

Поиск и анализ научных статей в Scopus. Профиль автора и его корректировка

Андрей Локтев,
консультант по ключевым информационным решениям Elsevier

Как искать научную литературу?

Каким требованиям должен отвечать результат поиска научной литературы:

- Актуальность
- Достоверность:
 - только литература, прошедшая научное рецензирование
 - Только итоговые версии статей и монографий
- Охват
- Тематическое соответствие запросу
- Временные затраты



Scopus

крупнейшая в мире
реферативная и аналитическая
база научных публикаций и
цитирований

22 245 академических журналов
от **5 000** различных издательств включая **400+** российских изданий

65 миллионов рефератов
Более **120** тысяч книг (в рамках программы расширения книжного контента)
Более **100** стран мира

5,5 млн. материалов научных конференций
390 отраслевых изданий
25,2 миллиона патентных записей



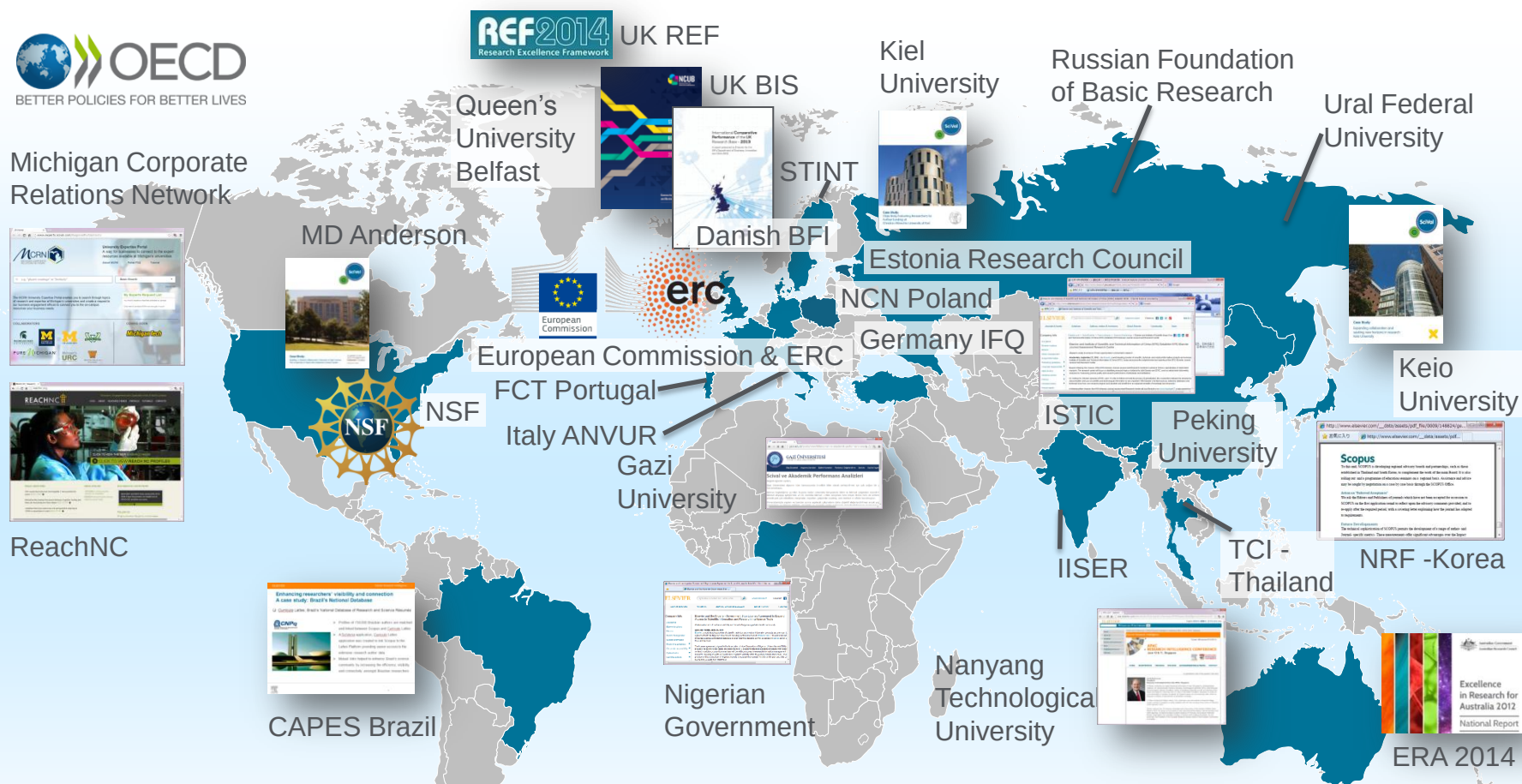
Естественно-
технические науки
6600

Медицина
6300

Биология и
смежные науки
4050

Гуманитарные
науки
6350

Данные Scopus – стандарт для оценки науки в мире



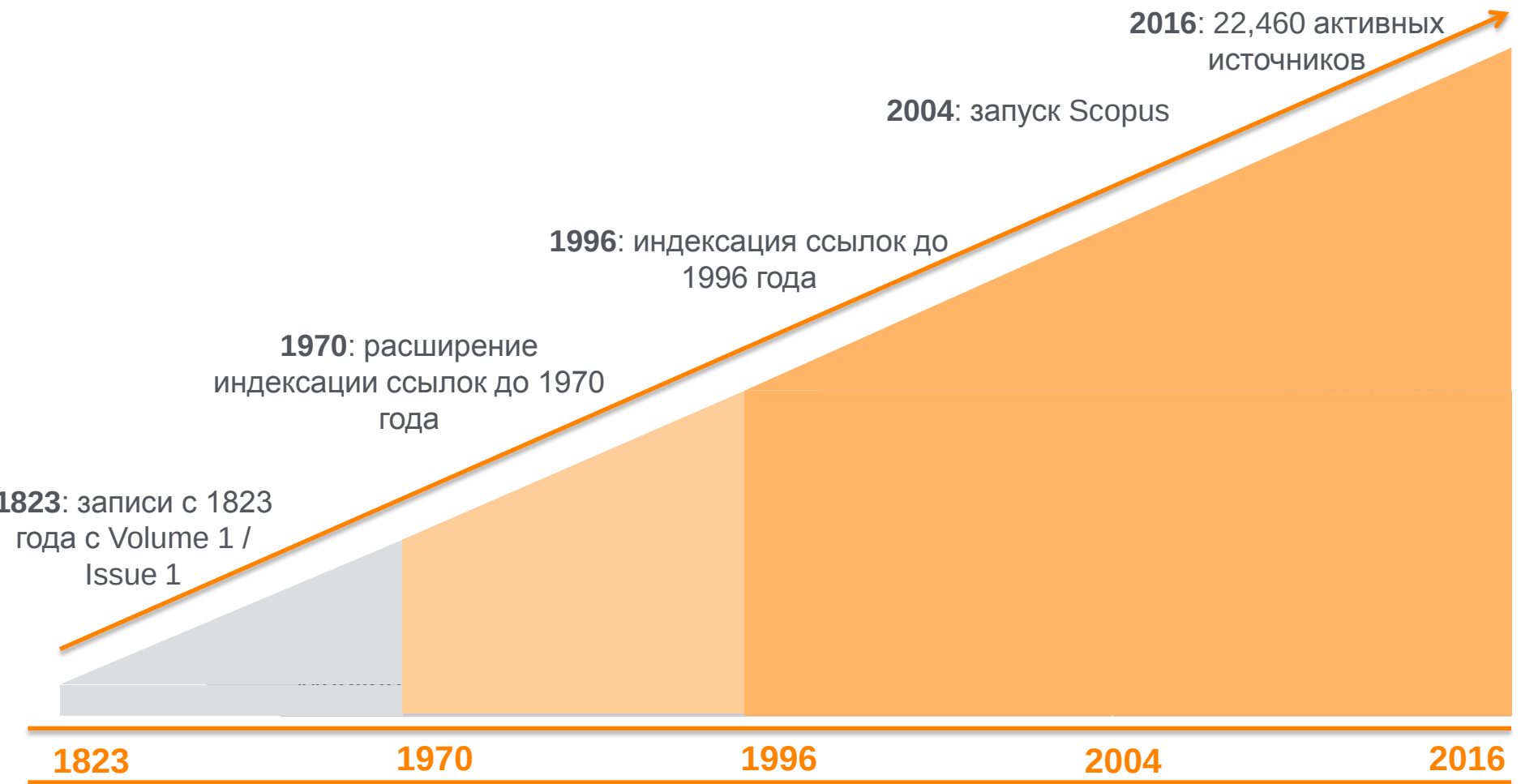
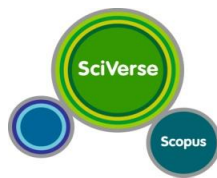
Rankings:



Scopus

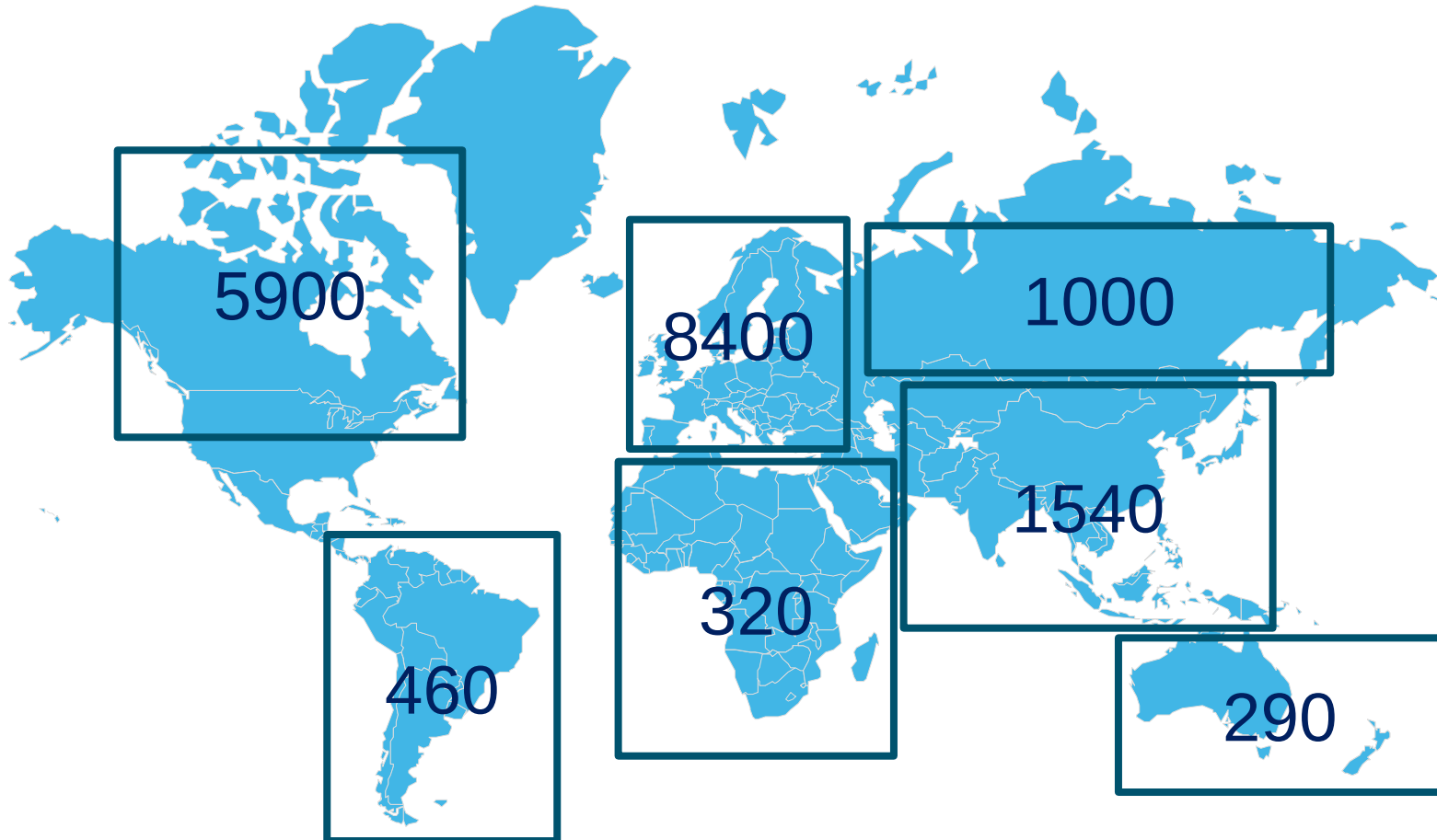
- Реферативная база данных: ресурс, который не содержит полных текстов, но предоставляет ссылки на них
- Для статей имеются библиографические описания, аннотации и списки цитируемой литературы
- Функциональность позволяет искать все статьи, ссылающиеся на данную статью
- Доступна сортировка по количеству цитирований статьи (от наиболее цитируемых к наименее)
- Базовый пакет для анализа цитирований
- Поисковый механизм позволяющий мгновенно получить и проанализировать результаты научной работы

Постоянное развитие Scopus за последние 12 лет

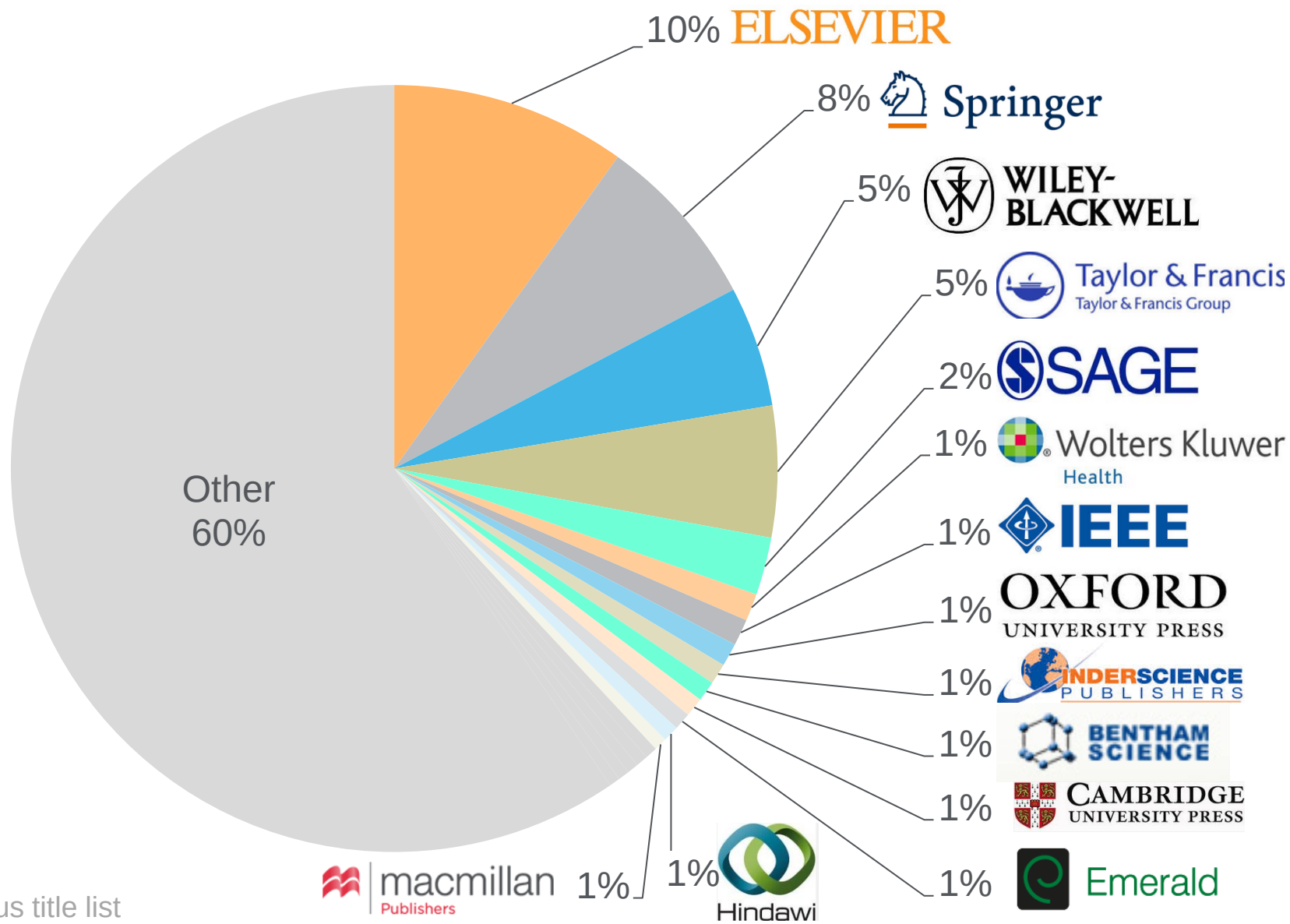
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Scopus

Кол-во изданий по географическим областям



Распределение журналов по издательствам в Scopus



Content Selection & Advisory Board Scopus



- Более 40 членов
- Включает ученых, библиотекарей, научных редакторов, специалистов по библиометрии
- 15 тематических комиссий
- Прозрачные принципы принятия и минимальные требования

Любой журнал в Scopus удовлетворяет следующим минимальным требованиям

Рецензируемые
статьи

Аннотации на
английском

Регулярная
публикации

Список источников
на латинице

Публикация
этических правил

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Document search

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[Document search](#) | [Author search](#) | [Affiliation search](#) | [Advanced search](#)

E.g., "heart attack" AND stress

[+ Add search field](#)

Limit to:

Date Range (inclusive)

☒ Published to

☐ Added to Scopus in the last days

Document Type

Subject Areas

☒ Life Sciences (> 4,300 titles .)
☒ Health Sciences (> 6,800 titles . 100% Medline coverage)

☒ Physical Sciences (> 7,200 titles .)
☒ Social Sciences & Humanities (> 5,300 titles .)

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Логические операторы

- OR
- AND
- AND NOT

Wild cards

\$ - один символ

* - 0 и более символов

Работа с поисковым запросом

- Для первичного поиска используйте комбинацию Article Title+Abstract+Keywords
- Избегайте простых слов как 'a', 'the', 'in', 'with', 'if' в качестве поискового термина

Поиск фраз

Несколько слов, разделенных пробелом, воспринимаются как соединенные AND.

Фраза в кавычках « » - примерные соответствия. При этом будут отображаться результаты в единственном и во множественном числе и падежах. По запросу «интернет-сайт» будут показаны результаты для комбинаций: интернет-сайт, интернет сайты и др.

Фраза в фигурных скобках { } - конкретная фраза.. По запросу {интернет-сайт} будут показаны только результаты для комбинации интернет-сайт.

Расширенный поиск

The screenshot shows the Elsevier Advanced Search interface. At the top, navigation links include 'Document search', 'Author search', 'Affiliation search', and 'Advanced search' (highlighted with a red box). To the right are links for 'Browse Sources' and 'Analyze Journals', along with 'Search tips' and 'Field codes' (each with a question mark icon). The main search box contains the query: `(FUND-ACR(rfbr) AND SUBJAREA(MATE) and TITLE-ABS-KEY("elastic* proper**"))`. Below the search box, a red callout box contains the text: более 40 полей поиска, включая и финансирующие фонды. At the bottom left, a list of search fields is shown, with 'SUBJAREA' selected and highlighted in blue. A red arrow points from the callout box to this list. To the right of the list, a detailed tooltip for 'SUBJAREA' is displayed, showing its code, name, and a list of possible values for the 'XX' placeholder in the example query `SUBJAREA(CHEM)`. The tooltip also includes a 'For Example:' section and a 'more info' link. At the bottom, 'Advanced search examples' are provided, including queries for author names, publication years, and specific keywords.

Document search | Author search | Affiliation search | **Advanced search** | Browse Sources | Analyze Journals

? Search tips ? Field codes

(FUND-ACR(rfbr) AND SUBJAREA(MATE) and TITLE-ABS-KEY("elastic* proper**"))

Outline query | Clear form | [Add Author name / Affiliation](#)

As you type Scopus offers code suggestions. Double click or press

REFPUBYEAR
REFSRCTITLE
REFTITLE
SEQBANK
SEQNUMBER
SRCTITLE
SRCTYPE
SUBJAREA
TITLE
TITLE-ABS-KEY
TITLE-ABS-KEY-AUTH
TRADENAME

Code: SUBJAREA
Name: Subject Area

For Example:
Entering SUBJAREA(CHEM) will return documents that classified under the subject area Chemistry.

Possible values for XX are:

Agricultural and Biological Sciences-AGRI / Arts and Humanities-ARTS / Biochemistry, Genetics and Molecular Biology-BIOC / Business, Management and Accounting-BUSI / Chemical Engineering-CENG / Chemistry-CHEM / Computer Science-COMP / Decision Sciences-DECI / Earth and Planetary Sciences-EART / Economics, Econometrics and Finance-ECON / Energy-ENER / Engineering-ENGI / Environmental Science-ENVI / Immunology and Microbiology-IMMU / Materials Science-MATE / Mathematics-MATH / Medicine-MEDI / Neuroscience-NEUR / Nursing-NURS / Pharmacology, Toxicology and Pharmaceutics-PHAR / Physics and Astronomy-PHYS / Psychology-PSYC / Social Sciences-SOCI / Veterinary-VETE / Dentistry-DENT / Health Professions-HEAL / Multidisciplinary-MULT

more info

Advanced search examples:
ALL("heart attack") AND AUTHOR-NAME(smith)
TITLE-ABS-KEY(*somatic complaint wom?n) AND PUBYEAR AFT 1993
SRCTITLE("field ornith") AND VOLUME(75) AND ISSUE(1) AND PAGES(53-66)

Расширенный поиск – помощь по ключевым словам

Code	Description	Example		
ALL	All Fields Searches the following fields: ABS, AFFIL, ARTNUM, AUTH, AUTHCOLLAB, CHEM, CODEN, CONF, DOI, EDITOR, ISBN, ISSN, ISSUE, KEY, LANGUAGE, MANUFACTURER, PUBLISHER, PUBYEAR, REF, SEQBANK, SEQNUMBER, SRCTITLE, VOLUME, and TITLE.	ALL("heart attack") returns documents with "heart attack" in any of the fields listed.		
ABS 	Abstract A summary of the document.	ABS(dopamine) returns documents where "dopamine" is in the document abstract.		
AF-ID 	Affiliation ID A unique identification number assigned to organizations affiliated with Scopus authors. For more information, see Scopus Affiliation Identifier . <table border="1"><tr><td>Note</td><td> - You cannot search using just the affiliation name. For example entering AF-ID(Harvard Medical School) would not result in a match. - Boolean operators cannot be used within the AF-ID field. </td></tr></table>	Note	- You cannot search using just the affiliation name. For example entering AF-ID(Harvard Medical School) would not result in a match. - Boolean operators cannot be used within the AF-ID field.	AF-ID(Harvard Medical School 3000604) or AF-ID(3000604) returns documents written by authors affiliated with Harvard Medical School and variants of that name stored in Scopus.
Note	- You cannot search using just the affiliation name. For example entering AF-ID(Harvard Medical School) would not result in a match. - Boolean operators cannot be used within the AF-ID field.			
AFFIL 	Affiliation When searching the AFFIL field, you can specify if you want all of your search terms to be found in the same affiliation. For more information and examples see Searching Affiliations and References	- To find documents where your search terms occur in the same affiliation, use: AFFIL(london and hospital) - To find documents where both terms appear in a document's affiliation, but not necessarily in the same affiliation, use: AFFIL (london) and AFFIL (hospital)		

Поиск статей и обзор научных направлений

Отображение поискового запроса (в том числе примененных фильтров) и возможность его редактирования

Различные варианты сортировки

Возможность поиска внутри полученных результатов

Возможность фильтрации (ограничение/исключение) по нескольким фильтрам сразу

Пreview результатов фильтрации без перезагрузки страницы

(TITLE-ABS-KEY (anti*coagul*) AND TITLE-ABS-KEY (thromb* agent*))

21,298 document results | View secondary documents | View 144 patent results | Analyze search results | Sort on: Date Cited by Relevance

Search within results...

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Limit to Exclude

Year

- ☐ 2015 (493)
- ☐ 2014 (1,39)
- ☐ 2013 (1,32)
- ☐ 2012 (1,24)
- ☐ 2011 (1,08)

Author Name

- ☐ Lip, G.Y.H. (253)
- ☐ Fareed, J. (146)
- ☐ Hirsh, J. (97)
- ☐ Fuster, V. (90)
- ☐ Turpie, A.G.G. (75)

Subject Area

- ☐ Medicine (18,444)
- ☐ Pharmacology, Toxicology and Pharmaceuticals (2,398)
- ☐ Biochemistry, Genetics and Molecular Biology (2,026)

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During PCI for Patients with Stable Angina	Iqbal, A., Rodriguez, F., Schirmer, H.	2015	Current Cardiology Reports	0
Platelet and antithrombotic activity of a fibrin(ogen)olytic	Majumdar, S., Dutta, S., Das, T., Chattopadhyay, P., Mukherjee, A.K.	2015	International Journal of Biological Macromolecules	0
Is the use of risk scores an indicator of guideline adherence for 3 patients with acute coronary syndromes? Insights from the EYESHOT registry	De Luca, L., Leonardi, S., Tubaro, M., (...), Gulizia, M.M., De Servi, S.	2015	International Journal of Cardiology	0
Guidelines on stroke on a cross-sectional	Van Doorn, S., Hartman-Weide, F., Geersing, G.-J., (...), Hoes, A.W., Rutten, F.H.	2015	International Journal of Cardiology	0
Dual Antiplatelet Therapy in Acute Ischemic Stroke	Asdaghi, N., Romano, J.G.	2015	Current Atherosclerosis Reports	0
Rationale and design of the RT-AF study: Combination of rivaroxaban and ticagrelor in patients with atrial fibrillation and coronary artery disease undergoing percutaneous coronary intervention	Gao, F., Shen, H., Wang, Z.J., (...), Liu, X.L., Zhou, Y.J.	2015	Contemporary Clinical Trials	0

Основные проблемы при поиске

- Слишком много результатов
- Слишком мало результатов
- Результаты достаточно, но они не по теме



Слишком много результатов

- Добавьте еще ключевых слов в запрос или выберите из предложенных
- Ограничьте временной диапазон самыми новыми результатами
- От поиска по комбинации (название-аннотация-ключевые слова) перейдите к поиску только по названию
- Ограничьте поиск только обзорными статьями (review)
- Ограничьте перечень журналов наиболее престижными

Document Type ^		
☐	Article	(71,936)
☐	Conference Paper	(18,373)
☐	Review	(2,104)
☐	Conference Review	(795)
☐	Book Chapter	(668)

Слишком мало результатов

- Используйте ключевые слова из найденных статей вместо ваших
- Проверьте возможность альтернативного написания в поисковом запросе
- Добавьте больше вариантов (OR)
- Снимите имеющиеся временные и географические ограничения

Keyword		
☐	Diamonds	(19,575) >
☐	Diamond	(9,834) >
☐	Article	(9,078) >
☐	Diamond films	(7,999) >
☐	Chemical vapor deposition	(7,526) >
☐	Human	(4,772) >
☐	Scanning electron microscopy	(4,518) >
☐	Carbon	(4,432) >
☐	Raman spectroscopy	(3,730) >
☐	Diamond cutting tools	(3,595) >
View more View fewer		

Результатов достаточно, но они не по теме

- Убедитесь, что символы-заменители не ведут к появлению ненужных слов, например, замените **car*** на **(car OR cars)**, чтобы убрать из поиска слова **careful, cara** и др.
- Если вы ищете устойчивые словосочетания, они должны быть заключены в кавычки или фигурные скобки
- Исключите неподходящие значения, например: **jaguar NOT car**, если вы ищете животное
- Ограничьте поиск только названием и ключевыми словами
- Ограничьте область знания

Subject Area ^	
☐ Physics and Astronomy	(40,947)
☐ Materials Science	(36,236)
☐ Engineering	(31,321)
☐ Chemistry	(11,636)
☐ Earth and Planetary Sciences	(7,547)
☐ Medicine	(5,342)
☐ Chemical Engineering	(4,672)
☐ Computer Science	(3,685)
☐ Biochemistry, Genetics and Molecular Biology	(3,266)
☐ Environmental Science	(3,006)

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Year

- ☐ 2014 (28)
- ☐ 2013 (58)
- ☐ 2012 (64)
- ☐ 2011 (11)
- ☐ 2010 (22)
- ☐ 2009 (6)
- ☐ 2008 (9)
- ☐ 2007 (7)
- ☐ 2006 (11)
- ☐ 2005 (18)

Author Name

Subject Area

Document Type

Source Title

- ☐ Human Ecology (93)
- ☐ International Journal of Circumpolar Health (13)
- ☐ Arkhiv Patologii (6)
- ☐ Critical Care (5)
- ☐ Critical Care Medicine (5)

Keyword

Affiliation

Country

- ☐ Russian Federation (205)
- ☐ Norway (115)

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1 diversity[Full Text](#)[View at Publisher](#)☐ WHO guidelines for the programmatic management of drug-resistant
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7 tuberculosis isolates in the Archangel prison in Russia: Predominance of
the W-Beijing clone family[Full Text](#)[View at Publisher](#)☐ Probiotics restore bowel flora and in
8 alcohol-induced liver injury: a pilot study[Full Text](#)[View at Publisher](#)☐ Two Sources of the Russian Patrilineal

Как меняется
активность по
годам?

Кто наиболее
публикуемые
авторы?

Какие журналы
содержат
публикации?

В каких странах
и организациях
ведутся
исследования?

heva, N.,
Chariev, 2001 Proceedings of the National
Academy of Sciences of the
United States of America 256

Falzon, D., Jaramillo, E.,
Schünemann, H.J., (...),
White, R.A., Zignol, M. 2011 European Respiratory Journal 152

Migliori, G.B., Besozzi, G.,
Girardi, E., (...), Hollo, V.,
Mariandyshev, A. 2007 European Respiratory Journal 135

O.V., 2001 Critical Care Medicine 87

-Stone, 2002 Journal of the American
Academy of Child and
Adolescent Psychiatry
41 (3), pp. 322-329 85
Cited by

Y., 2006 Critical Care Medicine 84

es, L.J.

Toungoussova, O.S.,
Mariandyshev, A., Bjune, G.,
t, D.A. 2003 Clinical Infectious Diseases 80

ta, N.V.,
McClain, 2008 Alcohol 55

si, S., 2008 American Journal of Human 52

Запись/реферат в Scopus

Данные по цитируемости

Advanced Materials

Volume 13, Issue 1, 5 January 2001, Pages 11-22

Nanoengineering of particle surfaces

Caruso, F. 

Max Planck Inst. Colloids Interfaces, D-14424 Potsdam, Germany

Подробная информация о статье

Abstract

[View references \(140\)](#)

The creation of core-shell particles is attracting a great deal of interest because of the diverse applicability of these colloidal particles. The state-of-the-art strategies for engineering particle surfaces are presented such as the layer-by-layer deposition process. Many of the approaches for constructing composite-colloidal entities are still in their infancy. The fabrication of nanostructured particles with designed interface structure-property relationships is likely to be paved. This will narrow the gap that exists between thin film fabrication on planar surfaces and colloidal particles.

Indexed keywords

Engineering controlled terms: Colloids; Composition; Deposition; Particle size analysis; Surface chemistry**Engineering uncontrolled terms:** Core-shell particles; Photonic crystals**Engineering main heading:** Nanostructured materials**Ссылки на вэб и патенты**

ISSN: 09359648 CODEN: ADVME Source Type: Journal Original language: English

DOI: 10.1002/1521-4095(200101)13:1<11::AID-ADMA11>3.0.CO;2-N Document Type: Article

Publisher: Wiley-VCH Verlag Berlin GmbH, Weinheim, Germany

References (140)

First 80 references displayed ([View all references](#))**Пристатейная литература**[View in search results format](#)[Page](#) [Export](#) [Print](#) [E-mail](#) [Create bibliography](#)[Wilcox, D.L.](#), [Berg, M.](#), [Bernat, T.](#), [Kellerman, D.](#), [Cochran, J.K.](#)

Cited by 1897 documents since 1990

A simple hydrogen peroxide biosensor based on a novel electro-magnetic poly(p-phenylenediamine) nanocomposite

Baghayeri, M., Nazarzadeh Zare, E., Mansour Lakouraj, M. (2014) Biosensors and Bioelectronics

Colloidal construction of porous polysaccharide-supported cadmium sulphide

White, R.J., Budarin, V.L., Clark, J.H. (2014) Colloids and Surfaces A: Physicochemical and Engineering Aspects

Nanocomposite hydrogels for biomedical applications

Gaharwar, A.K., Peppas, N.A., Khademhosseini, A. (2014) Biotechnology and Bioengineering

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Magnetic nanocomposite particles and hollow spheres constructed by a sequential layering approach

Caruso, F., Spasova, M., Susha, A. (2001) Chemistry of Materials

Core-shell particles and hollow shells containing metallo-supramolecular components

Caruso, F., Schüller, C., Kurth, D.G. (1999) Chemistry of Materials

Generation of Complex Colloids by Polyelectrolyte-Assisted Electrostatic Self-Assembly

Caruso, F. (2004) Australian Journal of Chemistry

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Nature Methods

Volume 10, Issue 6, April 2013, Pages 563-569

Nonhybrid, finished microbial genome assemblies from long-read SMRT sequencing data (Article)

Chin, C.-S.^a, Alexander, D.H.^a, Marks, P.^a, Klammer, A.A.^a, Drake, J.^a, Heiner, C.^a, Cium, A.^b, Copeland, A.^b, Huddleston, J.^c, Eichler, E.E.^c, Turner, S.W.^a, Kortach, J.^a^a Pacific Biosciences, Menlo Park, CA, United States^b Joint Genome Institute, Walnut Creek, CA, United States^c Department of Genome Sciences, University of Washington, Seattle, WA, United States

View additional affiliations

Abstract

View references (44)

We present a hierarchical genome-assembly process (HGAP) for high-quality de novo microbial genome assemblies using only a single, long-insert shotgun DNA library in conjunction with Single Molecule, Real-Time (SMRT) DNA sequencing. Our method uses the longest reads as seeds to recruit all other reads for construction of highly accurate preassembled reads through a directed acyclic graph-based consensus procedure, which we follow with assembly using off-the-shelf long-read assemblers. In contrast to hybrid approaches, HGAP does not require highly accurate raw reads for error correction. We demonstrate efficient genome assembly for several microorganisms using as few as three SMRT Cell zero-mode waveguide arrays of sequencing and for BACs using just one SMRT Cell. Long repeat regions can be successfully resolved with this workflow. We also describe a consensus algorithm that incorporates SMRT sequencing primary quality values to produce de novo genome sequence exceeding 99.999% accuracy. © 2013 Nature America, Inc. All rights reserved.

Indexed keywords

EMTREE medical terms: algorithm; article; bacterial cell; bacterial genome; consensus; DNA library; DNA sequence; Escherichia coli; microbial genetics; microorganism; nonhuman; Pedobacter heparinus; priority journal; bacterial artificial chromosome; bacterial genome; DNA sequence; gene library; genetics; human; methodology; nucleotide repeat

MeSH: Chromosomes, Artificial; Bacterial; Escherichia coli; Gene Library; Genome, Bacterial; Humans; Repetitive Sequences, Nucleic Acid; Sequence Analysis, DNA
Medline is the source for the MeSH terms of this document.

ISSN: 15467091 Source Type: Journal Original language: English
DOI: 10.1038/nmeth.2474 PubMed ID: 23644548 Document Type: Article

References (44)

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- Medini, D., Serruto, D., Parkhill, J., Reiman, D.A., Donati, C., Moxon, R., Falkow, S., (...), Rappuoli, R.

Microbiology in the post-genomic era

(2008) *Nature Reviews Microbiology*, 6 (6), pp. 419-430. Cited 170 times.
doi: 10.1038/nrmicro1901

View at Publisher

- Parkhill, J., Wren, B.W.

- Bacterial epidemiology and biology - lessons from genome sequencing

Cited by 111 documents

Complete genome sequence of the petroleum-emulsifying bacterium *Pseudomonas stutzeri* SLG510A3-8

Hu, B., Nie, Y., Geng, S.
(2015) *Journal of Biotechnology*

Complete genome sequence of *Burkholderia pyrrocinia* 2327^T, the first industrial bacterium which produced antifungal antibiotic pyrrolnitrin

Kwak, Y., Shi, J.-H.
(2015) *Journal of Biotechnology*

Complete genome sequence of *Lactobacillus salivarius* Ren, a probiotic strain with anti-tumor activity

Sun, E., Ren, F., Liu, S.
(2015) *Journal of Biotechnology*

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Related documents

Reducing assembly complexity of microbial genomes with single-molecule sequencing

Koren, S., Harhay, G.P., Smith, T.P.L.
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- ☐ 2008 (31)
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- ☐ Makino, Y. (18)
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Fomin, V.M., Tretyakov, P.K., Taran, J.-P. 2004 Aerospace Science and Technology 59

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Shaping and inclusion of spike on a supersonic aircraft for controlling and reducing sonic boom
EUROPEAN PATENT APPLICATION, December 2012

Henne, Preston ; Howe, Donald ; Wolz, Robert ; Hancock, Jimmy (Gulfstream Aerospace Corporation)

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FUSELAGE SHAPING AND INCLUSION OF SPIKE ON A SUPERSONIC AIRCRAFT FOR CONTROLLING AND REDUCING SONIC BOOM

EUROPEAN PATENT, September 2009

HENNE, Preston ; HOWE, Donald ; WOLZ, Robert ; HANCOCK, Jimmy (Gulfstream Aerospace Corporation)

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PASSIVE AERODYNAMIC SONIC BOOM SUPPRESSION FOR SUPERSONIC AIRCRAFT

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HARTMANN, Tom ; MORGENSTERN, John, M. (Lockheed Martin Corporation)

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SUPERSONIC AIRCRAFT WITH ACTIVE LIFT DISTRIBUTION CONTROL FOR REDUCING SONIC BOOM

PATENT COOPERATION TREATY APPLICATION, August 2006

ADAMSON, Eric E. ; NELSON, Chester P. (THE BOEING COMPANY)

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SYSTEMS AND METHODS FOR CONTROLLING A MAGNITUDE OF A SONIC BOOM

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Author Name

☐ Vestbo, J.	(53)
☐ Mannino, D.M.	(51)
☐ Sin, D.D.	(44)
☐ Postma, D.S.	(43)

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Chest

Volume 149, Issue 4, April 2016, Pages 1061–1073



Original Research: Pulmonary Vascular Disease

Hemodynamic Thresholds for Precapillary Pulmonary Hypertension

Part of this article has been presented at the 2013 European Society of Cardiology conference, Amsterdam, The Netherlands; and at the 2013 American Thoracic Society conference, Philadelphia, PA.

Christian Gerges, MD^a, Mario Gerges, MD^a, Nika Skoro-Sajer, MD^a, Yi Zhou, PhD^b, Lixia Zhang, PhD^b, Roela Sadushi-Kolici, MD^a, Johannes Jakowitsch, PhD^a, Marie B. Lang, MD^a, Irene M. Lang, MD^a

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Author Name

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- ☐ Kajikawa, Y. (8)
- ☐ Sakata, I. (8)
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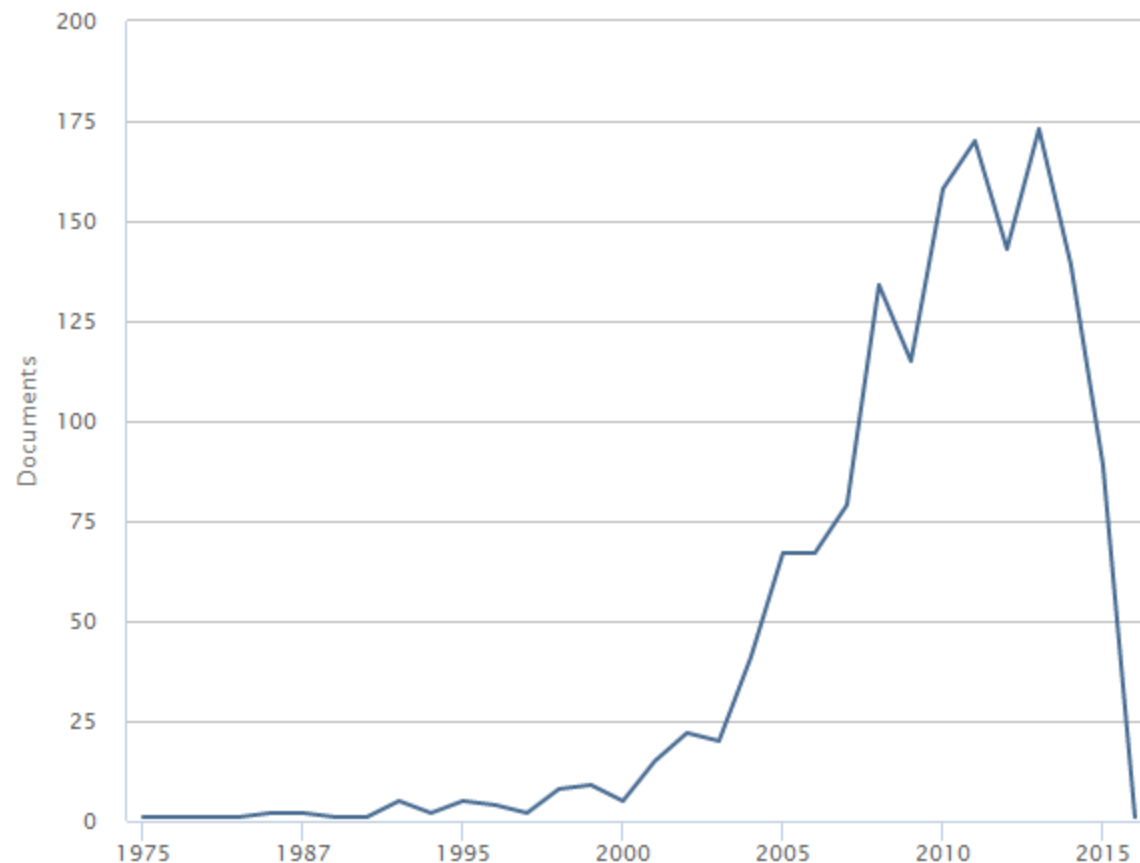
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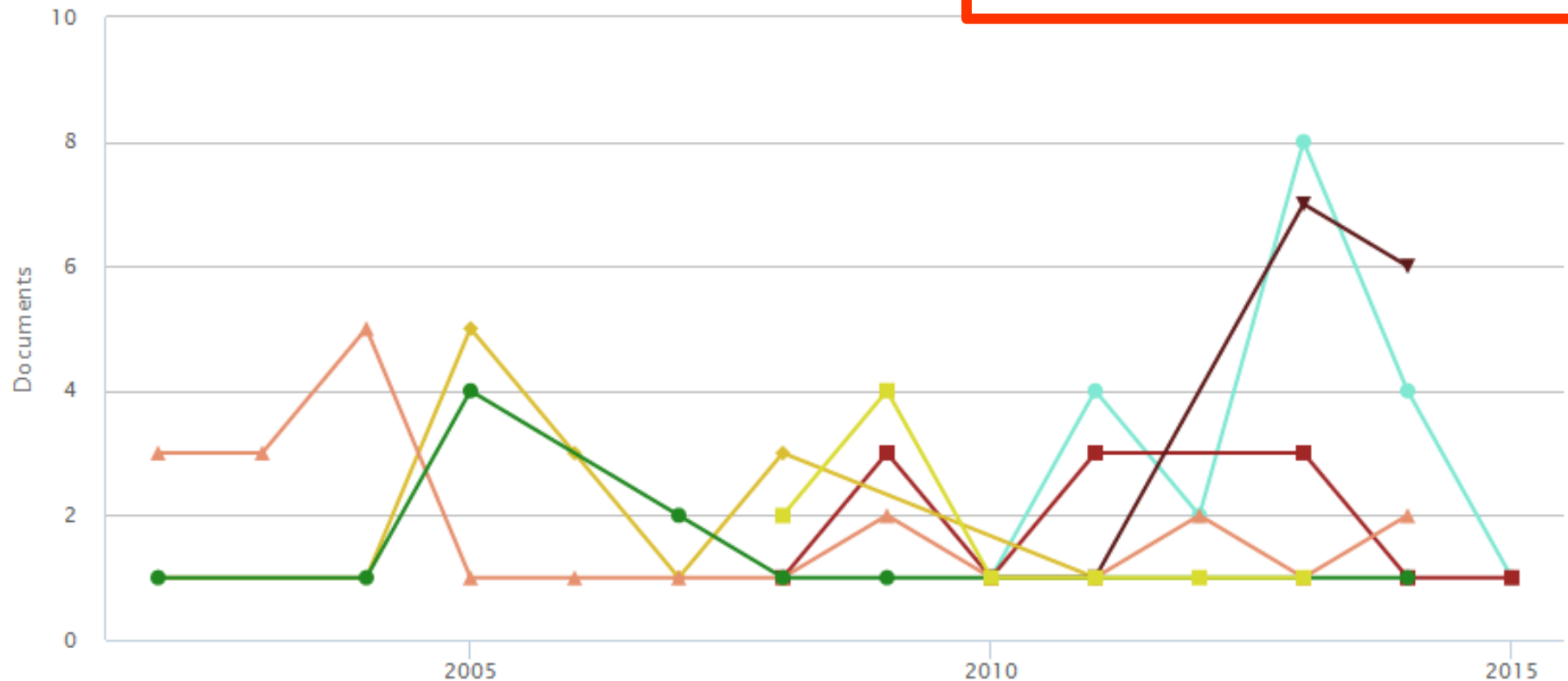


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- Разработчик: Henk Moed, CWTS



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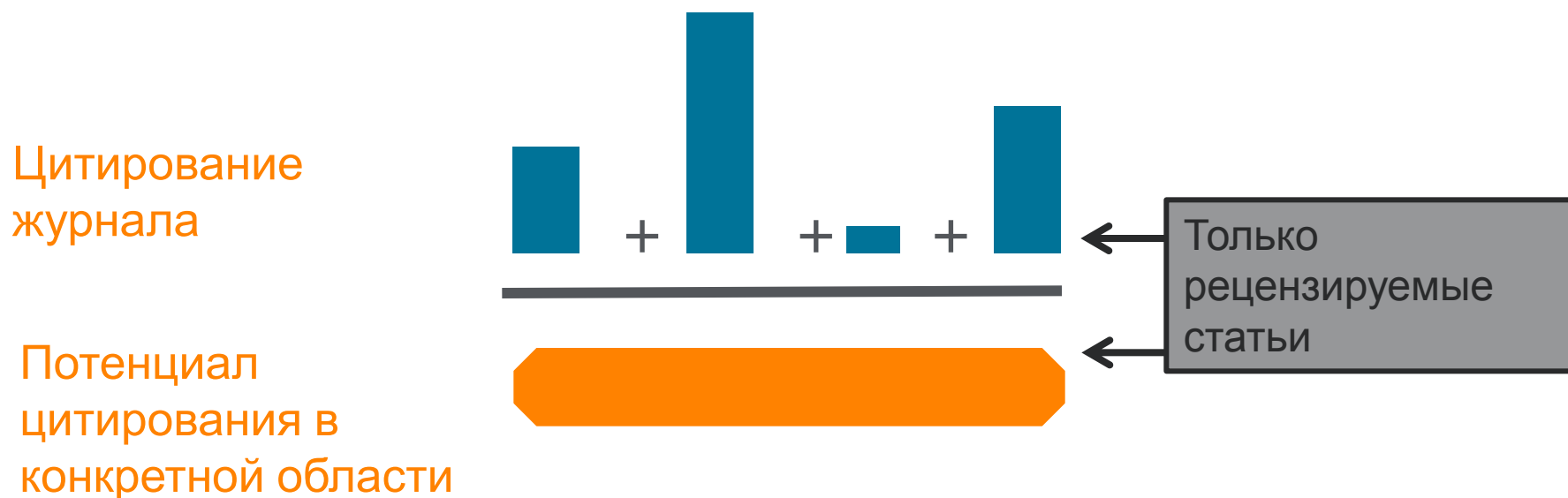
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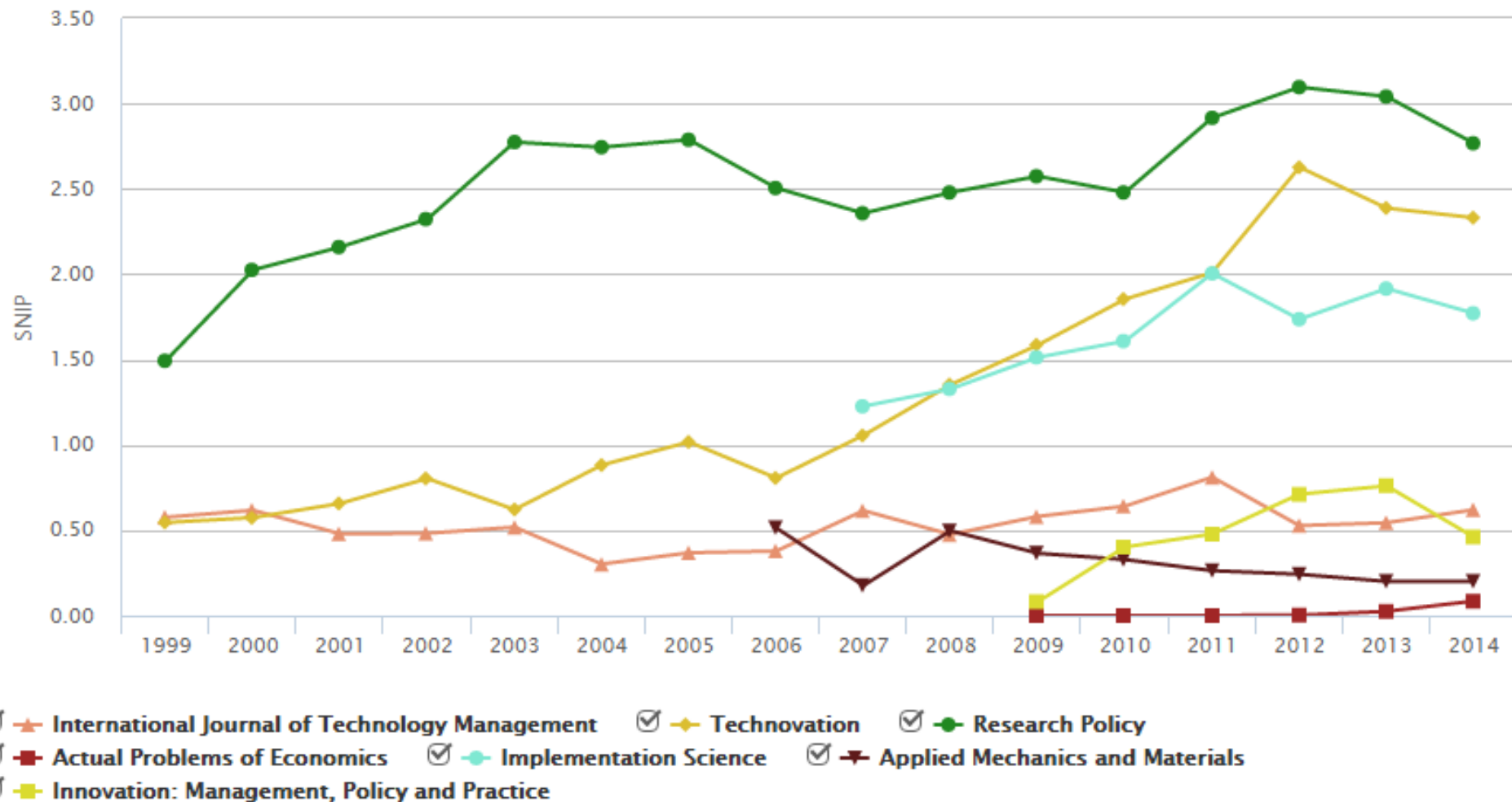
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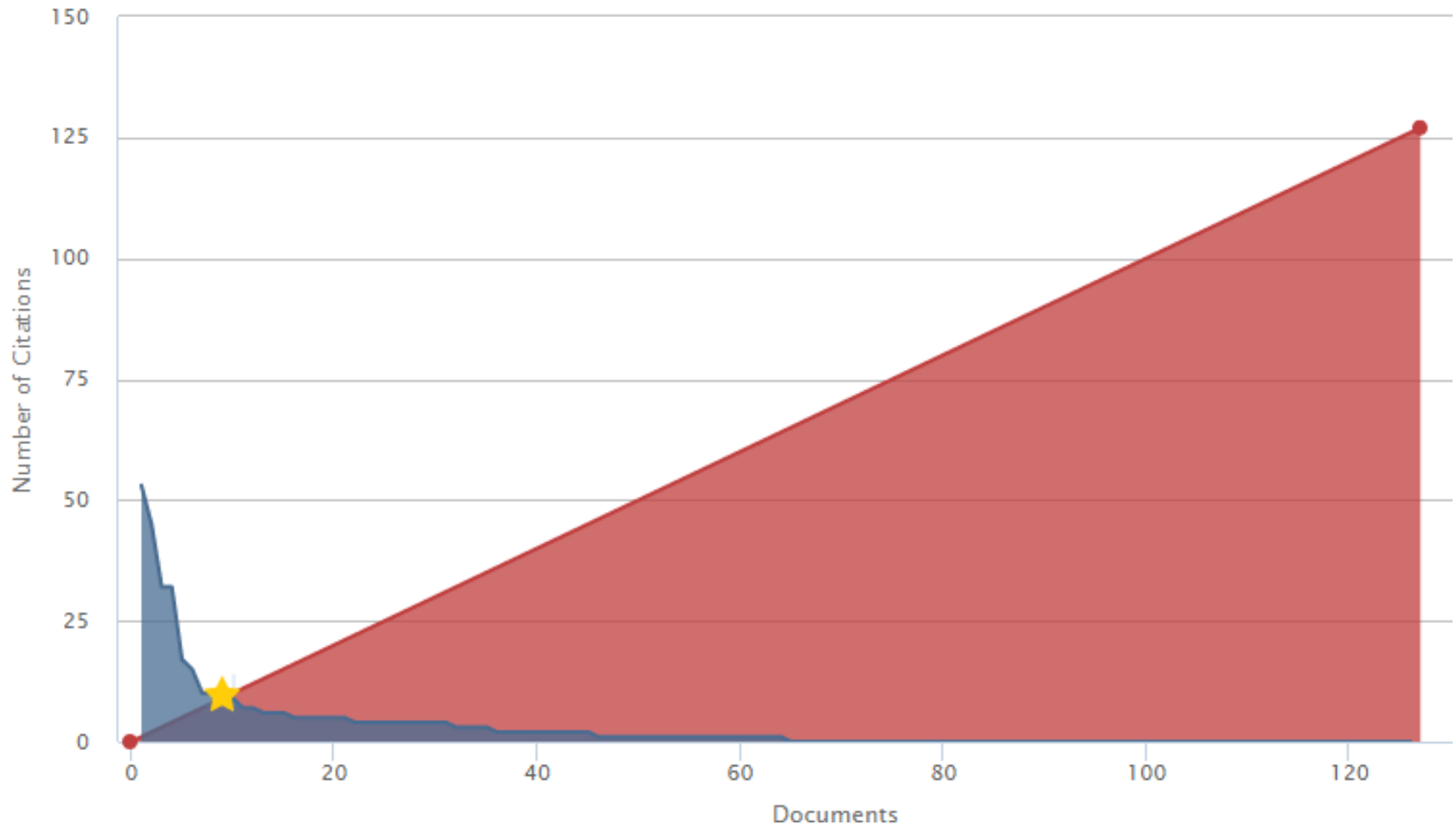
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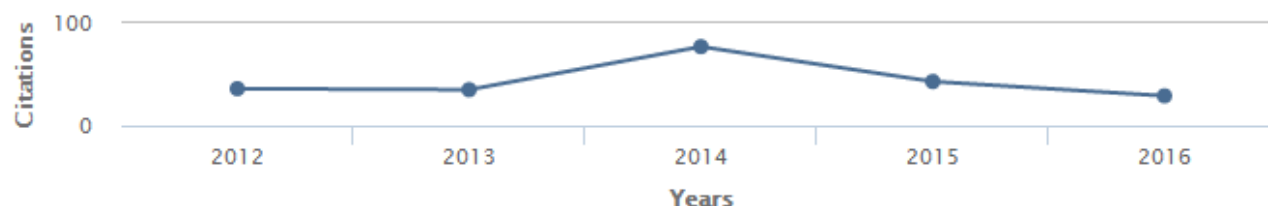


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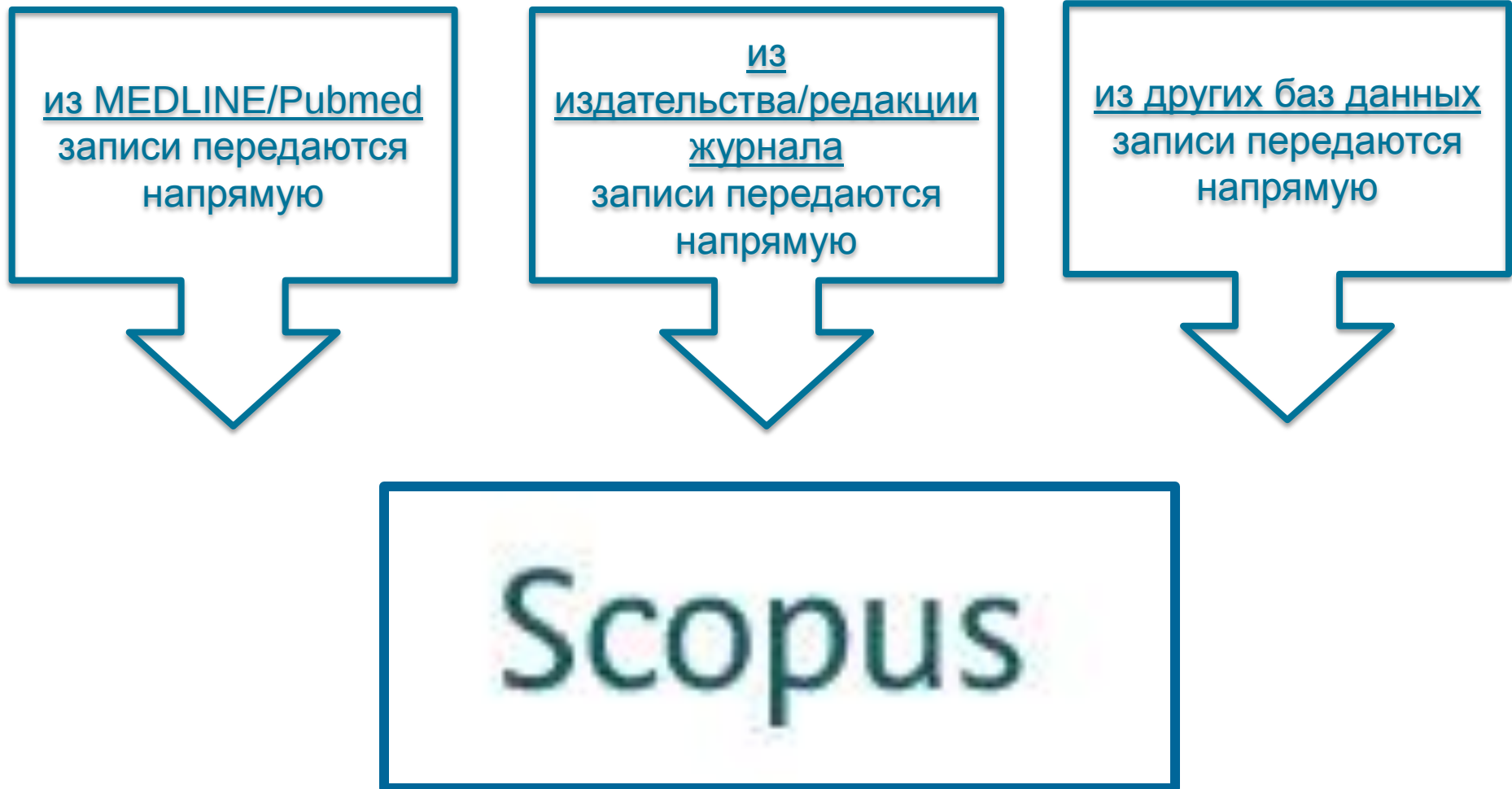
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PROCESSING AND COMPLEX USAGE OF MINERAL RAW MATERIALS

Title Copper-molybdenum ore beneficiation by flotation and bio-hydrometallurgical combination technology

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Khandmaa S., Director of the Center for Technology Development

Abstract The objective of the present study was to find regular patterns in processing of complex copper-molybdenum ore by flotation and bio-hydrometallurgical method and to choose application conditions for combination of the methods. As a result of the studies, the indexes and parameters of acid and bio-hydrometallurgical leaching of middling products were related with the grain size of the products, acidity of the medium, leaching duration, and temperature and density of the pulp slurry. The recommended optimum conditions for flotation of middling products are pH range from 10.2 to 10.5 at 72 to 75% content of mineral particles -74 µm in size. The best performance of bacterium-acid leaching is reached at the concurrent feed of biomass and acid at the pulp slurry density of 50% and the medium temperature of 32-36°C. The developed combination scheme and dressing technology for middling products of copper-molybdenum ore bulk flotation includes ore grinding, flotation of sulfide minerals, bacterium leaching of flotation tailings, liquid-phase extraction of dissolved copper and electrolysis of re-extraction column effluents.

Keywords Copper-molybdenum ore, flotation, processing of middling products, sorption extraction

1. Shadrunkova I. V., Starostina N. N., Astafeva N. I. *Termodinamicheskiy Analiz Vzaimodeystviya Sulfidov Medi, Tsinka i Zheleza V Slabykh Sermokislykh Rastvorakh (Thermodynamic Analysis of Interconnection of Copper, Zinc and Iron Sulphides in Weak Sulfuric Acid Solutions). Voprosy prikladnoy khimii: Mezhdunarodnyy sbornik (Problems of Applied Chemistry: Interuniversity Collection)*. Magnitogorsk: Magnitogorsk State Technical University, 2011, No. 2, pp. 61-65.
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Copper-molybdenum ore beneficiation by flotation and bio-hydrometallurgical combination technology (Article)

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Abstract

The objective of the present study was to find regular patterns in processing of complex copper-molybdenum ore by flotation and bio-hydrometallurgical method and to choose application conditions for combination of the methods. As a result of the studies, the indexes and parameters of acid and bio-hydrometallurgical leaching of middling products were related with the grain size of the products, acidity of the medium, leaching duration, and temperature and density of the pulp slurry. The recommended optimum conditions for flotation of middling products are pH range from 10.2 to 10.5 at 72 to 75% content of mineral particles -74 µm in size. The best performance of bacterium-acid leaching is reached at the concurrent feed of biomass and acid at the pulp slurry density of 50% and the medium temperature of 32-36°C. The developed combination scheme and dressing technology for middling products of copper-molybdenum ore bulk flotation includes ore grinding, flotation of sulfide minerals, bacterium leaching of flotation tailings, liquid-phase extraction of dissolved copper and electrolysis of re-extraction column effluents.

Author keywords

Bacterium-acid leaching; Combination schemes; Copper-molybdenum ore; Flotation; Processing of middling product; Sorption extraction

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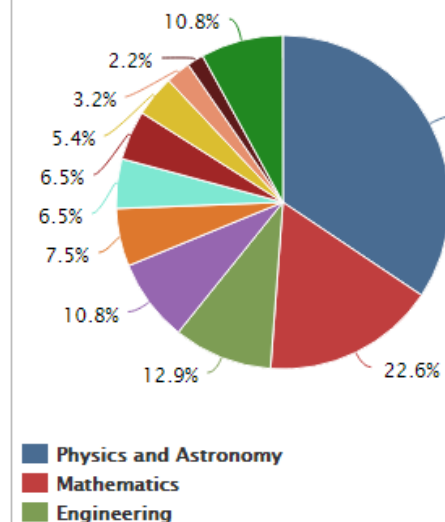
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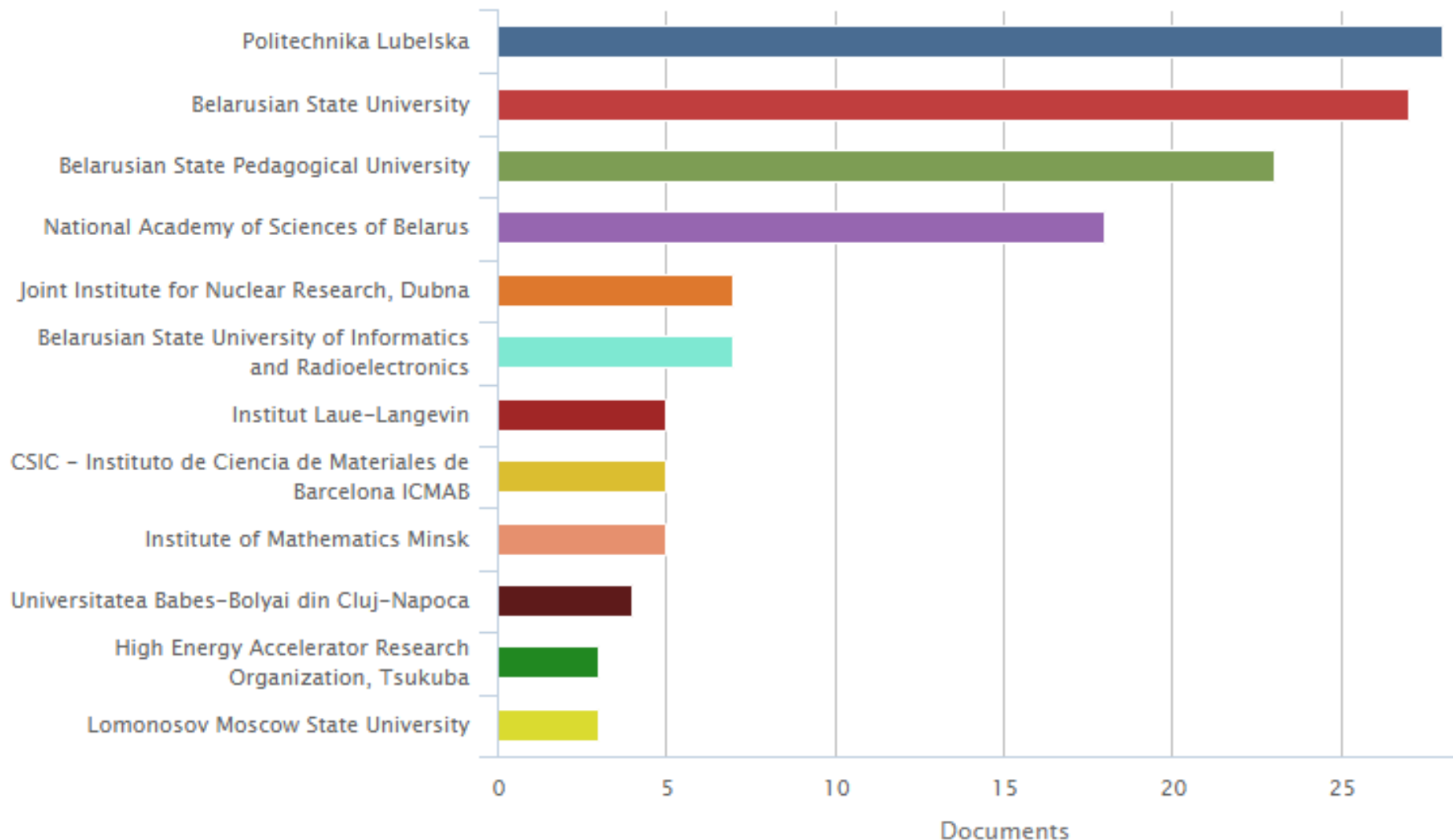
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