

Major services of Crossref

Sun Huh

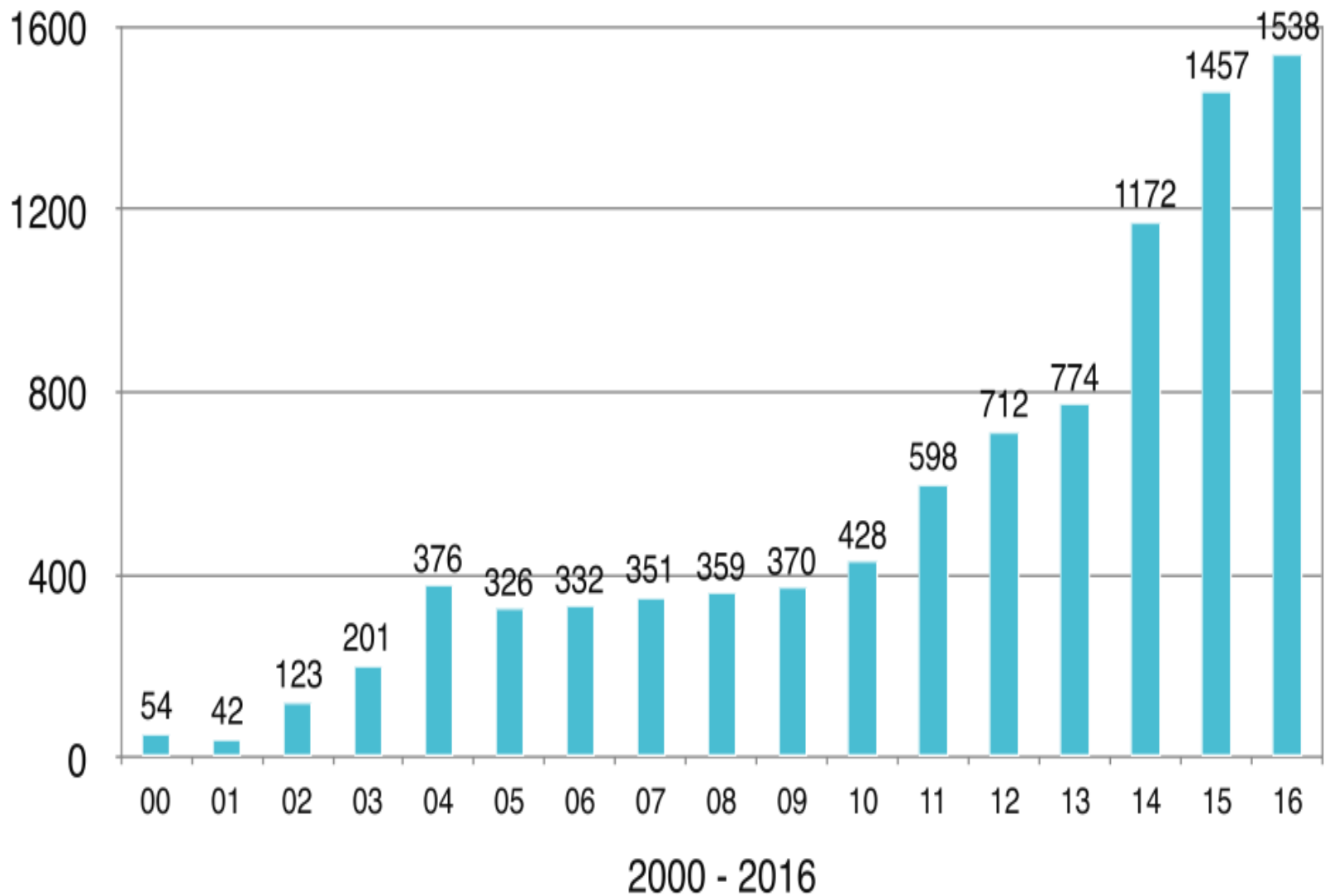
**Department of Parasitology, College of
Medicine, Hallym University, Korea**

It is based on data and slides provided by Rachael Lammey (Crossref)

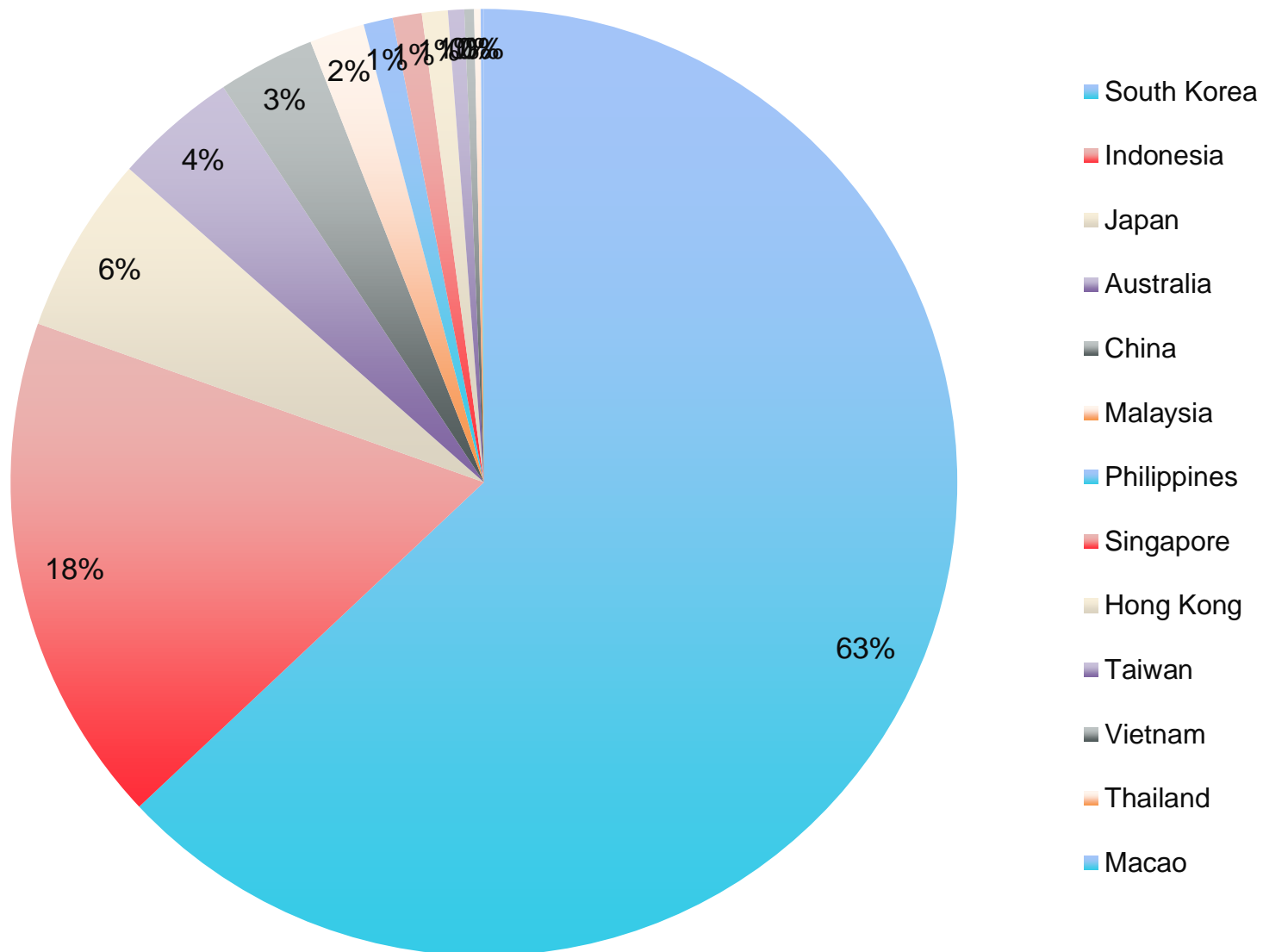
Digital Object Identifier (DOI) and reference hyperlink

- Why is DOI necessary?
- In the web, specific site appeared, disappeared, moved, merged, separated, or modified.
- → Permanent URL address of specific content is needed.
- → International DOI Foundation (IDF) launched in 1998

Crossref Members and Affiliates by Year



New Asia Pacific members since January 2015



How to access Vietnam scholarly journals

- Airmail for print version?
- Internet access?
- Digital object identifier(DOI)?

7 Publisher Members of Crossref in Vietnam

1. Vietnam National University Journal of Science
2. Publishing House for Science and Technology, Vietnam Academy of Science and Technology
3. **Biomedical Research and Therapy**
4. Journal of Economic Development - University of Economics Ho Chi Minh City ?
5. Journal of Science, Hanoi National University of Education ?
6. Can Tho University ?
7. **The Radio and Electronics Association of Vietnam –*REV Journal of Electronics and Communications***

Do Vietnamese members adopt DOI to their journals?

- Vietnam National University Journal of Science
- <https://js.vnu.edu.vn/>



TẠP CHÍ KHOA HỌC Journal of Science



Advanced Materials and Devices



Computer Science and Communication Engineering



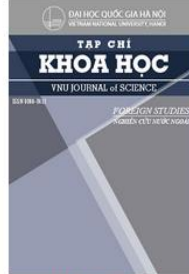
Earth and Environmental Studies



Education Research



Economics and Business



Foreign Studies



Mathematics and Physics



Legal Studies



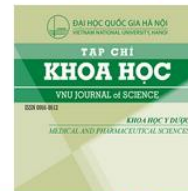
Natural Sciences and Technology



Policy and Management Studies



Social Sciences and Humanities



Medical and Pharmaceutical Sciences

No DOI, No reference hyperlink in the web

106-1-516-1-10-20161227.pdf - Adobe Acrobat Reader DC

파일 편집 보기(V) 창(W) 도움말(H)

홈 도구 106-1-516-1-10-20... x ? 로그인

1 / 10

VNU Journal of Science: Comp. Science & Com. Eng., Vol. 32, No. 3 (2016) 1-10

Swarm Optimization Approach for Light Source Detection by Multi-robot System¹

Hoang Anh Quy, Pham Minh Trien

VNU University of Engineering and Technology, 144 Xuan Thuy, Cau Giay, Hanoi, Vietnam

Abstract

Exploration and searching in unknown or hazardous environments using multi-robot systems (MRS) is among the principal topics in robotics. There have been numerous works on searching and detection of odor, fire

Windows 검색

오후 9:14
2017-06-28

Publishing House for Science and Technology (12 journals)-
[Advances in Natural Sciences: Nanoscience and Nanotechnology](#)
(published by IOP) -DOI & Hyperlink

The screenshot shows a web browser window with the URL iopscience.iop.org/article/10.1088/2043-6254/aa5e17/pdf. The page content includes:

- OPEN ACCESS** IOP Publishing
- Advances in Natural Sciences: Nanoscience and Nanotechnology
- Adv. Nat. Sci.: Nanosci. Nanotechnol. **8** (2017) 023001 (7pp)
- <https://doi.org/10.1088/2043-6254/aa5e17> (circled in red)
- Review**
- Conductance anomalies in quantum point contacts and 1D wires***
- Mukunda P Das¹ and Frederick Green²**
- ¹ Department of Theoretical Physics, RSPE, The Australian National University, Canberra, ACT 2601, Australia
- ² School of Physics, The University of New South Wales, Sydney, NSW 2052, Australia
- E-mail: mukunda.das@anu.edu.au
- Received 10 January 2017
- Accepted for publication 16 January 2017
- Published 5 May 2017
- CrossMark logo

The browser's taskbar at the bottom shows the Windows search bar, taskbar icons for various applications, and the system tray with the date and time: 2017-06-28, 오후 9:23.

Biomedical Research and Therapy

(<http://www.bmrat.org/>)

-DOI but no reference hyperlink



www.bmrat.org/index.php/BMRAT/article/view/180

Home / Archives / Vol 4 No 06 (2017) / Research articles

SHARE

Comparative study of sperm motility in Metformin-using and Insulin-dependent diabetics



Download PDF

Published Jun 25, 2017

DOI: <https://doi.org/10.15419/bmrat.v4i06.180>

Awais Ali Zaidi
Faculty of Pharmacy, University of Lahore, Lahore-Pakistan

Mahtab Ahmed Khan
Faculty of Pharmacy, University of Lahore, Lahore-Pakistan

Ali Sharif
Faculty of Pharmacy, University of Lahore, Lahore-Pakistan

Lubna Shakir
Faculty of Pharmacy, Hajvery University, Lahore-Pakistan

Atif Irshad
Good Hope Hospital, Rectory Road Sutton Coldfield, B75 7RR

Arsalan Ali
Faculty of Pharmacy, Hajvery University, Lahore-Pakistan

Zaib Ali Shaheryar
Faculty of Pharmacy, University of Lahore, Lahore-Pakistan

Biomedical Research & Therapy

Submit a manuscript

ISSN: 2198-4093

DOI Prefix: 10.15419 (from Vol3, I11), 10.7603 (from Vol1, I1 to Vol3, I10)

Indexed: Web of Science (ESCI - Emerging Sources Citation Index, Clarivate Analytics), Embase, DOAJ, EBSCOhost, OCLCWorldCat, Index Copernicus, Google Scholar, OAIster, ScopeMed, Deepdye, ReadCube, Infona, Pubget, CNKI Scholar, PKP Index, Global Science Journal, GFMER, Microsoft Academic, Asean Citation Index (ACI), WorldWideScience, ROAD, J-Gate

Under evaluation: Pubmed/Pubmed Central

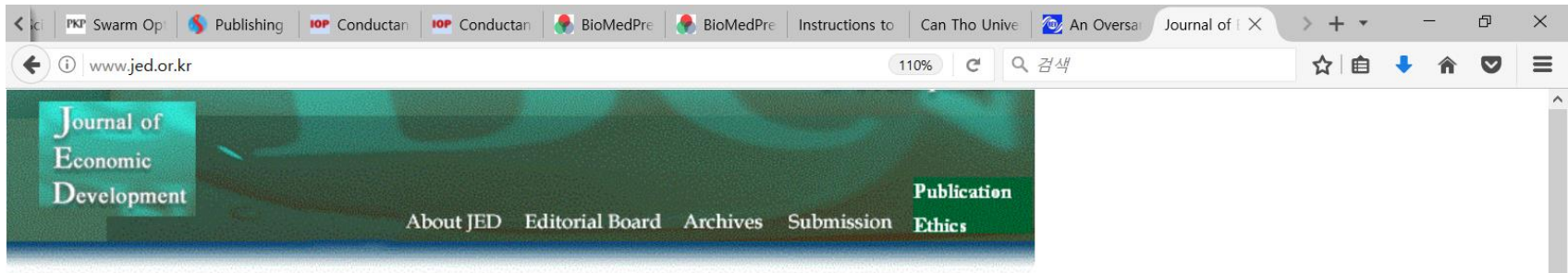
Impact Factor (This is not JCR, Thomson Reuters):
3.10 INFOBASE INDEX 1.036 INTERNATIONAL 28.46 Universal Impact Factor
0.702 GIF

ICV 2015: 86.03 INDEX COPERNICUS INTERNATIONAL

Windows 검색

오후 9:32
2017-06-28

Journal of Economic Development - University of Economics Ho Chi Minh City



About JED

Editorial Announcement

Dear Researchers:

Greetings to all.

With effect from September 15th, 2014, the authors should submit their article to the Journal of Economic Development via the following web site:

<http://acoms.jams.or.kr/journal.do?method=journalintro&journalSeq=J000001&menuId=&introMenuId=0101>

This is a journal management site hosted and sponsored by the National Research Foundation of Korea (NRF).

On this site, one can submit an article by clicking on e-Submission and going through guided steps.

Before submitting an article, one needs to create an account by clicking on REGISTER and going through guiding instructions. You use this account in the subsequent submissions to the JED.



http://www.rev-jec.org/index.php/rev-jec

82-234-1-PB.pdf - Adobe Acrobat Reader DC

파일 편집 보기(V) 창(W) 도움말(H)

홈 도구 106-1-516-1-10-20... 82-234-1-PB.pdf x 로그인

1 / 12

REV Journal on Electronics and Communications, Vol. 6, No. 1-2, January-June, 2016 1

Regular Article

An Oversampling-Based Correlator-Type Receiver for DCSK Communication Systems over Generalized Flat Rayleigh Fading Channels

Nguyen Xuan Quyen

Sch. Electronics & Telecommunications, Hanoi University of Science and Technology, Hanoi, Vietnam

Correspondence: quyen.nguyenxuan@hust.edu.vn
Communication: received 20 January 2016, revised 19 April 2016, accepted 12 May 2016
Online publication: 16 June 2016, Digital Object Identifier [10.21553/rev-jec.82](https://doi.org/10.21553/rev-jec.82)
The associate editor coordinating the review of this article and recommending it for publication was Dr. Truong Trung Kien.

Abstract- This paper proposes an oversampling-based correlator-type receiver for Differential Chaos-shift Keying (DCSK)

Windows 검색

오후 9:43
2017-06-28

Adoption of DOI by journals in Vietnam

- DOI: *Biomedical Research and Therapy*
- *REV Journal of Electronics and Communications*
- DOI & reference hyperlink: Only journals
- published by IOP or Springer
- *Advances in Natural Sciences: Nanoscience and Nanotechnology,*
- *Vietnam Journal of Mathematics,*
- *Acta Mathematica Vietnamica*

About Crossref

- Founded in 2000 with 12 publishers
- Not for profit membership organization
- 30 staff based in Oxford, UK and Boston, USA
 - outreach, tech, development, product, operations
- Publishers, libraries, sponsors, affiliated organizations, researchers, all use our services

Crossref overview

- 7200 publisher members
- Metadata store of over 88 million scholarly content items
- Persistent citation linking
- Funder identifiers
- Report and display corrections & retractions
- Check manuscripts for similarities
- Open Metadata API & Search

Content registration

- Journals
- Books
- Conference proceedings
- Standards
- Technical reports
- Working Papers
- Theses and dissertations
- Components (figures, tables)
- Datasets (supplementary data)
- Databases
- Preprints

Not just bibliographic data

- Non-descriptive information that facilitates usage:
 - ORCID iDs
 - License information
 - Clinical trial numbers
 - Archiving information
 - Full-text links (indexing and TDM)
 - Updates

Who uses Crossref?

- Funders
- Institutions
- Archives & repositories
- Research councils
- Data centres
- Professional networks
- Patent offices
- Indexing services
- Registration agencies
- Publishing vendors
- Peer review systems
- Reference manager systems
- Lab & diagnostics suppliers
- Info management systems
- Educational tools
- Data analytics systems
- Literature discovery services

Major services by Crossref

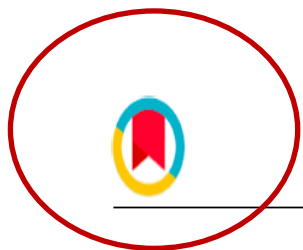
- DOI for scholarly contents
- Cited-by function
- Reference hypertext
- Crossmark (Check for updates)
- FundRef (Open Funder Registry)
- Text and data mining (TDM)
- CrossCheck (Similarity check)
- Meta data search

Crossmark: what is it?

- A button and a set of metadata that informs readers about
 - Publication status (current, updated, retracted)
 - Funding information
 - Authors' ORCID IDs
 - Publication history
 - Rights or licensing information
 - And much more...

Examples





editorial

IUCrJ

ISSN 2052-2525

CHEMISTRY | CRYSTENG

Crystal engineering and IUCrJ

Gautam R. Desiraju*

Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore 560 012, India. *Correspondence e-mail: gautam.desiraju@gmail.com

Keywords: Editorial; crystal engineering.

Crystal engineering has grown over time, with its practitioners now seeking specific answers to specialized questions. How does a molecular crystal nucleate and then grow? Can its structure be predicted computationally? Can one design a crystal structure with knowledge-based inputs? Can a crystal structure be considered as a collection of modular entities which represent its microcosms? What properties are characteristic of the crystal as a whole rather than of its constituent molecules? Can these properties be designed and is property design different from structure design? Can one predict if a given compound will have polymorphs and pseudopolymorphs? Can one design the structures of multi-component crystals in which each component is a solid when taken separately under ambient conditions? All these issues connect through the structural landscape of crystals and the exploration of this landscape, that is crystallization. The subject of crystal engineering covers not only purely organic solids but also organometallics and more

CrossMark



Document is current

Any future updates will be listed below

Crystal engineering and IUCrJ

Crossref DOI link: <https://doi.org/10.1107/s2052252515024100>

Published: 2016-01-01

Update policy: https://doi.org/10.1107/cm_01

› Authors

› More Information

CrossMark



Updates are available

Corrigendum dated 2016-08-24

Click to view Corrigendum:

<https://doi.org/10.3389/fbioe.2016.00067>

Voice Pathology Detection Using Modulation Spectrum-Optimized Metrics

Crossref DOI link: <https://doi.org/10.3389/fbioe.2016.00001>

Published:

Update policy: <https://doi.org/10.3389/crossmark-policy>

> Authors



[About CrossMark](#)

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SEARCH TOPIC
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Retraction
Retraction dated 2012-11-01

Click to view Retraction:
<https://doi.org/10.1107/s1744309112039875>

Cloning, expression, crystallization and preliminary X-ray crystallographic analysis of aspartyl aminopeptidase from theapeBgene ofPseudomonas aeruginosa


Crossref DOI link: <https://doi.org/10.1107/s1744309111054388>

Published: 2012-02-01

Update policy: https://doi.org/10.1107/cm_01

› Authors

› More Information

 Crossref

[About CrossMark](#)

What constitutes a status update?

A change significant enough to affect the crediting or interpretation of the work

Status update types

addendum

clarification

correction

corrigendum

erratum

expression_of_concern

new_edition

new_version

partial_retraction

removal

retraction

withdrawal

Latest numbers

4.5 million Crossmark deposits

- **380 publishers**
- **44,000 status updates**
- **1,500 retractions**
- **41,000 corrections**
- **2.5 million DOIs with additional metadata**

Additional information - funding details:

CrossMark ✕

Any future updates will be listed below

Generation of a cold pulsed beam of Rb atoms by transfer from a 3D magneto-optic trap
Crossref DOI link: <https://doi.org/10.1016/j.physleta.2016.07.022>
Published: 2016-08
Update policy: https://doi.org/10.1016/elsevier_cm_policy

› Authors

▼ Funding

Funding for this research was provided by:
Council of Scientific and Industrial Research
Department of Science and Technology, Government of Kerala

▼ License Information

[Text and Data Mining](#) valid from 2016-08-01

Any future updates will be listed here

Native valve disease in patients with non-valvular atrial fibrillation on warfarin or rivaroxaban

Crossref DOI link: <https://doi.org/10.1136/heartjnl-2015-308120>

Published: 2016-07-01

Update policy: <https://doi.org/10.1136/crossmark>

› Authors

▼ Clinical Trials ^{BETA}

Clinical trials referenced in this document

› nct00403767 at ClinicalTrials.gov



CrossMark

▼ Clinical Trials ^{BETA}

Clinical trials referenced in this document:

▼ nct00403767 at ClinicalTrials.gov

Documents that mention this clinical trial

Digoxin use in patients with atrial fibrillation and adverse cardiovascular outcomes: a retrospective analysis of the Rivaroxaban Once Daily Oral Direct Factor Xa Inhibition Compared with Vitamin K Antagonism for Prevention of Stroke and Embolism Trial in Atrial Fibrillation (ROCKET AF)

[https://doi.org/10.1016/s0140-6736\(14\)61836-5](https://doi.org/10.1016/s0140-6736(14)61836-5)

Efficacy and safety of rivaroxaban in patients with diabetes and nonvalvular atrial fibrillation: The Rivaroxaban Once-daily, Oral, Direct Factor Xa Inhibition Compared with Vitamin K Antagonism for Prevention of Stroke and Embolism Trial in Atrial Fibrillation (ROCKET AF Trial)

<https://doi.org/10.1016/j.ahj.2015.07.006>

Native valve disease in patients with non-valvular atrial fibrillation on warfarin or rivaroxaban ^(Post-results)

<https://doi.org/10.1136/heartjnl-2015-308120>

Blood pressure control and stroke or bleeding risk in

What is *text and data mining*?

Text Mining is an interdisciplinary field combining techniques from linguistics, computer science and statistics to build tools that can efficiently retrieve and extract information from digital text.

<http://blogs.plos.org/everyone/2013/04/17/announcing-the-plos-text-mining-collection/>

It uses powerful computers to find links between drugs and side effects, or genes and diseases, that are hidden within the vast scientific literature. These are discoveries that a person scouring through papers one by one may never notice.

<http://www.theguardian.com/science/2012/may/23/text-mining-research-tool-forbidden>

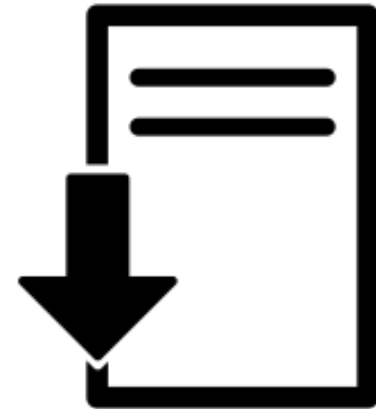
What is the issue?

- Researchers find it impractical to negotiate multiple bilateral agreements with hundreds of subscription-based publishers in order to authorize TDM of subscribed content.
- Subscription-based publishers find it impractical to negotiate multiple bilateral agreements with thousands of researchers and institutions in order to authorize TDM of subscribed content.
- All parties would benefit from support of standard APIs and data representations in order to enable TDM across both open access and subscription-based publishers.

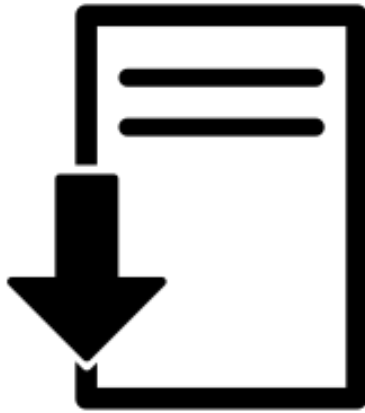
2. The researcher takes the DOIs that correspond to the articles they are interested in



10.5555/12345678
10.5556/12345679
10.1016/12345680
10.8080/12345681
10.1155/12345682
10.1100/12345683
10.5555/12345684
10.1007/12345685
10.1111/12345686
10.2406/12345687
10.3994/12345688
10.5006/12345689



3. The researcher gives this list to the Crossref Text and Data Mining API



Crossref

And that tells them



Where the full-text is located



What they are allowed to do with it

What are they allowed to do with the content?



This is communicated by licence information that publishers give to Crossref.

Some publishers ask researchers to agree to an additional licence to be able to use their content for mining.

Researchers are able to log in to Crossref TDM with their ORCID ID where they can view and accept publisher licences **ALL** in one place. No multiple actions are needed.

Click-through Service Agreements API token Logout ORCID 0000-0001-5800-1434

Welcome to CrossRef's click-through service for text and data mining. Here you can review publishers' terms and conditions for text and data mining. You have the opportunity to accept or reject these agreements or postpone your decisions until later. When you agree to a publishers' terms and conditions this action will be logged against your API token. You can then use this API token to request full text from the publisher (subscription permitting).

Common agreements used by multiple publishers

Agreement name ▲	Publishers	Status	Action
------------------	------------	--------	--------

Publisher-Specific Agreements

Publisher Name ▲	Terms and Conditions	Status	Action
	Example License from CrossRef	Not yet reviewed	<input type="button" value="view"/>
	Journal of Zhejiang University Science	Not yet reviewed	<input type="button" value="view"/>
	Elsevier Text and Data Mining Service Agreement	Not yet reviewed	<input type="button" value="view"/>

The publishers do not charge researchers for this, and Crossref does not charge researchers for the service.

How to solve it?

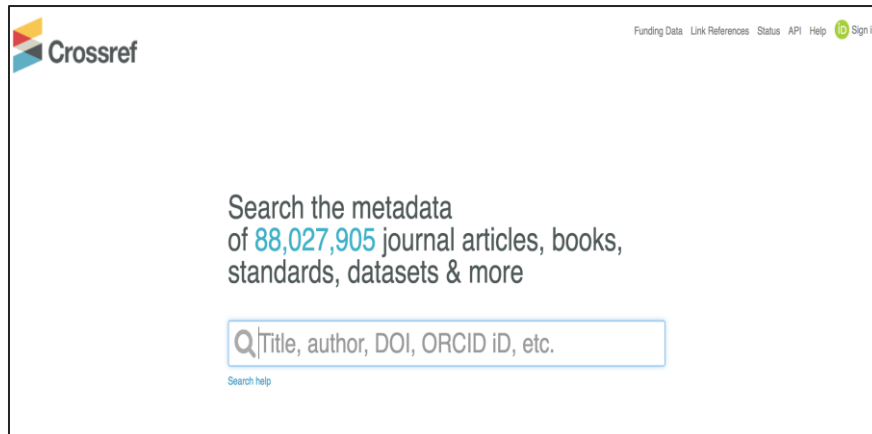
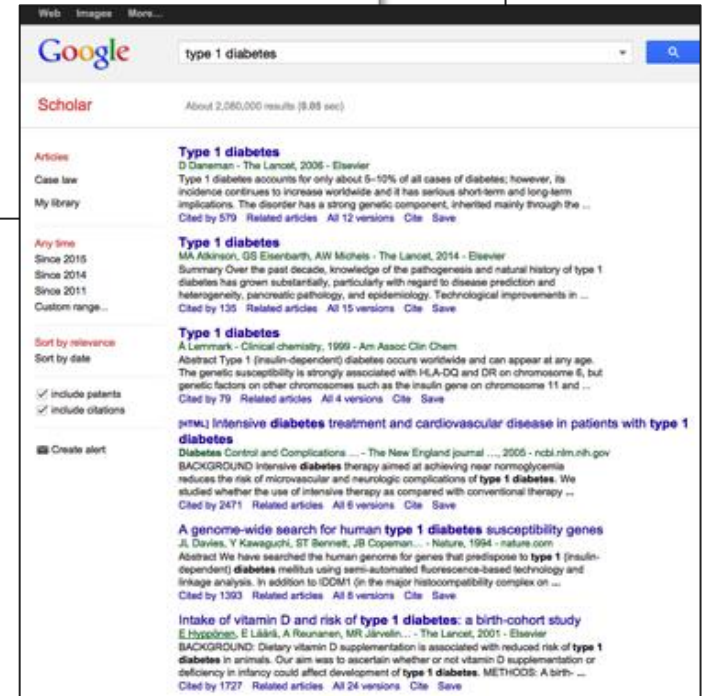
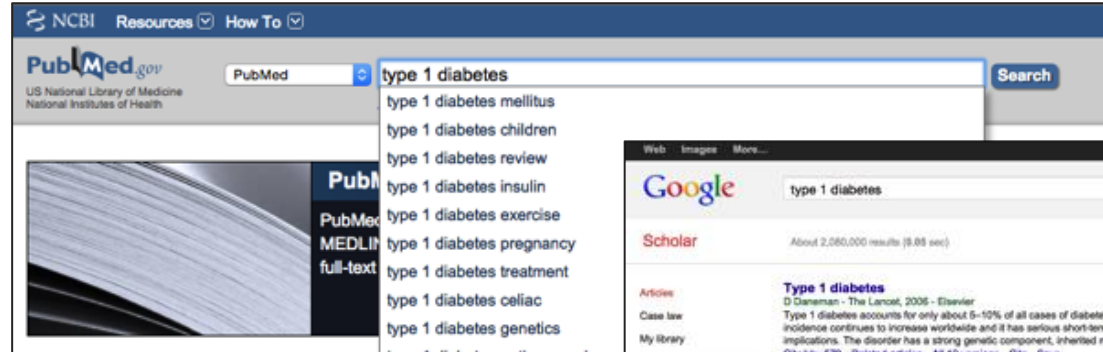
- Crossref REST API: designed to allow researchers to easily harvest full text documents from all participating publishers regardless of their business model (e.g. open access, subscription).

Common API Summary

- Content Negotiation (Required)
- New Metadata (Required)
 - Full text URIs
 - License URIs
- Rate Limiting Headers (optional)

How does it work?

- Step 1: A researcher identifies the articles they are interested in

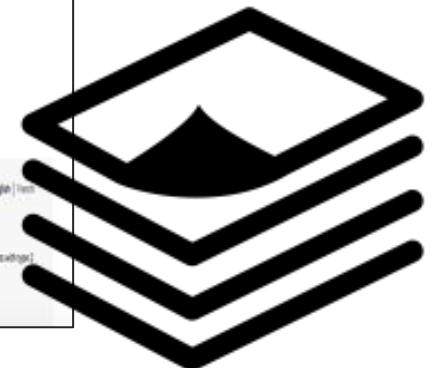


The search engines they use bring back results from lots of different publishers. They can also use Crossref to search.

The searches they run bring back results showing publications from a range of publishers, in different locations and using different business models.

The challenge is to harvest all these articles in order to be able to mine them, without engaging in individual transactions with each publisher.

The image displays three overlapping screenshots of academic publisher websites. The top-left screenshot is from Hindawi Publishing Corporation, showing the 'BioMed Research International' journal page with an impact factor of 1.579. The middle screenshot is from Elsevier's 'Journal of Clinical & Translational Endocrinology', featuring a research paper titled 'Patients with type 1 diabetes in Sweden experience fatigue than the general population' by Johan Segerstedt, Robert Lundqvist, and Mats Eliasson. The bottom-right screenshot is from the Cochrane Library, showing a review titled 'Intensive glucose control versus conventional glucose control for type 1 diabetes mellitus' by Hugo Valderas, Ana Gallego, Megan Soto, Karl Henrich, Andrea Berglund, and Andrea Selander. The screenshots are layered, with the Hindawi page at the top, the Elsevier page in the middle, and the Cochrane page at the bottom right.



How to do that?

Each of those articles has a **DOI**, or **digital object identifier**. Each DOI is unique and identifies the paper. Researchers are familiar with DOIs and are used to working with them

Journal of Clinical & Translational Endocrinology
Volume 2, Issue 3, September 2015, Pages 105–109
Open Access

Research Paper
Patients with type 1 diabetes in Sweden experience more fatigue than the general population
Johan Segerstedt, Robert Lundqvist, Mats Eliasson
Under a Creative Commons license
[Show more](#)
doi:10.1016/j.jcte.2015.06.001
Get rights and content

Impact Factor 1.579
manuscript Table of Contents

BioMed Research International
Volume 2015 (2015), Article ID 847906, 2 pages
<http://dx.doi.org/10.1155/2015/847906>

Editorial
Environmental Trigger(s) of Type 1 Diabetes: Why Is It So Difficult to Identify?
Kjersti S. Rønningen,¹ Jill M. Norris,² and Mikael Knip³
¹Rikshospitalet, Oslo University Hospital, Oslo, Norway
²Colorado School of Public Health, Anschutz Medical Campus, Aurora, CO, USA
³Children's Hospital, Helsinki University Central Hospital, University of Helsinki, Helsinki, Finland

Abstract
Full-Text PDF
Full-Text HTML
Full-Text ePUB
Full-Text XML
How to Cite this Article
Complete Special Issue

Search engines will allow them to download **DOIs** as a list, the researcher does not need to go to each paper to extract the DOI from it.

PMC
US National Library of Medicine
National Institutes of Health

type one diabetes
Save search Journal List Limits Advanced

Display Settings: Summary, 20 per page, Sorted by Default order

Results: 1 to 20 of 245995

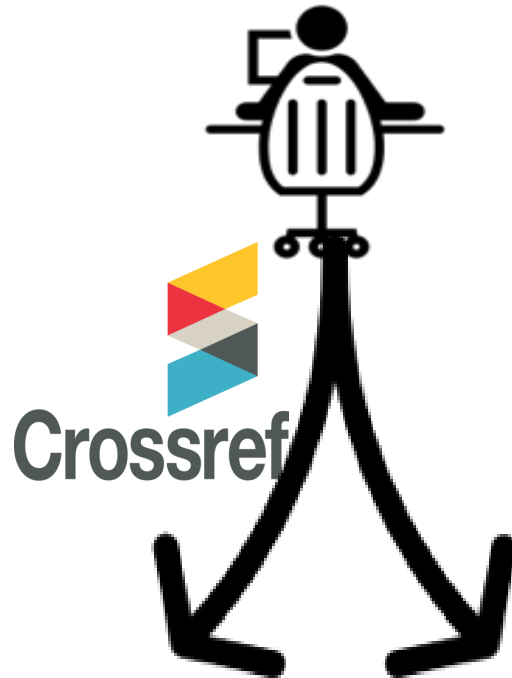
1. Leonilde Bonfrate, Giuseppe Procino, David Q-H Wang, Maria Svelto, Piero Portincasa
J Cell Mol Med. 2015 February; 19(2): 265–282. Published online 2015 January 16. doi: 10.1111/jcmm.12422
PMCID: PMC4407600
[Article](#) [PubReader](#) [PDF-635K](#) [Citation](#)

2. George S. Eisenbarth
Diabetes. 2010 April; 59(4): 759–774. doi: 10.2337/db09-1855
PMCID: PMC2844823
[Article](#) [PubReader](#) [PDF-695K](#) [Citation](#)

Choose Destination
 File Clipboard
 E-mail Collections

Download 245995 items.
Format
Summary (text)
Sort by
Default order
Create File

4. The researcher uses that information to go directly to each publisher via Crossref. It is a central channel for them visit thousands of publishers via one request or transaction



Where they will be identified in a number of ways:

- ✓ No identification (Open Access content)
- ✓ IP recognition/log in credentials
- ✓ IP recognition/log in credentials + Crossref token (API key) from the TDM service



Benefits

- Streamlines researcher access to distributed full text for TDM
- Enables machine-to-machine, automated access for recognized TDM (i.e. researchers won't be locked out of publisher sites)
- Enables article-level licensing info and easy mechanism for supplemental T&Cs for text and data mining (publishers discussing model license via STM)

Funding data and the open funder registry

A standard way of reporting funding sources for published scholarly research

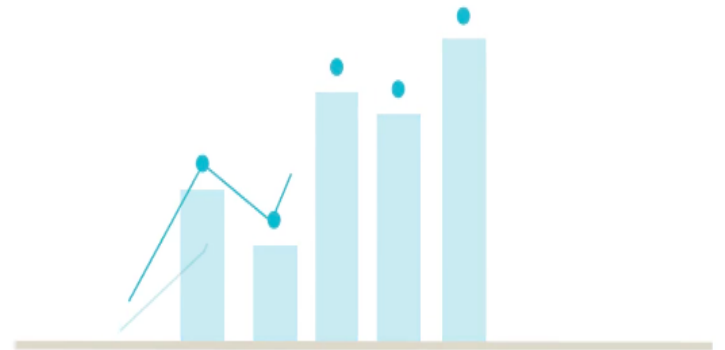
Who funded the research?

Acknowledgments

We thank Lucas Wetzel for constructive comments on the manuscript and Stefan Skupin for pointing out occurrences of the dynamic wavelength effect in nonlinear optics. LGM acknowledges support from ANPCyT PICT 2012 1954 and the warm hospitality of the Max Planck Institute for the Physics of Complex Systems. ACO and DS acknowledge support from the Medical Research Council UK (award MC_UP_1202/3) and the Wellcome Trust (WT098025MA).

Crossref funding data

Standardisation of funder names using the funder registry
Publisher deposit of funding metadata
Large-scale analysis and reporting to funders



funders can see the results
of their grants in one place


Searchable metadata:

Search **14,200** funders connected to
1,301,803 published works with funding
data

 Search funders...

<https://search.crossref.org/funding>

Example, funder from Vietnam:



BỘ NÔNG NGHIỆP VÀ PHÁT TRIỂN NÔNG THÔN

TYPE

- Journal Article (6)

YEAR

- 2014 (3)
- 2016 (2)
- 2017 (1)

PUBLICATION

- Aquaculture (3)
- Agriculture, Ecosystems & Environment (1)
- Aquaculture Research (1)
- Journal of Materials Science: Materials in Electronics (1)


CATEGORY

- Aquatic Science (4)
- Agronomy and Crop Science (1)
- Animal Science and Zoology (1)
- Atomic and Molecular Physics, and Optics (1)
- Condensed Matter Physics (1)
- Ecology (1)
- Electrical and Electronic Engineering (1)
- Electronic, Optical and Magnetic Materials (1)

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- Elsevier BV (4)
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Journal Article published **May 2014** in **Aquaculture** volume **428-429** on pages **1 to 6**

Research funded by Bộ Nông Nghiệp và Phát Triển Nông Thôn (1462/QĐ-BNN-KHCN)

Authors: Nguyen Huu Ninh, Ngo Phu Thoa, Wayne Knibb, Nguyen Hong Nguyen


<https://doi.org/10.1016/j.aquaculture.2014.02.024> 

Adoption of recirculating aquaculture systems in large pangasius farms: A choice experiment

Journal Article published **Jul 2016** in **Aquaculture** volume **460** on pages **90 to 97**

Research funded by Bộ Nông Nghiệp và Phát Triển Nông Thôn | Ministry of Economic Affairs from the Netherlands

Authors: Pham Thi Anh Ngoc, Miranda P.M. Meuwissen, Tru Cong Le, Roel H. Bosma, Johan Verreth, Alfons Oude Lansink


<https://doi.org/10.1016/j.aquaculture.2016.03.055> 

Synthesis of Li-doped ZnO via sol–gel process: structural, optical and photocatalytic properties

Journal Article published **20 Oct 2016** in **Journal of Materials Science: Materials in Electronics** volume **28** issue **3** on pages **2817 to 2825**

Research funded by Bộ Nông Nghiệp và Phát Triển Nông Thôn

Authors: Faten Ajala, Hinda Lachheb, Nabil Bouazizi, Ammar Houas


<https://doi.org/10.1007/s10854-016-5863-9> 

Price transmission along the Vietnamese pangasius export chain

Journal Article published **Apr 2017** in **Aquaculture**

Research funded by Bộ Nông Nghiệp và Phát Triển Nông Thôn | Ministry of Economic Affairs from the Netherlands (15/0019)

Authors: Thi Anh Ngoc Pham, Miranda P.M. Meuwissen, Tru Cong Le, Roel H. Bosma, Johan Verreth, Alfons Oude Lansink

<https://doi.org/10.1016/j.aquaculture.2017.04.028> 

TYPE

- Journal Article (1,892)
- Journal (1)

YEAR

- 2015 (863)
- 2014 (651)
- 2013 (332)
- 2012 (46)

PUBLICATION

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- Abstract (14)
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- National Institute of General Medical Sciences (121)
- Deutsche Forschungsgemeinschaft (105)
- Medical Research Council (77)
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Foundation (MGB-1021677)

Authors: Roberto De Michele, Cindy Ast, Dominique Loqu
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Journal Article published **29 Dec 2014** in **eLife** vResearch funded by Graham Boeckh Foundation (Gra
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Authors: Ian D Blum, Lei Zhu, Luc Moquin, Maia V Kokoer

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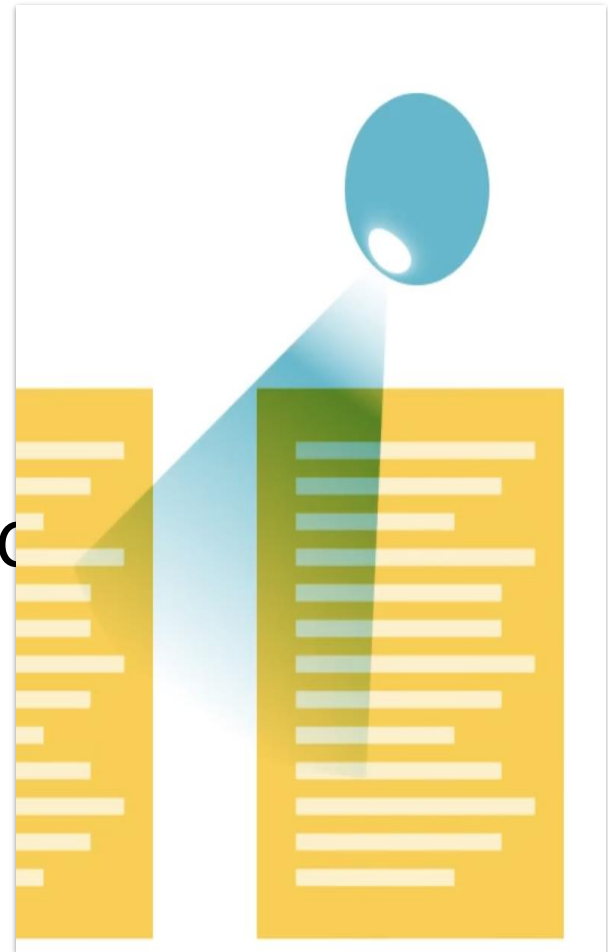
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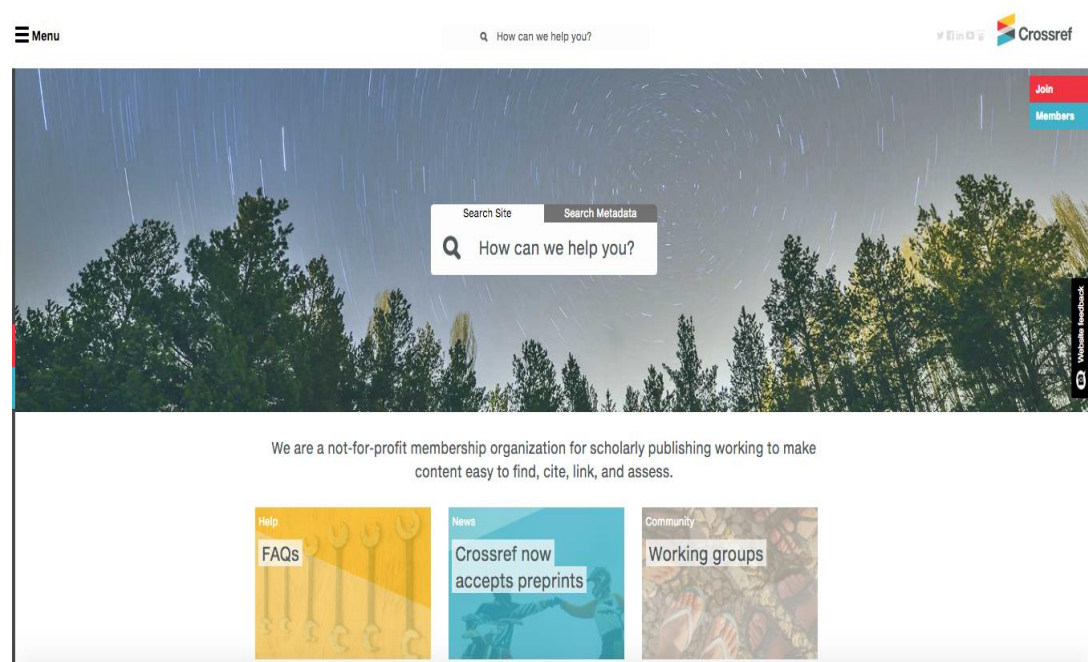
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It was presented base on the slides provided by Rachael Lammey, Crossref

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