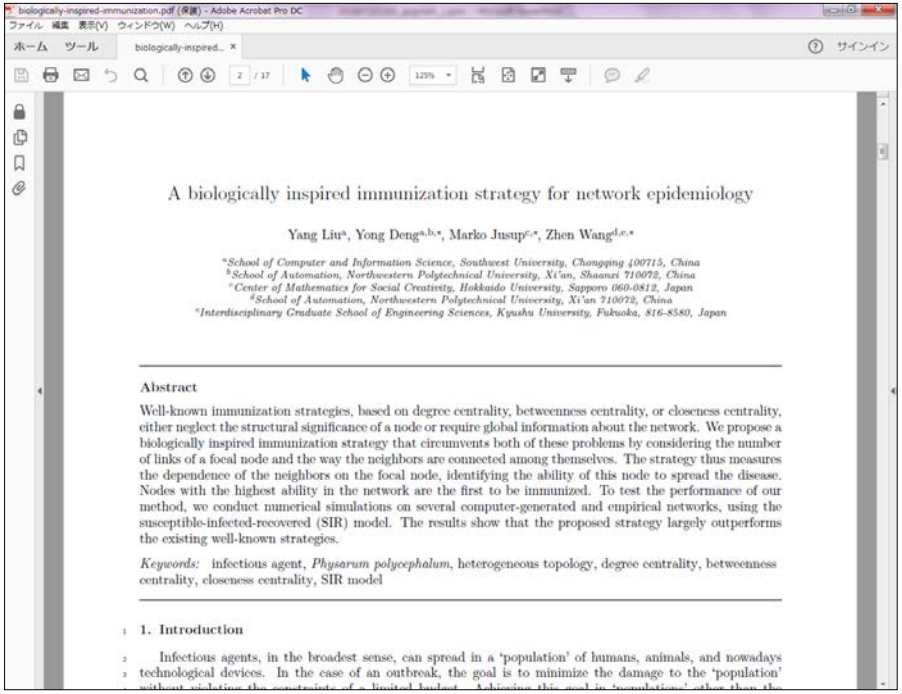
Materials to archive are:
- papers (including conference papers)
- presentations (including posters)
- teaching materials made by researchers and graduate students of Hokkaido University

Key benefits are:
- your papers will be discoverable from Google Scholar (also recently from Web of Science)
- you receive the monthly report on the number of downloads
- your works are stably and persistently archived

Library staff carries out the following archive works:
- confirmation of the publisher's copyright policy
- description of metadata

Green OA
manuscripts which can be posted in HUSCAP

○ accepted manuscript



A biologically inspired immunization strategy for network epidemiology

Yang Liu[a], Yong Deng[a,b,*], Marko Jusup[c,*], Zhen Wang[d,e,*]

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[e]Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Fukuoka, 816-8580, Japan

Abstract

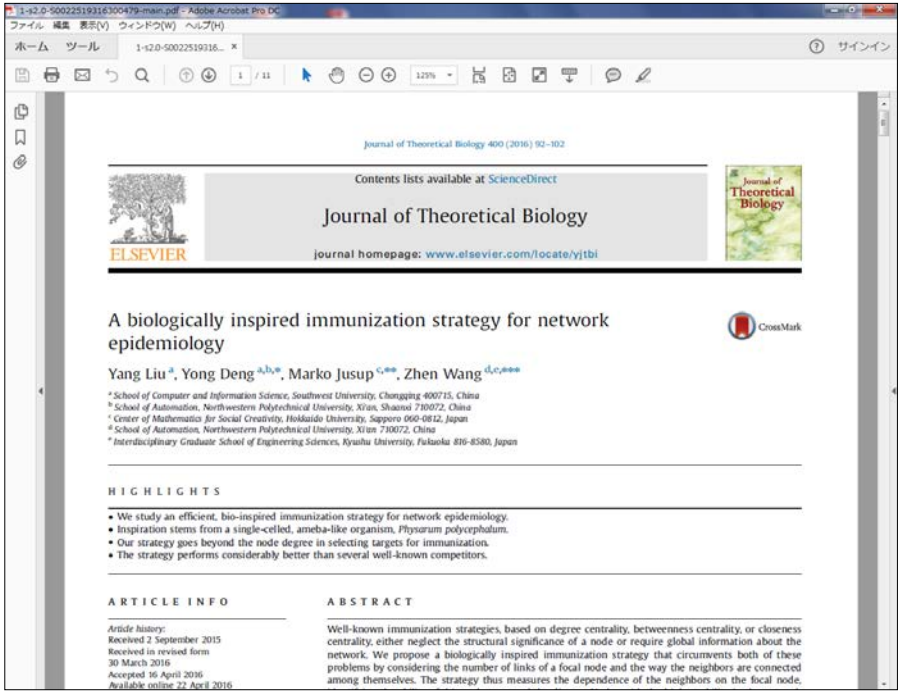
Well-known immunization strategies, based on degree centrality, betweenness centrality, or closeness centrality, either neglect the structural significance of a node or require global information about the network. We propose a biologically inspired immunization strategy that circumvents both of these problems by considering the number of links of a focal node and the way the neighbors are connected among themselves. The strategy thus measures the dependence of the neighbors on the focal node, identifying the ability of this node to spread the disease. Nodes with the highest ability in the network are the first to be immunized. To test the performance of our method, we conduct numerical simulations on several computer-generated and empirical networks, using the susceptible-infected-recovered (SIR) model. The results show that the proposed strategy largely outperforms the existing well-known strategies.

Keywords: infectious agent, *Physarum polycephalum*, heterogeneous topology, degree centrality, betweenness centrality, closeness centrality, SIR model

1. Introduction

Infectious agents, in the broadest sense, can spread in a 'population' of humans, animals, and nowadays technological devices. In the case of an outbreak, the goal is to minimize the damage to the 'population'

× publisher's version



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Contents lists available at ScienceDirect

Journal of Theoretical Biology

journal homepage: www.elsevier.com/locate/yjtbi

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[e] Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Fukuoka 816-8580, Japan

HIGHLIGHTS

- We study an efficient, bio-inspired immunization strategy for network epidemiology.
- Inspiration stems from a single-celled, ameba-like organism, *Physarum polycephalum*.
- Our strategy goes beyond the node degree in selecting targets for immunization.
- The strategy performs considerably better than several well-known competitors.

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ABSTRACT

Well-known immunization strategies, based on degree centrality, betweenness centrality, or closeness centrality, either neglect the structural significance of a node or require global information about the network. We propose a biologically inspired immunization strategy that circumvents both of these problems by considering the number of links of a focal node and the way the neighbors are connected among themselves. The strategy thus measures the dependence of the neighbors on the focal node,

The manuscript can be archived in the following conditions:

- Word file, not PDF file
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(Library staff arranges the appearance without changing the contents.)

* Some of the academic societies in Japan allow self-archiving of publisher version.

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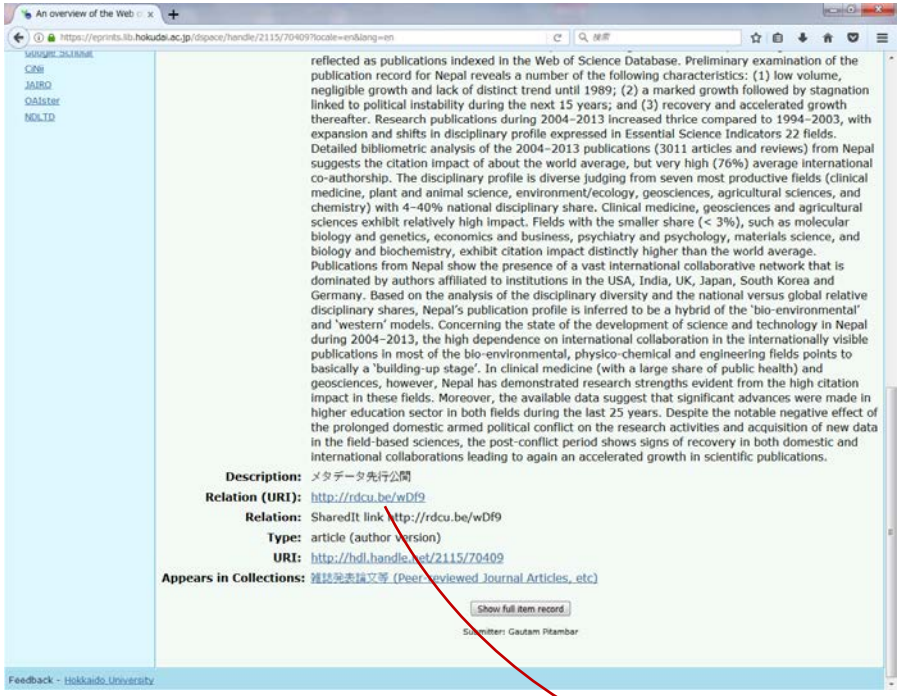

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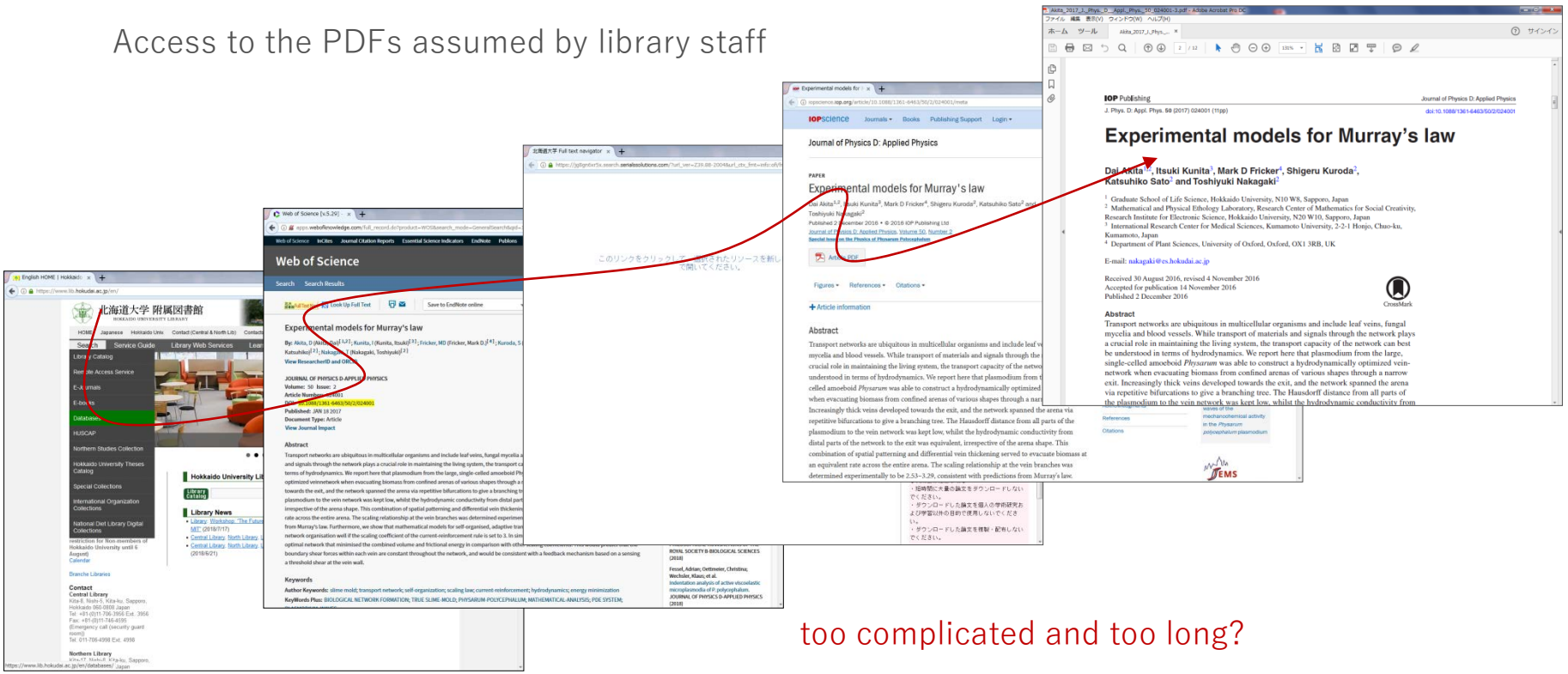
(which can be viewed only)
acknowledged by the publisher such as "SharedIt"
can be open prior to the publication of the
author's final draft.

Improved Access to Papers you refer to
Too many inputs and clicks to access PDFs?

In the case of Utrecht University,
more than 75% of the papers downloaded from Sci-Hub
could have been read legally (subscribed by the university or OA) …
https://im2punt0.wordpress.com/2016/06/20/sci-hub-access-or-convenience-a-utrecht-case-study-part-2/

Access to the PDFs assumed by library staff



too complicated and too long?

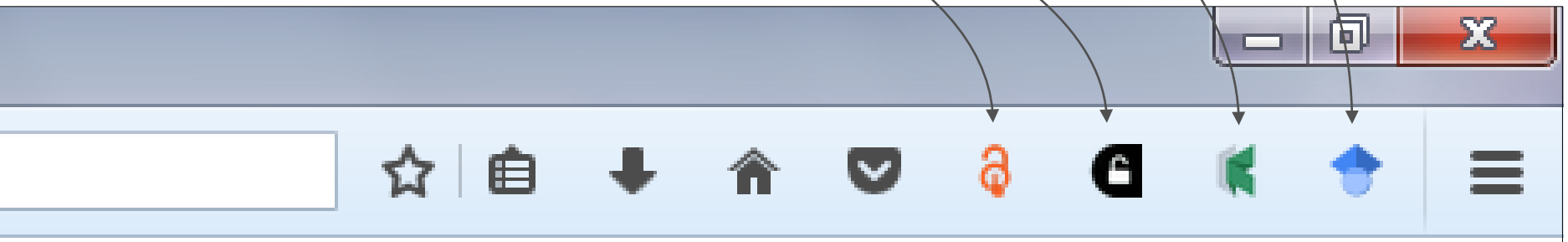
Useful browser plugins to reduce inputs and clicks for access to PDFs

Reduce inputs
- Google Scholar Button

Reduce clicks
- Kopernio

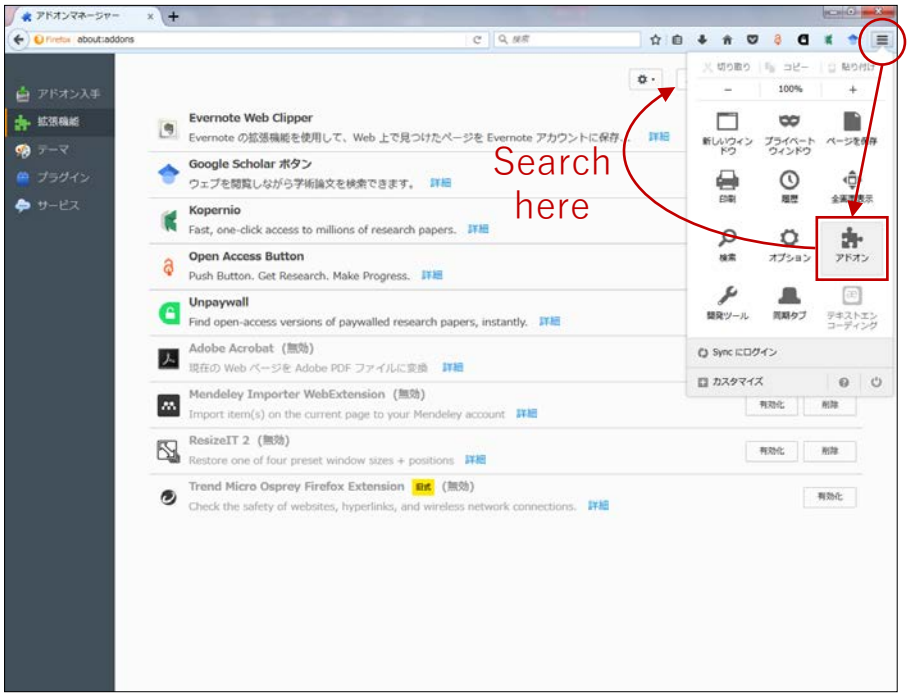
Find the OA version when the university does not subscribe the paper
- Unpaywall
- Open Access Button

* Every plugins does not always work perfectly



Get browser plugins (Firefox / Chrome)

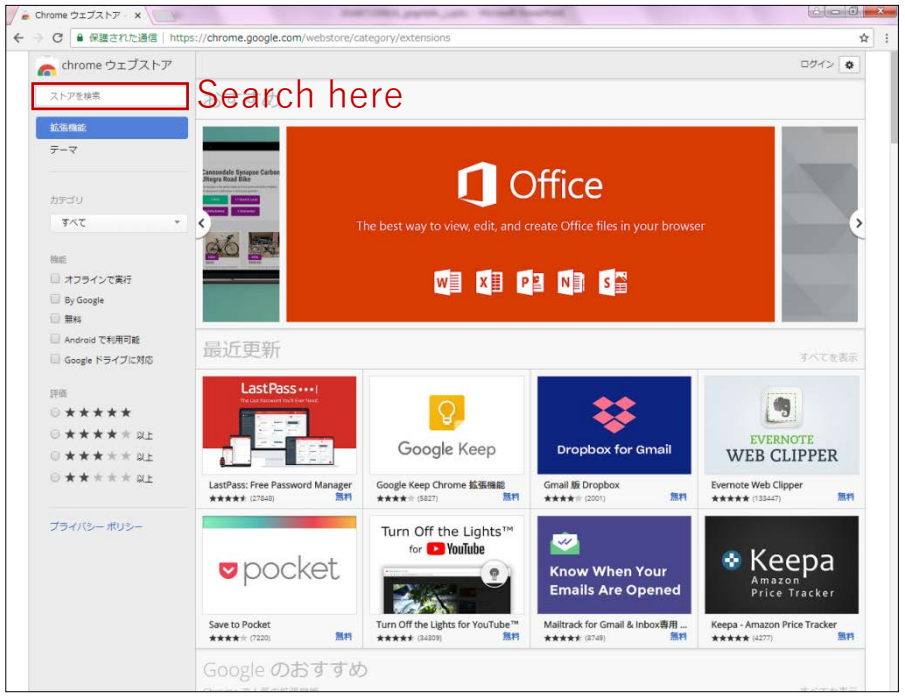
Firefox



From the button at the top right of the browser

* Only Kopernio is added from only its website:
https://kopernio.com

Chrome



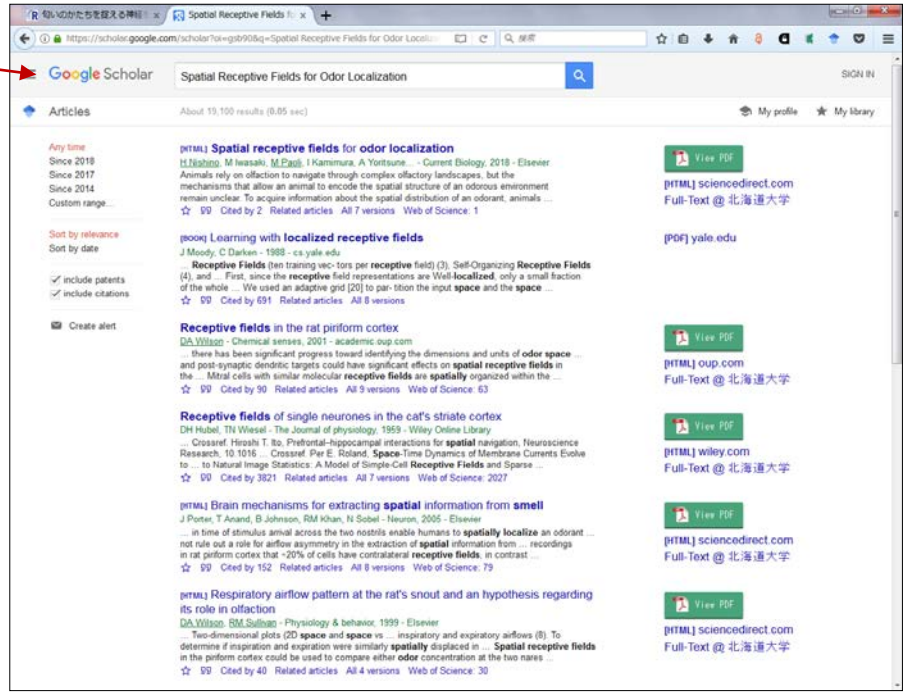
From https://chrome.google.com/webstore

Google Scholar Button <https://scholar.google.com>

From browsing seamlessly to search for papers

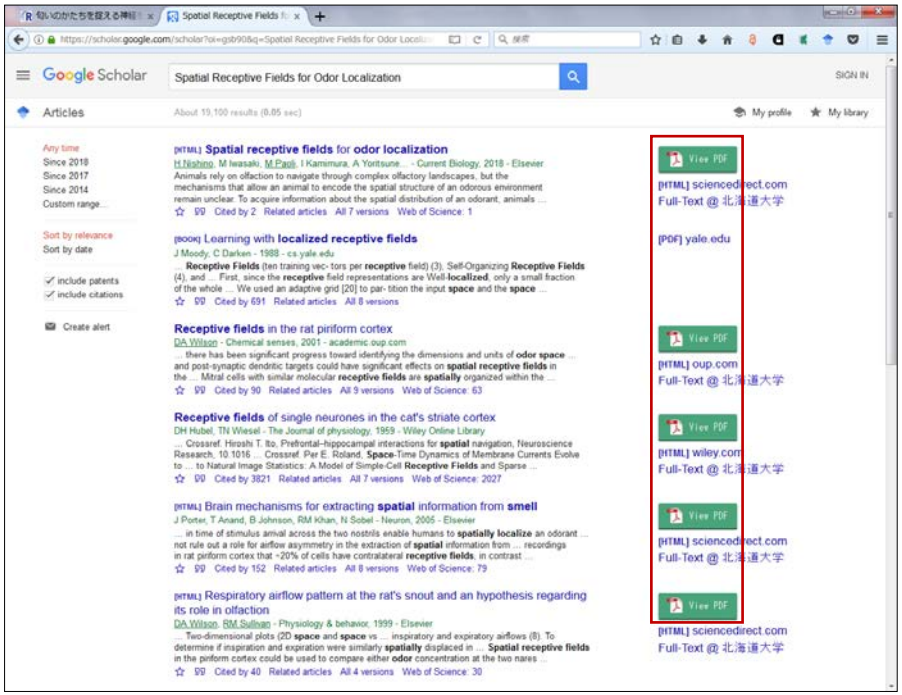
Just select some letters (eg. a title of a paper) and press the button, Google Scholar search begins.

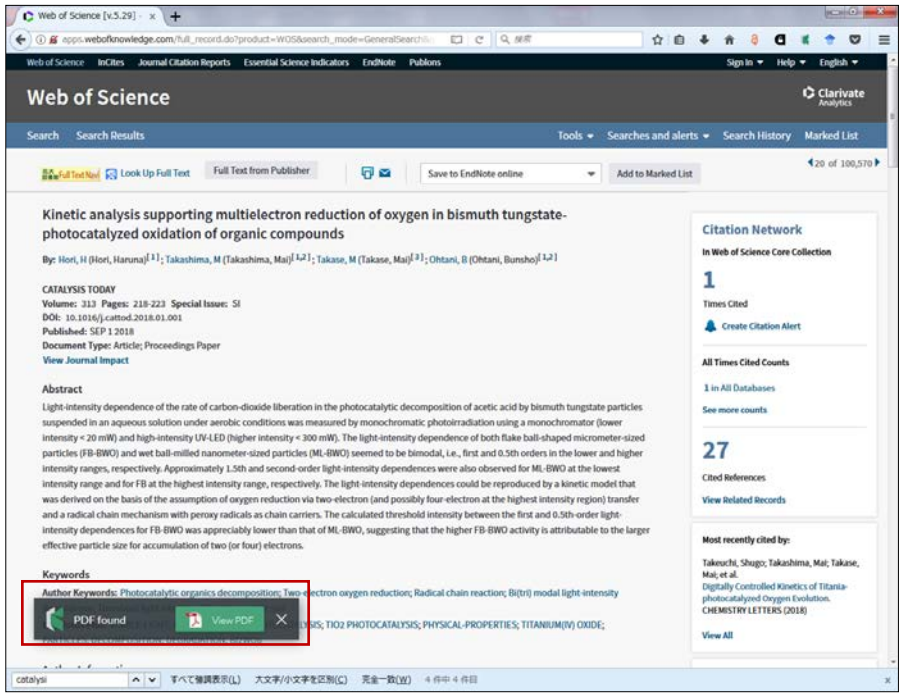
To the paper's website



Kopernio
<https://kopernio.com>

Automatically find the subscribed paper (or OA version) during the paper search





In Google Scholar and PubMed you can see the Kopernio's results on the search result screen.

Although the operation is sometimes unstable yet,
This plugin saves the ID / PW of "Remote Access Service" in the browser,
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if you only set the above ID / PW once.
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Unpaywall <https://unpaywall.org>

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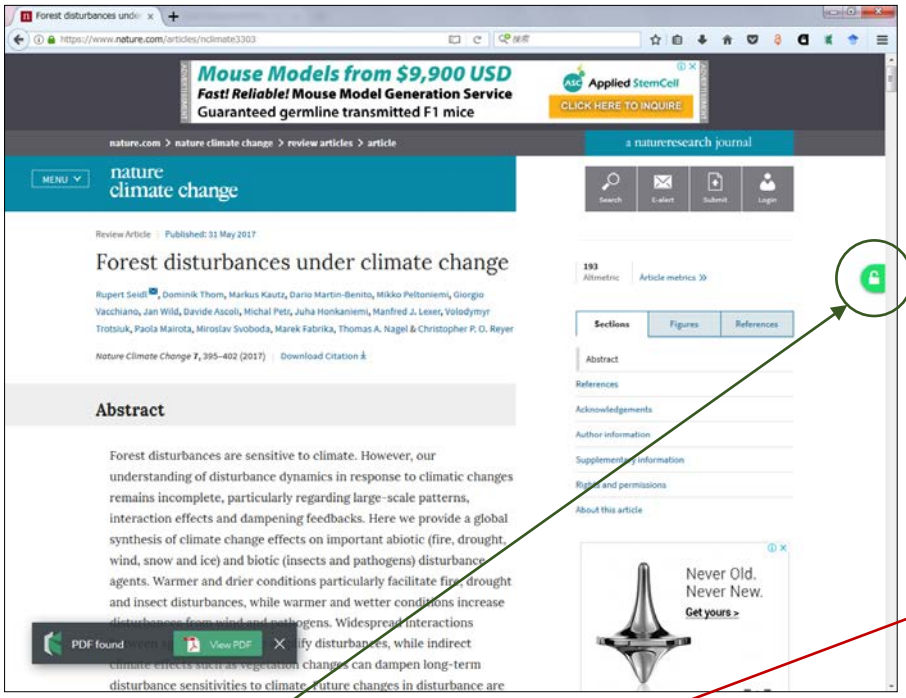

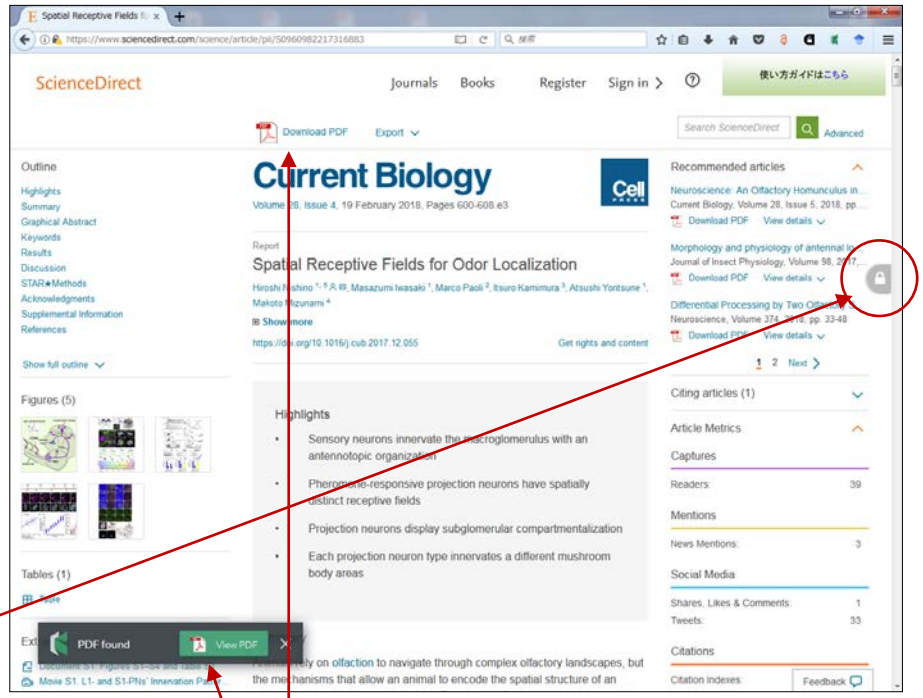

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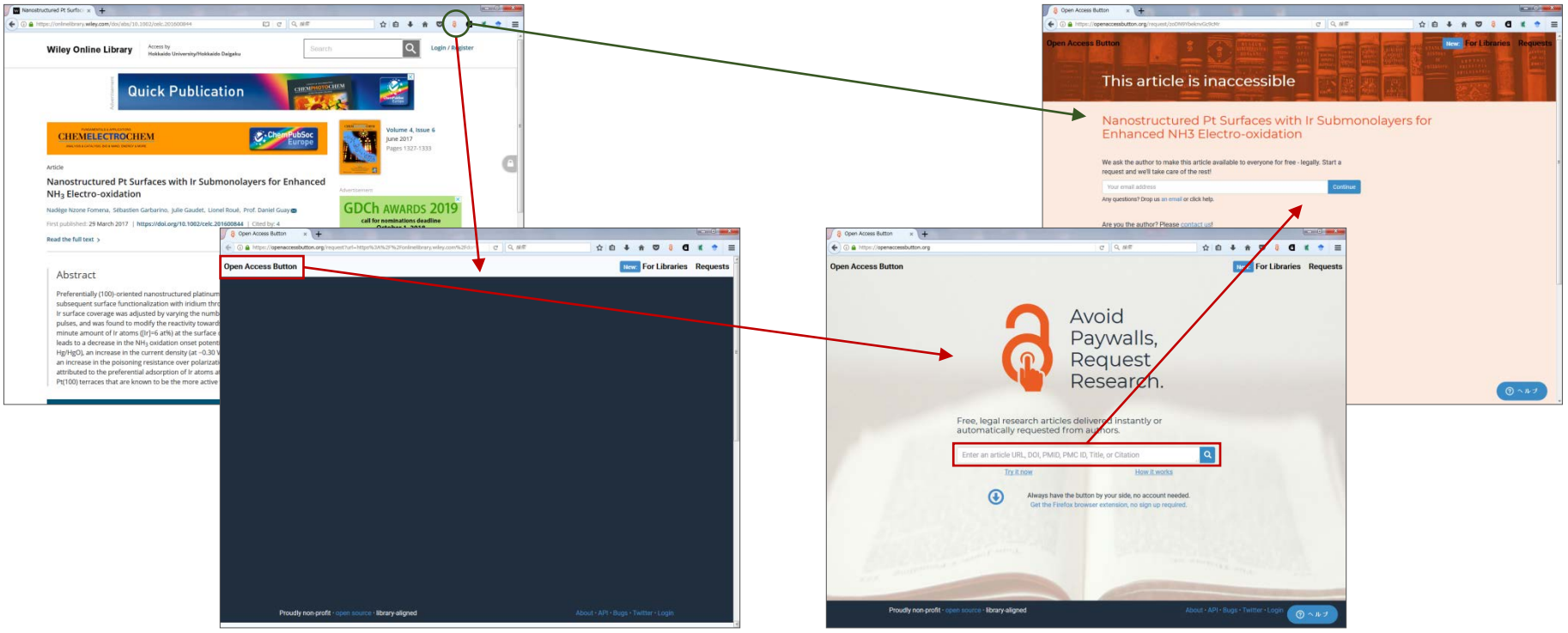
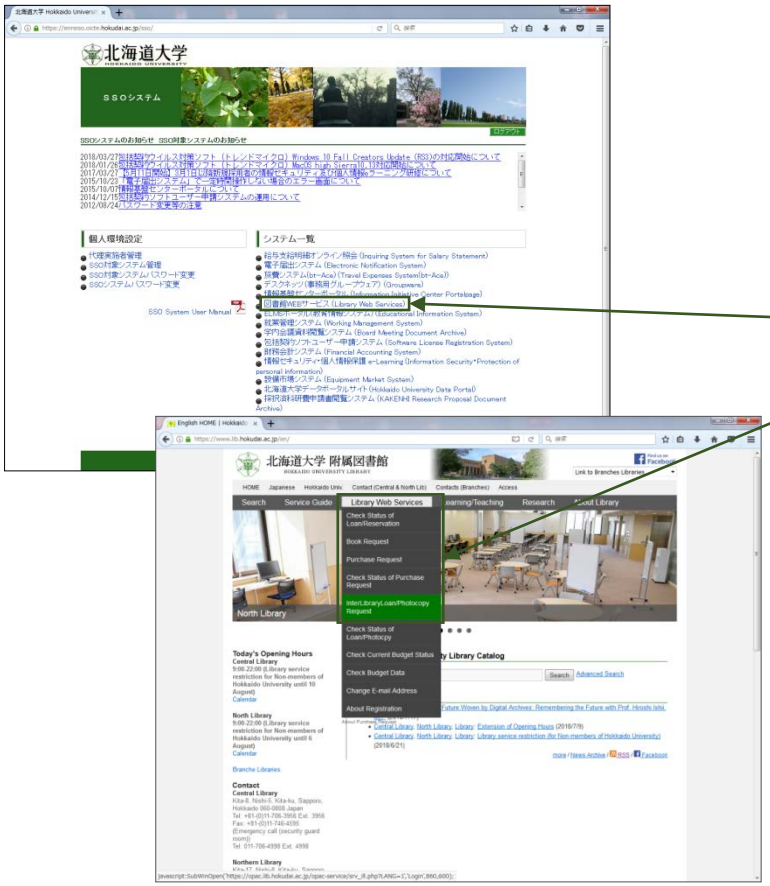
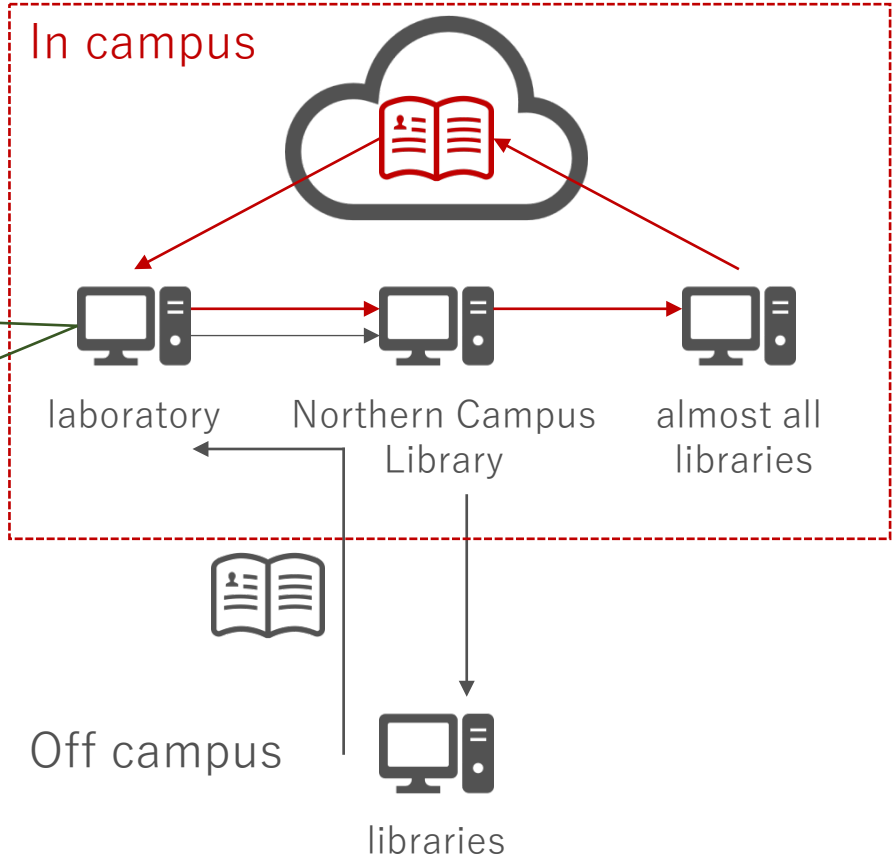


I try to verify that it immediately shifts to the request screen like the green arrow, but it does not work well.
Go to the top page <https://openaccessbutton.org> like the red arrow and enter the DOI etc, and you will switch to the request screen.

Get a photocopy of papers via Northern Campus Library (chargeable)

If you use the public operational expenses (Ippan-Un'ei-Zaigen),
you can get a photocopy of the materials in the university libraries in PDF format (e-DDS).





TRY
LATER
AND
ASK
ME
ANYTIME:

kitacam@lib.hokudai.ac.jp