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**Построение персональной
системы научной
коммуникации для
современного российского
научного сотрудника**

Семинар на
Факультете компьютерных наук НИУ ВШЭ
27 марта 2023 г.

Вместо введения

Научная коммуникация = механизмы и процессы распространения научной информации внутри профессионального сообщества

Академические информационные ресурсы = средства (информационные продукты и услуги), которые на содержательном и технологическом уровнях реализуют следующие функции:

- ✓ Обеспечивают воспроизводство **научного знания** и распространение научных результатов (**функционал системы научной коммуникации**)
- ✓ Обеспечивают информационные потребности **исследователя.**

Информационные потребности современного исследователя и этапы научного производства

1. Поиск актуальных и ретроспективных источников релевантной научной информации.

Этап: Потребление

2. Обсуждение прочитанного материала с коллегами.

Этап: Потребление

3. Воспроизводство собственных исследований с учетом изученного материала из внешних источников.

Этап: Производство

4. Публикация результатов собственных исследований.

Этап: Производство и распространение

5. Обсуждение написанного и опубликованного труда с коллегами.

Этап: Распространение.

Проблемы современной системы научной коммуникации

1. Неэффективные поисковые механизмы, как правило, без элементов семантического анализа и прочих полезных средств, превращающих рутинную работу в интеллектуальный поиск релевантной научной информации – именно той, которую искали.
2. Негарантированный доступ к полным текстам найденных документов: часто необходима или покупка, или подписка.
3. Невозможность обсуждения опубликованных работ в режиме реального времени.
4. Несвязанные со средствами текущей коммуникации (онлайновое обсуждение, обмен мнениями, комментарии и т.д.) подготовка и создание рукописи реализуется отдельными инструментами.

Специфика новой научной коммуникации

- 1. Технология:** Научный результат воспроизводится в социальных академических сетях.
- 2. Организация:** Внутри академической сети все ее участники равны и все играют разные роли: авторы – читатели – редакторы – рецензенты.
- 3. Экономика:** Открытая коммуникации внутри и снаружи академической сети:
 - создание научной работы на основе **открытых** текстов блогов, заметок, препринтов, комментариев;
 - рецензирование, экспертиза электронной рукописи происходит в **открытом** формате, когда автор и рецензент знают друг друга, когда задача рецензента не завалить рукопись, но сделать ее максимально читабельной;
 - готовая публикация открыта всем читателям вместе со всем пред- и пост-рецензированием.

Модели доступа к научной информации

МОДЕЛЬ	АВТОР	ЧИТАТЕЛЬ	ТРЕТЬЯ СТОРОНА
Традиционная подписка – без открытого доступа	не платит	платит	(не) платит
Golden open access (открытый доступ есть)	платит	не платит	(не) платит
Green open access (открытый доступ есть, самоархивирование)	не платит	не платит	нет
Гибрид (традиционная или Golden open access – выбирает автор)	платит	платит	(не) платит
Platinum open access (открытый доступ есть)	не платит	не платит	платит

Поиск научной
информации:
публикации

Инструменты для поиска научной информации: научные поисковики

Resource	URL	Article Count	Access	Services
Aminer	aminer.org	321.5M	open	D*
arXiv	arxiv.org	2M	open	D**,F,S
BASE	base-search.net	180.5M	open	S
CORE	core.ac.uk	207.3M	open	D*, S
Dimensions	app.dimensions.ai	123.8M	subscription	D, F, M, S
Google Scholar	scholar.google.com	?	-	-
The Lens	lens.org	240.4M	subscription	D, M, S
Meta	-	-	terminated 3/31/22	-
Microsoft Academic	-	-	terminated 12/31/21	-
OpenAlex	openalex.org	205.2M	open	D, F, M
PubMed Central	ncbi.nlm.nih.gov/pmc/	7.5M	open	D**,F,P,S
ResearchGate	researchgate.net	135.0M	-	-
Scopus	scopus.com	84.0M	subscription	F, M, S
Semantic Scholar	semanticscholar.org	205M	open	D, F, M, P, S, T
Web of Science Core	webofknowledge.com	83.2M	subscription	F, M, S

Key: D=data download; F=field-of-study classification; M=advanced metadata; P=semantically parsed text; S=title and abstract search; T=natural language summarization
 *=data more than a year stale; **=restricted fields of study
 Article count does not include patents or datasets.

Проблемы научных поисковиков!!!

Поиск в Google Академия (статья)

Google Академия "Comprehensiveness of national bibliographic databases fo

Статьи

За все время
С 2023
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С 2019
Выбрать даты

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По дате

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включая патенты
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Comprehensiveness of national bibliographic databases for social sciences and humanities: Findings from a European survey [HTML] oup.com

[L Siile, J Pölonen, G Sivertsen, R Guns...](#) - Research ..., 2018 - academic.oup.com

This article provides an overview of national bibliographic databases that include data on research output within social sciences and humanities (SSH) in Europe. We focus on the comprehensiveness of the database content. Compared to the data from commercial databases such as Web of Science and Scopus, data from national bibliographic databases (eg Flemish Academic Bibliographic Database for the SSH (VABB-SHW) in Belgium, Current Research Information System in Norway (CRISTIN)) are more comprehensive and may ...

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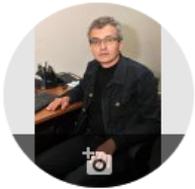
Показан лучший результат поиска по этому запросу. [Все результаты](#)

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Проблемы научных поисковиков!!!

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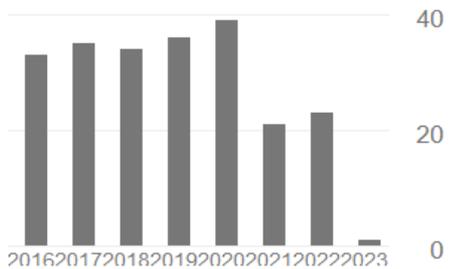
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НАЗВАНИЕ	ПРОЦИТИРОВАНО	ГОД
<input type="checkbox"/> Comprehensiveness of national bibliographic databases for social sciences and humanities: Findings from a European survey L Sīle, J Pölonen, G Sivertsen, R Guns, TCE Engels, P Arefiev, ... Research Evaluation 27 (4), 310-322	66	2018
<input type="checkbox"/> Российский индекс научного цитирования—инструмент для анализа науки ПГ Арефьев, ГО Еременко, ВА Глухов Библиосфера, 66-71	49	2012
<input type="checkbox"/> Публикационная активность, возможности роста научного продукта и традиционный русский вопрос" Что делать?" ПГ Арефьев Университетская книга, 49-55	38	2013
<input type="checkbox"/> Интеграция российского академического сообщества в глобальные коммуникации ПГ Арефьев Социологический журнал, 019-039	35	2001
<input type="checkbox"/> Публикационная активность российской медицинской науки в фокусе актуальной научной политики: оценка достижимости	28	2013

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|--------------------------|--|---|------|
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ВИ Стародубов, НГ Куракова, ЛА Цветкова, ПГ Арефьев, ФА Кураков
Nauchno-Tekhnicheskaya Informatsiya. Series 1 | 7 | 2012 |
| <input type="checkbox"/> | Российская клиническая медицина как лицо российской науки
НГ Куракова, ПГ Арефьев, ЛА Цветкова, ФА Кураков
Менеджер здравоохранения, 29-35 | 7 | 2011 |
| <input type="checkbox"/> | Психические расстройства будут лечить с помощью виртуальной реальности [Электронный ресурс]/Павел Арефьев
П Арефьев
Компьюлента.-2002.-Режим доступа: http://www.compulenta.ru/2002/6/28/31523 | 7 | 2002 |
| <input type="checkbox"/> | Представление российской научной периодики в ведущих международных библиографических и аналитических базах данных и РИНЦ (Всероссийская научно-практическая конференция "Научный ...
ПГ Арефьев
Москва 26 | 5 | 2010 |
| <input type="checkbox"/> | Мировой уровень конкурентоспособности национальных исследований в области клинической медицины
ВИ Стародубов, НГ Куракова, ЛА Цветкова, ПГ Арефьев, ФА Кураков
Менеджер здравоохранения, 31-41 | 4 | 2012 |
| <input type="checkbox"/> | Публикационная активность как инструмент мониторинга исследовательских стратегий в медицине
НГ Куракова, ЛА Цветкова, ПГ Арефьев
Медицинское образование и профессиональное развитие, 18-26 | 4 | 2011 |
| <input type="checkbox"/> | Автоматизация библиотечных процессов на базе интегрированной системы Tinlib
ПГ Арефьев, АА Артамонов | 4 | 1998 |

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 **Authors** create works.

 **Venues** (like journals and repositories) host works.

 **Institutions** (like universities) are affiliated with works.

 **Concepts** describe the topics of works.

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 NFDI4BioDiversity - A Consortium for the National Research Data Infrastructure (NFDI)

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2020

Kristina Posavec, Drazenko Celjak, Ljiljana Jertec Musap:
Role of a Croatian National Repository Infrastructure in Promotion and Support of Research Data Management. Data Sci. J. 19: 48 (2020)

2019

Brian J. Cain, Martin Klein, Joshua Finnell:
Nucleus - Deploying Research Data Management Infrastructure At The Los Alamos National Laboratory. JCDL 2019: 396-397

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TLDR An overview of national bibliographic databases that include data on research output within social sciences and humanities (SSH) in Europe and Israel is provided and it is apparent that differences in national bibliography databases are often bound to differences in country-specific arrangements. [Expand](#)

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Mark Hahnel, B. Fane, +7 authors Igor Osipov · Political Science · 9 November 2018
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Recommended Authors

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Оригинал статьи

Research Evaluation, 27(4), 2018, 310–322

doi: 10.1093/reseval/rvy016

Advance Access Publication Date: 14 June 2018

Article

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Comprehensiveness of national bibliographic databases for social sciences and humanities: Findings from a European survey

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Tim C. E. Engels¹, Pavel Arefiev⁴, Marta Dušková⁵, Lotte Faurbæk⁶,
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Abstract

This article provides an overview of national bibliographic databases that include data on research output within social sciences and humanities (SSH) in Europe. We focus on the comprehensiveness of the database content. Compared to the data from commercial databases such as

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Поступившие

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Сортировка

по дате выпуска

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по убыванию

Очистить

Поиск

Возможные действия

▶ Открыть сохраненный запрос:

Новый поиск

▶ Удалить сохраненный запрос

▶ Переименовать сохраненный запрос

▶ Сохранить текущий запрос как:

Новый запрос

i Правила и примеры оформления поисковых запросов

i История Ваших запросов:

Параметры запроса

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National Research Data Infrastructure	392
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Том: 3 Номер: 1 Год: 2009 Страницы: 16-28

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Учредители: Национальный исследовательский университет "Высшая школа экономики"
ISSN: 1995-459X eISSN: 2312-9972

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ИННОВАЦИИ, ПРИОРИТЕТЫ ГОСУДАРСТВЕННОЙ ПОЛИТИКИ, ИННОВАЦИОННАЯ СТРАТЕГИЯ

АННОТАЦИЯ:

Статья посвящена формируемой в данный момент общей инновационной стратегии ОЭСР, окончательный вариант которой будет представлен в 2010 г. Обосновывается необходимость разработки подобной стратегии в дополнение к национальным инновационным стратегиям стран-участниц ОЭСР. Показано, в чем заключается добавочная стоимость содержащихся в ней рекомендаций. Представлен опыт отдельных стран в разработке инновационных стратегий и рассмотрены типичные компоненты, на основе которых может быть построена общая стратегия

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The Nuclear Receptors of *Biomphalaria glabrata* and *Lottia gigantea*: Implications for Developing New Model Organisms

Table 1
 Sequence identification of all nuclear receptors for species in the study: NRs from fly, human, nematode and trematode (NCBI accession numbers), compared to identified *L. gigantea* NRs (protein identification numbers: **JGI genome portal** version 1.1) and *B. glabrata* NRs (Contig numbers: Preliminary Bg Genomic Data (version 4.01)).

Group	<i>C. elegans</i>	Accession	<i>S. mansoni</i>	Accession	<i>D. melanogaster</i>	Accession	<i>B. glabrata</i>	Contig	<i>L. gigantea</i>	Protein ID	<i>H. sapiens</i>	Accession
0A					KNR	CAA31709						
					KNRL	AAF51627						
					EGON	CAA34626						
0B						BgDAX	182	LgDAX	153776	DAX1	AAH11564	
										SHP	AAH30207	
1A			THRa	AAR32912			BgTHR [†]	3.1	LgTHR	207623	THRα	AAH08851
			THRb	AAR29359							THRβ	AAI06931
1B	ODR7	AAC46497	RAR-like*	CCD76558			BgRAR	398	LgRAR	207867	RARα	AAH08727
											RARβ	AAH60794
											RARγ	AAA63254
1C							BgPPAR1	2052	LgPPAR1	174409	PPARα	AAB32649
							BgPPAR2	1275	LgPPAR2	238472	PPARβ	AAA36469
											PPARγ	AAH06811
1D	HR85	AAO39185			E75	AAN11687	BgE75	29	LgE75	136477	Rev-erb-a	AAH56148
							BgRev-erb	160	LgRev-erb	168854	Rev-erb-b	AAH45613
							BgNR1D1**	1939				
							BgNR1D2**	1958				
							BgNR1D3**	201				
1E			E78	AAR30507	E78	AAF51692	BgE78	534	LgE78	163301		
1F	HR23	P41828			HR3	AAA28461	BgHR3	73	LgHR3	167096	RORα	AAH08831
							BgROR	74	LgROR	155536	RORβ	AAH93774
											RORγ	AAA64751
1G	HR14	AAA96982										
1H					EcR	NP724456	BqEcR	1481	LaEcR	170342	LXRα	AAV38218

Источник: <https://journals.plos.org/plosone/article/figure?id=10.1371/journal.pone.0121259.t001>

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The graphic features two microphone icons. The left one is orange and labeled 'GENOME INSIDER'. The right one is blue and labeled 'Natural Prodcast'. Both have the JGI logo next to them. Below the microphones, the text reads 'Subscribe to our podcasts today!'.

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GAWSIS is being developed and maintained by the Federal Office of Meteorology and Climatology MeteSwiss in collaboration with the WMO GAW Secretariat, the GAW World Data Centres and other GAW representatives to improve the management of information about the GAW network of ground-based stations. The application is presently hosted by the Swiss Laboratories for Materials Testing and Research Empa. GAWSIS provides the GAW community and other interested people with an up-to-date, searchable data base of site descriptions, measurements programs and data available, contact people, bibliographic references. Linked data collections are hosted at the World Data Centers of the WMO Global Atmosphere Watch.

VegBank

[The Vegetation Plot Archive Project](#)



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VegBank is the vegetation plot database of the Ecological Society of America's Panel on Vegetation Classification. VegBank consists of three linked databases that contain the actual plot records, vegetation types recognized in the U.S. National Vegetation Classification and other vegetation types submitted by users, and all plant taxa recognized by ITIS/USDA as well as all other plant taxa recorded in plot records. Vegetation records, community types and plant taxa may be submitted to VegBank and may be subsequently searched, viewed, annotated, revised, interpreted, downloaded, and cited. VegBank receives its data from the VegBank community of users.

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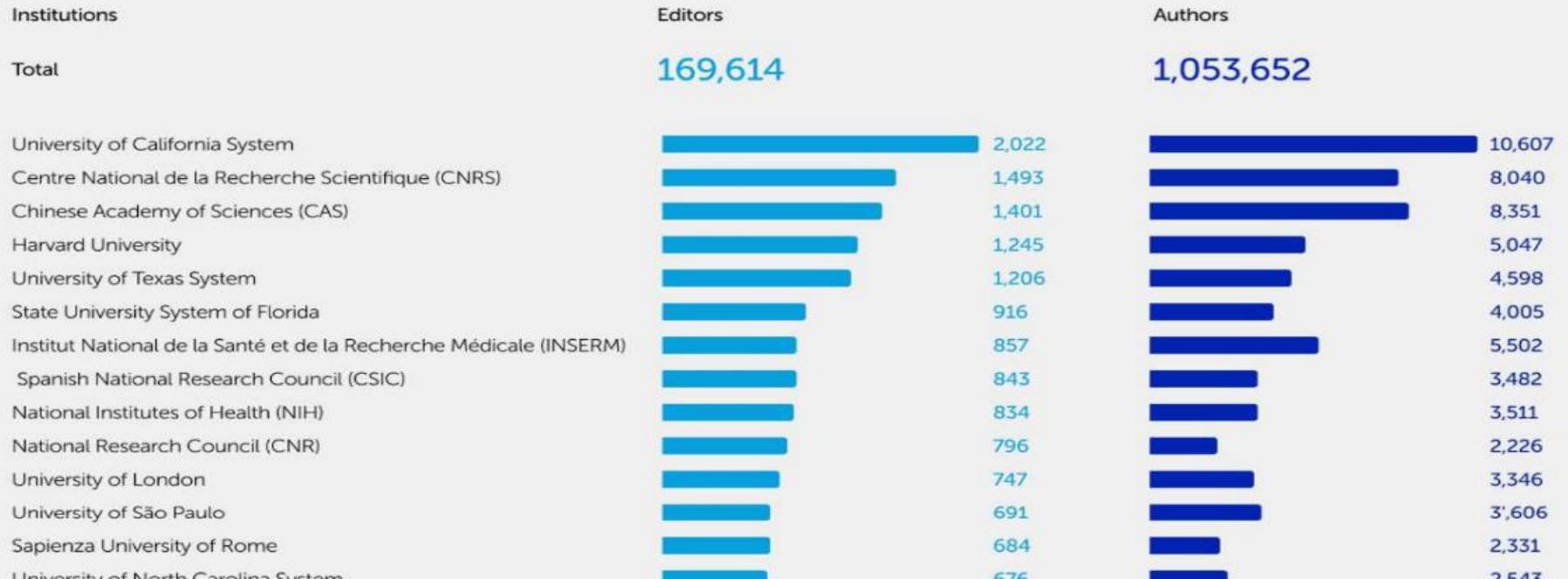
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The image shows a screenshot of the Frontiers website. At the top, the navigation bar includes the Frontiers logo, "About us", "All journals", "All articles", and a "Submit your research" button. Below the navigation is a search bar with the placeholder text "Enter a keyword or subject to search". The main content area displays "181 journals" and a list of journal categories: "All", "Science", "Health", "Engineering", "Humanities and Social Sciences", "Sustainability", and "Young Minds". A dropdown menu is set to "By first letter". Three journal entries are visible:

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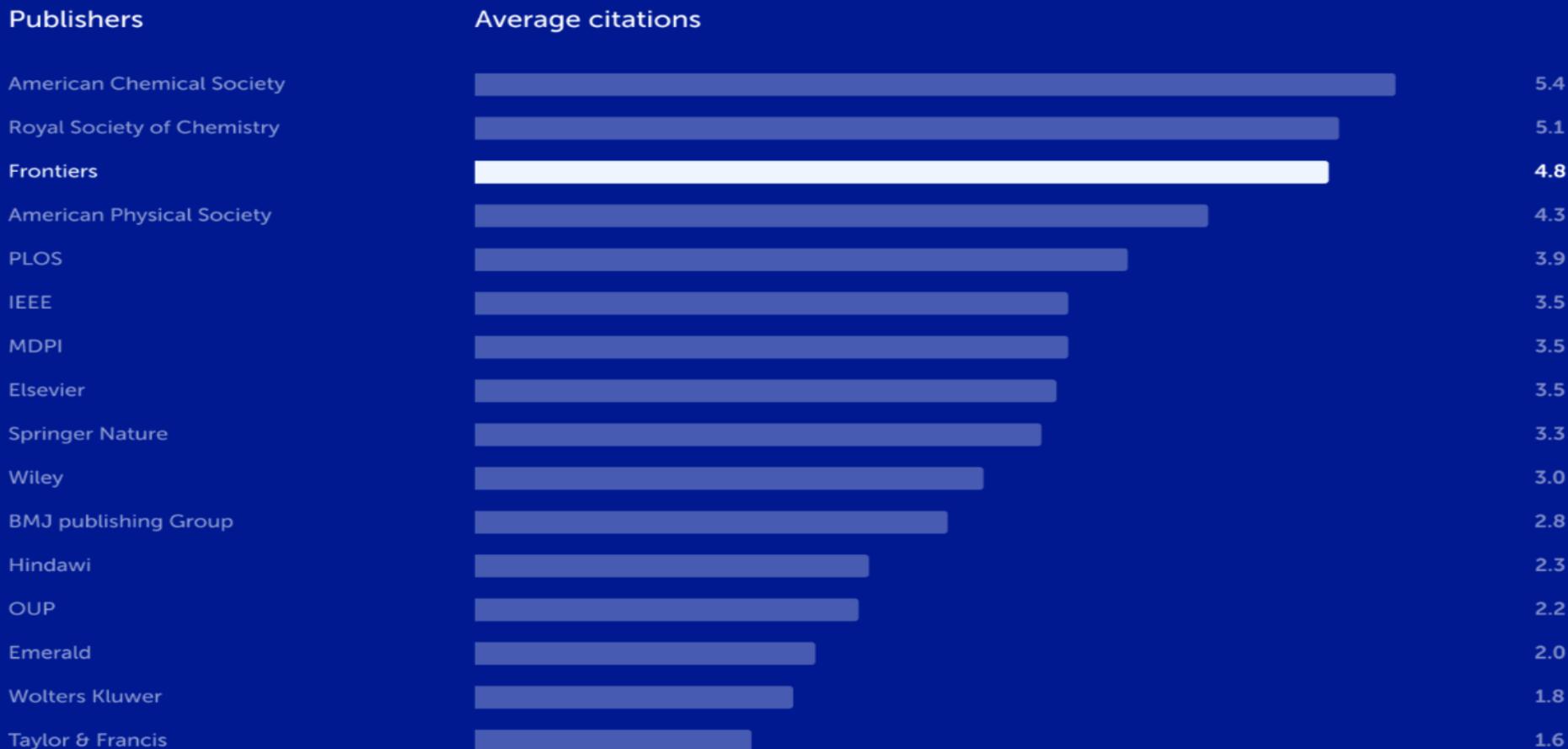
On the right side of the page, a vertical blue bar chart displays the number "85,582" at the top and "2021" at the bottom, representing the total number of journals for that year.

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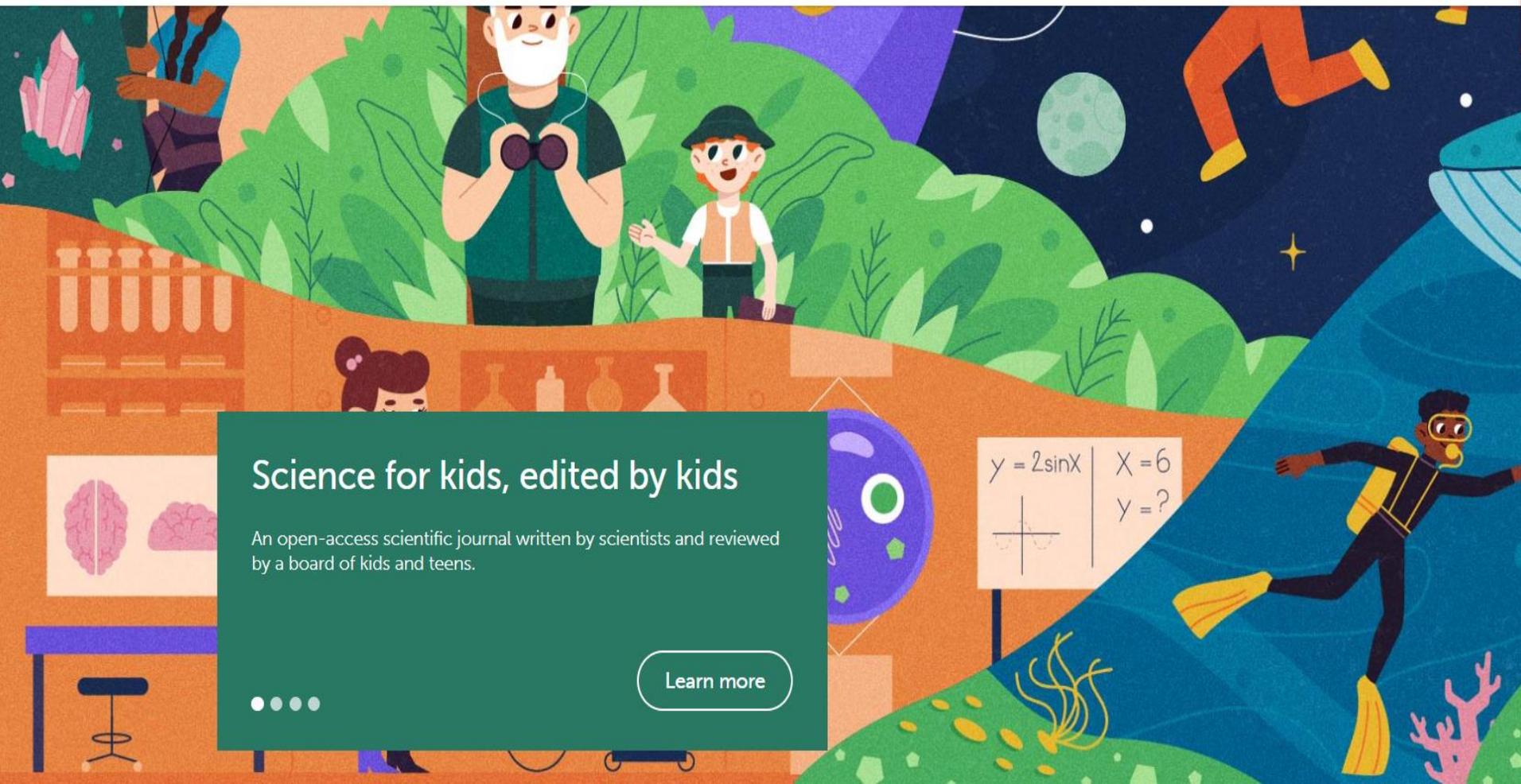
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Journal Impact Factors and CiteScores

Journal	2021 Impact Factor	2021 CiteScore
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Sec. Language and Computation

Volume 6 - 2023 | <https://doi.org/10.3389/raai.2023.1062230>

A tale of two lexica: Investigating computational pressures on word representation with neural networks



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Introduction: The notion of a single localized store of word representations has become increasingly less plausible as evidence has accumulated for the widely distributed neural representation of wordform grounded in motor, perceptual, and conceptual processes. Here, we attempt to combine machine learning methods and neurobiological frameworks to propose a computational model of brain systems potentially responsible for wordform representation. We tested the hypothesis that the functional specialization of word representation in the brain is driven partly by computational optimization. This hypothesis directly addresses the unique problem of mapping sound and articulation vs. mapping sound and meaning.

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