Cost Effective and Sustainable Development for Academic Libraries

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Abstract

- Libraries across the world are wanting to look for ways to ensure the maximum usage of the resources they procure.
- At the same time they have challenge of Efficient usage of given budgets. This Requires them improve on effective usage of existing resources , improve interlibrary loan and resources sharing so other budgets can go for procuring new resources .
- Our paper highlight one of the method which libraries may want to consider without compromising the needs of the user or researcher to provide them with full text content and helps in resources sharing through Interlibrary loan without compromising on the copyright laws.

Challenges faced By libraries

- To manage e-resources with large amounts of information on the desk.
- To avoid duplication of resources and save cost on expensive Journals.
- To ensure that Journals are used for productive research and teaching.
- To explore the effective ways of using open access in supporting Library objectives.

Current solution which Libraries adopts to counter these Challenges

- To manage cost vs demand of online research literature many institution adopt for journal packages, by publisher spending substantial amounts.
- The journal package offered by aggregators may not have much relevant journals but offered as an incentive to increase journals count.
- Librarians look for effective ways to have quick access to some of costly journals and in short period of time.
- One such alternative could be Jgate , explained through a case study.

One of Such Solution – J-Gate

J-Gate is most comprehensive database & gateway to access research from more than 60 million journal articles.

J-Gate indexes 48,000+ articles from 13,500+ publishers and 23,500 open access journals with over 11 million open access articles indexed in all disciplines like

a) Agricultural & Biological Sciences
b) Arts & Humanities , Basic Sciences
c) Biomedical sciences
d) Engineering & Technology
e) Social & Management Sciences

J-Gate Features & Benefits

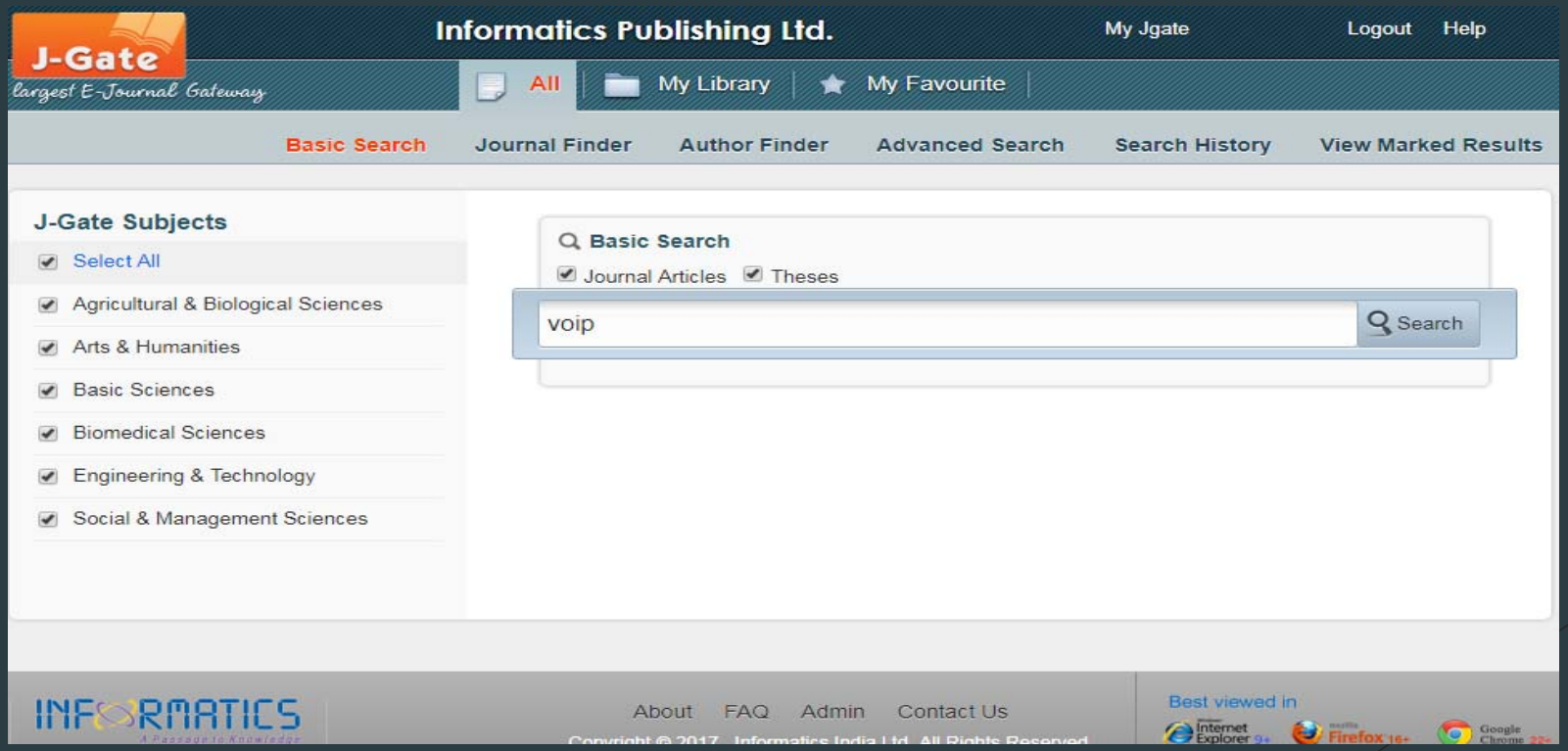
- J-Gate provides searchable Database of more than 60 million articles from 48000+ journals.
- Full text to more than 11 million journal articles and all other bibliographic data.
- Covers English Language online journals
- User friendly interface easy to use .
- Three layers of content level navigation are possible.

  a) Universal Layer b) Local Layer c) Personal Layer

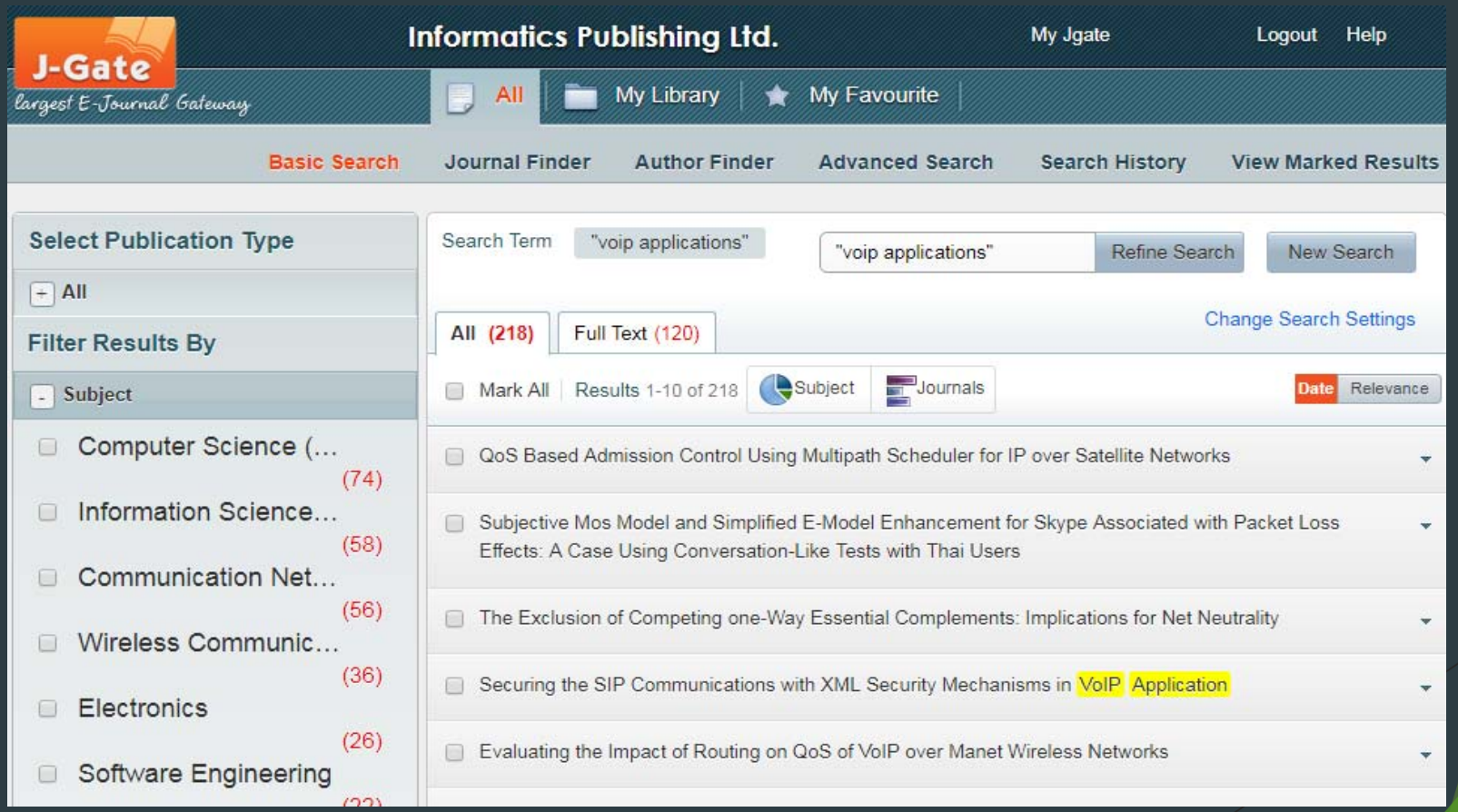
Discovery Layers

- **Universal Layer (All Journals)-** This is a global layer where 4800+ articles are indexed . This includes almost 2300+ OA journals . One can see full text link from articles from journals subscribed by particular library and OA Journals.
- **Local Layer (My library Journals)-** This is institution's local layer . Articles from both print & online, are indexed here. The library administration can configure their holding information .
- **Personal Layer (My Favorite Journals)-** This is user personal Library

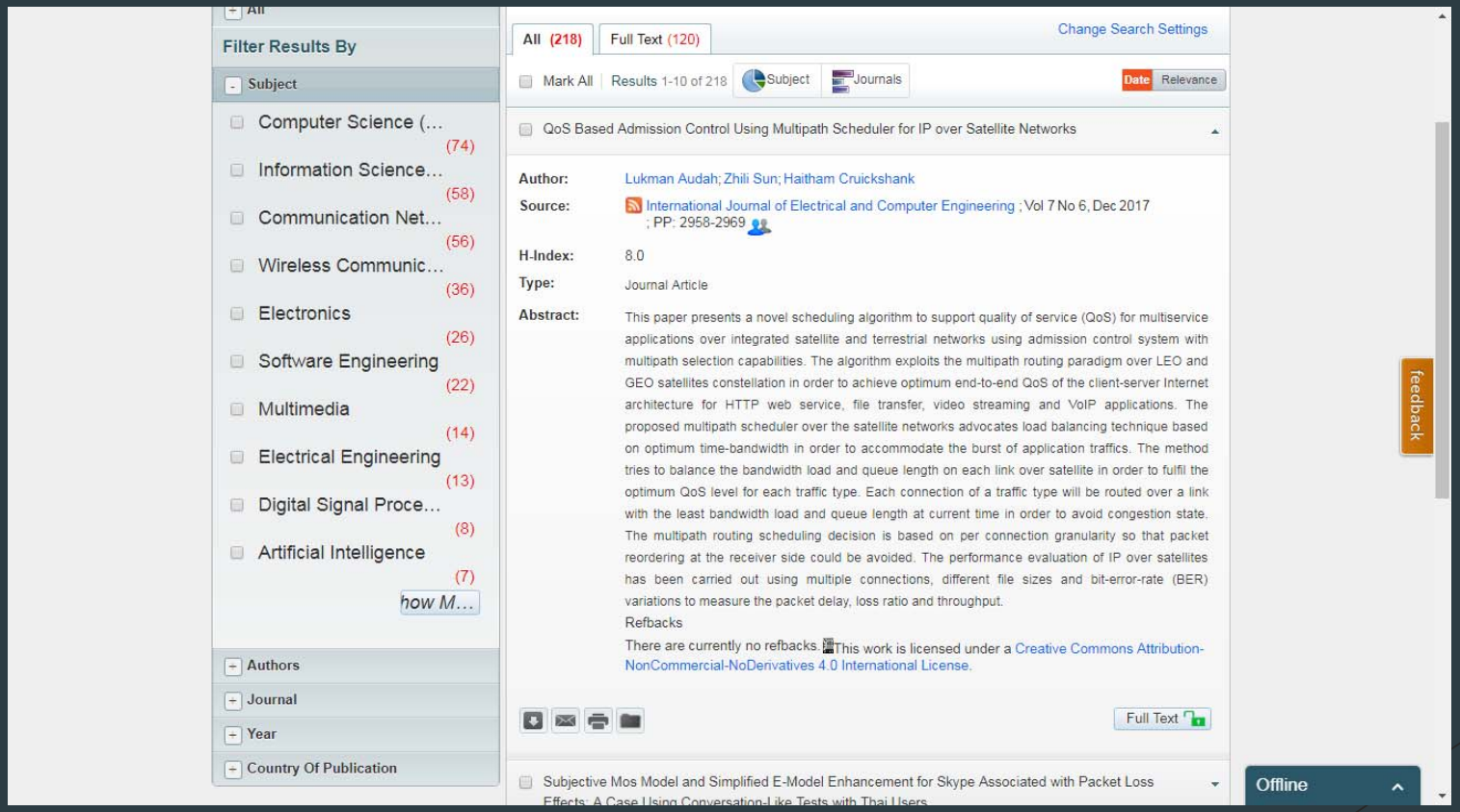
J-Gate Landing Page



J-Gate search result page



Bibliographic Citation from J-Gate



Case Study –e-ShodhSindhu

- e- ShodhSindhu is a consortium of Higher Education electronic resources in India.
- Based on expert committee recommendations the MHRD of India has formed e- ShodhSindhu by merging three consortia namely – UGC INFONET , NLSIT & INDEST –AICTE Consortium.
- The e-ShodhSindhu provides current as well as archival access to more than 15,000 core and peer-reviewed journals and a number of bibliographic, citation and factual databases in different disciplines

Objectives of e-ShodhSindhu

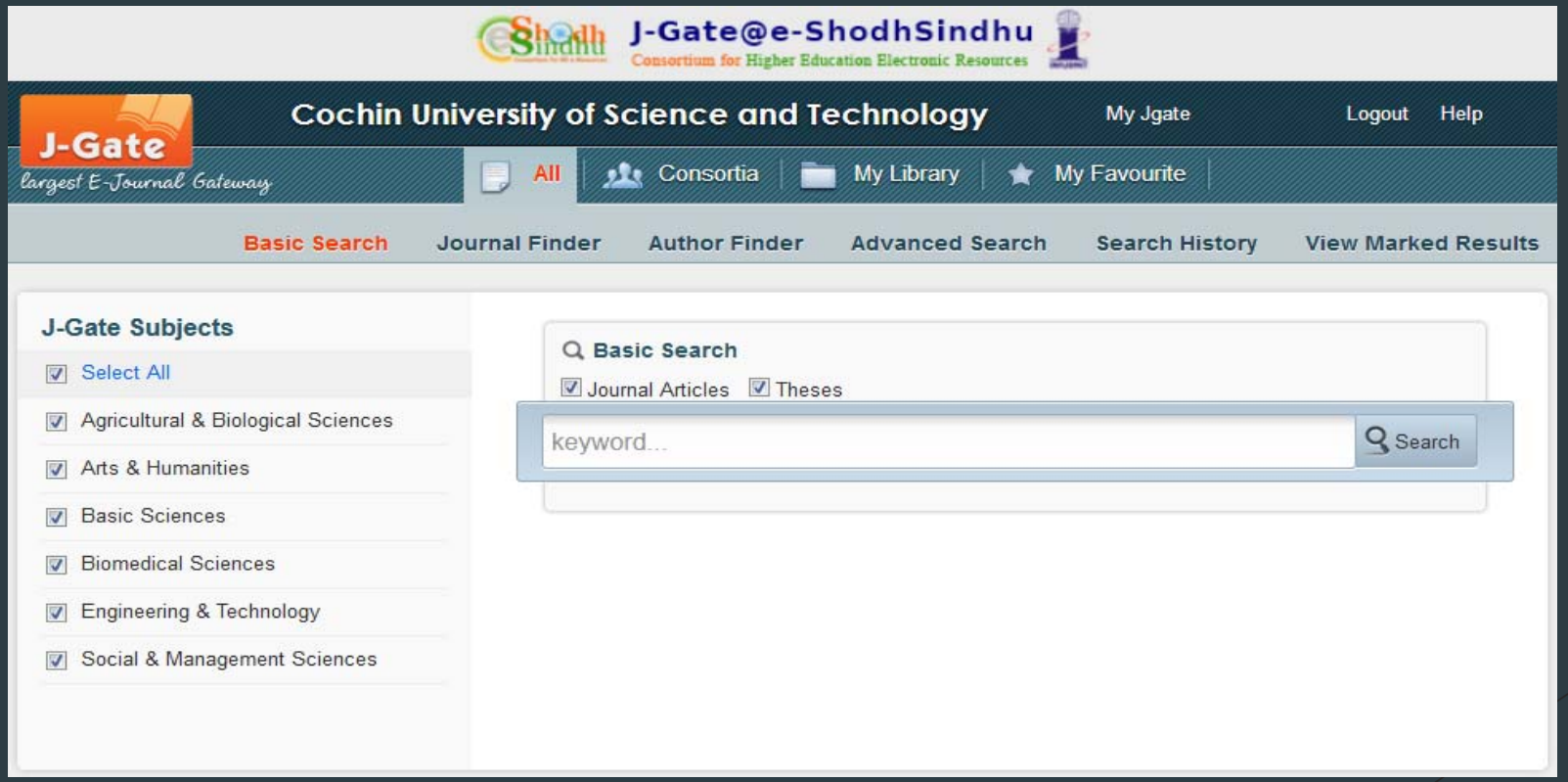
- Setting-up e-ShodhSindu: Consortia for Higher Education E-Resources by augmenting and strengthening activities and services offered by three MHRD-funded Consortia;
- Develop an extensive collection of e-journals, e-journal archives and e-books on perpetual access basis.
- Monitor and promote usage of e-resources in member universities, colleges and technical institutions in India through awareness and training programmes;
- Provide access to subscription-based scholarly information (e-books and e-journals) to all educational institutions.
- Bridge the digital divide and move towards an information-rich society.
- Provide access to selected e-resources to additional institutions including open universities and MHRD-funded institutions that are not covered under existing consortia.
- Take-up additional activities and services that require a collaborative platform and are not being performed by existing consortia.
- Move towards developing a National Electronic Library with electronic journals and electronic books as its major building blocks.

Cutsomization of J-Gate for e-ShodhSindhu

- J-Gate offered customization to the above three consortia through “e-ShodhSindhu” by creating a union catalogue of the journal holdings of the libraries coming under the consortium, thereby providing users with the ability to get benefit of inter-library-lending and document delivery.
- Four discovery layers were created for end users coming under e-ShodhSindhu consortium (Arora, Panda, & Rai, 2016).
  - All journals- Provides access to all journals
  - Consortia – It provides access to e-ShodhSindhu consortium subscribed journals
  - My Library Journals – Provides access to journal holdings of individual library
  - My Favorite Journals – provides access to user’s favorite journals that they could customize by themselves.

Four Discovery layers in the consortia product

J-Gate@eSS


J-Gate@e-ShodhSindhu
Consortium for Higher Education Electronic Resources
Cochin University of Science and Technology
My Jgate
Logout
Help
J-Gate
largest E-Journal Gateway
All
Consortia
My Library
My Favourite
Basic Search
Journal Finder
Author Finder
Advanced Search
Search History
View Marked Results
J-Gate Subjects
Select All
Agricultural & Biological Sciences
Arts & Humanities
Basic Sciences
Biomedical Sciences
Engineering & Technology
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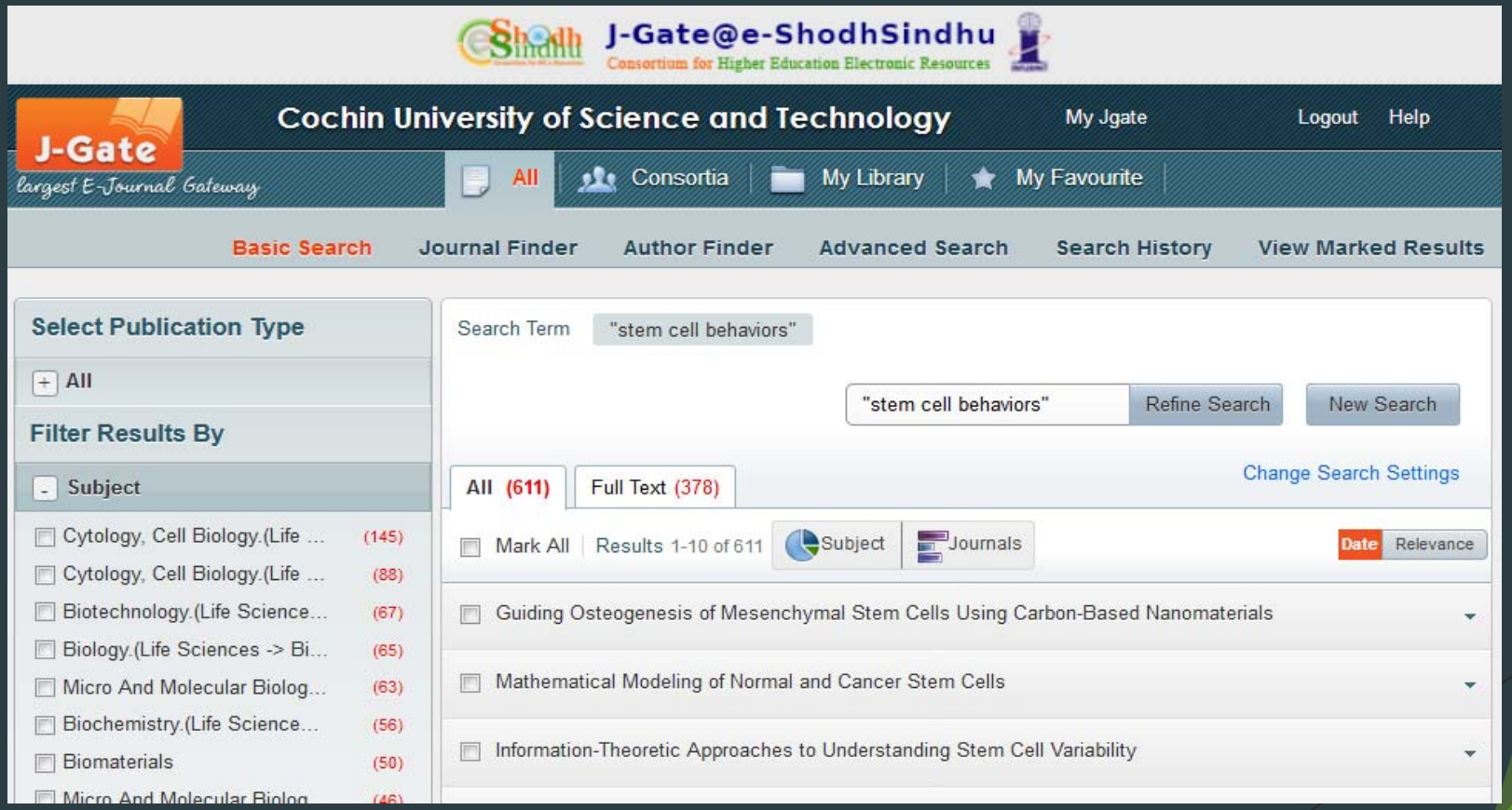

Guiding Osteogenesis of Mesenchymal Stem Cells Using Carbon-Based Nanomaterials

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Source: Nano Convergence ; Vol 4 No 1, Dec 2017 ; PP: 1-14

Type: Journal Article

Abstract: In the field of regenerative medicine, stem cells are highly promising due to their innate ability to generate multiple types of cells that could replace/repair damaged parts of human organs and tissues. It has been reported that both in vitro and in vivo function/survival of stem cells could significantly be improved by utilizing functional materials such as biodegradable polymers, metal composites, nanopatterns and nanohybrid particles. Of various biocompatible materials available for use in stem cell-based therapy and research, carbon-based materials—including fullerenes graphene/graphene oxide and carbon nanotubes—have been found to possess unique physicochemical characteristics that contribute to the effective guidance of stem cell differentiation into specific lineages. In this review, we discuss a number of previous reports that investigated the use of carbon-based materials to control stem cell behavior, with a particular focus on their immense potential to guide the osteogenesis of mesenchymal stem cells (MSCs). We hope that this review will provide information on the full potential of using various carbon-based materials in stem cell-mediated regenerative therapy, particularly for bone regeneration and repair.

What does the SCHOLAR want?

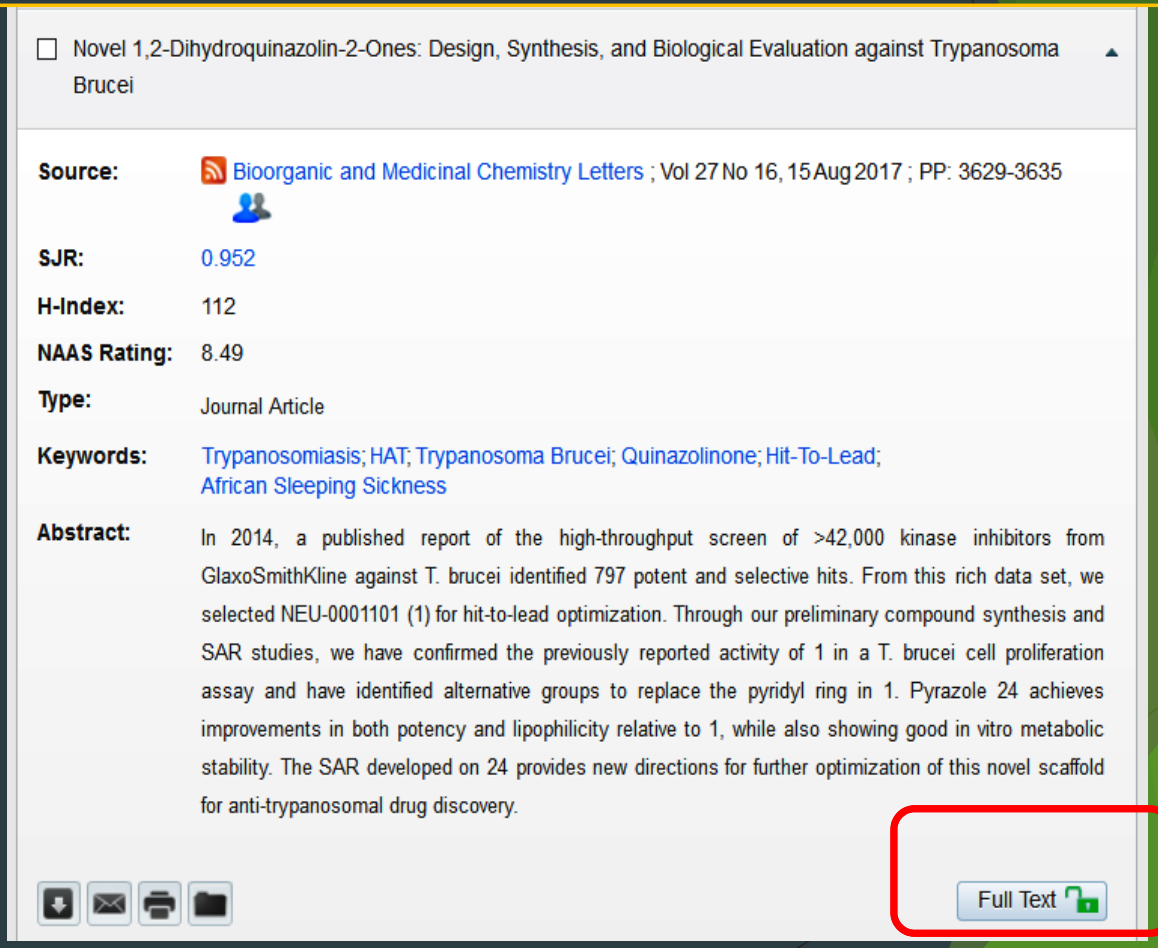
FULL TEXT

How does J-Gate@e-SS Facilitate Scholars in Getting Full Text?

Yes, in FOUR ways!

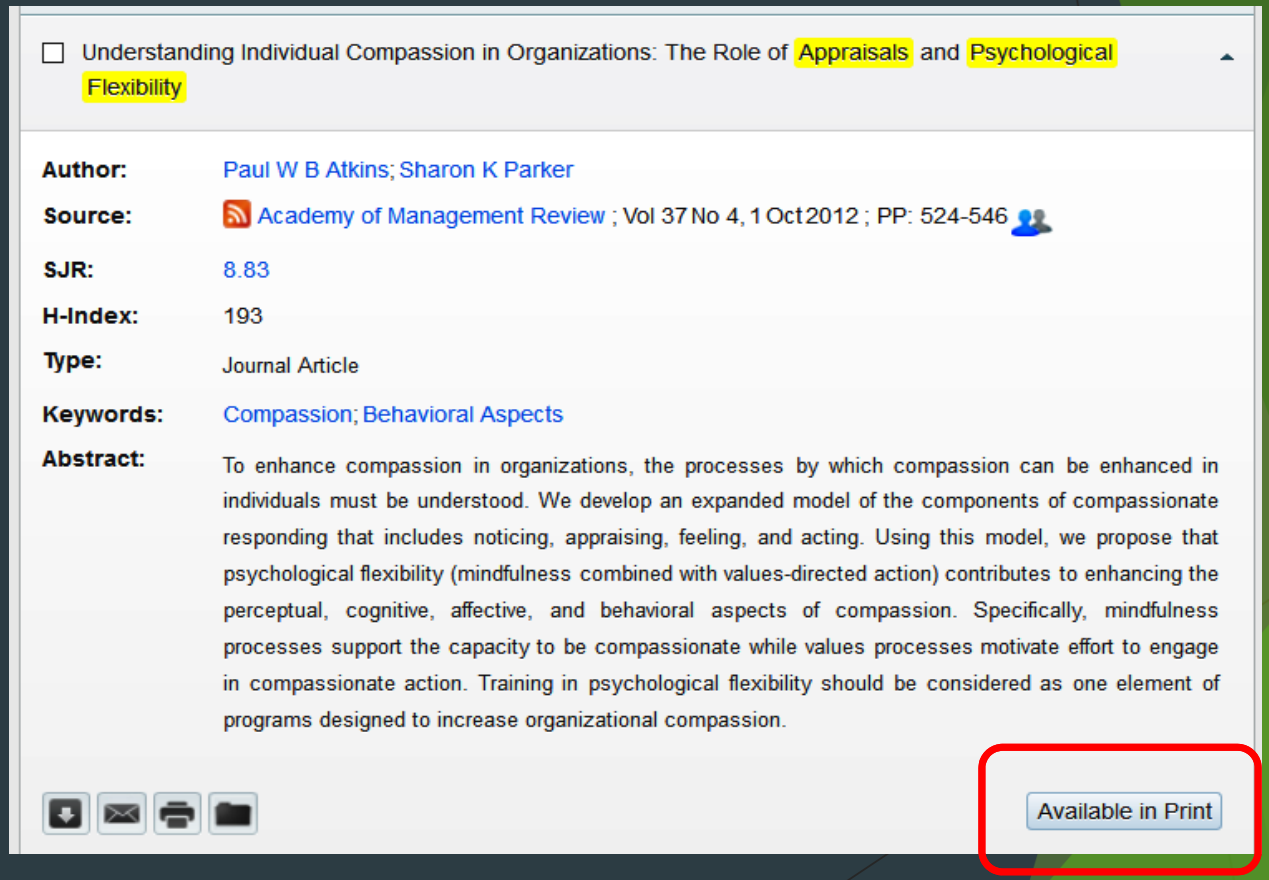
1. Full Text Online

- e-SS Consortium Subscribed Journals.
- Your Library Subscribed Online Journals
- Open Access Journals from J-Gate



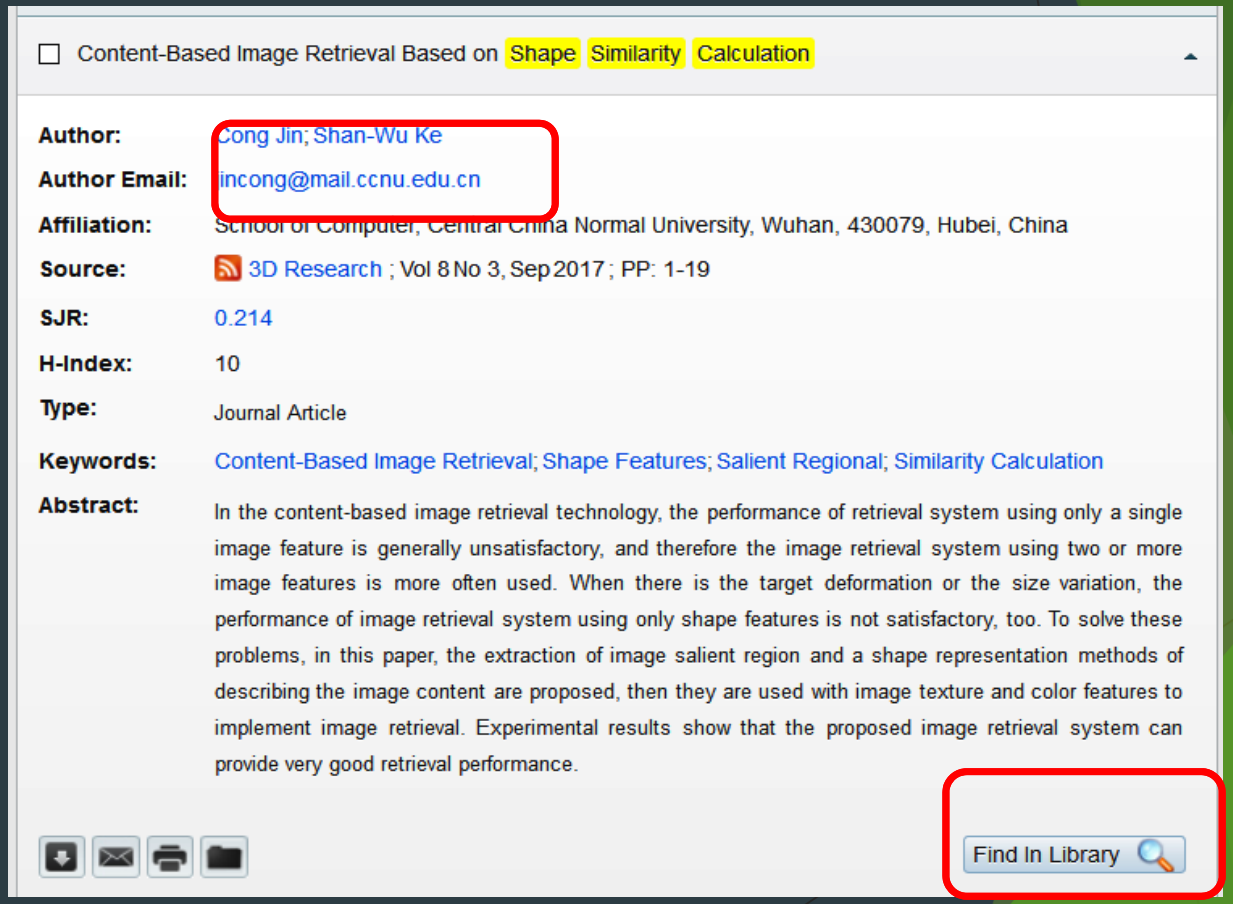
2. Available in Print

Your Library Subscribed Journals in Print



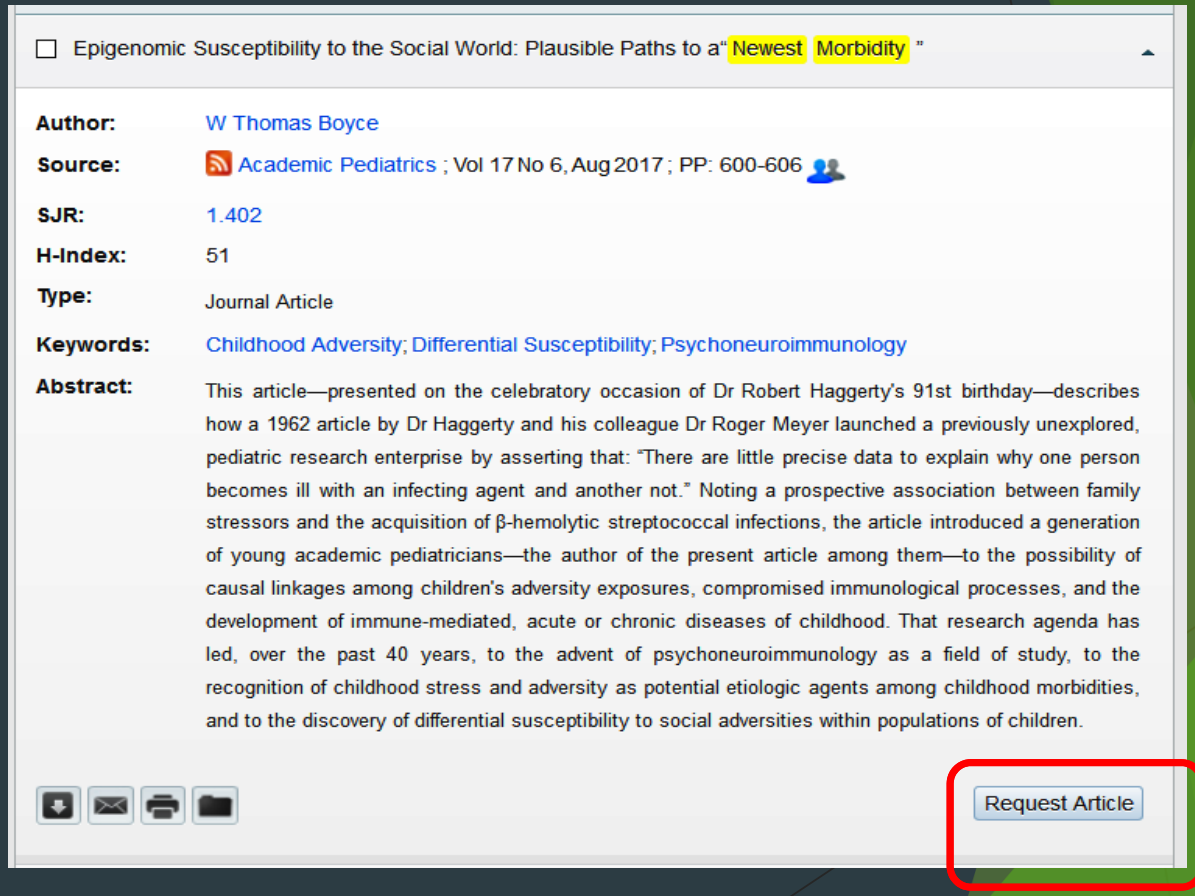
3. Find in a Library/ Request Author

- Contact the Author
- Identify the library where this journal is available and request for document



4. Request Article (Via ILL of J-Gate@e-SS)

Request the article facilitated through J-Gate@e-SS

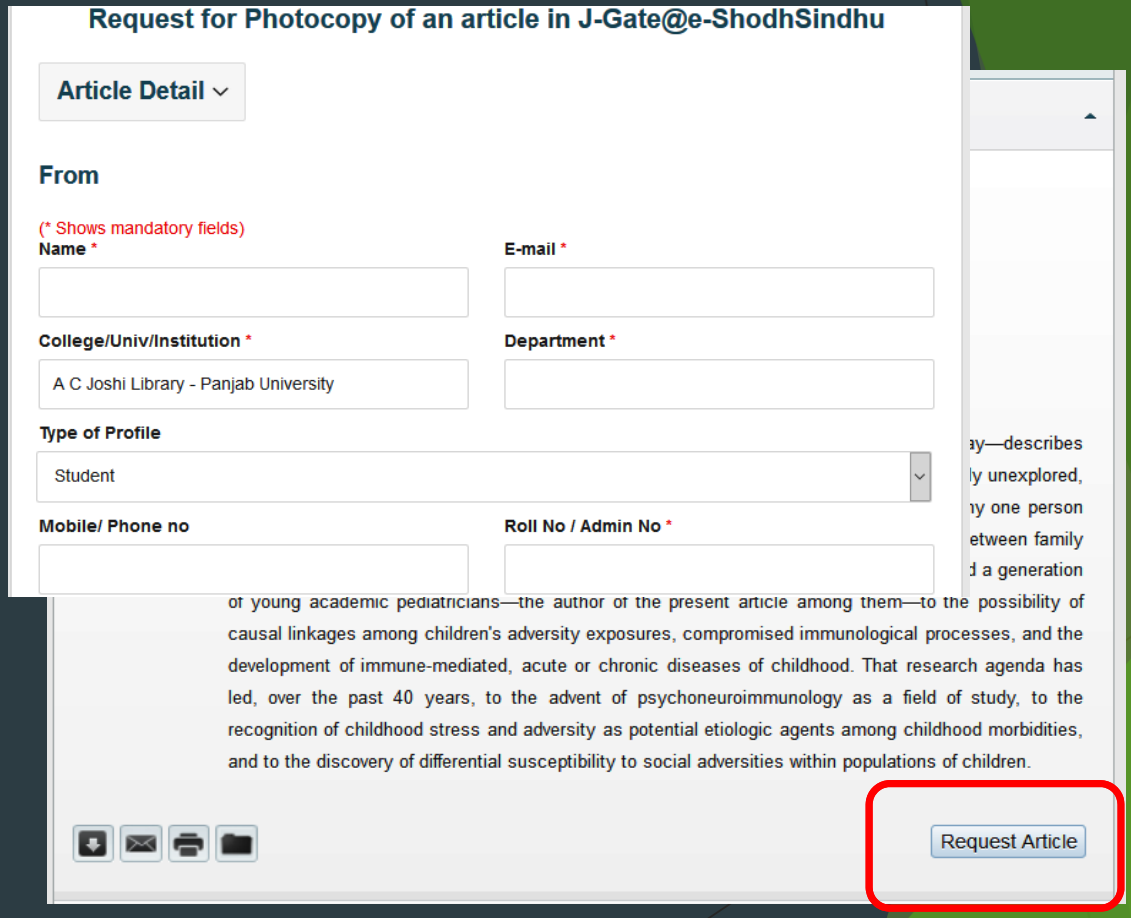


2 Steps Towards your Article

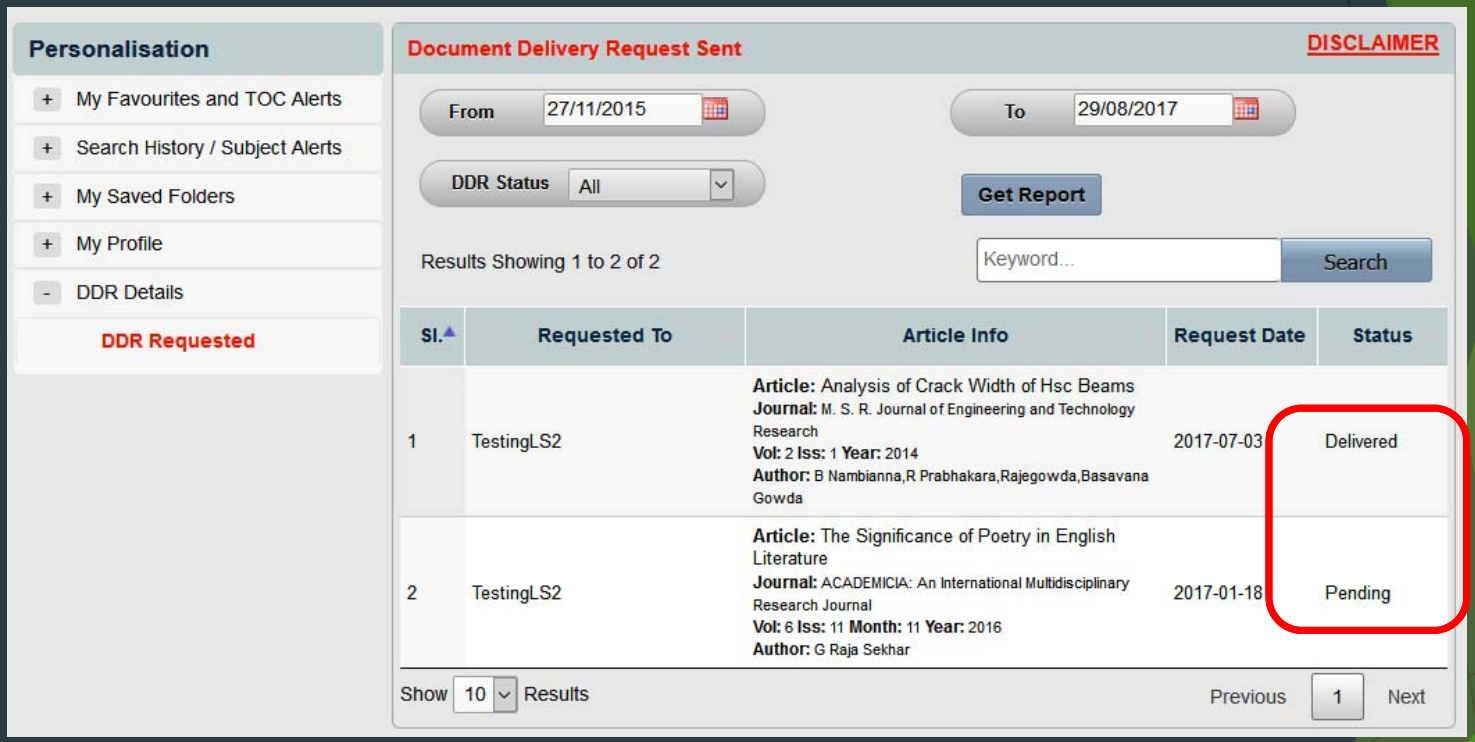
TWO Step Process for ILL Via J-Gate@e-SS?

1. Click on the "Request Article" Button.

2. Fill your contact details in the ILL mail form and send.



Track Status of Your Articles Request



Register for Profile and view the status of your ILL Request

Usage trend of J-Gate via e-ShodhSindhu consortium from year 2013 to 2016

Sl No	Description	2013	2014	2015	2016
1	Searches	122291	447050	356762	484615
2	Full texts/view	36142	129145	132227	151683
3	TOC visit	28439	109575	71890	160051
4	Profiles	199	602	466	599
5	Total Hits	376102	1537011	1415728	1841575

InterLibrary Loan trend in Eshodh sindhu consortium.

S.No	Description	2013	2014	2015	2016
1	Total DDR Received	9839	5192	3877	4475
2	Total DDR fulfilled	7073	3364	2285	2435
3	% Fulfilled	72	65	59	54

Advantages of J-Gate Consortium

- Resource Sharing – avoid duplication, reduce unwanted subscriptions, share what you need.
- Usage Promotion – promotes usage of the all journals under consortium as well as library subscribed.
- Renewal analysis based on usage.
- Cost Sharing with other libraries.
- Better coordination among Libraries.

Conclusion:

- J-Gate offers librarians and users access to more than 48000+ e-Journals through one single platform, which is probably not comparable to any other resource.
- The ability to provide access to more than 23,000+ open access journals under one platform is also a huge benefit to the organizations/institutions, librarians, users and researchers.
- J-Gate simplifies the ability to identify by the availability of the full-text document immediately for the user by providing various methods or features as seen in the case study above.
- The inter-library lending feature that can be implemented as a customizable feature is a very useful tool for the Libraries/Institutions.
- Though there is a cost involved in procuring the J-Gate for a library/institution, librarians may certainly want to consider this resource since it provides many benefits.

Thank You!

Shukran