REUTERS/Fayaz Kabli

WEB OF KNOWLEGDE: ВАШ ПУТЕВОДИТЕЛЬ ПО МИРУ ИССЛЕДОВАНИЙ

Малгожата Красовска, Менеджер по развитию бизнеса

Кшиштоф Шиманski, Региональный менедже

Киев, Украина, 05/2011

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ISI Web of KNOWLEDGE
Transforming Research

WOK: Преимущества и использование данных

- Содержание ISI Web of Knowledge
- Содержание Индекса Цитирования **Web of Science**: история создания базы данных
- Выбор журналов в **Web of Science**
- Преимущества Web of Science, алгоритмы и усовершенствования поиска
- Как использовать информацию для оценки эффективности и качества научных исследований
- **Journal Citation Reports** and ИМПАКТ ФАКТОР

ISI WEB OF KNOWLEDGE И ISI *WEB OF SCIENCE*

ISI Web of KNOWLEDGE
Transforming Research

ISI Web of Knowledge: основная платформа для научных исследований
Платформа включает в себя:

- ***Web of Science*** (с трудами конференций)
- ***Journal Citation Reports***
- а также базы данных: **ДИИ, БИОСИС, МЕДЛИЯН, Zoological Records и другие**

ISI Web of Knowledge

- 20 миллионов индивидуальных пользователей
- 150,000 пользователей каждый день
- > 3,800 институций
- 23,341 журналов (05.2011)
- > 90 миллионов записей

Встроенные ресурсы Web:

- ***EndNote Web***
- ***ResearcherID***

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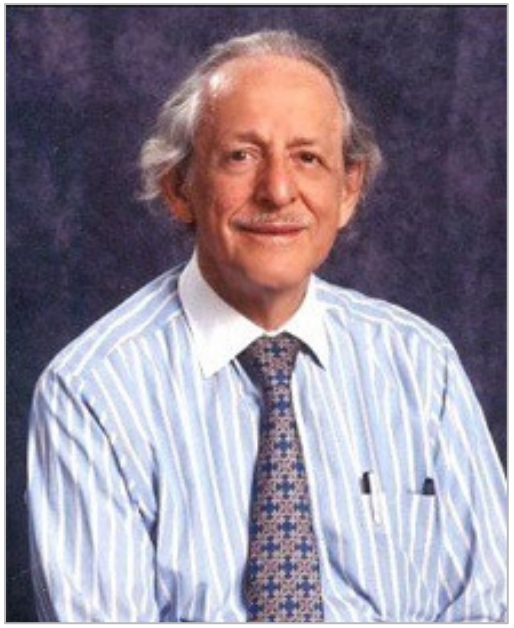
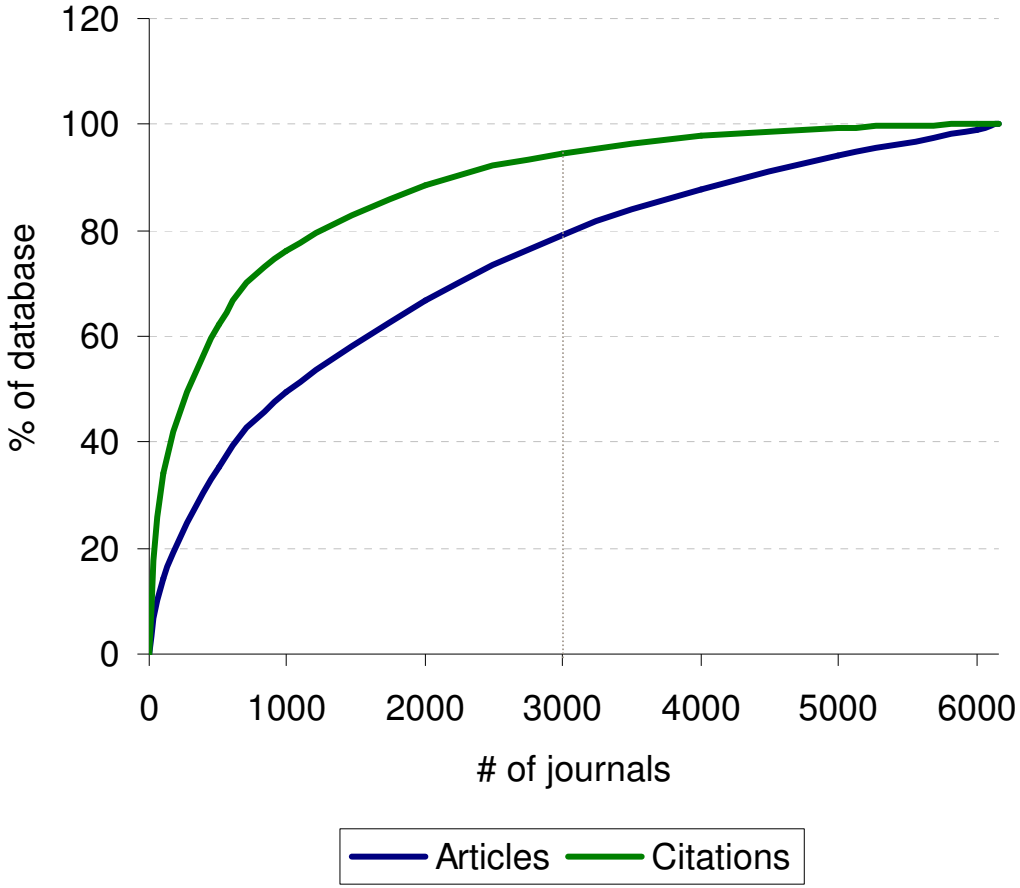
WEB OF SCIENCE: КРАТКАЯ ИСТОРИЯ ИНДЕКСА ЦИТИРОВАНИЯ

- Концепция впервые предложена Ю. Гарфилдом
  - *Science,* 1955
- The *Science Citation Index (*1964)
  - Печатный SCI (1960-е)
  - Поиск в сети - SciSearch в 1970
  - На компакт-дисках 1980х
  - Веб-интерфейс (1997) *Web of Science*
- Расширяющийся контент:
  - Social Sciences Citation Index (SSCI)
  - Arts & Humanities Citation Index (AHCI)



- Индекс цитирования
  - Изначально применялся для получения научной информации
  - В последствии для оценки результатов исследований

Относительно небольшая группа журналов публикует абсолютное большинство *значимых научных результатов*



Всего 3000 журналов покрывает 80% статей…

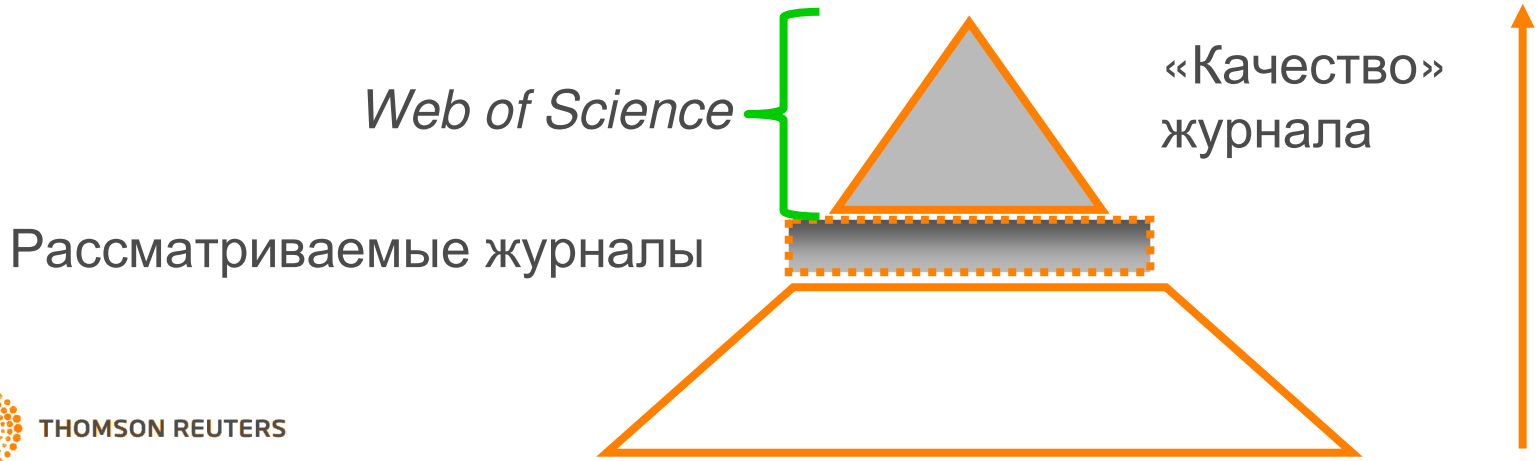
…но, что ещё более важно – 92% того, что цитируется

В 7,621 журнале опубликовано 814,967 статей, получивших 20,834,641 ссылок

4% журналов	(300) публикуют	**30% статей**	(239,206)
4% журналов	(300) получают	**51% ссылок**	(10,681,596)

ПРОЦЕСС ОТБОРА ЖУРНАЛОВ В *WEB OF SCIENCE*

- Ежегодно рассматривается ~2000 журналов
  - 10-12% включаются в индекс
- Эксперты Thomson Reuters
  - Профессионалы информационных наук
  - Библиотекари
  - Эксперты в конкретной предметной области



Журналы в WEB OF SCIENCE - наиболее влиятельные издания со всего мира

Регион мира	Кол-во журналов из региона в WOS
# Журналов (март '11)	11,955 (SCIE-8275, SSCI-2850, AHCI-1597)
Европа	6388 53% (SCIE-4199, SSCI-1307,AHCI-882)
Северная Америка	4,200+ 35%
Азия-Тихий Океан	940+ 9%
Латинская Америка	272 2%
Ближний Восток/ Африка	200 1%

Яэыки	Кол-во журналов в Web of Science
Английский	81%
Другие	19%

Для чего нужен Web of Science?

- Тематическое информирование
- Справочно-библиографическое обслуживание
- Поисковый интерфейс для пользователей любого уровня (ученые, аспиранты, студенты)
- Аналитические инструменты - библиометрические исследования
- Times Higher Education Ranking www.timeshighereducation.co.uk
- ARWU ranking www.arwu.org

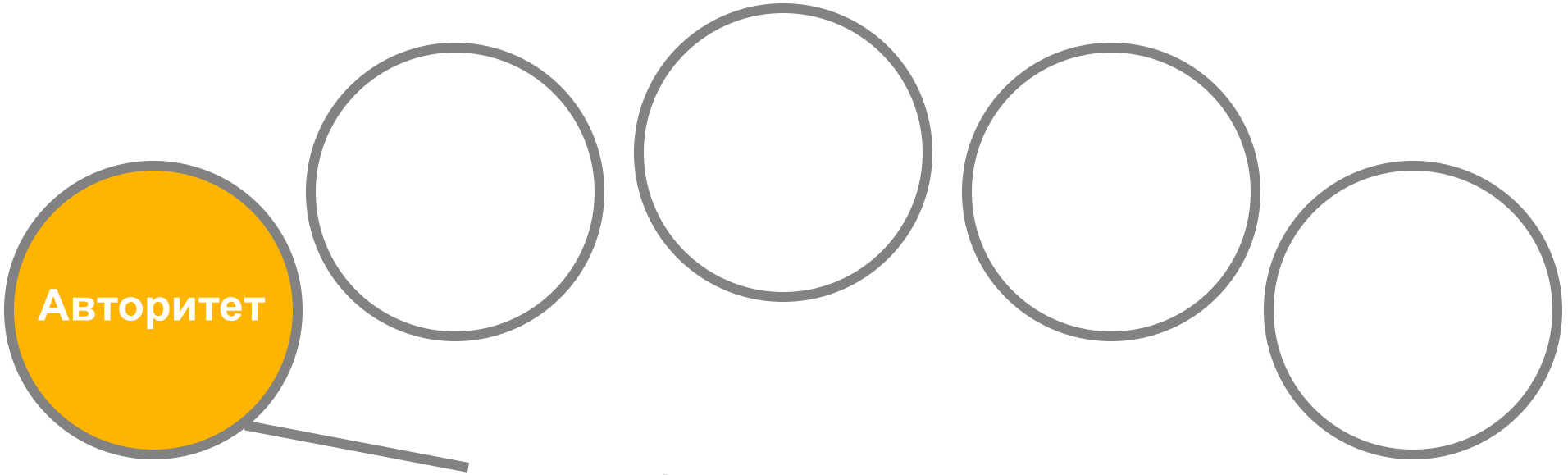
ISI WEB OF SCIENCE- ГЛОБАЛЬНЫЙ МАСШТАБ СЕГОДНЯ: >4,000 КЛИЕНТОВ В 91 СТРАНЕ

Подробнее о ISI Web of Science:

- 20 миллионов индивидуальных пользователей
  - -150,000 пользователей ежедневно
- 4000+ институциональных пользователей по всему миру

> 11,900+ журналов > 47+ миллионов записей > 750+ миллионов ссылок

WEB OF SCIENCE – ОСНОВНЫЕ ПРЕИМУЩЕСТВА



Авторизированный отбор содержания

- специалисты Thomson Reuters оценивают журналы чтобы убедиться, что содержание авторитетно и надежно
- Thomson Reuters проводит независимую оценку журналов всех видов. Оценивание:
  - Журналы коммерческих издательств
  - Журналы академического сообщества
  - Журналы открытого доступа (Open Access)
  - Электронные журналы (е-журналы)

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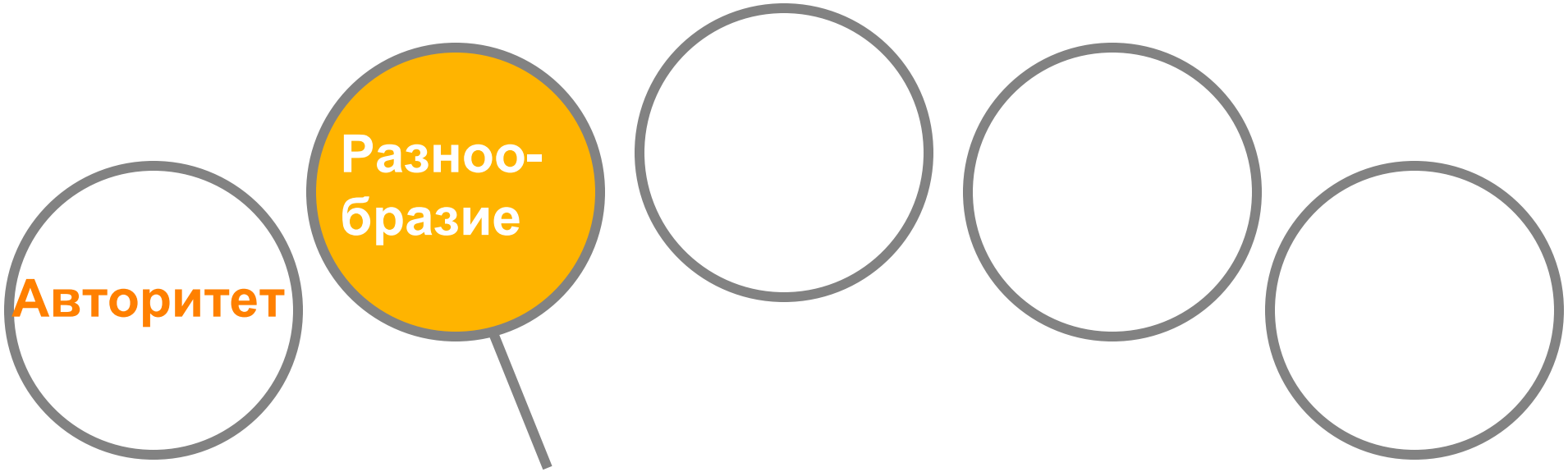
WEB OF SCIENCE – ОСНОВНЫЕ ПРЕИМУЩЕСТВА



По-настоящему многодисциплинарная база:

- тщательно отобранные журналы по всем научным областям
- **11, 927 журналов в 250** отдельных категориях (04.2011)
- **Более 12 000** конференций ежегодно (120 000 уже в индексе)
- > ***46 миллионов*** уникальных записей (самая большая база цитат)

Вы можете получить полное представление о какой-либо конкретной теме исследования

WEB OF SCIENCE – ОСНОВНЫЕ ПРЕИМУЩЕСТВА

- Огромный архив важных исследований: 110 лет науки
- Все документы были проиндексированы Thomson Reuters

- Данные с высокой точностью и с минимумом недостатков, важные для анализа трендов, точного расчета метрик исследований в оценке данной области
- Все журналы индексированны **от корки до корки**
- Каждый элемент получает уникальную метку (record)
- Поиск доступных материалов

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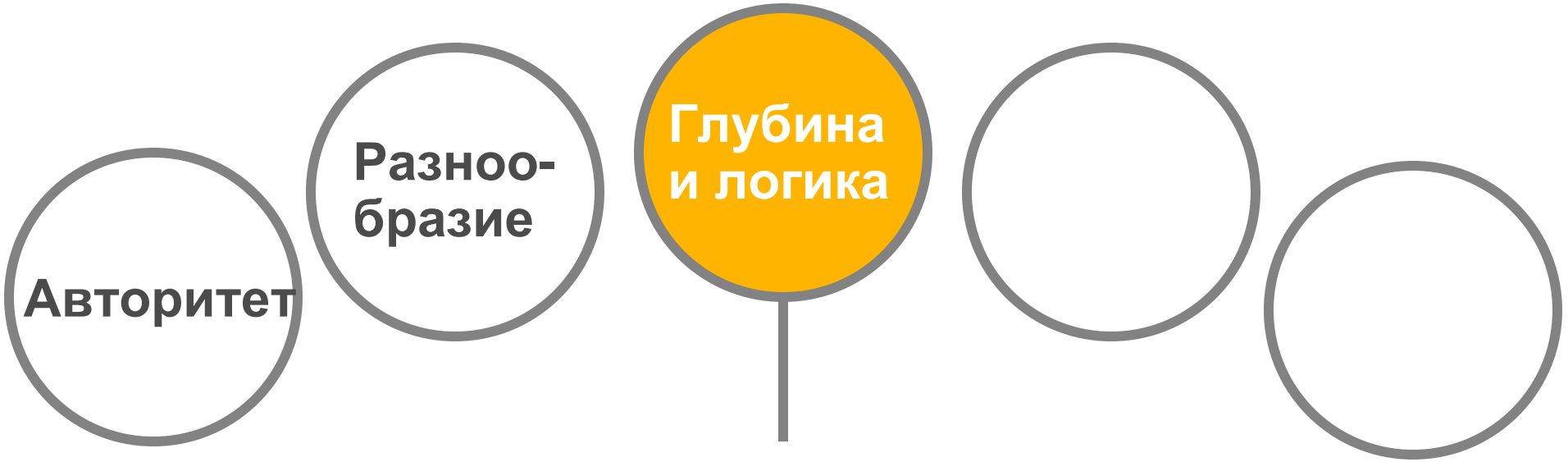
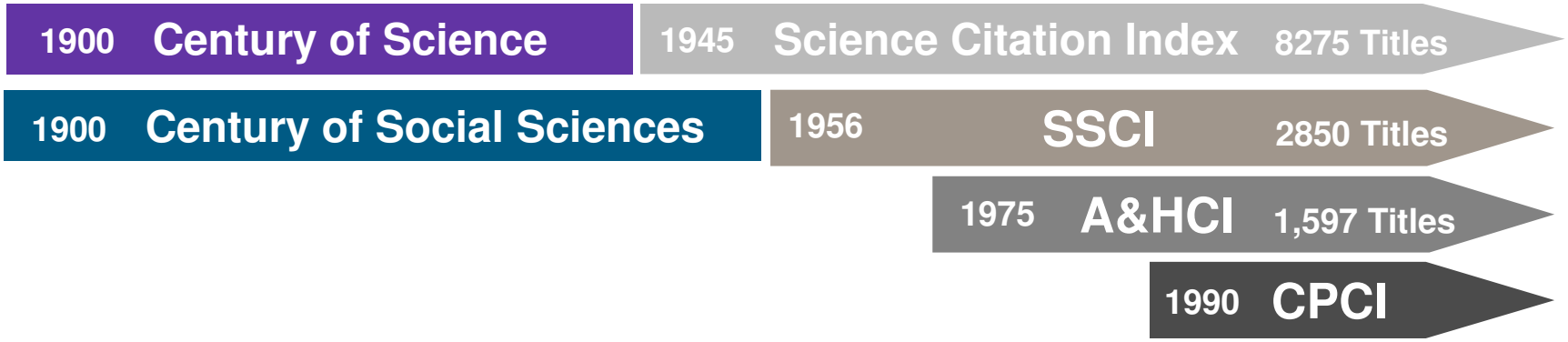
WEB OF SCIENCE – ОСНОВНЫЕ ПРЕИМУЩЕСТВА





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WEB OF SCIENCE – ОСНОВНЫЕ ПРЕИМУЩЕСТВА

- Данные улавливают все официальные ссылки для всех записей
- Все имена авторов, в том числе полное наименование
- Авторы привязаны к адресам (наглядная принадлежность)
- Все адреса охваченны
- Информация о финансировании исследований (Funding Acknowledgements)

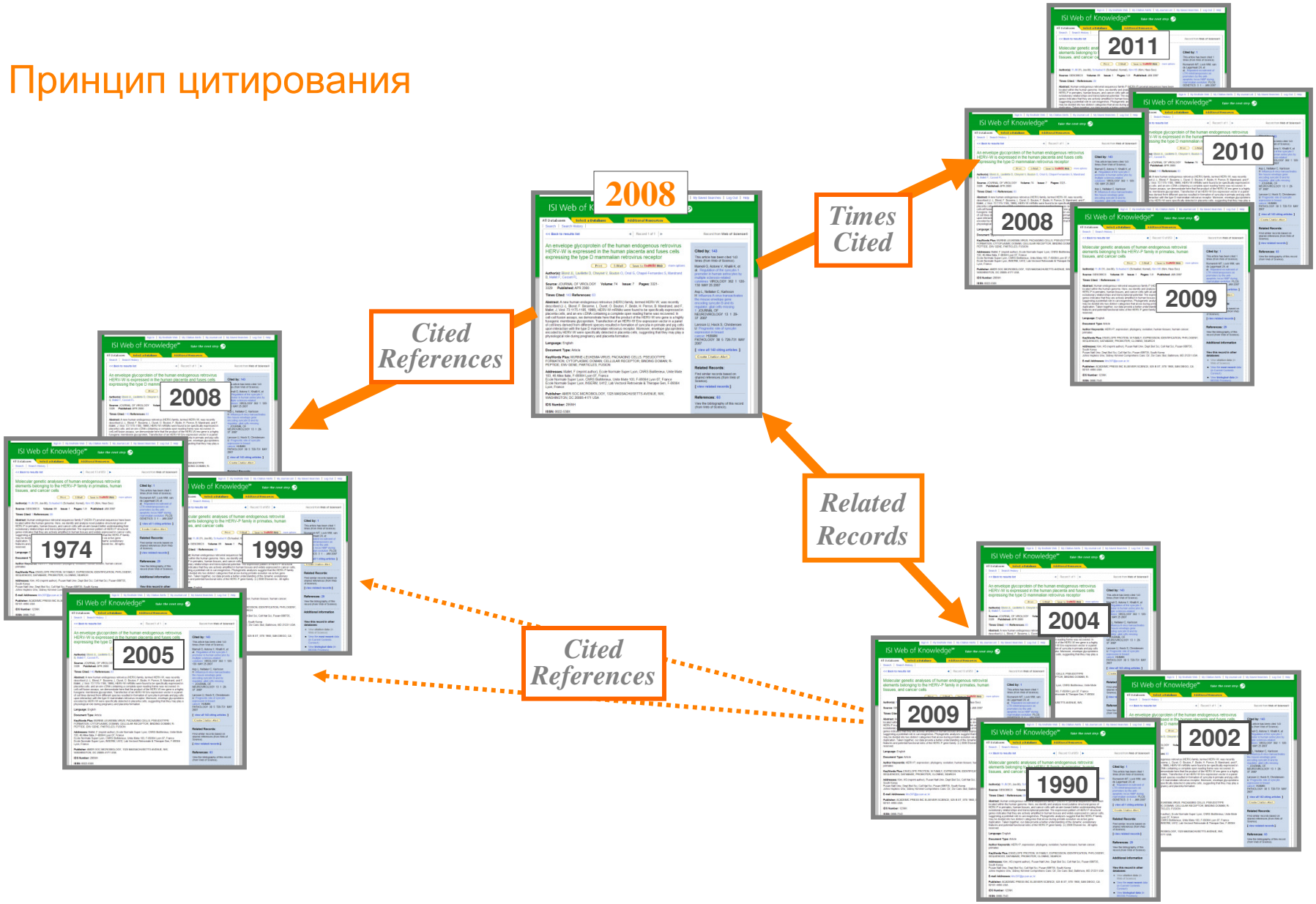
WEB OF SCIENCE – ОСНОВНЫЕ ПРЕИМУЩЕСТВА

Инструменты удобные в оценке эффективности научных исследований, помогающие при просмотре результатов и создании отчетов

Инструменты Analyze & Refine tools, Citation Report, Citation Map

Включенные Ресурсы EndNote Web, ResearcherID

Принцип цитирования



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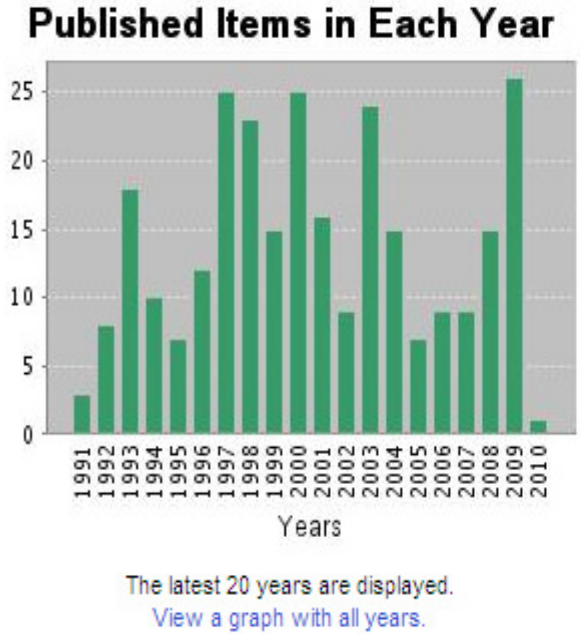
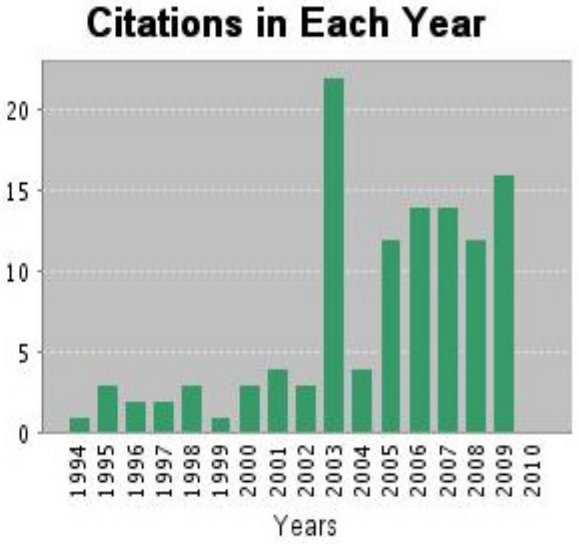
Web of Science – Статистика о цитированиях



The latest 20 years are displayed.
View a graph with all years.



Важнейшие показатели:
количество публикаций (290)
объём цитирования (116)
среднее цитирование на статью (0.4)
индекс Хирша (5)

Results found: 290

Sum of the Times Cited [?] : 116

View Citing Articles
View without self-citations

Average Citations per Item [?] : 0.40

h-index [?] : 5

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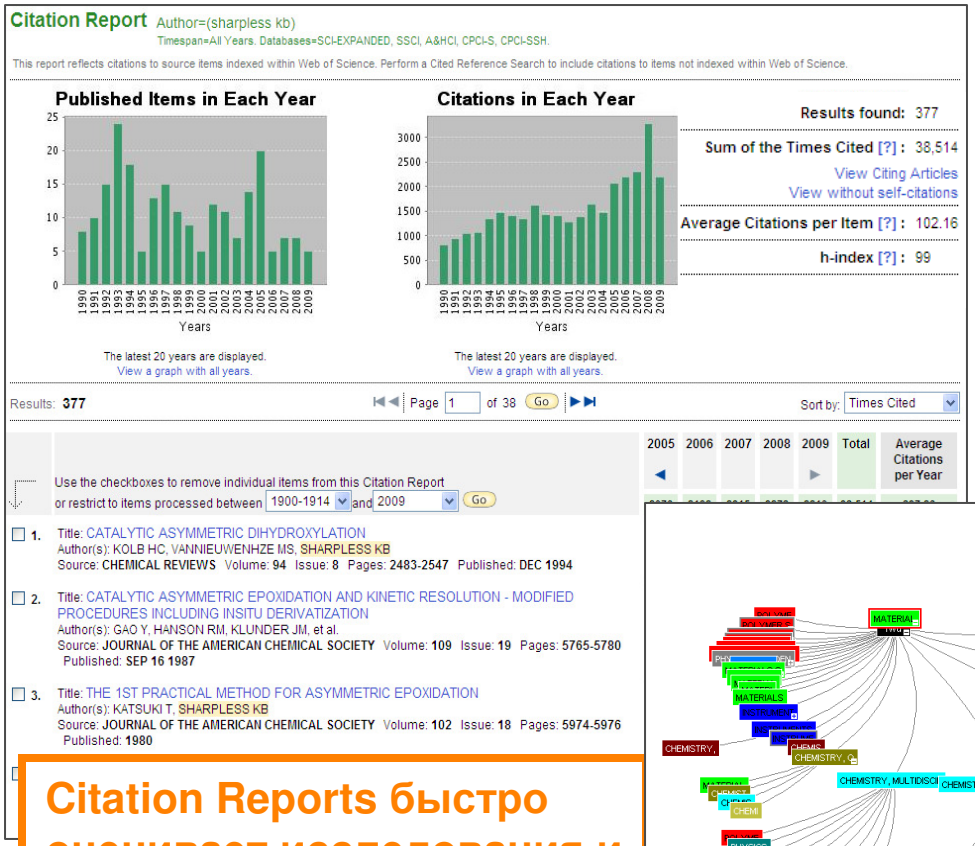
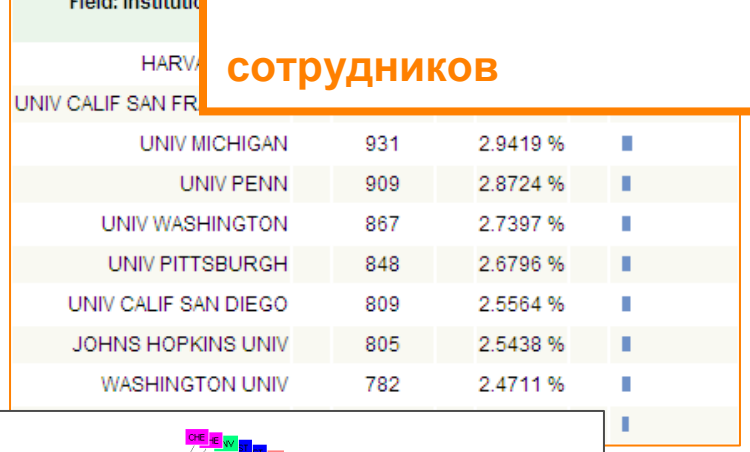
Web of Science – Инструменты

Функцией анализа получаем, напр.,

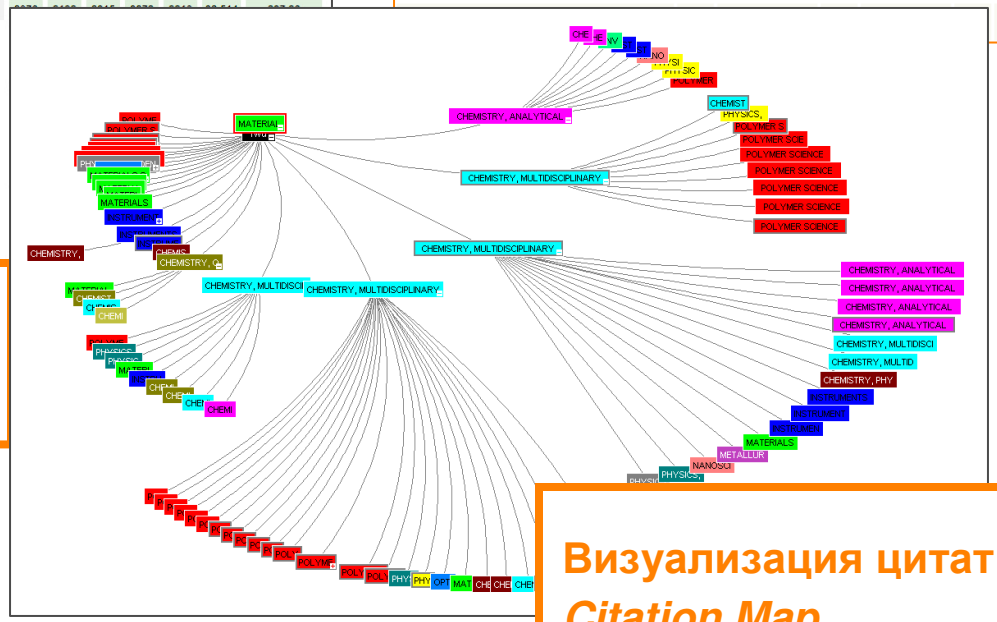
организации или

сотрудников





Citation Reports быстро оценивает исследования и тренды результатов



Визуализация цитат по *Citation Map*

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WEB OF SCIENCE – ОСНОВНЫЕ ПРЕИМУЩЕСТВА

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НЕСКОЛЬКО СЛОВ О ПРЕИМУЩЕСТВАХ:

С WoS вы можете:

- Провести анализ событий
- Определить влиятельные исследования
- Узнать о международным сотрудничестве
- Выявить новых редакторов и авторов
- Расширить ваши исследования

Журналы из нашего региона в *Web of Science* в Апреле 2011 (+ число журналов с Impact Factor)

- Украина 18 (SE: 6)
- Россия 161 (SE:123, SSE: 6)
- Польша 143 (SE:103, SSE: 4)
- Турция 74 (SE:32, SSE: 7)
- Хорватия 60 (SE:24, SSE:12)
- Румыния 58 (SE:33, SSE: 3)
- Чешская Республика 57 (SE:31, SSE:5)
- Венгрия 40 (SE:21, SSE:3)
- Словакия 25 (SE:16, SSE: 3);Словения 25 (SE:7, SSE: 6)
- Сербия 19 (SE:9, SSE: 1)
- Болгария 10 (SE: 8)

Украинские Журналы в *Web of Science* (Апрель 2011)…

- Actual Problems of Economics
- Condensed Matter Physics (*)
- Journal of Mathematical Physics Analysis Geometry
- Journal of Superhard Materials
- Journal of Water Chemistry and Technology
- Kinematics and Physics of Celestial Bodies
- Low temperature physics
- Materials science (*)
- Metallofizika i noveishie tekhnologii (*)
- Neurophysiology

- (*) with Impact Factor

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Web of Science® – with Conference Proceedings

Украинские Журналы в *Web of Science* (Апрель 2011)

- Nonlinear Oscillations
- Powder metallurgy and metal ceramics (*)
- Problems of atomic science and technology (*)
- Strength of materials
- Symmetry integrability and geometry-methods and applications (*)
- Theoretical and experimental chemistry
- Ukrainian journal of physical optics
- Ukrainian mathematical journal

- (*) with Impact Factor

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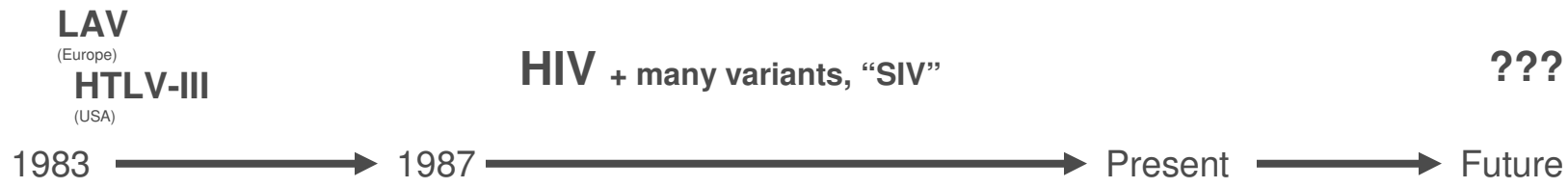
Citation Index – Добавленная стоимость

- Мир науки постоянно развивается, а вместе с ним меняется терминология понятий
- Поиск по тексту может пропустить важную информацию
- Вы можете не знать терминологию--сеть связей цитат способствует вашему поиску



IMPORTANCE OF THE NEF GENE FOR MAINTENANCE OF HIGH VIRUS LOADS AND FOR DEVELOPMENT OF AIDS

Author(s): KESTLER HW, RINGLER DJ, MORI K, et al.

Source: CELL **Volume:** 65 **Issue:** 4 **Pages:** 651-662 **Published:** MAY 17 1991

Times Cited: 1,103 (from Web of Science)

Cited References: 49 Citation Map

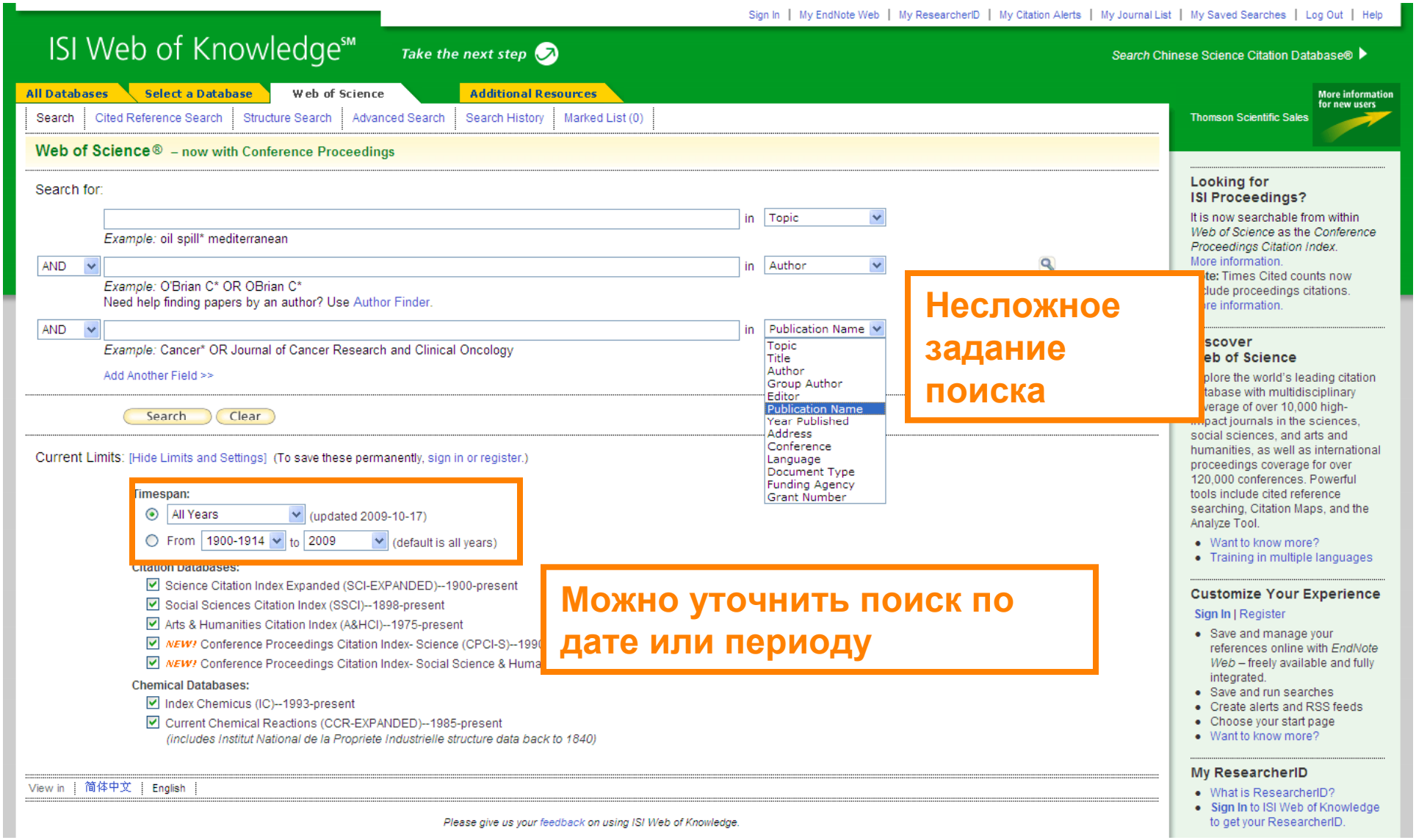
Abstract: When rhesus monkeys were infected with a form of cloned SIVmac239 having a premature sto
revertants with a coding codon at this position quickly and universally came to predominate in the infecte
are strong selective forces for open functional forms of nef in vivo. Although deletion of nef sequences ha
replication in cultured cells, deletion of nef sequences dramatically altered the properties of virus in infec
indicate that nef is required for maintaining high virus loads during the course of persistent infection in vi
Thus, nef should become a target for antiviral drug development. Furthermore, the properties of virus with
for making live-attenuated strains of virus for experimental vaccine testing.

Document Type: Article

Language: English

KeyWords Plus: SIMIAN IMMUNODEFICIENCY VIRUS; OPEN READING FRAME; RHESUS-MONKEYS; P
MUTATIONAL ANALYSIS; MACAQUE MONKEYS; HTLV-III; SOR GENE; TYPE-1; PROTEIN

Статья цитируется 1103 раза, но не содержит термина "*HIV.*" Невозможно ее найти путем поиска текста, но ее легко найти с помощью цитат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Additional Resources
Search
Cited Reference Search
Structure Search
Advanced Search
Search History
Marked List (0)
Thomson Scientific Sales
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Web of Science® – now with Conference Proceedings
Search for:
in
Topic
Example: oil spill* mediterranean
AND
in
Author
Example: O'Brian C* OR OBrian C*
Need help finding papers by an author? Use Author Finder.
AND
in
Publication Name
Example: Cancer* OR Journal of Cancer Research and Clinical Oncology
Add Another Field >>
Topic
Title
Author
Group Author
Editor
Publication Name
Year Published
Address
Conference
Language
Document Type
Funding Agency
Grant Number
Search
Clear
Несложное задание поиска
Current Limits: [Hide Limits and Settings] (To save these permanently, sign in or register.)
Timespan:
All Years
(updated 2009-10-17)
From 1900-1914 to 2009 (default is all years)
Можно уточнить поиск по дате или периоду
Science Citation Index Expanded (SCI-EXPANDED)--1900-present
Social Sciences Citation Index (SSCI)--1898-present
Arts & Humanities Citation Index (A&HCI)--1975-present
NEW! Conference Proceedings Citation Index- Science (CPCI-S)--199
NEW! Conference Proceedings Citation Index- Social Science & Huma
Chemical Databases:
Index Chemicus (IC)--1993-present
Current Chemical Reactions (CCR-EXPANDED)--1985-present
(includes Institut National de la Propriete Industrielle structure data back to 1840)
View in | 简体中文 | English
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More information.
Note: Times Cited counts now include proceedings citations.
More information.
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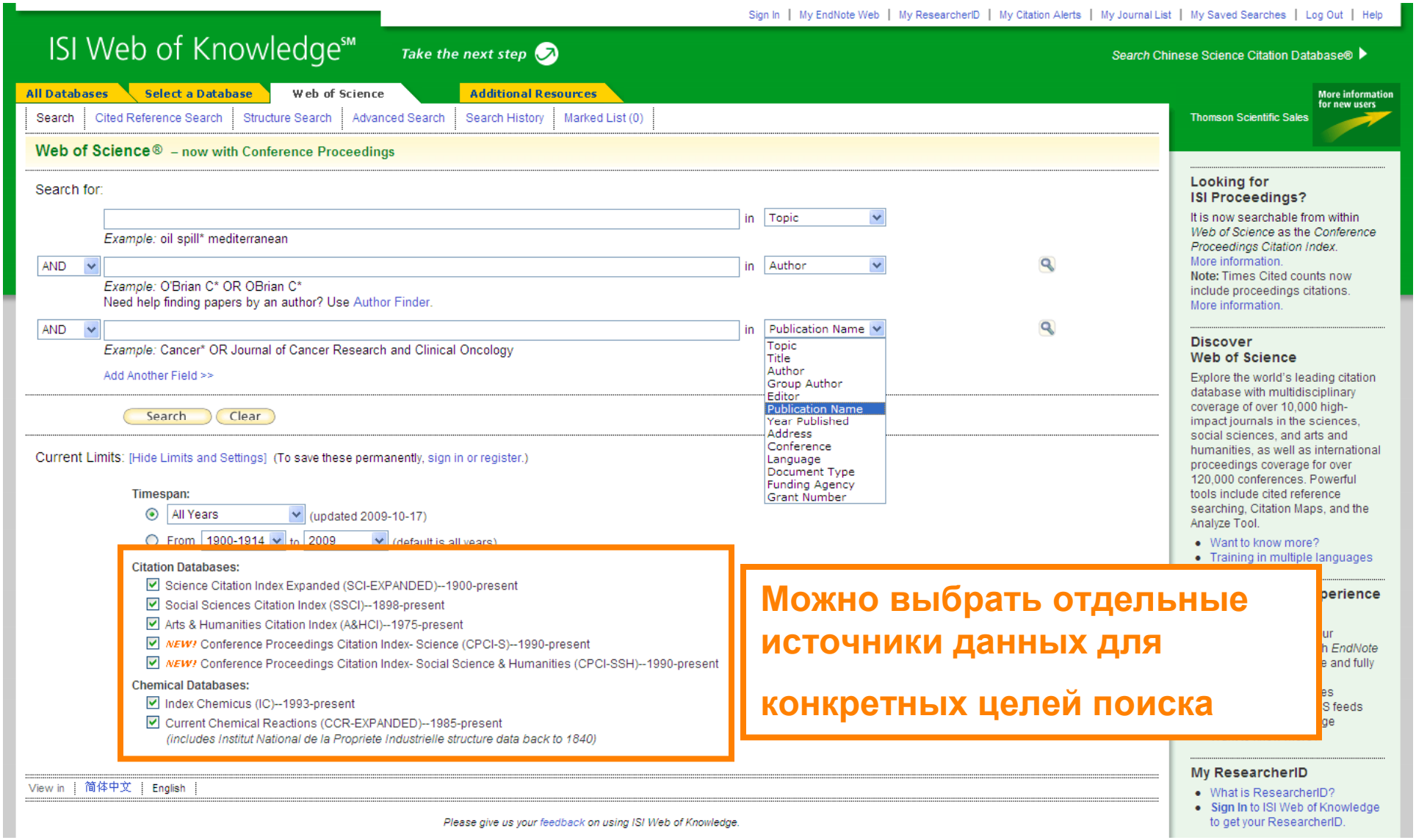
Save and manage your references online with EndNote Web – freely available and fully integrated.
Save and run searches
Create alerts and RSS feeds
Choose your start page
Want to know more?
My ResearcherID
What is ResearcherID?
Sign In to ISI Web of Knowledge to get your ResearcherID.



Можно выбрать отдельные источники данных для конкретных целей поиска

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Search | Cited Reference Search | Structure Search | Advanced Search | Search History | Marked List (0)

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Results Topic=(nanoribbon)

Timespan=2008-2009. Databases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, IC, CCR-EXPANDED.

Scientific WebPlus BETA View Web Results >>

Results: **233** Page 1 of 24 Go

Latest Date
Latest Date
Times Cited
Relevance
First author
Source Title
Publication Year
Conference Title

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Subject Areas Refine
- PHYSICS, APPLIED (73)
- MATERIALS SCIENCE, MULTIDISCIPLINARY (68)
- NANOSCIENCE & NANOTECHNOLOGY (63)
- PHYSICS, CONDENSED MATTER (47)
- CHEMISTRY, MULTIDISCIPLINARY (36)

more options / values...

Document Types Refine
- ARTICLE (198)
- PROCEEDINGS PAPER (30)
- REVIEW (3)
- CORRECTION (1)
- NEWS ITEM (1)

more options / values...

- Authors
- Source Titles
- Publication Years
- Conference Titles
- Institutions
- Languages
- Countries/Territories

For advanced refine options, use Analyze Results

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1. Title: Electrostatic confinement of electrons in graphene nanoribbons
Author(s): Liu XL, Oostinga JB, Morpurgo AF, et al.
Source: **PHYSICAL REVIEW B** Volume: **80** Issue: **12** Article Number: **121407** Published: **SEP 2009**
Times Cited: **0**
Links | Full Text

2. Title: Interfaces within graphene nanoribbons
Author(s): Wurm J, Wimmer M, Adagideli I, et al.
Source: **NEW JOURNAL OF PHYSICS** Volume: **11** Article Number: **095022** Published: **SEP 30 2009**
Times Cited: **1**
Links | Full Text

3. Title: Battery Drivable Organic Single-Crystalline Transistors Based on Surface Grafting Ultrathin Polymer Dielectric
Author(s): Li LQ, Zhang YJ, Li HX, et al.
Source: **ADVANCED FUNCTIONAL MATERIALS** Volume: **19** Issue: **18** Pages: **2987-2991** Published: **SEP 23 2009**
Times Cited: **0**
Links | Full Text

4. Title: Effects of B and N doping on sp
Author(s): Zheng XH, Dai ZX, Wang XL,
Source: **ACTA PHYSICA SINICA** Volun
Times Cited: **0**
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5. Title: The importance of defects for c
Author(s): Botello-Mendez AR, Lopez-U
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Author(s): Kumazaki H, Hirashima DS
Source: **JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN** Volume: **78** Issue: **9** Article Number: **094701** Published: **SEP 2009**
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Author(s): Zhang ZX, Sun ZZ, Yao J, et al.
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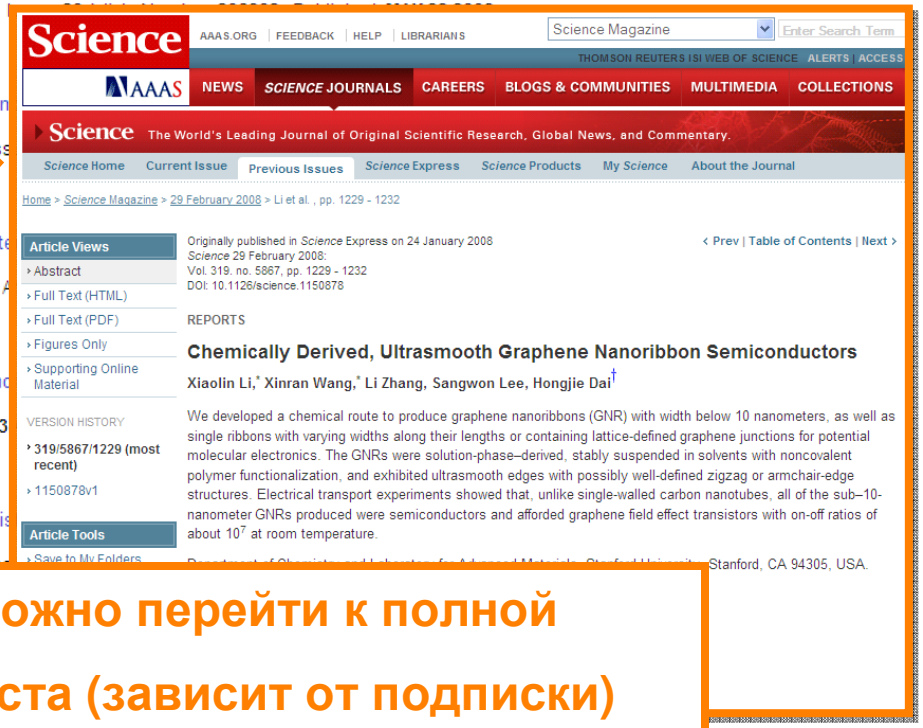
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REPORTS

Chemically Derived, Ultrasmooth Graphene Nanoribbon Semiconductors

Xiaolin Li,* Xinran Wang,* Li Zhang, Sangwon Lee, Hongjie Dai†

We developed a chemical route to produce graphene nanoribbons (GNR) with width below 10 nanometers, as well as single ribbons with varying widths along their lengths or containing lattice-defined graphene junctions for potential molecular electronics. The GNRs were solution-phase–derived, stably suspended in solvents with noncovalent polymer functionalization, and exhibited ultrasmooth edges with possibly well-defined zigzag or armchair-edge structures. Electrical transport experiments showed that, unlike single-walled carbon nanotubes, all of the sub–10-nanometer GNRs produced were semiconductors and afforded graphene field effect transistors with on-off ratios of about 10^7 at room temperature.

Stanford, CA 94305, USA.

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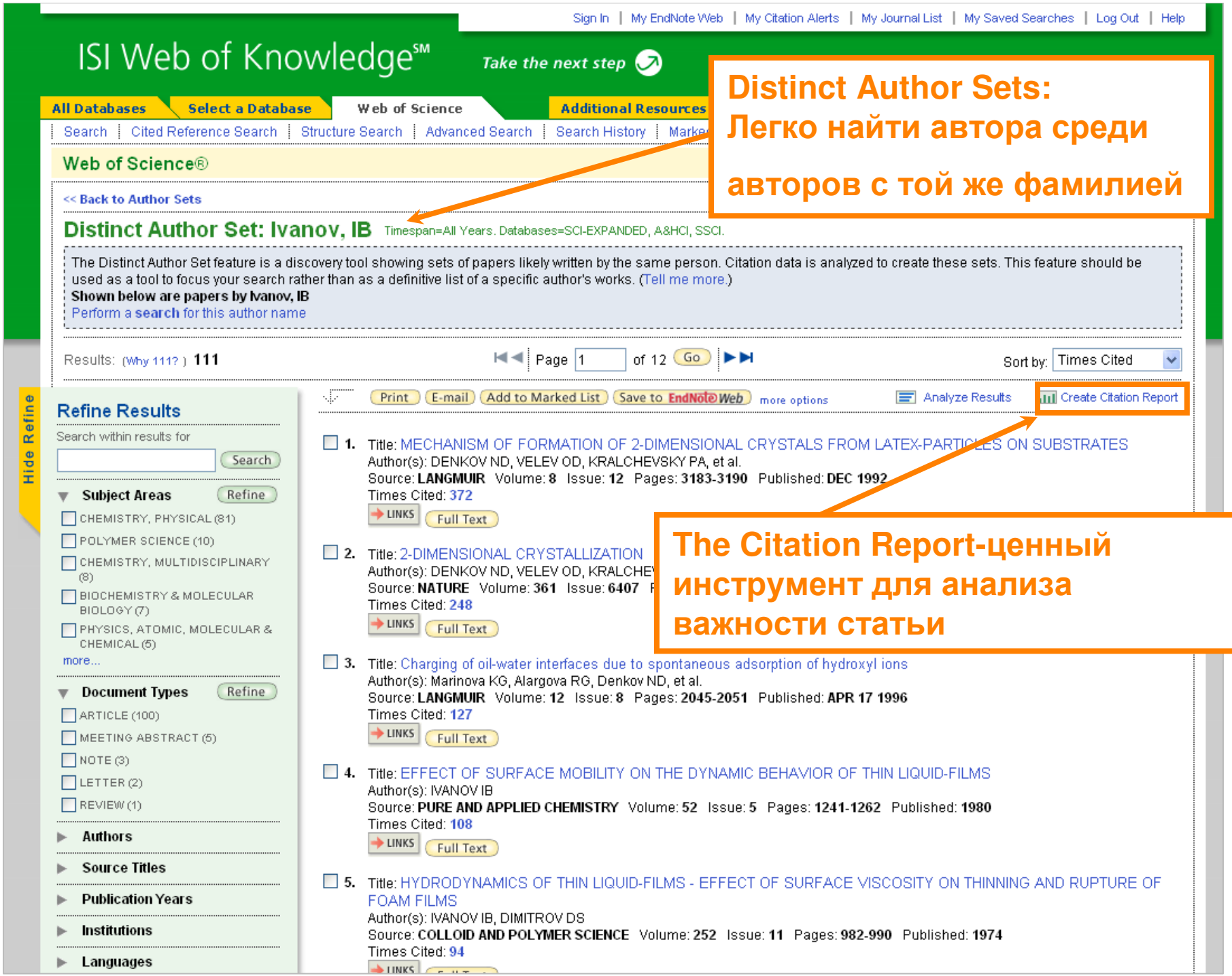
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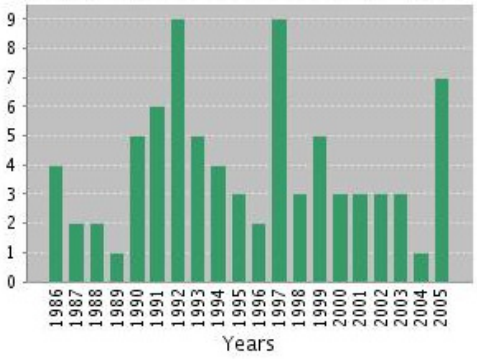

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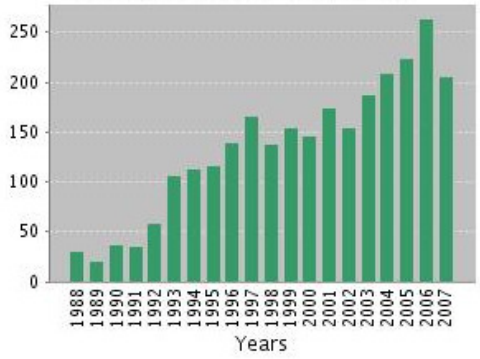

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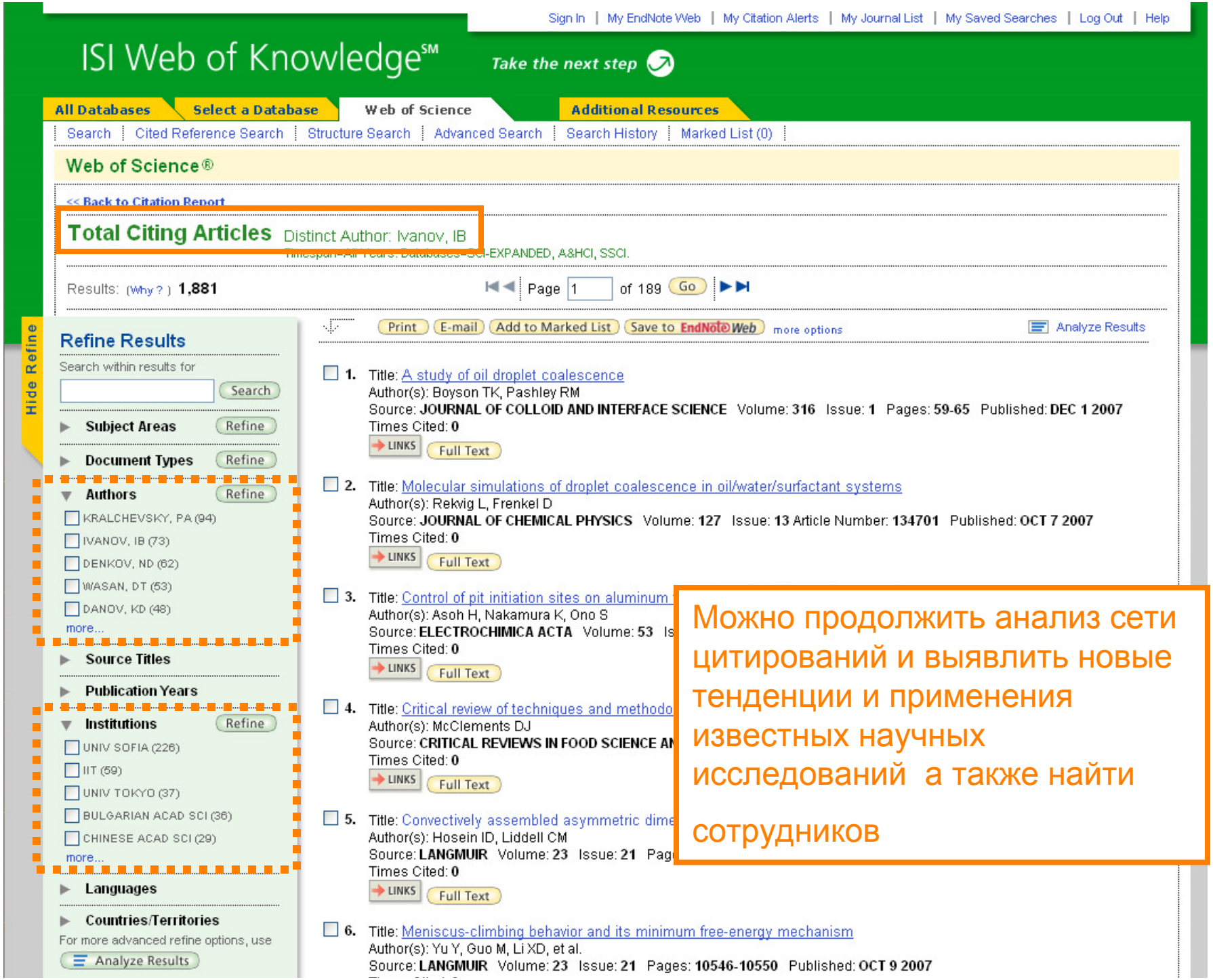

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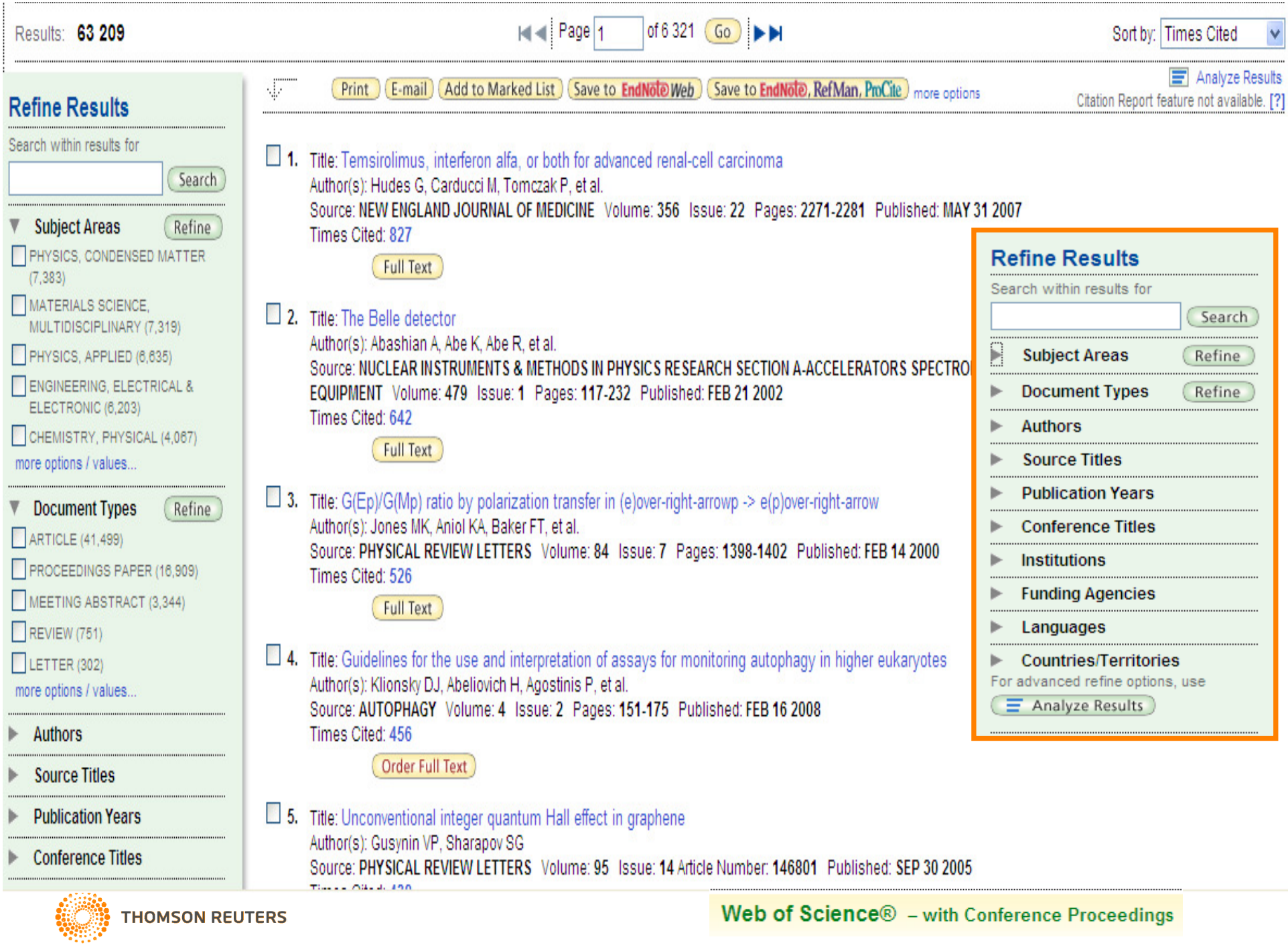
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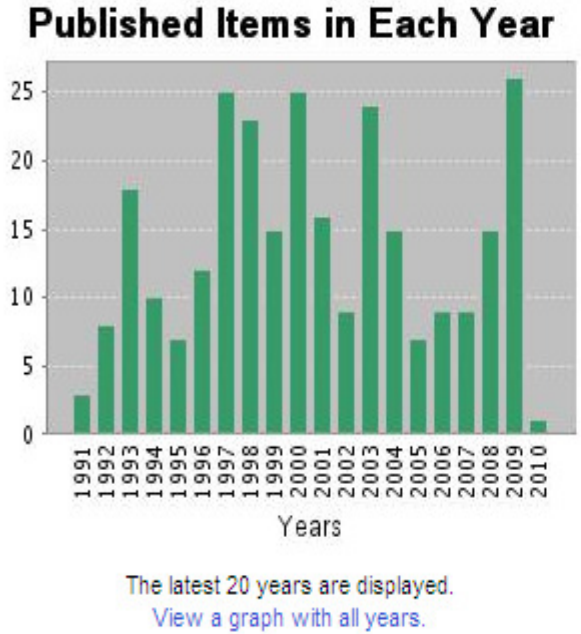

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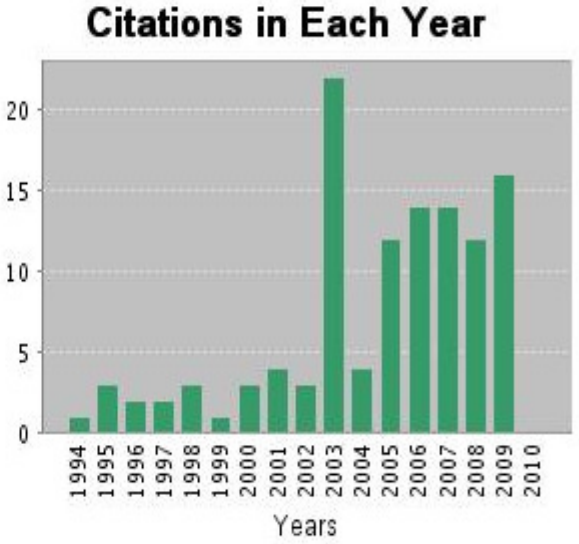

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Source: NATURE **Volume:** 458 **Issue:** 7240 **Pages:** 872-U5 **Publ**

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Abstract: Graphene, or single-layered graphite, with its high crystallinity an s, has emerged as an exciting two-dimensional material showing great promise for the fabrication of nanosca ossess straight edges, termed graphene ribbons, gradually transform from semiconductors to semime ularly versatile variety of graphene. Several lithographic(7,8), chemical(9-11) and synthetic(12) procedure e nanoribbons, and one chemical vapour deposition process(13) has successfully produced macrosc describe a simple oxidative process for producing a nearly 100% yield of nanoribbon stru d carbon nanotube Although oxidative shortening of MWCNTs has previously bee Ribbon structures olubility are obtained. Subsequent chemical reduction of the nanoribbons anoribbons could eventually lead to applications in fields of electronics ar re required(15-17).

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Longitudinal unzipping of carbon nanotubes to form graphene nanoribbons

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1.	Title: Two-Dimensional Polymers: Just a Dream of Synthetic Chemists? Author(s): Sakamoto J, van Heijst J, Lukin O, et al. Source: **ANGEWANDTE CHEMIE-INTERNATIONAL EDITION** Volume: **48** Issue: **6** Pages: **1030-1069** Published: **2009** Times Cited: 3 Links Full Text	443	13
2.	Title: Electronic transport properties of graphene nanoribbons Author(s): Wakabayashi K, Takane Y, Yamamoto M, et al. Source: **NEW JOURNAL OF PHYSICS** Volume: **11** Article Number: **095016** Published: **SEP 30 2009** Times Cited: 1 Links Full Text	97	12
3.	Title: Unzipping Carbon Nanotubes: A Peeling Method for the Formation of Graphene Nanoribbons Author(s): Hirsch A Source: **ANGEWANDTE CHEMIE-INTERNATIONAL EDITION** Volume: **48** Issue: **36** Pages: **6594-6596** Published: **2009** Times Cited: 0 Links Full Text	17	11
4.	Title: Carbon-Based Field-Effect Transistors for Nanoelectronics Author(s): Burghard M, Klauk H, Kern K Source: **ADVANCED MATERIALS** Volume: **21** Issue: **25-26** Pages: **2586-2600** Published: **JUL 13 2009** Times Cited: 0 Links Full Text	141	
5.	Title: Anisotropic Etching and Nanoribbon Formation in Single-Layer Graphene Author(s): Campos LC, Manfrinato VR, Sanchez-Yamagishi JD, et al. Source: **NANO LETTERS** Volume: **9** Issue: **7** Pages: **2600-2604** Published: **JUL 2009** Times Cited: 1 Links Full Text	44	11
6.	Title: Chemical methods for the production of graphenes Author(s): Park S, Ruoff RS Source: **NATURE NANOTECHNOLOGY** Volume: **4** Issue: **4** Pages: **217-224** Published: **APR 2009** Times Cited: 11 Links Full Text	67	11

Related Records

The work was funded by the US Defense Advanced Research Projects Agency, the US Federal Aviation Administration, Department of Energy (DE-FC36-05GO15073) and Wright Patterson Air Force Laboratory through the US Air Force Office of Scientific Research.

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Longitudinal unzipping of carbon nanotubes to form graphene nanoribbons

Author(s): Kosynkin DV (Kosynkin, Dmitry V.)[1], Higginbotham AL (Higginbotham, Amanda L.)[1], Sinitskii A (Sinitskii, Alexander)[1], Lomeda JR (Lomeda, Jay R.)[1], Dimiev A (Dimiev, Ayrat)[1], Price BK (Price, B. Katherine)[1], Tour JM (Tour, James M.)[1,2,3]

Source: NATURE **Volume:** 458 **Issue:** 7240 **Pages:** 872-U5 **Published:** APR 16 2009

Times Cited: 19 **References:** 30 Citation Map

Abstract: Graphene, or single-layered graphite, with its high crystallinity and interesting semimetal electronic properties, has emerged as an exciting two-dimensional material showing great promise for the fabrication of nanoscale devices(1-3). Thin, elongated strips of graphene that possess straight edges, termed graphene ribbons, gradually transform from semiconductors to semimetals as their width increases(4-7), and represent a particularly versatile variety of graphene. Several lithographic(7,8), chemical(9-11) and synthetic(12) procedures are known to produce microscopic samples of graphene nanoribbons, and one chemical vapour deposition process(13) has successfully produced macroscopic quantities of nanoribbons at 950 degrees C. Here we describe a simple solution-based oxidative process for producing a nearly 100% yield of nanoribbon structures by lengthwise cutting and unravelling of multiwalled carbon nanotube (MWCNT) side walls. Although oxidative shortening of MWCNTs has previously been achieved(14), lengthwise cutting is hitherto unreported. Ribbon structures with high water solubility are obtained. Subsequent chemical reduction of the nanoribbons from MWCNTs results in restoration of electrical conductivity. These early results affording nanoribbons could eventually lead to applications in fields of electronics and composite materials where bulk quantities of nanoribbons are required(15-17).

Document Type: Article

Language: Engl

KeyWords Plus SHEETS; OXIDATION; PHASE

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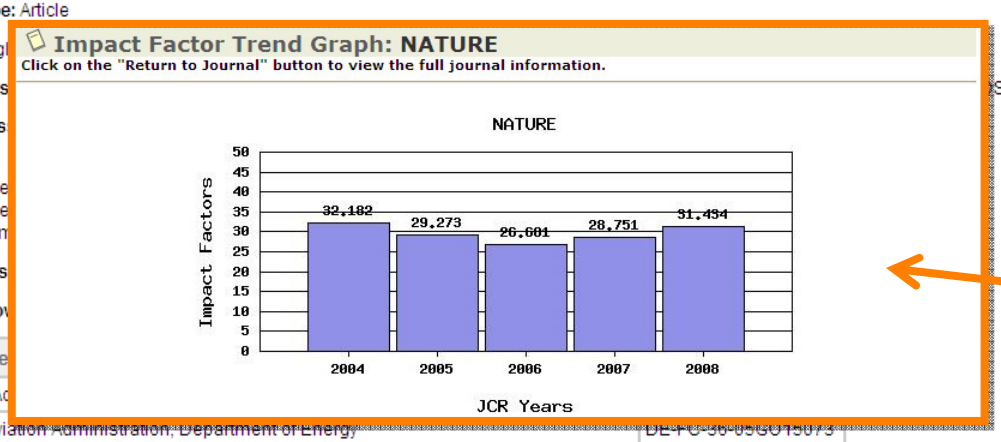

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The authors thank P. M. Ajayan, W. Guo, J. Duque, Z. Sun, and Z. Jin for technical assistance and discussions. Mitsui & Co.generously donated the MWCNTs. The work was funded by the US Defense Advanced Research Projects Agency, the US Federal Aviation Administration, Department of Energy (DE-FC-36-05GO15073) and Wright Patterson Air Force Laboratory through the US Air Force Office of Scientific Research.

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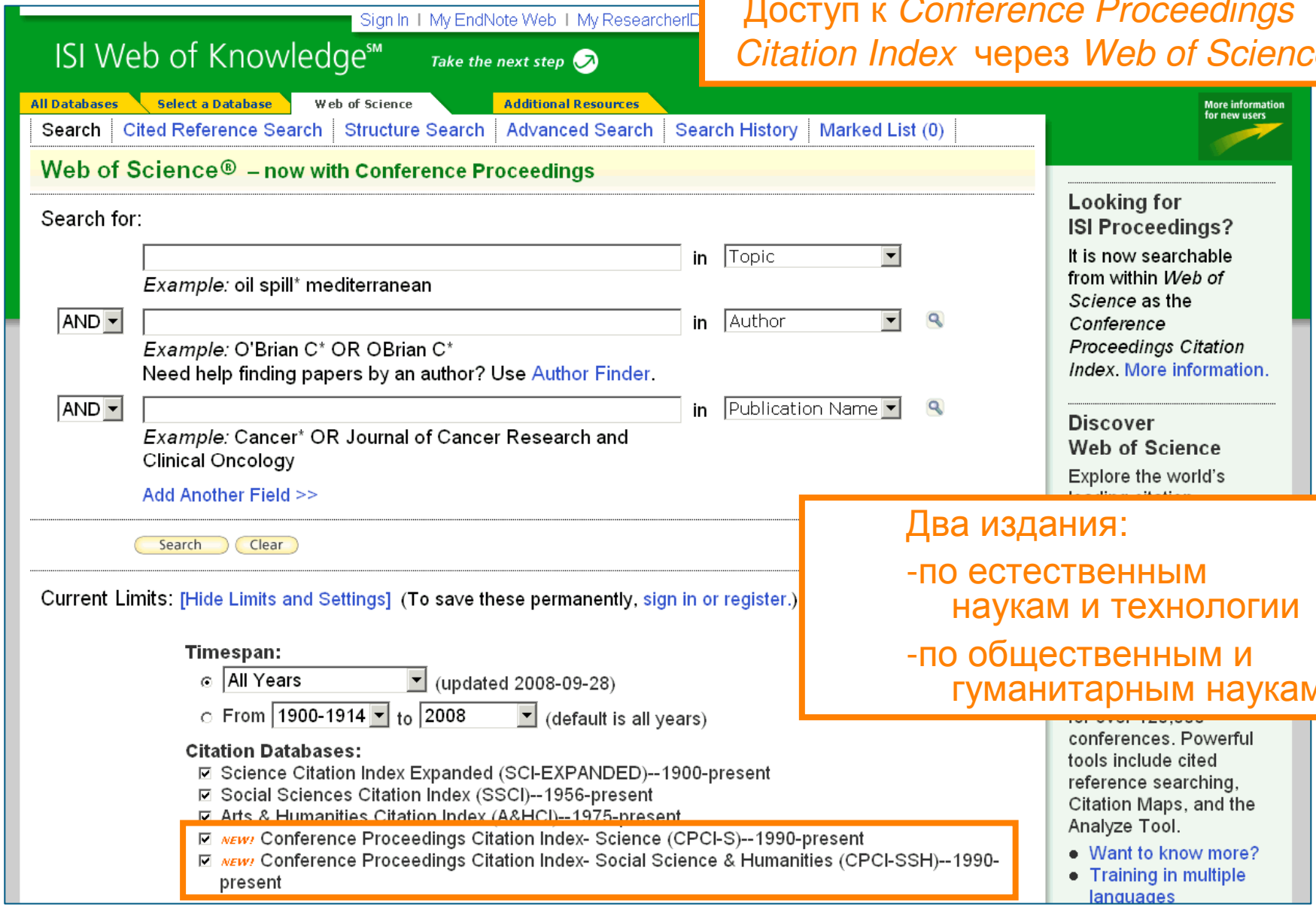

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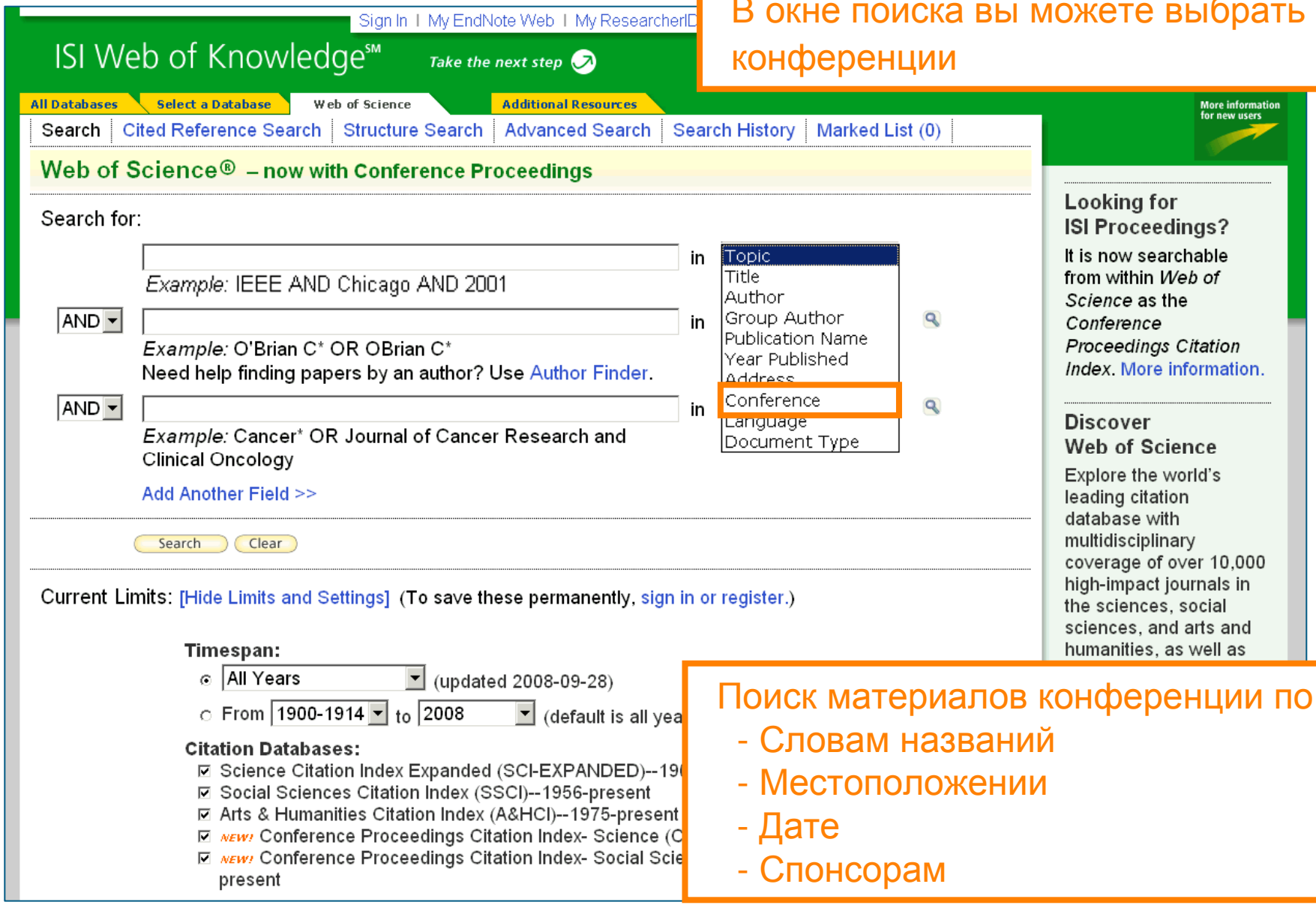

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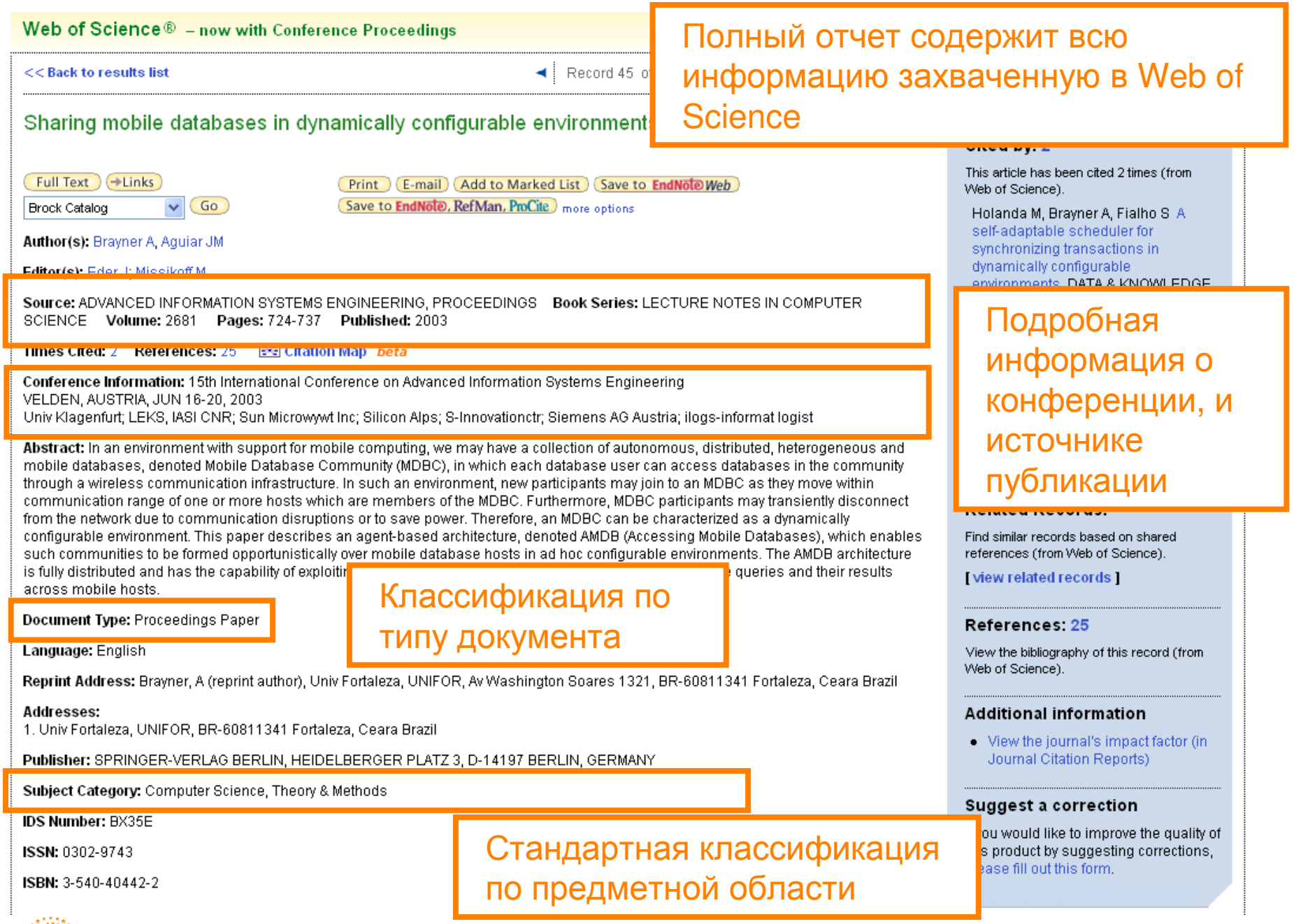
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Author(s): Brayner A, Aguiar JM
Source: ADVANCED INFORMATION SYSTEMS ENGINEERING, PROCEEDINGS Book Series: LECTURE NOTES IN COMPUTER SCIENCE Volume: 2681 Pages: 724-737 Published: 2003
Times Cited: 2 References: 25 Citation Map beta
Conference Information: 15th International Conference on Advanced Information Systems Engineering
VELDEN, AUSTRIA, JUN 16-20, 2003
Univ Klagenfurt; LEKS, IASI CNR; Sun Microwywt Inc; Silicon Alps; S-Innovationctr; Siemens AG Austria; ilogs-informat logist
Abstract: In an environment with support for mobile computing, we may have a collection of autonomous, distributed, heterogeneous and mobile databases, denoted Mobile Database Community (MDBC), in which each database user can access databases in the community through a wireless communication infrastructure. In such an environment, new participants may join to an MDBC as they move within communication range of one or more hosts which are members of the MDBC. Furthermore, MDBC participants may transiently disconnect from the network due to communication disruptions or to save power. Therefore, an MDBC can be characterized as a dynamically configurable environment. This paper describes an agent-based architecture, denoted AMDB (Accessing Mobile Databases), which enables such communities to be formed opportunistically over mobile database hosts in ad hoc configurable environments. The AMDB architecture is fully distributed and has the capability of exploiti queries and their results across mobile hosts.
Document Type: Proceedings Paper
Language: English
Reprint Address: Brayner, A (reprint author), Univ Fortaleza, UNIFOR, Av Washington Soares 1321, BR-60811341 Fortaleza, Ceara Brazil
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1. Univ Fortaleza, UNIFOR, BR-60811341 Fortaleza, Ceara Brazil
Publisher: SPRINGER-VERLAG BERLIN, HEIDELBERGER PLATZ 3, D-14197 BERLIN, GERMANY
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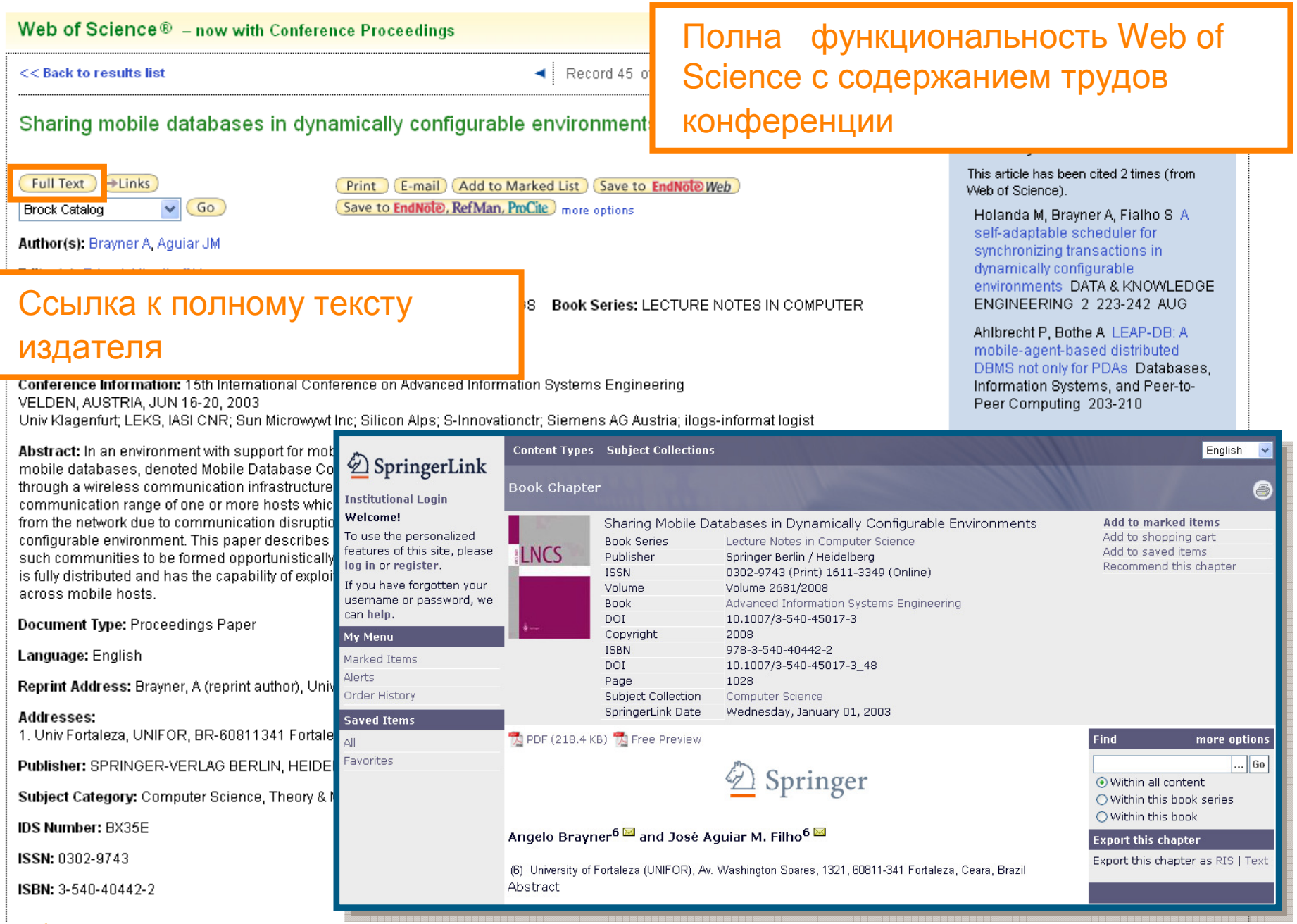

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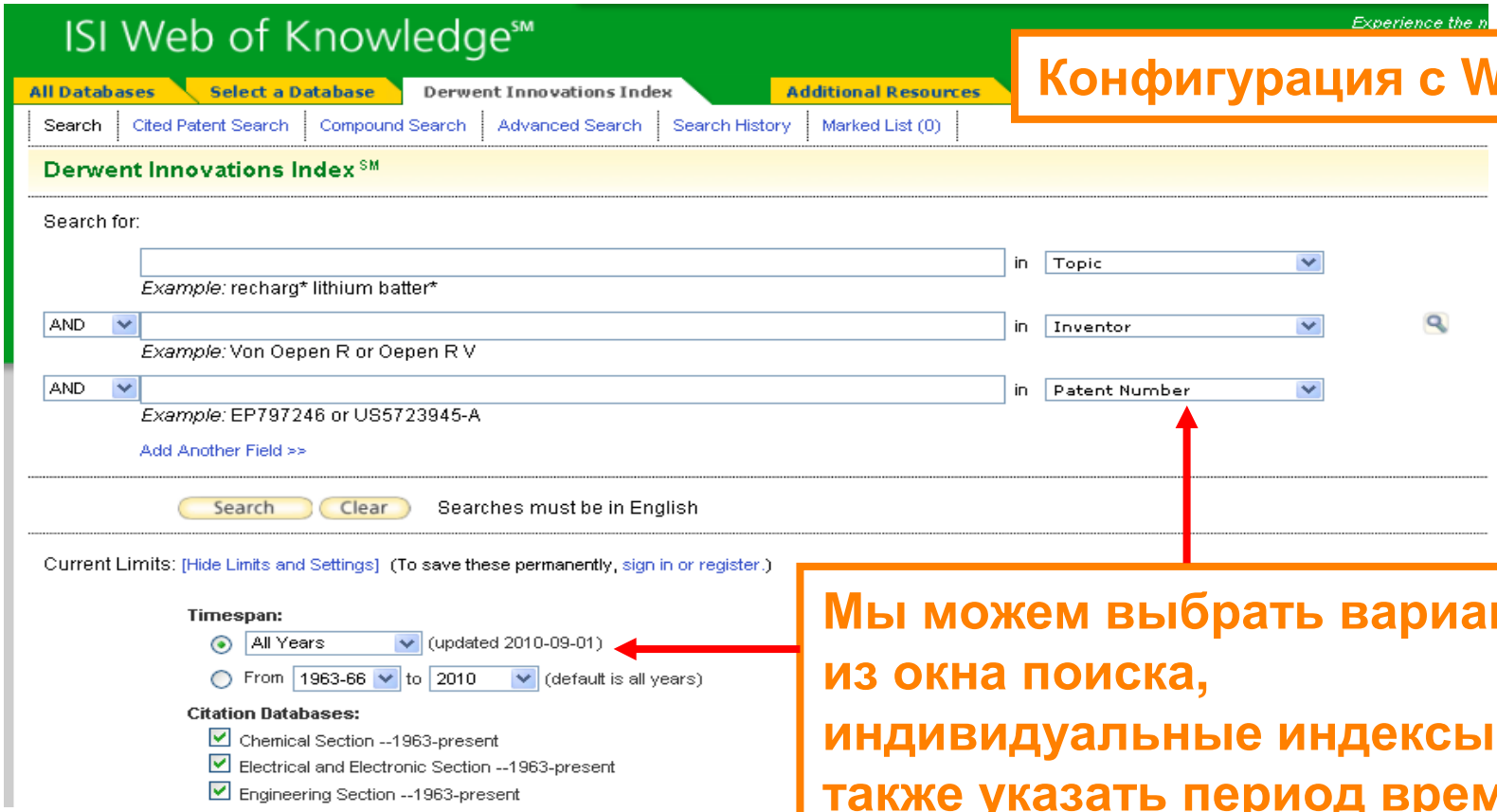

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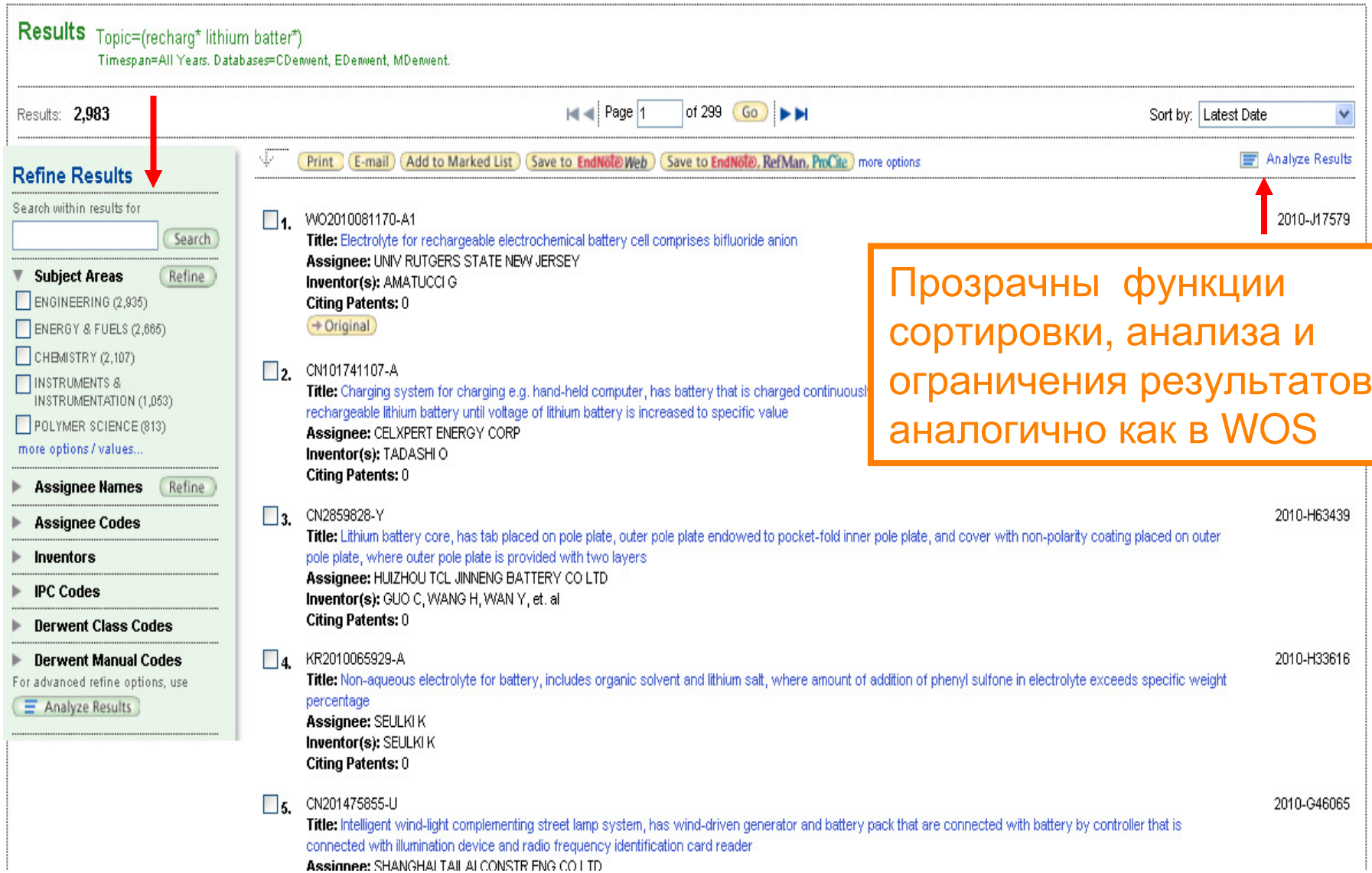

Прозрачны функции сортировки, анализа и ограничения результатов, аналогично как в WOS

Полная запись 1

Electrolyte for rechargeable electrochemical battery cell comprises bifluoride anion

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Patent Number(s): WO2010081170-A1

Inventor(s): AMATUCCI G

Patent Assignee(s) and Codes(s): UNIV RUTGERS STATE NEW JERSEY(RUTF-C)

Derwent Primary Accession Number: 2010-J17579 [49]

Abstract: NOVELTY - An electrolyte comprises bifluoride anion(s).

USE - Electrolyte for rechargeable electrochemical battery cell.

ADVANTAGE - The electrolyte has low molecular weight, high ionic conductivity, low modulus (to conform to electrode interfaces), and high intrinsic (or via passivation) anodic and cathodic stability at the negative and positive electrodes, respectively.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:

(1) a fluoride anion conducting material comprising a positive electrode; a negative electrode; and an electrolyte comprising a fluoride anion of formula (HF)nF-, where the material conducts F-anions; and

(2) a rechargeable electrochemical battery cell comprising a negative electrode comprising a metal fluoride, an electrolyte, an optional additional electrolyte, and a positive electrode comprising a compound of a low oxidation state, where a predominant diffusing species is a fluoride ion.

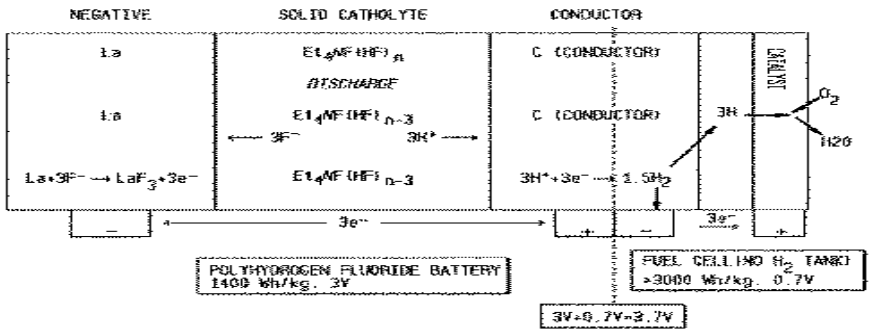
Technology Focus/Extension Abstract: TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Structure: The bifluoride anion is of formula (F(HF)n-).n=greater than 0 but less than or equal to 10, preferably 3.Preferred Component: The electrolyte comprises bifluoride anions. It is a catholyte. The positive electrode comprises metal(s) or carbon(s) which is in an electrochemically reduced state; and the negative electrode comprises metal fluoride(s). The positive electrode comprises carbon(s) from graphite, single walled carbon nanotube, or multiwalled carbon nanotube. It also comprises metal(s) from bismuth, copper, molybdenum, iron, silver, gold, palladium, nickel, cobalt, manganese or vanadium. The negative electrode comprises alkali fluoride and alkaline earth fluoride. It may also comprise zinc, aluminum, silicon or germanium. The positive electrode comprises metal fluoride(s) or carbon fluoride(s), where the metal fluoride or carbon fluoride is in an electrochemically oxidized state; and the negative electrode comprises metal(s). The positive electrode comprises a graphite fluoride. It also comprises bismuth fluoride, silver fluoride, nickel fluoride, copper fluoride, lead fluoride, cobalt fluoride, molybdenum fluoride or iron fluoride. The positive electrode further comprises electronically conductive material(s). The positive electrode is an electrode where a predominant diffusing species is a fluoride ion. It comprises a nanostructure carbon from nanographite, carbon nanotube, buckyball, mesoporous carbon, or microporous carbon. The negative electrode accepts a fluoride ion. It comprises lanthanum, lithium, sodium, calcium, strontium, barium, rubidium, or potassium. The electrolyte comprises bifluoride anion(s). It is free of hydrogen fluoride. It is a solid state fluoride conductor.

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Component: The electrolyte comprises cation(s) comprising organic group(s). The cation comprising organic

Полная запись 2

Drawing:

FIG. 2



International Patent Classification: H01M-004/00

Derwent Class Code(s): L03 (Electro-(in)organic, chemical features of electrical devices); X16 (Electrochemical Storage)

Derwent Manual Code(s): L03-E01B8; L03-E01C; L03-E08B; L03-E09; X16-B01; X16-E; X16-J

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
WO2010081170-A1	15 Jul 2010	H01M-004/00	201049	Pages: 88	English

Application Details:

WO2010081170-A1	WOUS020814	12 Jan 2010

Priority Application Information and Date:

US144062P	12 Jan 2009

Designated States:
WO2010081170-A1:
(National): AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CL; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PE; PG; PH; PL; PT RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TH; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; ZA; ZM; ZW
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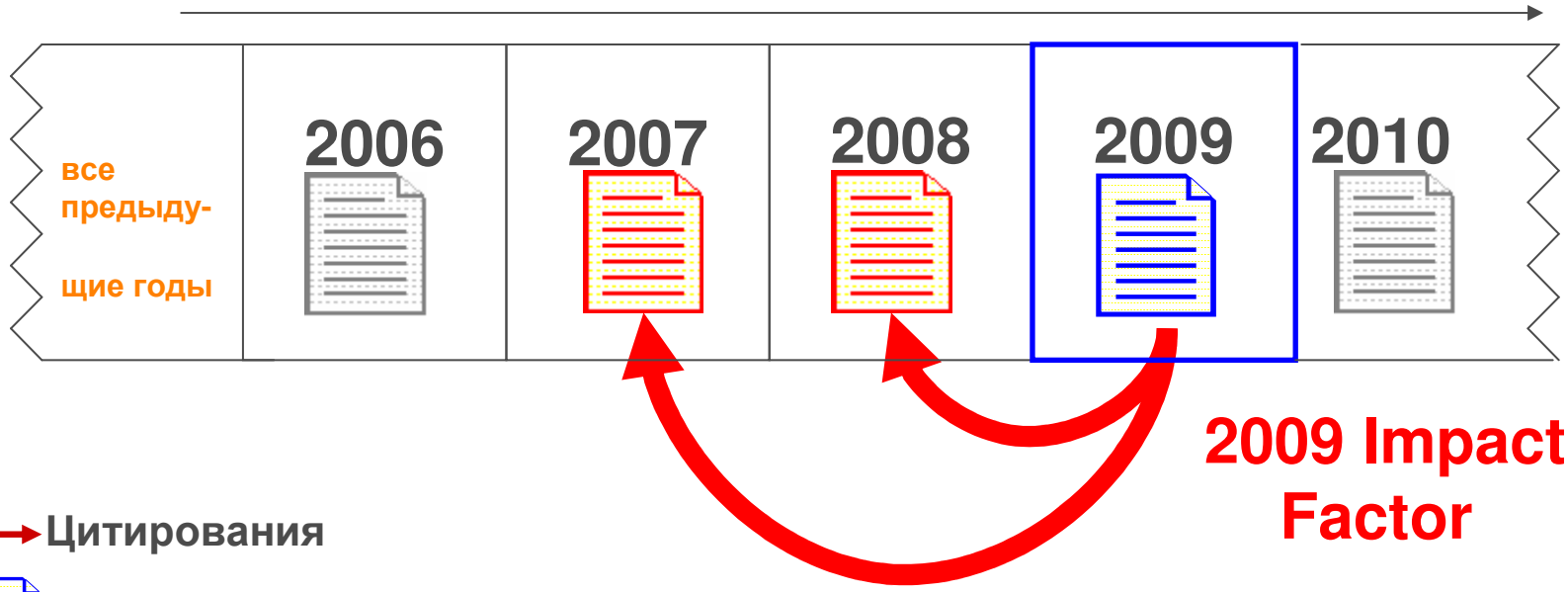

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☐	5	RUSS GEOL GEOPHYS+	1068-7971	1390	1.000	0.959	0.061	115	8.6	0.00345	0.320
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☐	8	ASTRON LETT+	1063-7737	985	0.943	0.974	0.264	87	6.2	0.00355	0.367
☐	9	PHYS PART NUCLEI+	1063-7796	355	0.935	0.697	0.184	38	6.3	0.00127	0.261
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☐	13	RUSS J MATH PHYS	1061-9208	410	0.850	0.901	0.551	49	5.0	0.00234	0.527
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☐	15	THEOR MATH PHYS+	0040-5779	1912	0.796	0.757	0.295	149	>10.0	0.00437	0.304
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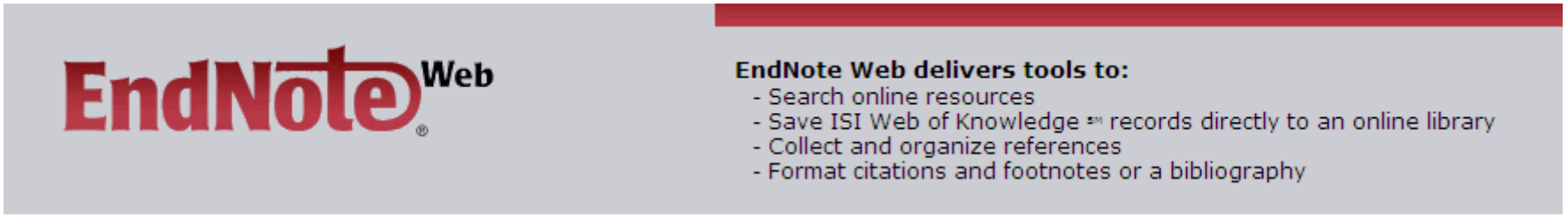

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Author(s): Li XL, Wang XR, Zhang L, et al.
Source: **SCIENCE** Volume: **319** Issue: **5867** Pages: **1229-1232** Published: **FEB 29 2008**
Times Cited: 234
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2. Title: Room-temperature all-semiconducting sub-10-nm graphene nanoribbon field-effect transistors
Author(s): Wang XR, Ouyang YJ, Li XL, et al.
Source: **PHYSICAL REVIEW LETTERS** Volume: **100** Issue: **20** Article Number: **206803** Published: **MAY 23 2008**
Times Cited: 93
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3. Title: Tailoring the atomic structure of graphene nanoribbons by scanning tunnelling microscope lithography
Author(s): Tapaszto L, Dobrik G, Lambin P, et al.
Source: **NATURE NANOTECHNOLOGY** Volume: **3** Issue: **7** Pages: **397-401** Published: **JUL 2008**
Times Cited: 35
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4. Title: Boundary conditions for Dirac fermions on a terminated honeycomb lattice
Author(s): Akhmerov AR, Beenakker CWJ
Source: **PHYSICAL REVIEW B** Volume: **77** Issue: **8** Article Number: **085423** Published: **FEB 2008**
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5. Title: Edge effects in finite elongated graphene nanoribbons
Author(s): Hod O, Peralta JE, Scuseria GE
Source: **PHYSICAL REVIEW B** Volume: **76** Issue: **23** Article Number: **233401** Published: **DEC 2007**
Times Cited: 23
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6. Title: Prediction of very large values of magnetoresistance in a graphene nanoribbon device
Author(s): Kim WY, Kim KS
Source: **NATURE NANOTECHNOLOGY** Volume: **3** Issue: **7** Pages: **408-412** Published: **JUL 2008**
Times Cited: 22
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7. Title: Will zigzag graphene nanoribbon turn to half metal under electric field?
Author(s): Kan EJ, Li ZY, Yang JL, et al.
Source: **APPLIED PHYSICS LETTERS** Volume: **91** Issue: **24** Article Number: **243116** Published: **DEC 10 2007**
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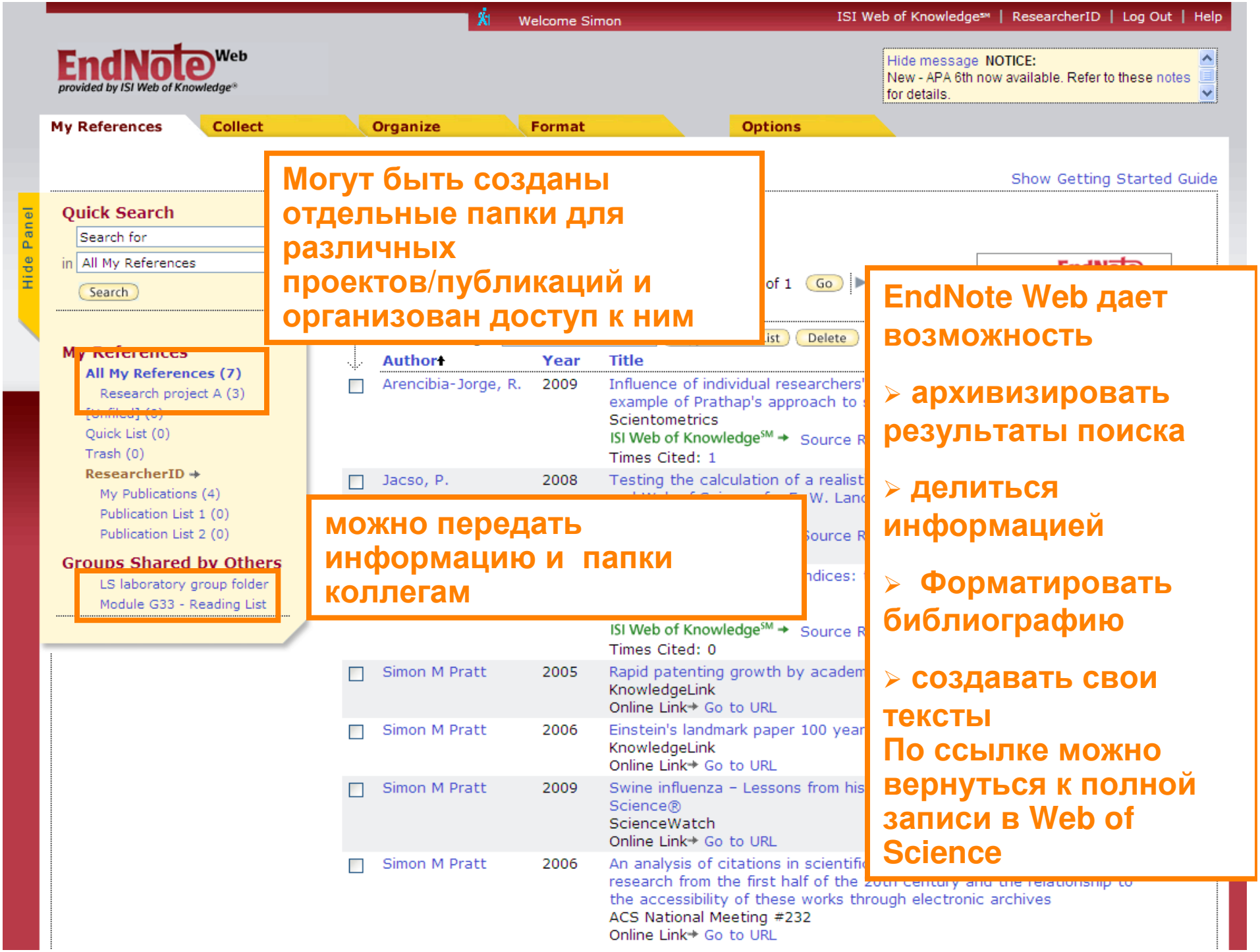
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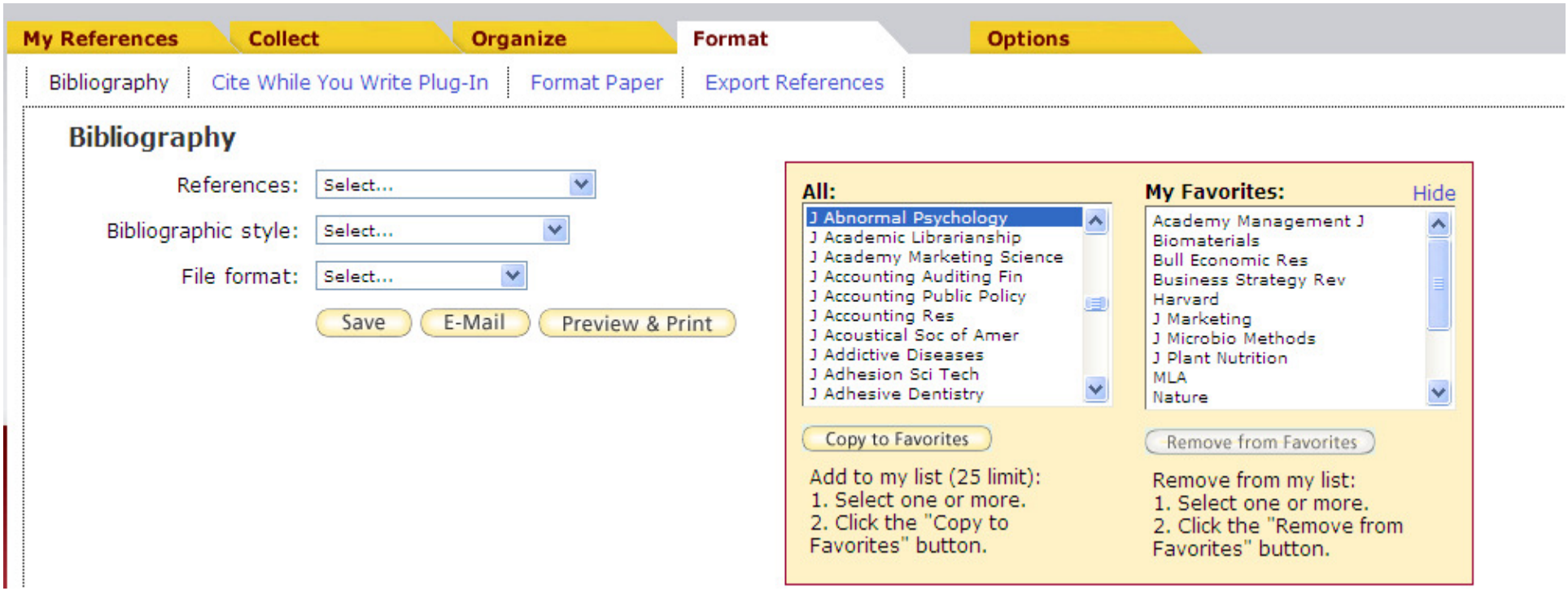
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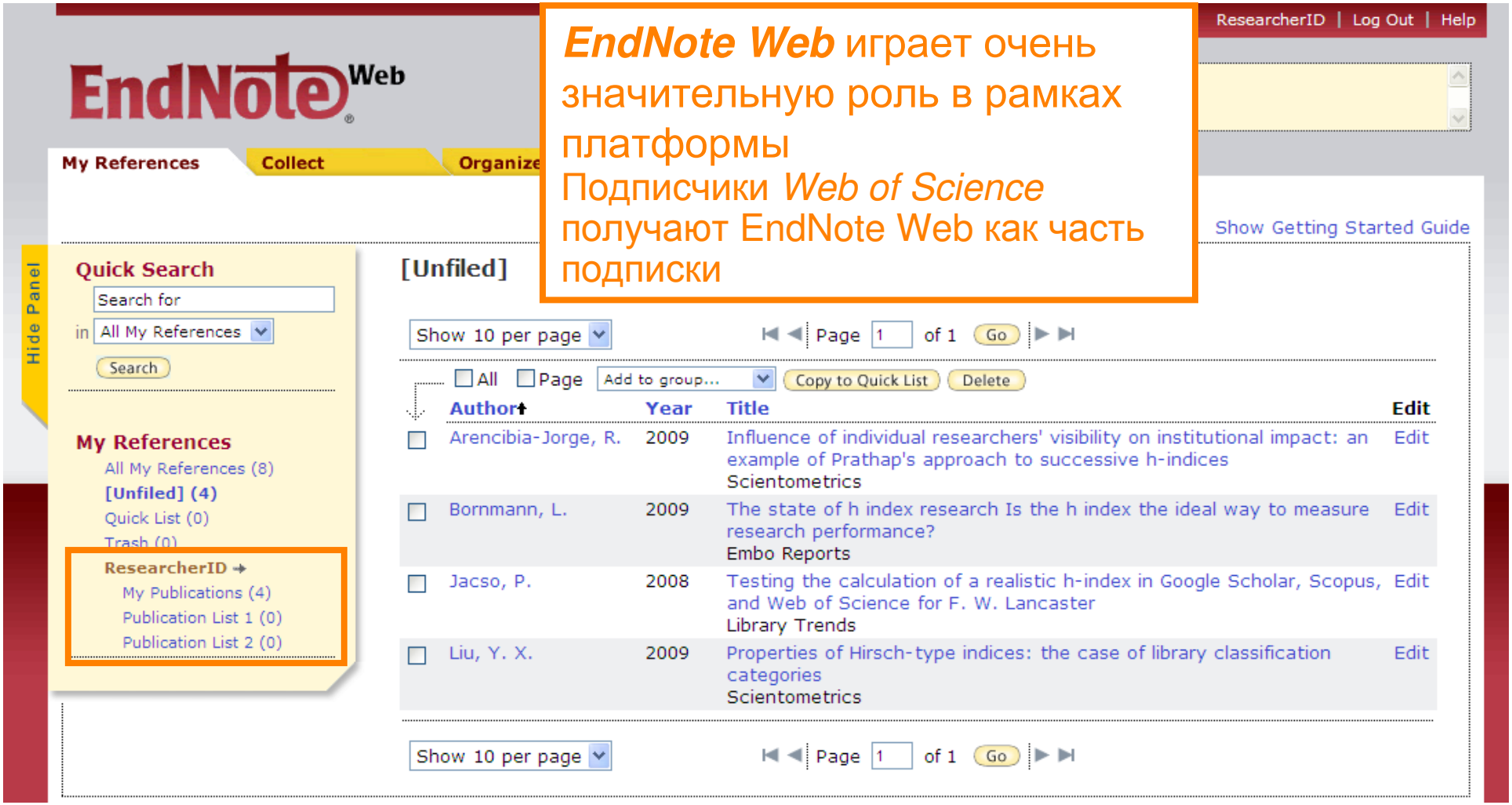

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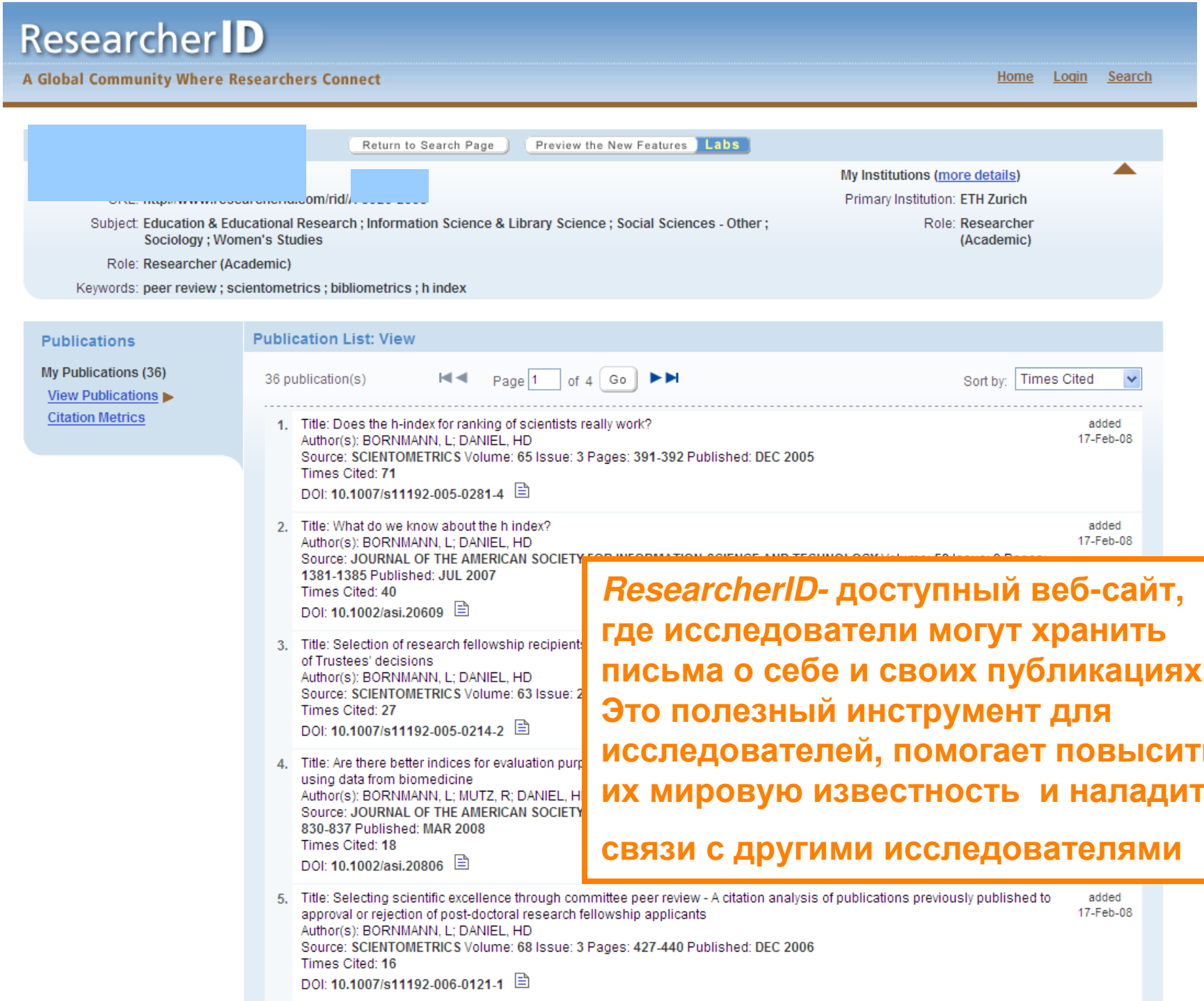

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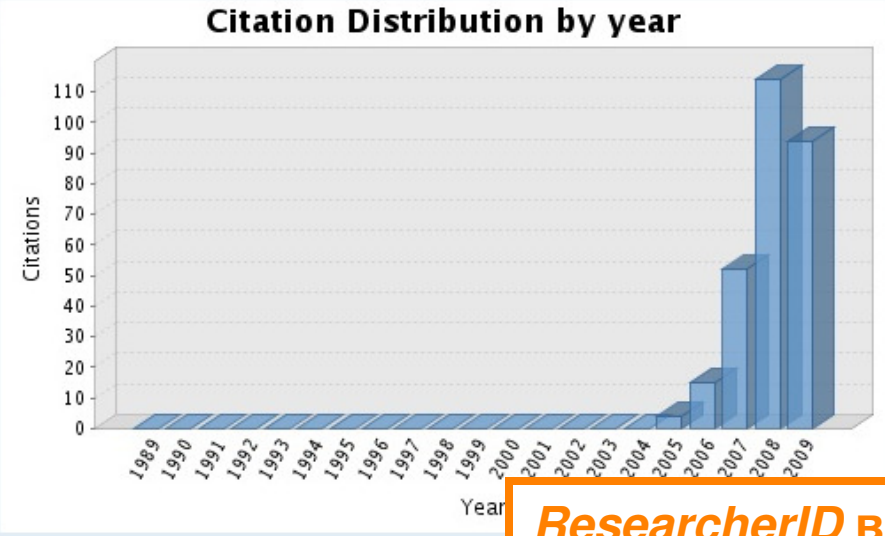

Total Articles in Publication List: 36

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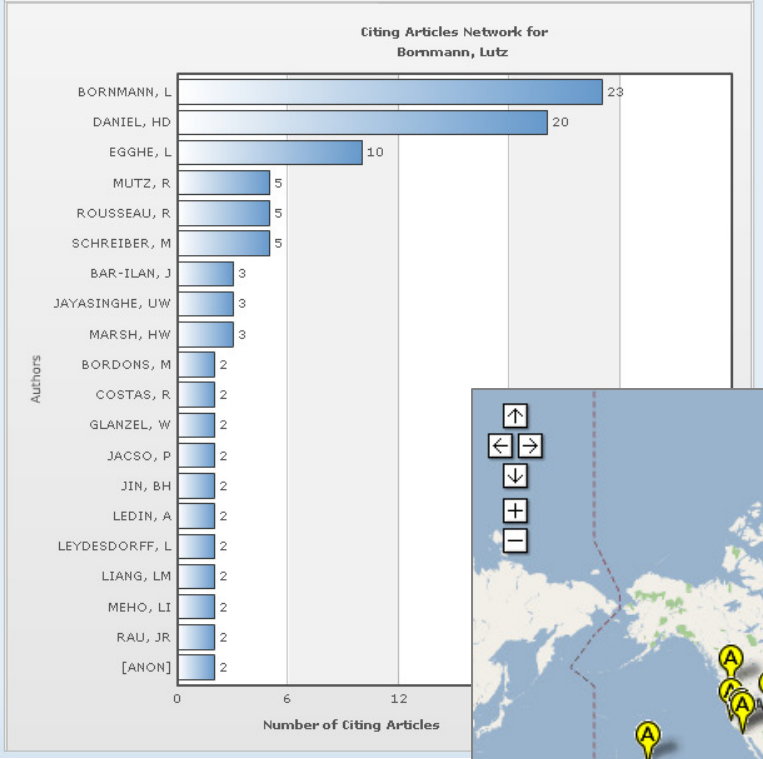

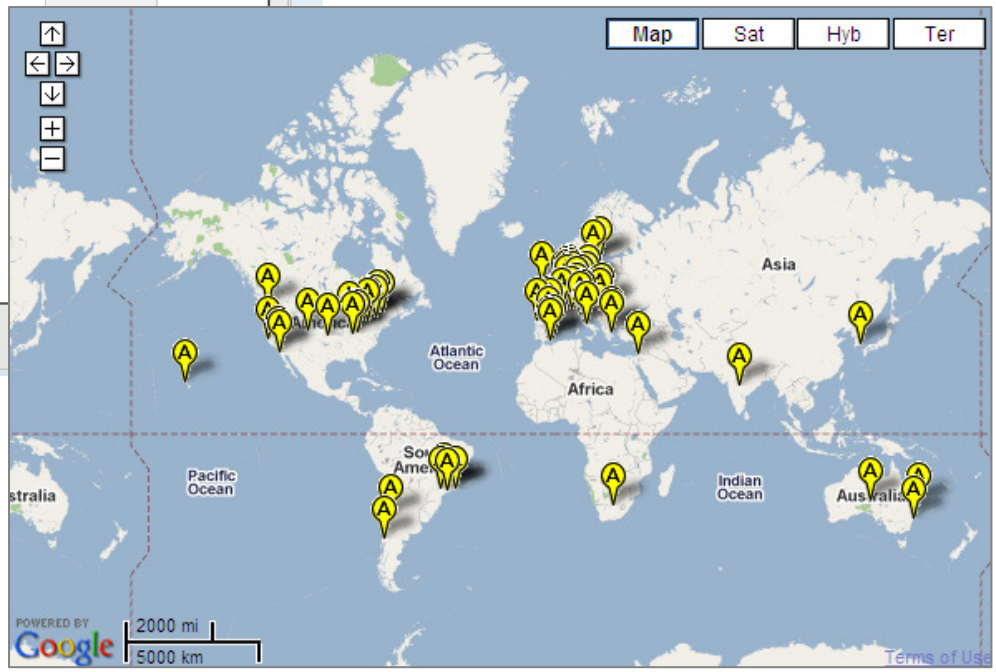

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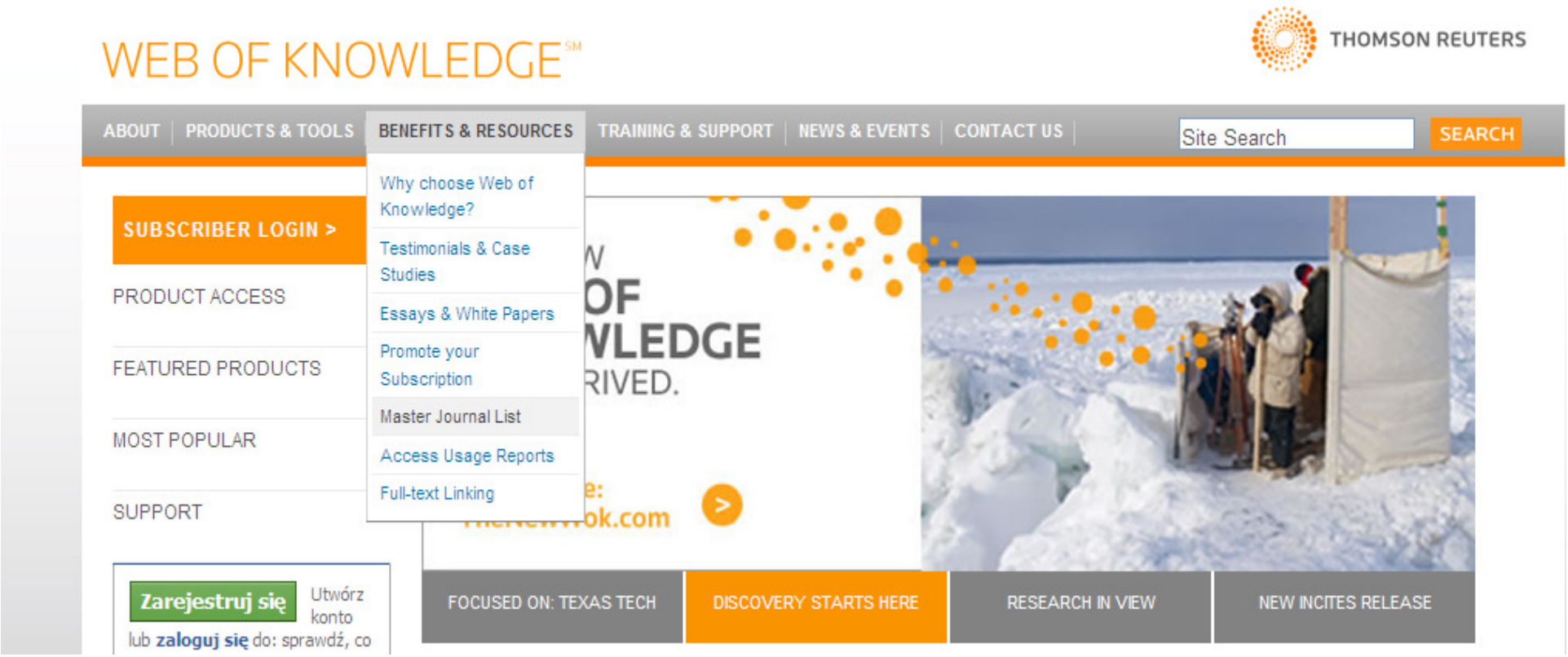

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