

Take a break, take a walk!

BOTANICAL GARDENS

Have you ever been to the “Botanical Gardens”? This pristine forest is open to the public. As it remains untouched forest, it is designated as a Natural Monument “AOBAYAMA”. It’s too spacious to feel crowded by other people’s presence, and gives you an optimum time for thinking reflectively in the garden. Tohoku University’s ID Holders are admitted free! Open Vernal Equinox Day to November 30. CLOSED on MONDAY.



<http://www.biology.tohoku.ac.jp/garden/>

Tohoku University Museum: Museum of Natural History

The round building at the top of Aobayama-Hill is the “Tohoku University Museum (Museum of Natural History)”. There are exhibitions of ammonites and dinosaur fossils, and mineral ore samples. They also hold collections of “Tibetan Buddhism”, “Japanese archeology”, “history of Metals” and “herbarium specimens”.

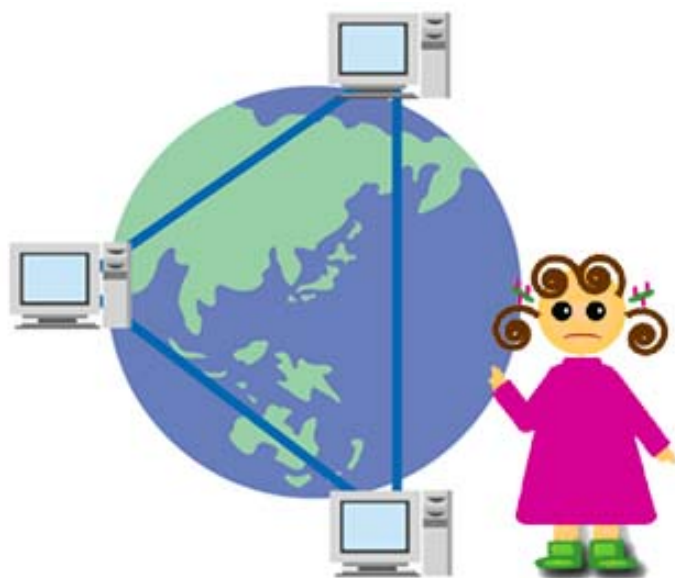
Don’t you want to think about “Evolution of Earth and Life” outside of your laboratory?

Tohoku University’s ID Holders are admitted free! CLOSED on MONDAY.



<http://www.museum.tohoku.ac.jp/index.html>

Part II Information Research in Natural Science –E-Journal and Database

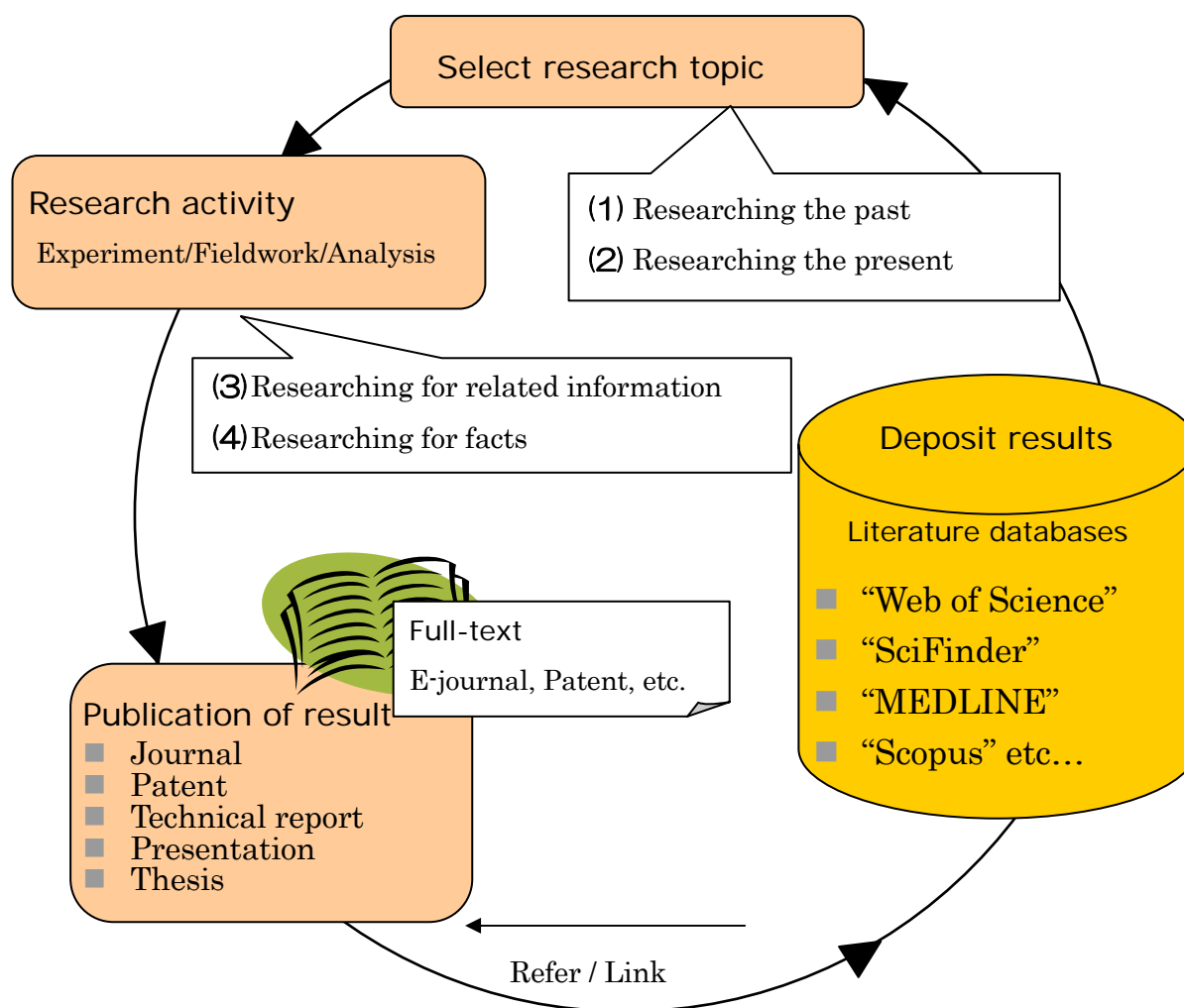


1 Flow of Research Activity and Information Research

In natural science study, it's especially important to use the results of research in related fields. The results of past and present research is used in every research step.

It's essential to search for such material from reliable resources. For example, academic journals which have high standards in each research field are one such resource.

In the case of databases, choose one that is produced by an academic institution or society. To get the information which you need, knowledge of research activity flow, the kind of information research, and the features of each resource are all necessary.



As the figure on the previous page shows, the cycle of research activity starts with referring to previous research, then stacking the results in databases, so that other researchers can refer to them for new research.

(1) Researching the Past

To choose the theme, let's begin by browsing current journals or reviews.

When you have chosen a theme, it's necessary to search for results about what has been written on the topic in the past, and gather as much information as possible.

(2) Researching the Present

By checking current journals, or searching databases, you can confirm the situation of the topic in current research. It's necessary to research current activity, because new papers are produced every day!

(3) Researching for Related Information

When you want to make sure of the facts, you should confirm them with related papers. You will find these in some databases, or in reference lists.

For example, "Web of Science" has a function that allows you to reach related papers using citing/cited information.

(4) Researching for Facts

You may need factual data, for instance, calculated/analyzed data about the nature of materials. You will find this in the recent database. However there is traditional printed matter, too.

Research results are published as journal papers, then database vendors or publishers gather them and put them into their databases. Recently, as soon as new research is published in printed form, the electronic version becomes available.

2 Tohoku University “Online Catalog(OPAC)”

Items	Information
Creator	Tohoku University Library
Coverage	<ul style="list-style-type: none"> ■ Books 1.7 million (approximately), Serials 60,000 titles (approximately) in Tohoku University (all campuses) ■ Books and Serials held in other domestic university libraries (by checking box)
URL	http://www.library.tohoku.ac.jp/opac/expert-query-e
How to Use	Available from any place
more	<p>Using “MyLibrary”, you will find links to other services (university members only) .</p> <p>E-journals linked from OPAC are available from computers inside the campus.</p>

Top page of advanced search

Online Catalog
東北大学附属図書館オンライン目録

MyLibrary
TOHOKU UNIV. LIBRARY

New Book Information

Return to TOP PAGE

Japanese Version

☒ Inside the Univ.
☐ Outside the Univ. (Union Catalog)

The object of reference

☐ Books
☐ Japanese books
☐ Foreign books
☐ Journals
☐ Japanese journals
☐ Foreign journals

Location:

(all)
Kawauchi Campus
-MainLIB
-AL
-EDCU

Any (Keyword) [v]
AND [v]
Author [v]
AND [v]
Publisher [v]
Year Published: [] - []
Country: (all) [v]
Language: (all) [v]
Subject: ALL [v]
Data type: (all) [v]
Sort: Title [v] Display: 20 [v] item per page

Search Clear KeyBoard Basic Search HELP

http://www.library.tohoku.ac.jp/opac/expart-query?mode=2&key=

2.1 How to Input Keywords

2.1.1 Search by Bibliography or Key Words

- <bibliographies>

Input title, author, etc. as it is.

e.g. “the chrysanthemum and the sword”

- <key words>

Input keywords.

e.g. “chrysanthemum sword”

This is Boolean “AND” search.

“electronic circuit” is better than the compound noun
“electroniccircuit” for producing a larger number of results.

2.1.2 Chinese letters, Em-/En-size, etc.

- If you do not know key words in *Kanji* (Chinese letters), input them in *Hiragana*, *Katakana* (Japanese letters) or *Romaji* (Roman letters).
e.g. If you do not know “漱石”, input “そうせき” or “ソウセキ” or “soseki”.

- Distinction of Em-size or En-size is not necessary.

e.g. “P l a t o” “Plato”

“C D – R O M” “CD-ROM”

- The distinction of capital letters or small letters is not necessary, either.

e.g. “INFORMATION” “Information” “information”

2.1.3 Truncation

Use * (asterisk) for Right Hand Truncation.

e.g. “jour*” “app*” “phys*”

→You will find “Journal of applied physics” and so on.

“sociolo*”

→You will find “sociology” “sociologist” “sociological” and so on.

2.1.4 Others

- Spelling signs (e.g. an umlaut sign“ ”) and accent signs (e.g.“ ’ ”or“ ^ ”) are not necessary.

e.g. “wörterbuch”→ “worterbuch”

- Papers are not searchable.

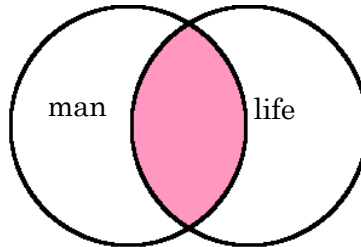
The Online Catalog is a tool to find books and journals. To find a paper, you need to know which journal contains it.



2.1.5 Logical Operation("Advanced Search")

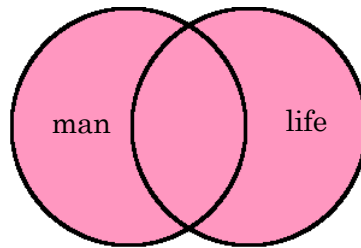
(1) AND Search

Retrieval of the records that include both "man" and "life".



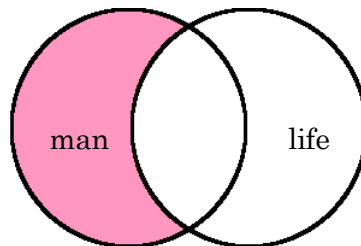
(2) OR Search

Retrieval of the records that include either "man" or "life".



(3) NOT Search

Retrieval of the records that include "man" negating "life".



- ◎If you get too many results:
 - Try AND Search
- ◎If you do not find the material you want:
 - Input other words with space
 - Try Right Hand Truncation
- ◎If you want to get many results:
 - Try OR Search

2.2 Detailed Information on Books

Classical mechanics / Herbert Goldstein
(Addison-Wesley series in physics)

Edition: 2nd ed
Publisher: Reading, Mass. : Addison-Wesley
Year: c1980
Size: xiv, 672 p. ; ill. ; 24 cm
Notes: Bibliography: p. 621-630
Includes indexes
Authors: *Goldstein, Herbert, 1922-
Subjects: PRECIS: [Mechanics](#)
LCSH: [Mechanics](#)
Classification: LCC [QC123.2](#)
DC19: [331](#)
Language: English
Codes: CODE=20131025 NCID=BA00434784
Webcat Plus

Back Top Loan/Copy request

Volume	Location	Call No.	Barcode No.	Condition	Comments	ISBN	Restriction
	LIB-Gakuetstu	MC71/51	00950192473	Missing		0201029189	
	LIB-Stacks	MC71/22	01810617501				
	KITALIB-Open	MC71/137	02021000045			0201029693	
	KITALIB-Open	MC71/137	03860045542				
	SCI-ParticleTheory	MC71	02980001813			0201029189	
	ENGLIB	423.1/23	03900026526			0201029189	
	ENG-AppliedParticleBeam	423.1/23	03930021067	Missing		0201029189	

Back

ページが表示されました

Information on bibliographies (title, author, etc.)

Information on location

- Items and contained information

Items	Information
Vol.	volume (ex. vol.1, vol.2), part(ex. the first part, the second part)
Location	where the material is located
Call No.	the number labeled on the back cover
Barcode No.	ID number of the book
Condition	the status of “on loan” or “missing”



- Make a note of the “Location” and “Call No.” to find the book you want. If you need to ask a library staff, Barcode Number (ID number) is helpful.

2.3 Detailed Information on Journals

2.3.1 Display of Locations

e.g. “American journal of botany”

American journal of botany / Botanical Society of America

Volumes(year) Vol. 1 (Jan. 1914)-
Publisher Lancaster
Size v. : ill. ; 28 cm
Other titles KT:American journal of botany
AB:Am. j. bot
Notes Frequency: Monthly
The Official publication of the Botanical Society of America, Inc.
Has supplement: Membership directory and handbook, <1990->
Authors [Botanical Society of America](#)
Subjects LCSH:Botany -- Periodicals
Language English
Codes CODE=30011866 ISSN=00029122 NCID=AA0004840X
URL1 [電子ジャーナル情報](#) [学内限定]
URL2 [E-Journal Information](#) [on-campus only]

Webcat Plus

[Back](#) [Top](#) [Copy request](#)

Volumes (All Volumes)	Year	Location	Call No.	Comment
38-57,60-69	1951-1982	FARM		
28(1-4),45-74,75(1-3,5-12),76-85	1941-1998	GSLs-LibKatahira(NC)		
1-94	1914-2007	KITALIB		4115-1(3F開架)
16-95+	1929-2008	AGRLIB		

Current issues **Back number** **Call number**

AGRLIB	AGRLIB	
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[Back](#)

Information on bibliographies

Information on location

Link to detailed location of non-bindings

Link to detailed location of bindings

- Items and information contained

Items	Information
Volumes	<ul style="list-style-type: none"> • which volumes are held e.g. “1,21-41” means “vol.1 and vol.21-41 are held” e.g. “1-20,21(1-4,6-12),22-41+” ()are issues. In this case, 21(5) is not held. “+”at the end means acquisition is continued. • Volumes and issues is a link to the detailed information on where the bindings are. • “All volumes” is a link to the detailed information on all of the bindings in our university.
Year	The range of years of volumes held
Location	Where the material is located. Detailed information is available for each page
Current issues	<ul style="list-style-type: none"> • Where the non-bindings are located This is the link to the detailed information on where the non-bindings are.
Back Number	Where the bindings are.

2.3.2 Detailed Location of Bindings

https://www.library.tohoku.ac.jp - Tohoku Univ. Library Online Catalog - Microsoft Internet Explorer

American journal of botany / Botanical Society of America

Volumes(year) Vol. 1 (Jan. 1914)-
 Publisher Lancaster
 Size v. : ill. ; 28 cm
 Other titles KT:American journal of botany
 AB:Am. j. bot
 Notes Frequency: Monthly
 The Official publication of the Botanical Society of America, Inc.
 Has supplement: Membership directory and handbook, <1990->
 Authors [Botanical Society of America](#)
 Subjects LCSH [Botany -- Periodicals](#)
 Language English
 Codes CODE=30011866 ISSN=00029122 NCID=AA0004840X
 URL1 [電子ジャーナル情報](#) [学内限定]
 URL2 [E-Journal Information](#) [on-campus only]
 Webcat Plus

Back Top Loan/C

Volumes	Year	Location	Call No.	Barcode No.	Condition	Comment
94(9-12)	2007	AGRLIB-Shumitsu1F		04085000261		
94(5-8)	2007	AGRLIB-Shumitsu1F		04085000253		
94(1-4)	2007	AGRLIB-Shumitsu1F		04085000245		
93(9-12)	2006	AGRLIB-Shumitsu1F		04075002813		
93(5-8)	2006	AGRLIB-Shumitsu1F		04065004929		
93(1-4)	2006	AGRLIB-Shumitsu1F		04065004911		
92(9-12)	2005	AGRLIB		04065000273		
92(5-8)	2005	AGRLIB		04065000265		

ページが表示されました インターネット

You can check:

- Whether the volume you want is held or not
- Where it is located
- Its status (sometimes “on loan” or “missing”)

2.3.3 Detailed Location of Non-bindings

https://www.library.tohoku.ac.jp - Tohoku Univ. Library Online Catalog - Microsoft Internet Explorer

American journal of botany / Botanical Society of America

Volumes(year) Vol. 1 (Jan. 1914)-
 Publisher Lancaster
 Size v. : ill. ; 28 cm
 Other titles KT:American journal of botany
 AB:Am. j. bot
 Notes Frequency: Monthly
 The Official publication of the Botanical Society of America, Inc.
 Has supplement: Membership directory and handbook, <1990->
 Authors [Botanical Society of America](#)
 Subjects LCSH [Botany -- Periodicals](#)
 Language English
 Codes CODE=30011866 ISSN=00029122 NCID=AA0004840X
 URL1 [電子ジャーナル情報](#) [学内限定]
 URL2 [E-Journal Information](#) [on-campus only]
 Webcat Plus

Back Top Loan/ Copy request

Current issues		Back number	Call number	Status	Binding
AGRLIB		AGRLIB		継続	○

Vol.	No.	Whole no.	Part	Comment	Published	Check in	Condition	Barcode No.
95	12			Plant science bull 54(4)	2008.12. 1	2009. 1. 6		
95	11				2008.11. 1	2008.11.26		
95	10				2008.10. 1	2008.11. 7		
95	9			Plant science bull 54(3)	2008. 9. 1	2008.10. 2		
95	8				2008. 8. 1	2008. 8.28		
95	7				2008. 7. 1	2008. 7.14		
95	6			Plant science bull 54(2)	2008. 6. 1	2008. 6.17		

ページが表示されました インターネット

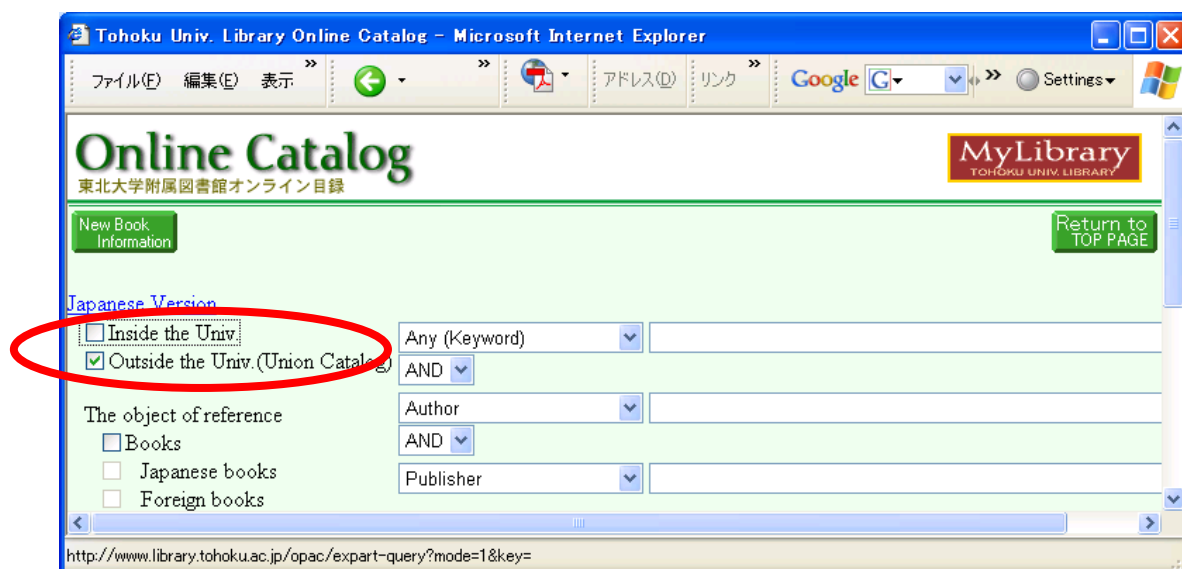
You can confirm:

- The volume is not missing or “On wanting(not delivered issue)”
- The volume is not “On Bind(being rebound)”

2.4 To Search Collections of Other Universities

If you check both “Inside the Univ.” and “Outside the Univ.”, you search both Tohoku University Library and other university libraries. Other universities are searched only when you do not find the material in Tohoku University Library.

- If you want to focus on other universities, remove the check of “Inside the Univ.”.
- There are some limitations on the “Outside the Univ.” search. For example, you cannot narrow the range of years.
- There are some differences between the search results for “Inside the Univ.” and that for “Outside the Univ.”.

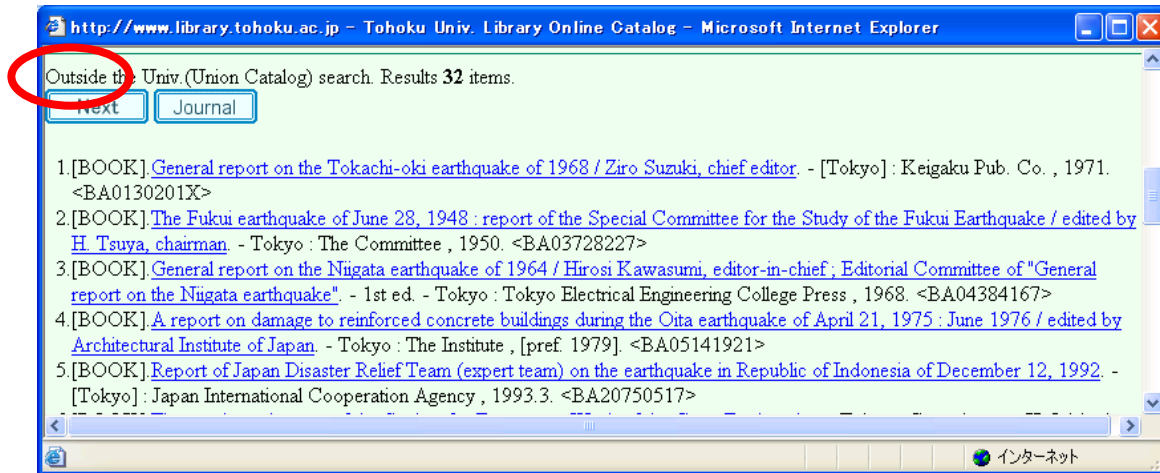


e.g. the search result for “Tokyo earthquake report”

- Results : “Inside the Univ.”



• Results : “Outside the Univ.”

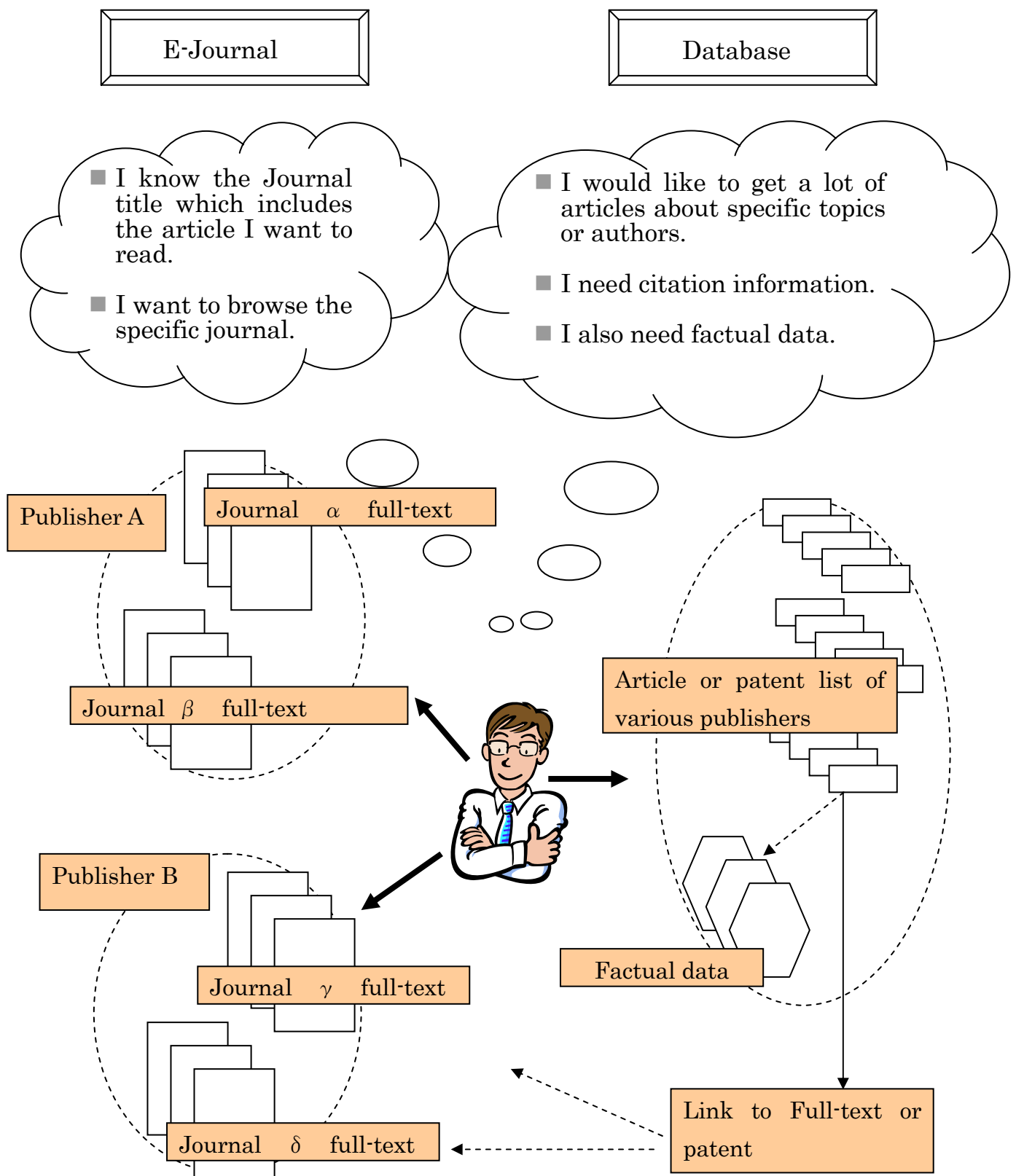


If you click the title of an item in the search result for “Outside the Univ.”, universities that hold the item are displayed in Japanese (sorry!).



3 E-journal

3.1 Database or E-journal?



3.2 Operation

We offer an E-journal list (approximately 8,000 e-journals) on the library website. Choose the journal title that you would like to read, and click it. Academic articles can be downloaded or printed out for research use. There are strict rules governing the use of E-journals. If someone breaks these rules, the publisher will stop subscription all over Tohoku University. Users are prohibited from downloading a large number of papers in a short time, for instance.

e.g. Search for the following article. “Aimo Winkelmann, “Dynamical simulations of zone axis electron channeling patterns...” Ultramicroscopy, vol.98, no.1, 2003, p.1-7”

1) Click “E-journal, E-book list” of Library website



Tohoku University Library website

2) Electronic Journal List of Tohoku University

http://tul.library.tohoku.ac.jp - Tohoku University Library - E-Journals List - Microsoft Internet Explorer

東北大学附属図書館
Tohoku University Library

Home | Contact | Website Map | for Visitor | 日本語

MyLibrary CC ID PW Login HELP

電子ジャーナルリスト E-Journals List

新しくなりました！
まい方の簡単な
解説はこちらです

■雑誌名(アルファベット順)リスト - BROWSE e-journals by title →HELP

A / B / C / D / E / F / G / H / I / J / K / L / M / N / O / P / Q / R / S / T / U / V / W / X / Y / Z / Other

あ / い / う / え / お / か / き / く / け / こ / さ / し / す / せ / そ / た / ち / つ / て / と / な / に / ぬ / ね / の / は / ひ / ふ / へ / ほ / ま / み / む / め / も / や / ゆ / よ / ら / り / ゑ / れ / ろ / わ

■雑誌タイトル/ISSNから検索 - Find e-journals by title or ISSN →HELP

Title contains all words Search

■分野別リスト - BROWSE e-journals by subject →HELP

-- Please select a subject category -- Search

■提供サイト一覧

■How to "Remote access"

■利用上の注意

特定のサイト・特定の雑誌・特定の号で短時間に次々とダウンロードしないで下さい
出版社等から不正行為と見なされ、特定部局や大学全体の利用が停止される場合があります。→ 詳細

■About a Fair Use

Please don't download articles within short intervals
- on a particular site

You can browse electronic journals by title.

You can search electronic journals by journal title or ISSN.

You can browse electronic journals by subject.

* **Notice:** Electronic Journal List system is being improved. Screenshots shown here may differ from the latest release.

3) Enter the journal title or select the journal from title list

http://tul.library.tohoku.ac.jp - Tohoku University Library - E-Journals List - Microsoft Internet Explorer

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H) リンク

東北大学附属図書館
Tohoku University Library

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MyLibrary CC ID PW Login HELP

Site Search (Google) [] Go

mobile site

電子ジャーナルリスト E-Journals List

新しくなりました！
使い方の簡単な
解説はこちらです

■雑誌名(アルファベット順)リスト - BROWSE e-journals by title →HELP

A / B / C / D / E / F / G / H / I / J / K / L / M / N / O / P / Q / R / S / T / U / V / W / X / Y / Z / 0-9 / Other

あ / い / う / え / お / か / き / く / け / こ / さ / し / す / せ / そ / た / ち / て / と / な / に / ぬ / ね / の / は / ひ / ふ / へ / ほ / ま / み / め / も / や / ゆ / よ / ら / り / る / れ / ろ / わ

■雑誌タイトル/ISSNから検索 - Find journals by title or ISSN →HELP

Title contains all words [v] ultramicroscopy Search

■分野別リスト - BROWSE e-journals by subject →HELP

-- Please select a subject category -- Search

■提供サイト一覧

■How to "Remote access"

■利用上の注意

特定のサイト・特定の雑誌・特定の号で短時間に次々とダウンロードしないで下さい
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- on a particular site

Contact
Contact form

Tools
■E-Journals List
■Database&Tool Index
■E-book
EJ&DB info

ESS

01/19 Elsevier ScienceDirect, Scopus
メンテナンスによるシステム停止
11/23-24

01/04 開発IIデジタル複製版(82
和雑誌前期トライアル

>>Past info
(Old HP info)

Trial

ESS

11/09 SpringerMaterials(ランドルト・
ベルンシュタインのオンライン版)トラ
イアルのお知らせ

10/20 化学系データベース「Reaxys
(リアクソス)トライアルと説明会のお
知らせ

>>Past info
(Old HP info)

EJ list(old)

>>Here

4) Reviewing your search results

http://ec2xm3xr4v.search.serialssolutions.com - 東北大学附属図書館 電子ジャーナルリスト - Microsoft Internet Explorer

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H) リンク >>

TOHOKU UNIVERSITY 東北大学附属図書館 Tohoku University Library
電子ジャーナルリスト E-Journals List

TOP HELP E-Books Databases OPAC LibraryHP

0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other
あいうえおかきくけこさしすせそたちつてとなにぬねのはひふへほまみむめもやゆよりるれろわ

Title contains all words [] Search Clear

1 record retrieved for the search: Title contains all words "ultramicroscopy"

Ultramicroscopy (0304-3991)
• 1975 - 2009 --- [Elsevier ScienceDirect](#)

東北大学附属図書館 / Tohoku University Library
Last Updated on 22/01/2010

Link to the journal at the publisher site.

The Fair Use Guidelines for Electronic Journals

1. Only members of Tohoku University accessing from a Tohoku University IP address are authorized to access electronic journals.
2. Electronic journal data may only be downloaded, printed out, or stored for personal use.
3. Large numbers of articles from a single issue must not be downloaded either manually or automatically.
4. Electronic journal data must not be transferred to third parties and altered.
5. Use of software to automatically download large numbers of articles may be regarded as a contract violation regardless of the intention of the user.

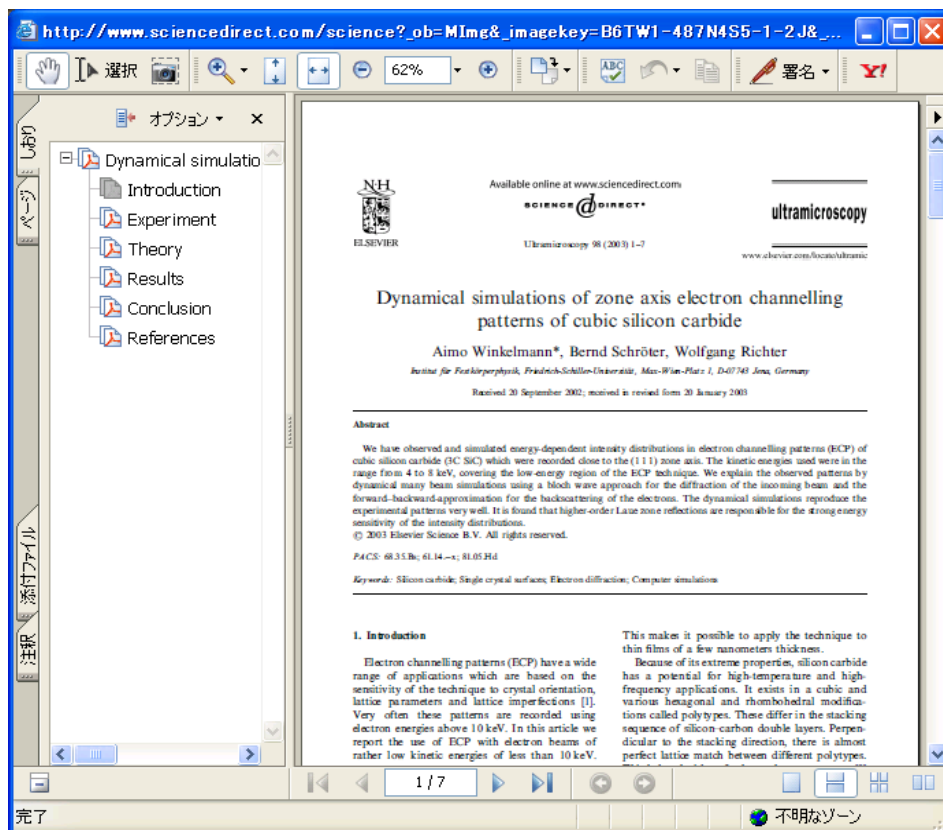
5) Select volume and issue

The screenshot shows the ScienceDirect website for the journal **Ultramicroscopy**. The main content area displays the table of contents for **Volume 100, Issues 3-4, Pages 127-474 (August 2004)**. The left sidebar contains a list of volumes and issues, with **Volume 98, Issue 1** circled in red. The main table of contents lists several articles, including the **IFC (Editorial Board)**, **SPM 2003: Proceedings of the Fifth International Conference on Scanning Probe Microscopy, Sensors and Nanostructures**, **Preface**, **Contents**, **Mapping of enzyme activity by detection of enzymatic products during AFM imaging with integrated SECM-AFM probes**, **Structural diversity of sphingomyelin microdomains**, and **Molecular adsorption: early stage surface exploration**.

6) Click “PDF” to see full-text.

The screenshot shows the ScienceDirect website for the journal **Ultramicroscopy**. The main content area displays the table of contents for **Volume 98, Issue 1, Pages 1-72 (December 2003)**. The left sidebar contains a list of volumes and issues. The main table of contents lists several articles, including the **IFC (Editorial Board)**, **Dynamical simulations of zone axis electron channelling patterns of cubic silicon carbide**, **CBED and LACBED: characterization of antiphase boundaries**, and **Is atomic resolution transmission electron microscopy able to resolve and refine amorphous**. A red circle highlights the **PDF** link for the article **Dynamical simulations of zone axis electron channelling patterns of cubic silicon carbide**.

7) PDF format full-text

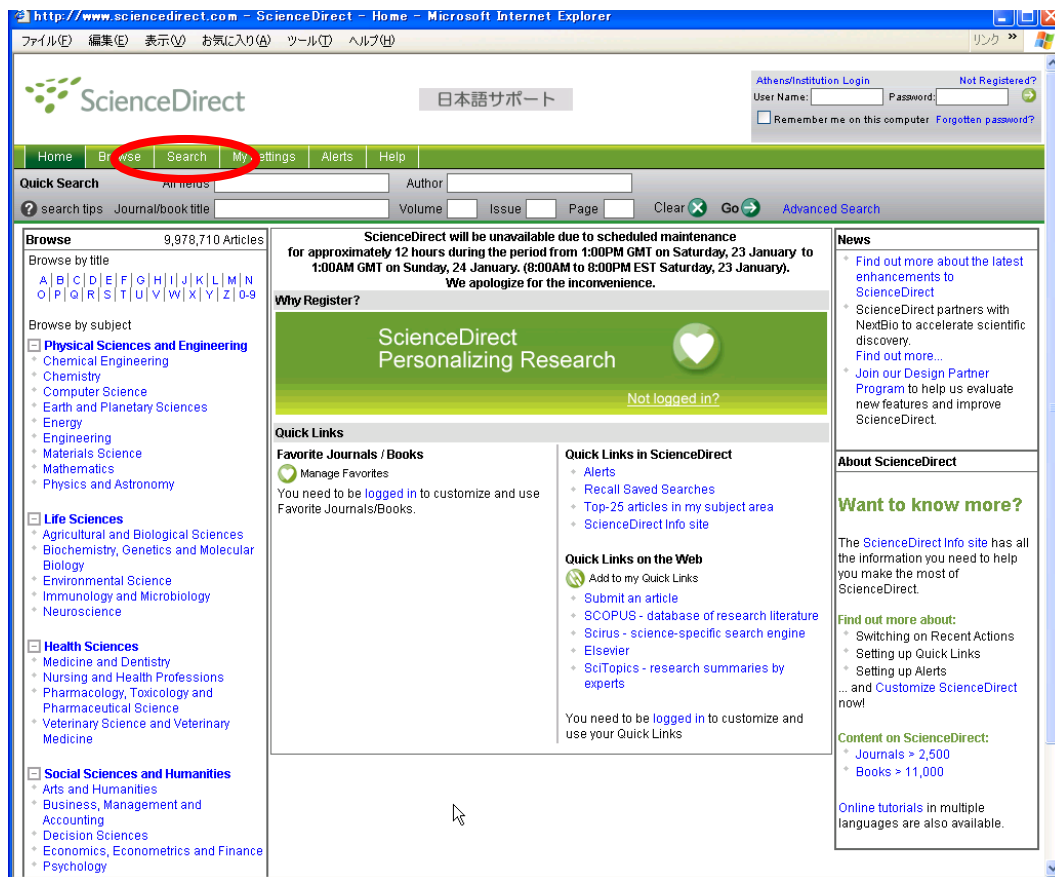


8) HTML format full-text

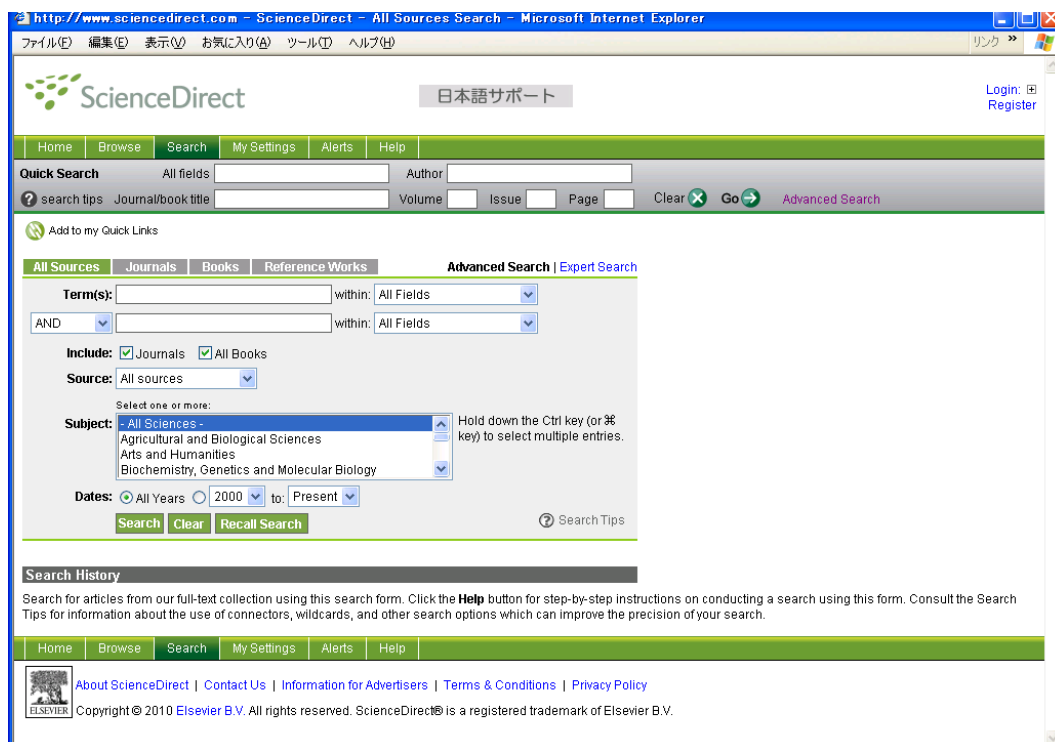


3.2.1 Search Articles at Publisher's Websites

1) For example, let's search for articles using "ScienceDirect".

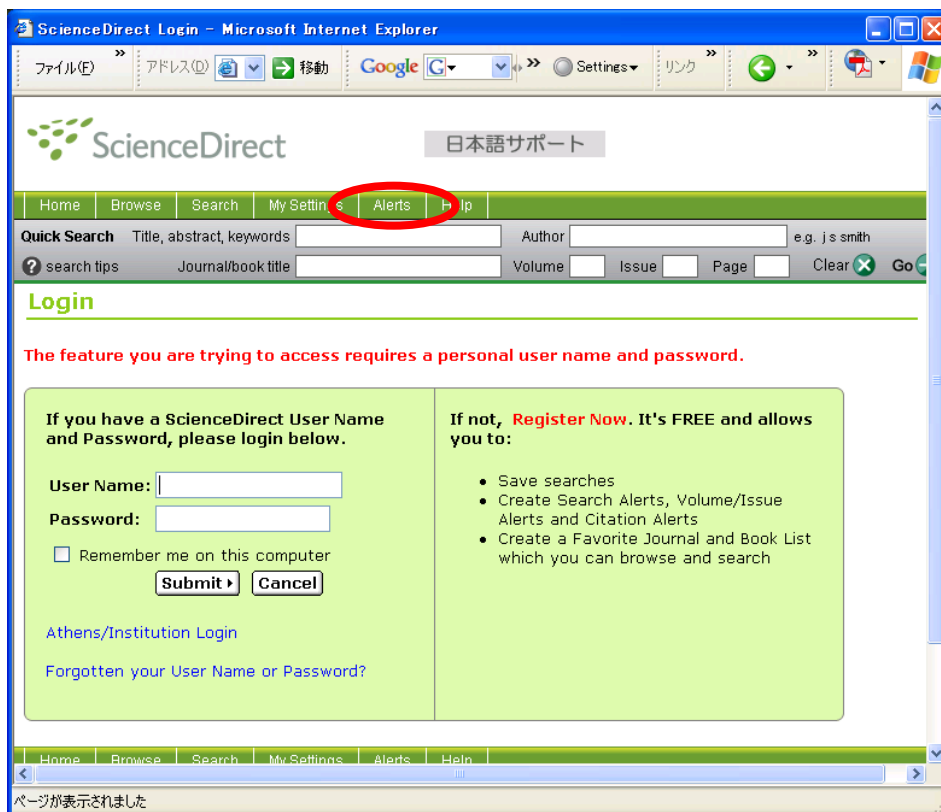


2) You can search by title, keyword, author and so on.



3.2.2 Contents Alert

1) Many online journal websites offer a “Contents Alert” function.



2) Set an alert according to your needs.

