Семинар Elsevier «Научно-исследовательская деятельность и ее современное информационно-аналитическое обеспечение»

Галина Якшонок

Руководитель партнерских программ издательства Elsevier в России и Беларуси

В основе кризисов, войн, социальных катастроф, революций лежит смена технологических укладов

«Одной из важнейших технологий в настоящее время является алгоритм проектирования будущего. Это методы анализа трендов, предвидения будущих изменений, анализа возможных сценариев развития событий, оценки и управления рисками. Это не случайно – сегодня, чтобы принимать серьёзные дальновидные решения в важнейших сферах жизнедеятельности – социальной, экономической, образовательной, военной, технологической и ряде других – надо заглядывать на 25–30 лет вперед.»

Георгий Геннадьевич Малинецкий
Зам. директора Института прикладной математики им. М.В. Келдыша

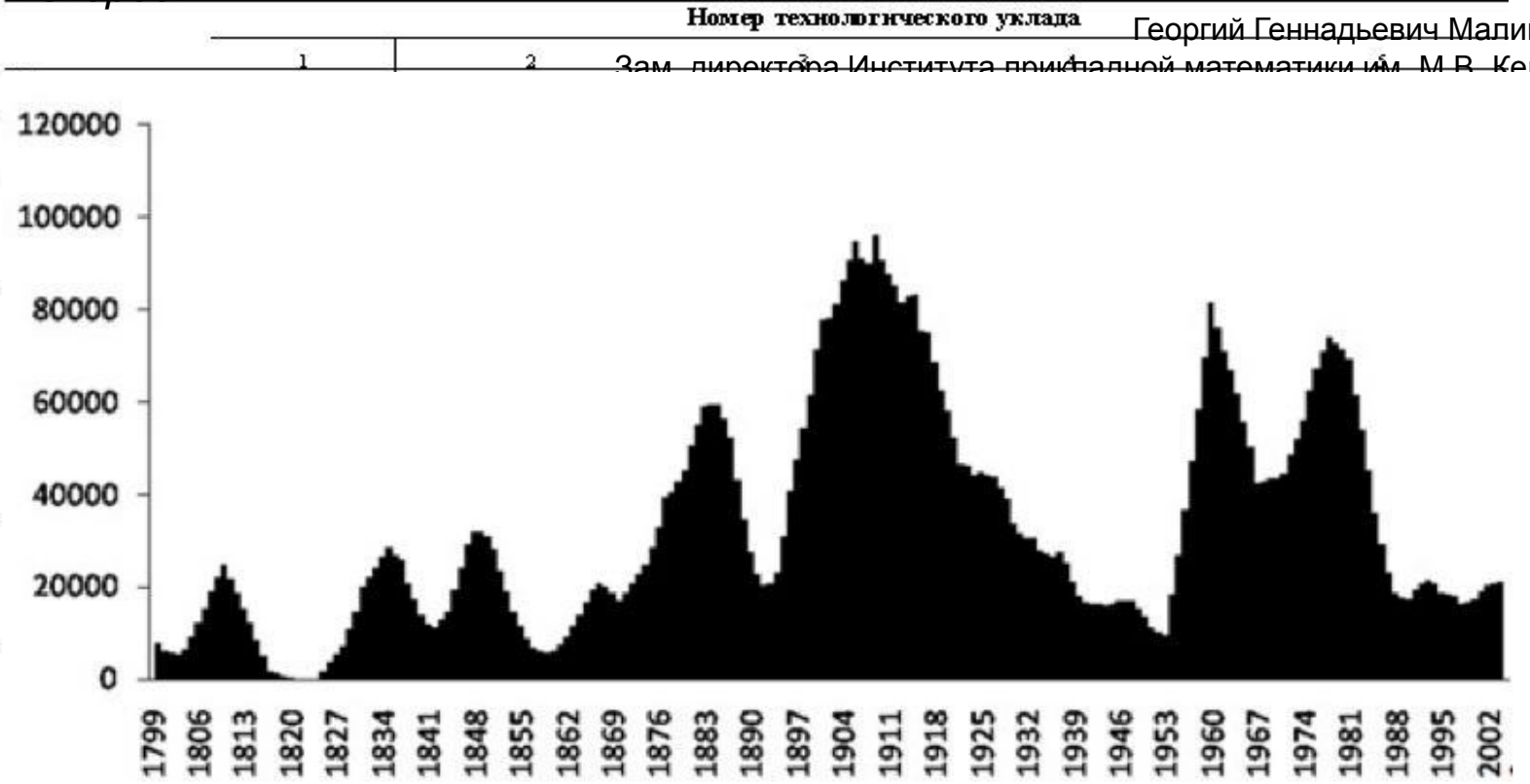
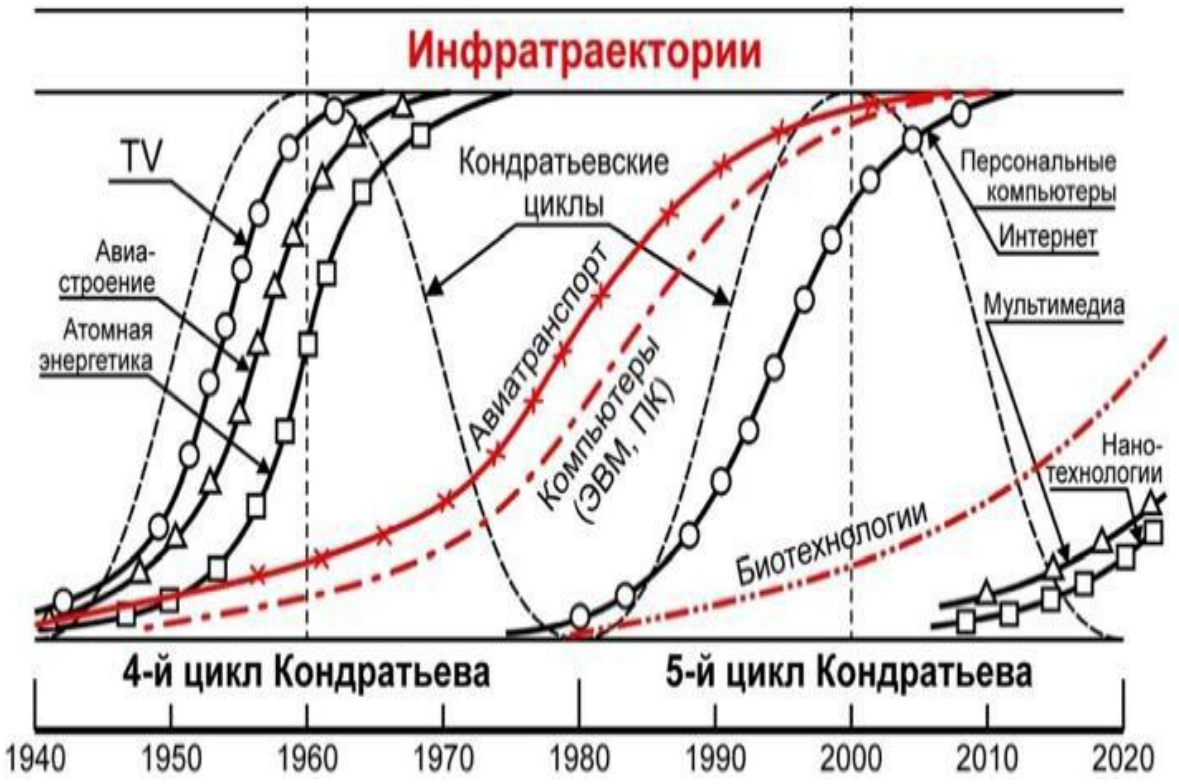


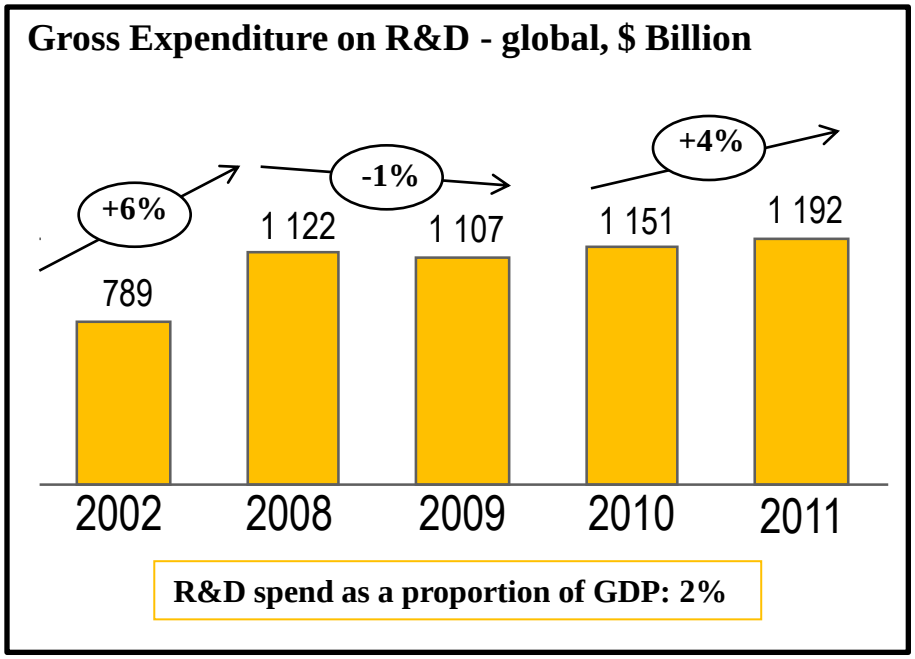
Рис. 1. Распределение крупнейших американских компаний по дате возникновения

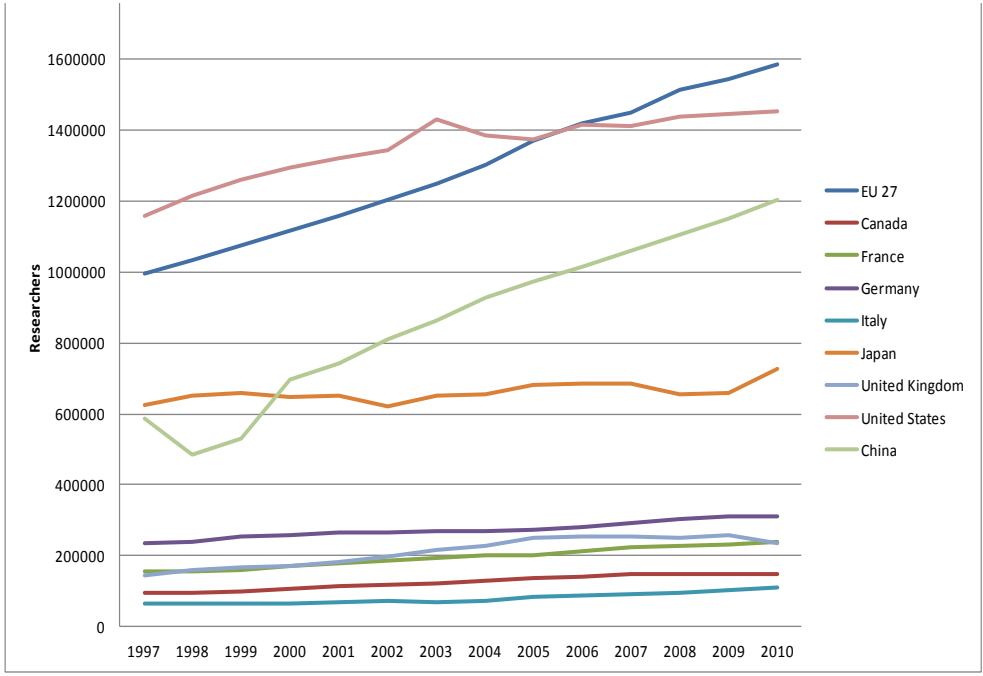
Циклы развития макротехнологий



- ✓ Биотехнологии
- ✓ Нанотехнологии
- ✓ Робототехника
- ✓ Высокие гуманитарные технологии
- ✓ Новая медицина
- ✓ Новое природопользование

Научные исследования – мировая индустрия: вклад





Source: OECD

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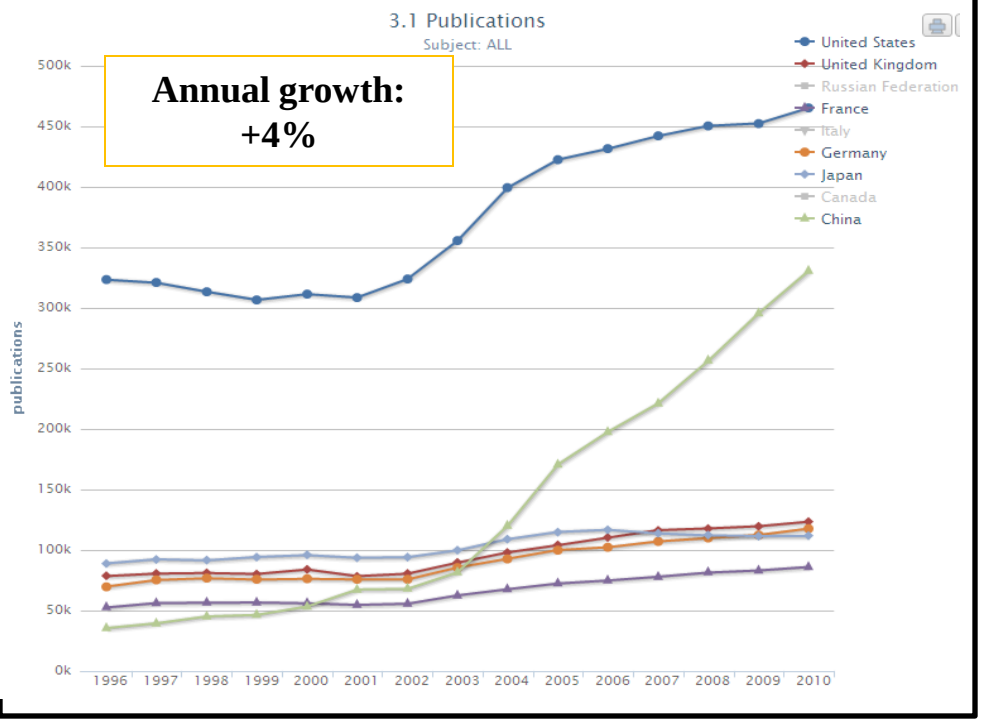
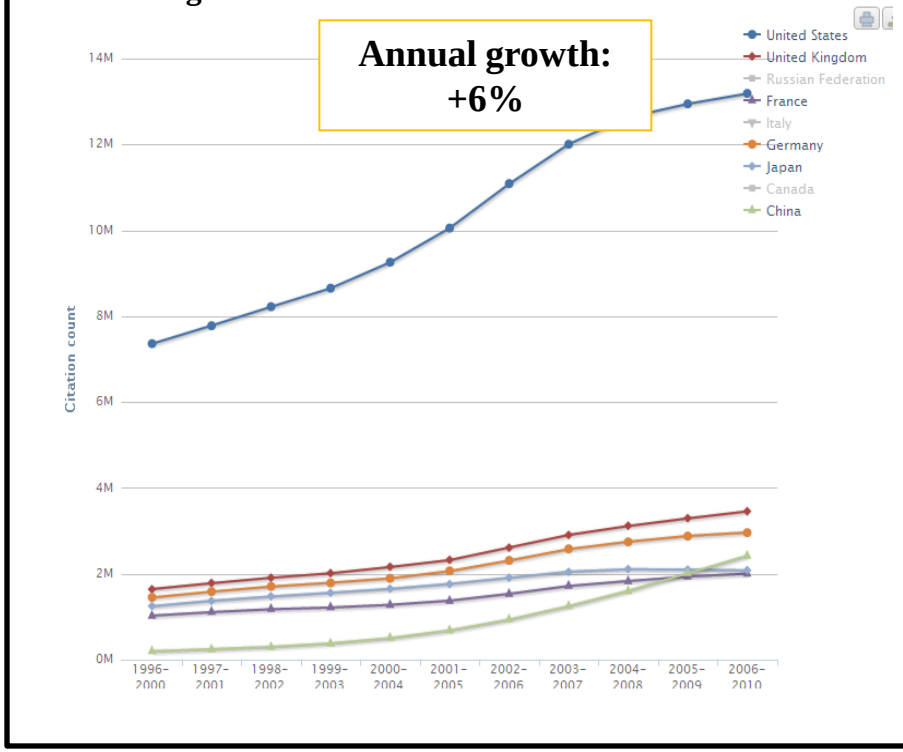
Научные исследования – мировая индустрия: отдача

Articles Published - global



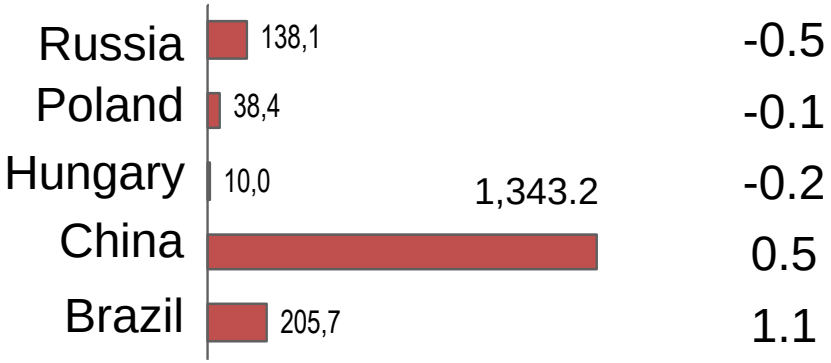
Citations - global



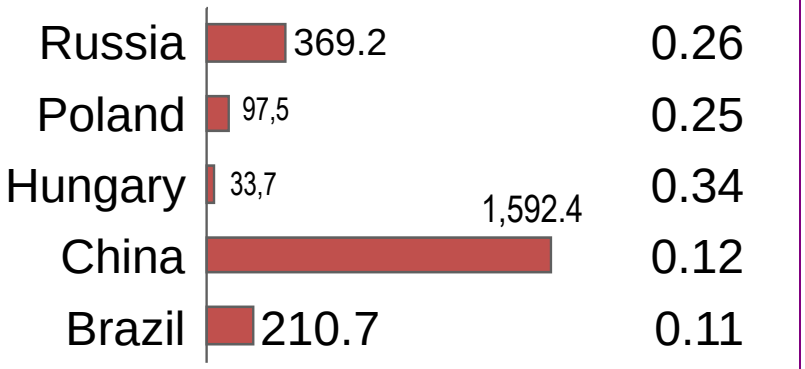
Source: SCOPUS

Немного статистики

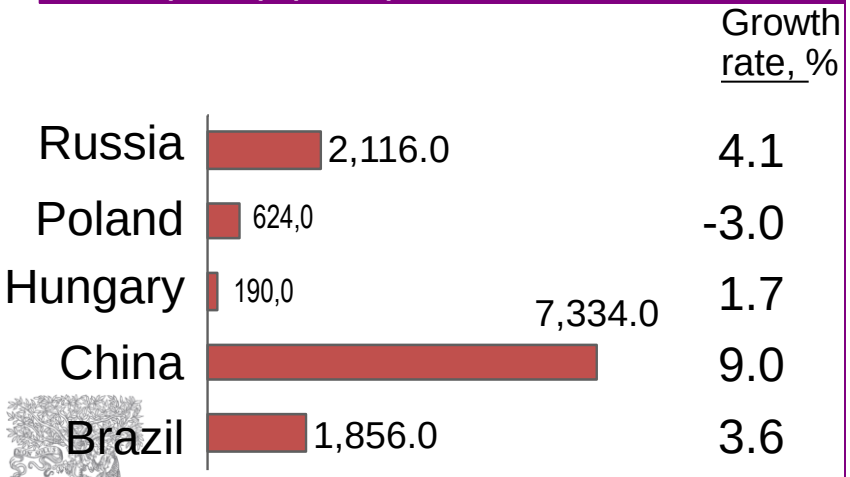
Population (X Mio)



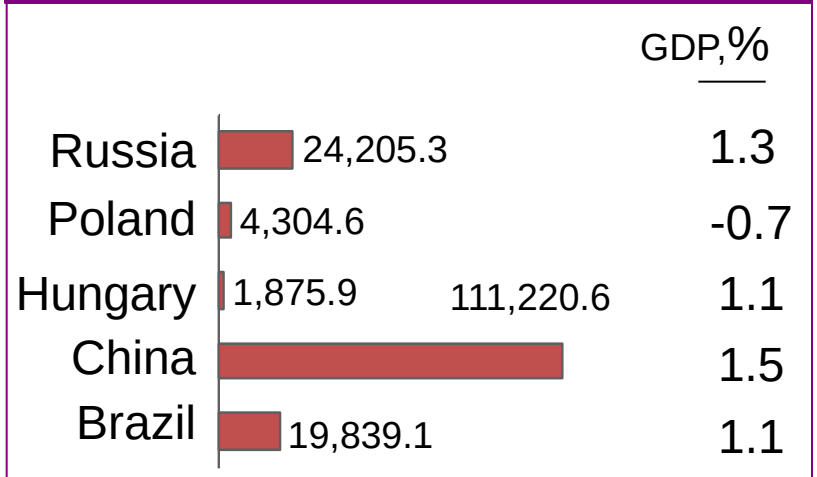
Number of researchers (X Thousand)



GDP (PPP) (X $b)



R&D Spend (X $m)



ELSEVIER Sources: IMF, UNESCO, CIA World Factbook,

Публикационная активность: Россия

How to cite this website?

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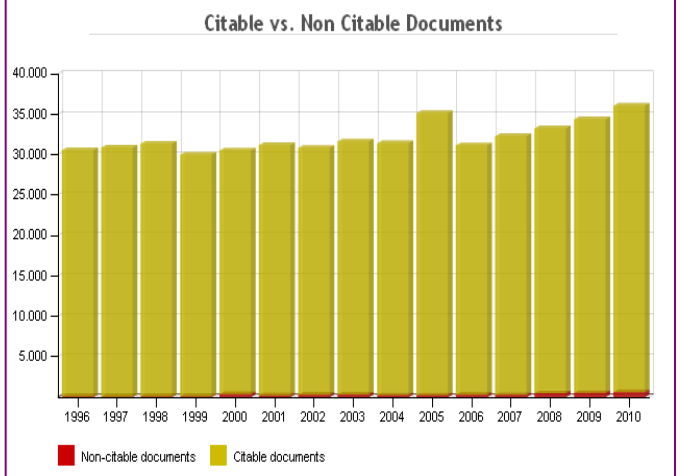

	Country	Documents	Citable documents	Citations	Self-Citations	Citations per Document	H index
1	United States	5.322.590	4.972.679	100.496.612	46.657.626	20,18	1.229
2	China	1.848.727	1.833.463	7.396.935	3.937.424	5,66	316
3	United Kingdom	1.533.434	1.392.982	24.535.306	5.911.758	17,42	750
4	Japan	1.464.273	1.429.881	16.452.234	4.953.600	11,72	568
5	Germany	1.396.126	1.321.606	20.437.971	5.412.521	15,79	657
6	France	1.021.041	964.320	14.156.535	3.310.129	15,09	604
7	Canada	790.397	748.787	12.187.113	2.406.404	17,55	580
8	Italy	762.290	720.911	9.861.600	2.316.810	14,45	515
9	Spain	583.554	547.858	6.573.014	1.692.724	13,12	412
10	India	533.006	507.792	3.211.864	1.102.880	7,27	256
11	Australia	520.045	485.249	7.083.995	1.532.649	16,00	450
12	Russian Federation	480.665	476.490	2.456.003	737.059	5,21	285
13	Netherlands	435.083	409.982	7.805.760	1.342.441	20,05	509
14	South Korea	430.438	422.745	3.344.131	769.396	9,82	287
15	Brazil	328.361	318.294	2.409.214	783.003	9,57	262
16	Switzerland	309.549	292.254	6.007.936	848.894	21,77	506
17	Taiwan	308.498	301.775	2.391.691	595.815	9,57	229
18	Sweden	304.831	292.150	5.410.618	905.907	19,09	448
19	Poland	265.139	259.850	1.853.462	496.520	7,87	258
20	Belgium	237.081	224.898	3.621.954	555.562	17,10	398
21	Turkey	231.178	219.280	1.380.599	383.421	7,54	176
22	Israel	186.281	177.814	2.898.025	433.162	16,66	368
23	Austria	164.308	155.111	2.324.954	337.266	16,01	336
24	Denmark	162.761	154.612	3.015.221	452.805	20,42	373
25	Finland	153.964	149.390	2.447.743	415.216	17,64	330
26	Greece	142.767	135.434	1.350.053	253.006	11,34	228
27	Hong Kong	129.792	124.880	1.464.726	232.781	12,79	248
28	Mexico	125.646	122.268	1.005.002	221.648	9,49	201
29	Norway	122.768	116.973	1.749.741	294.571	16,63	288
30	Czech Republic	122.379	118.930	942.579	233.542	8,82	206
31	Iran	120.350	117.469	499.322	204.982	7,68	106
32	Singapore	109.346	105.665	1.092.233	159.314	11,82	218
33	New Zealand	101.286	95.295	1.309.197	218.297	14,80	247
34	Portugal	100.111	96.937	960.473	198.308	12,14	199
35	South Africa	93.926	88.329	862.984	192.386	10,58	198
36	Argentina	93.883	91.056	886.653	200.940	10,56	191
37	Hungary	89.305	86.438	923.883	160.620	11,14	224
38	Ukraine	88.707	88.007	344.658	98.179	3,98	121
39	Ireland	78.892	74.033	974.485	120.487	15,56	234
40	Egypt	64.565	63.415	367.134	78.841	6,79	115

Note: SCImago. (2010). SJR – SCImago Journal & Country Rank. Retrieved September 15, 2011 from http://www.scimagojr.com

ИННОВАЦИОННЫЕ РЕШЕНИЯ ИЗ ВНЕШНЕЙ СРЕДЫ

- *CEO компании Procter & Gamble B.Лафлей:*

- «Компания может до 50% патентов и инновационных решений получать из внешней научной среды. Поэтому формат R&D (reaserch and development) правильнее трансформировать в формат C&D (connect and development)».

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КАК DARPA СОЗДАЕТ ПРОРЫВНЫЕ РАЗРАБОТКИ?

- ЦЕЛЬ: создание искусственной руки.
- ЗАДАЧА: управление манипулятором силой мысли.
- РЕЗУЛЬТАТ: парализованный человек смог самостоятельно выпить чашку кофе.
- РЕШЕНИЕ: ТЕХНОЛОГИЧЕСКИЙ ПАЗЛ СЛОЖИЛСЯ ИЗ 5 НИОКР

- 1. Манипулятор, созданный Институтом роботостроения Германского аэрокосмического центра DLR.

- 2. Манипулятор, созданный коммерческой компанией из Нью-Гэмпшира (США) DEKA Research and Development Corp.

- 3. Разработки в области нейронаук из Университета Брауна (США).

- 4, 5. Разработки в области клинической неврологии Главного госпиталя Массачусетса, Гарвардской медицинской школы.

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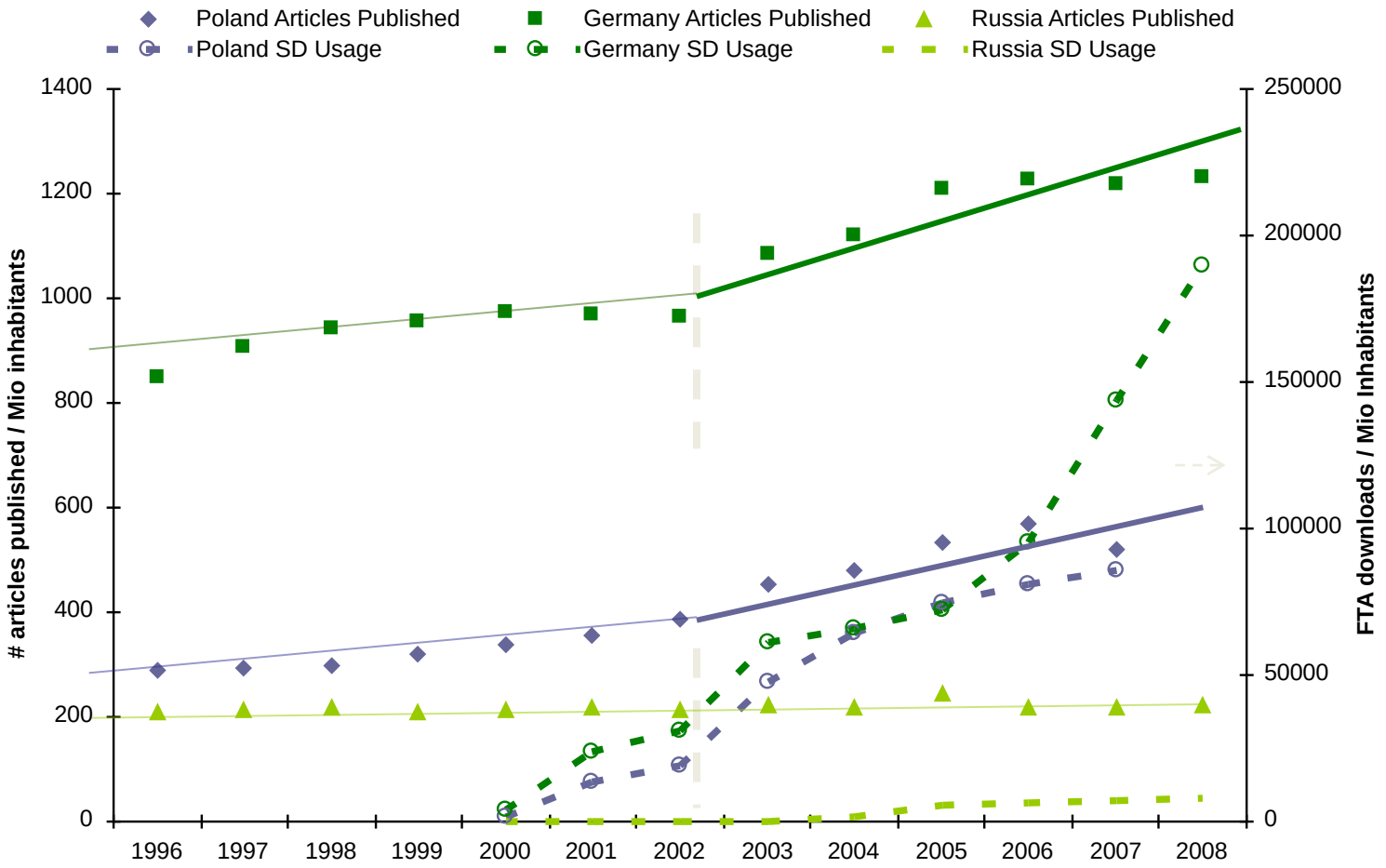

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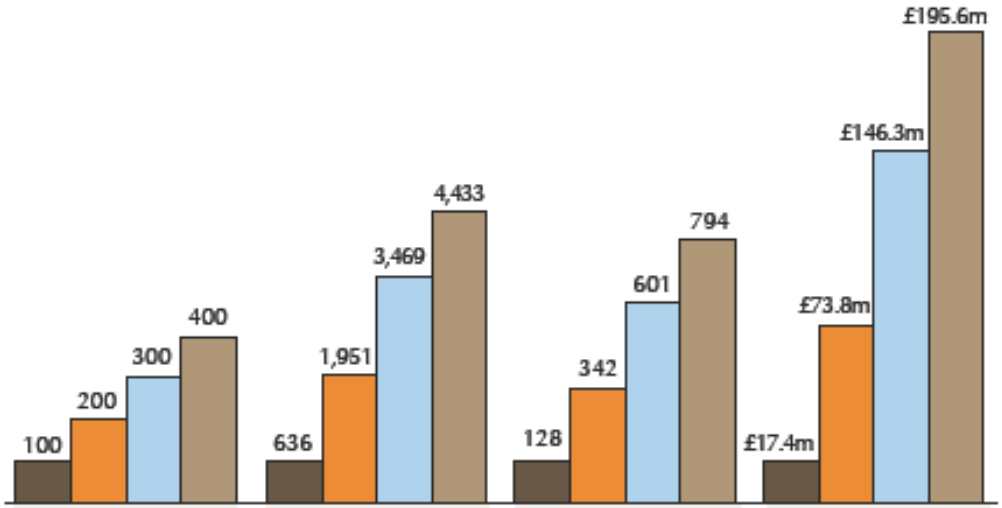

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2 million downloads	200	307	268	424
3 million downloads	300	545	471	841
4 million downloads	400	697	622	1,124

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"Удвоение в загрузке, с 1 до 2 миллионов, статистически связано с существенным – но не обязательно является причиной – увеличением исследовательской продуктивности"

Рост статей – на 207%
Защита докторских – на 168%
Получено исследовательских грантов и контрактов – на 324%

Рост еще выше – чем больше число загрузок

"Electronic Journals: Their use value and impact. Research Information Network Report

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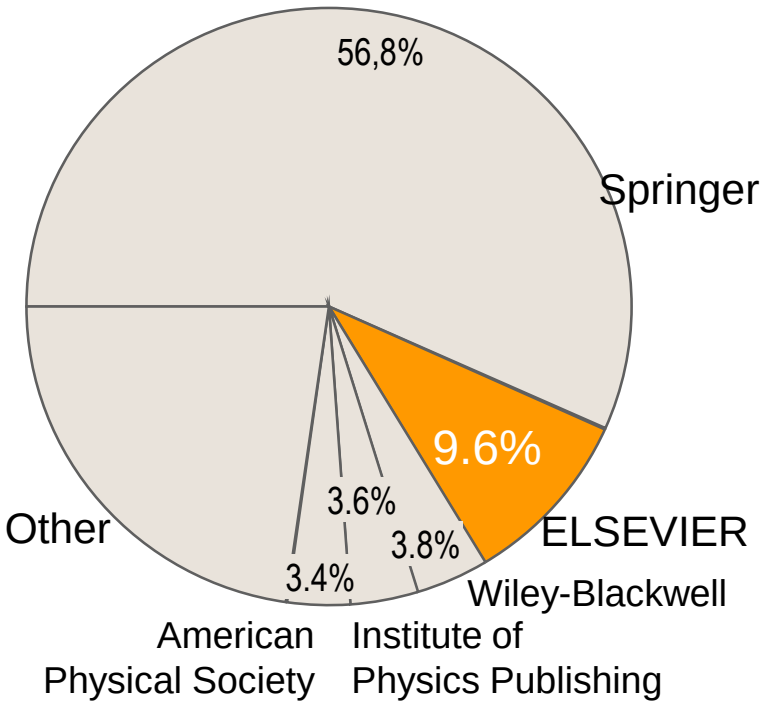
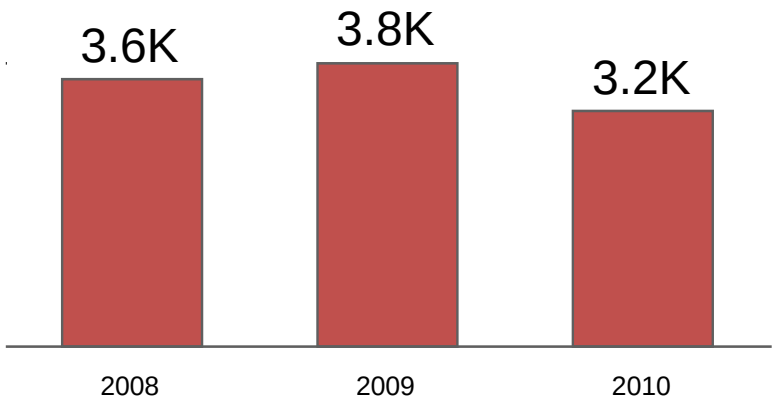
2010 Market share of Articles in (Russia) Indexed on Scopus



Number of Publications with Elsevier in (Russia)



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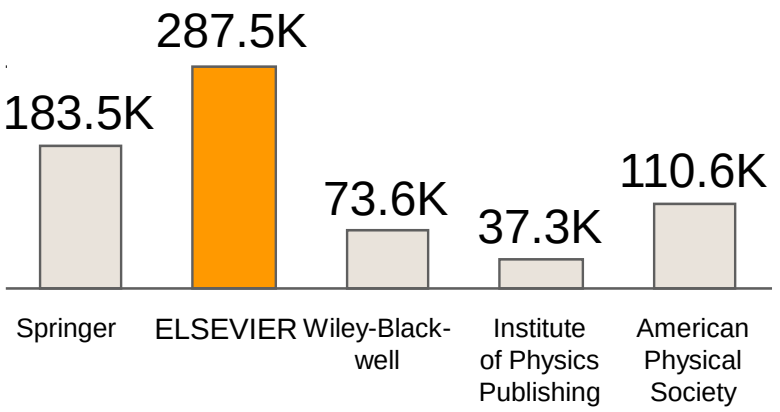

Source: Sciverse Scopus

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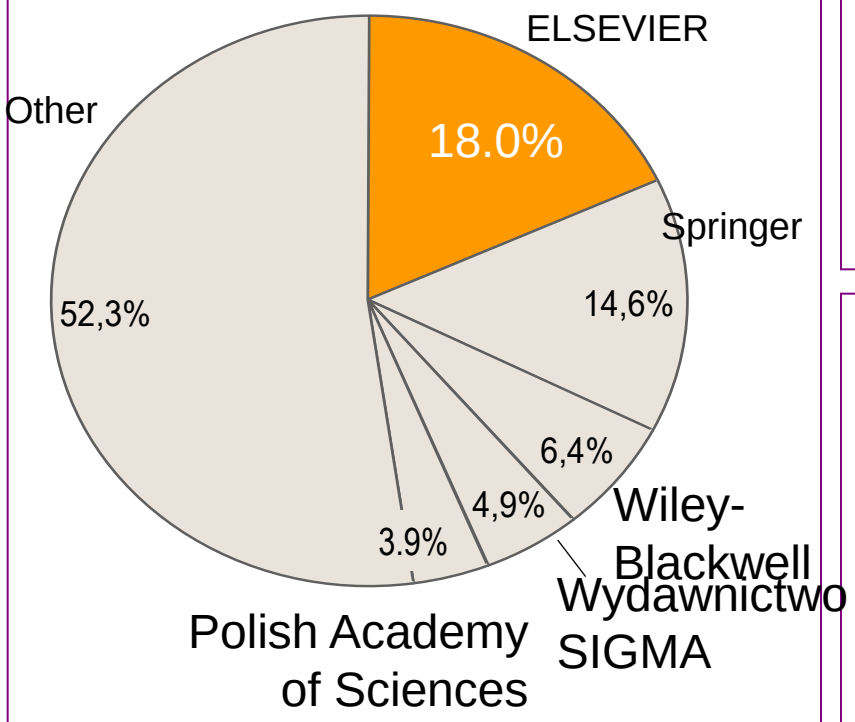

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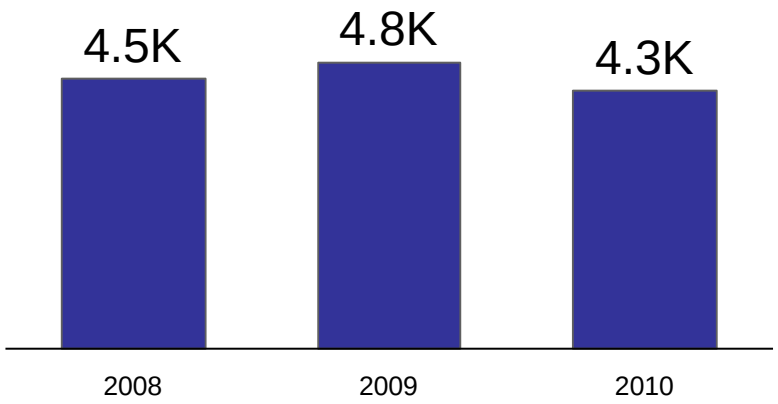

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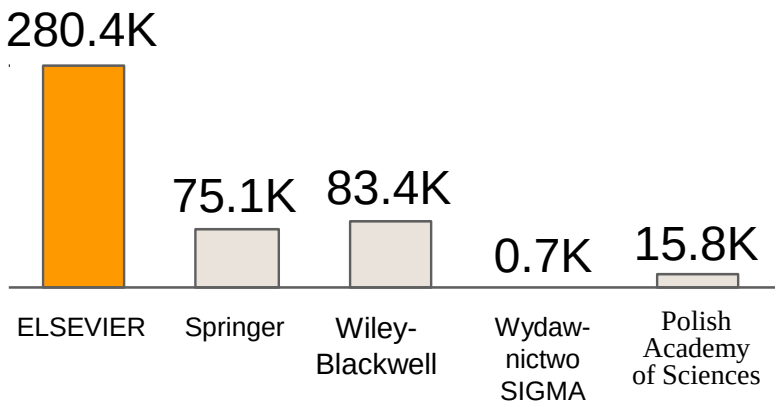

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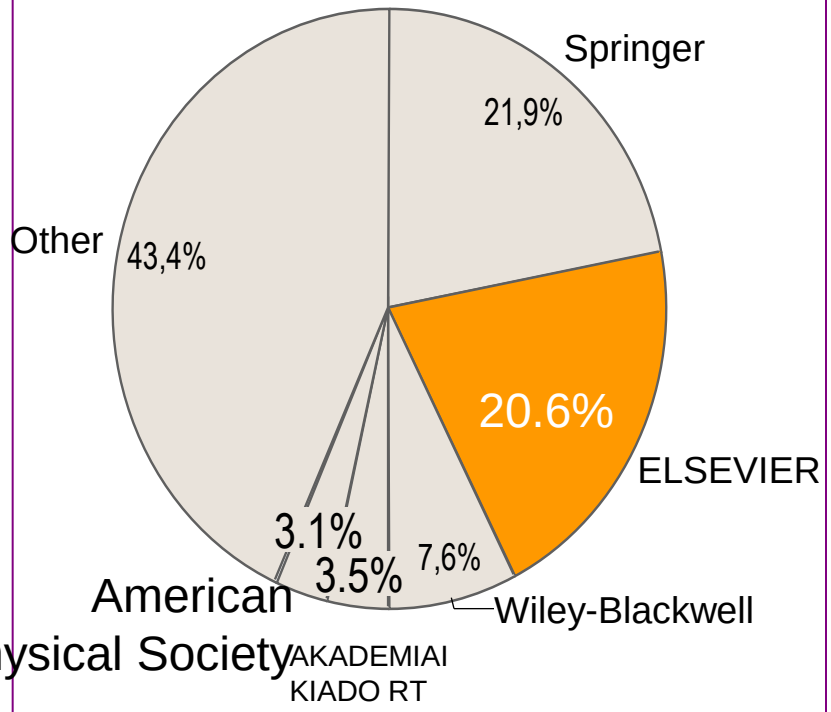
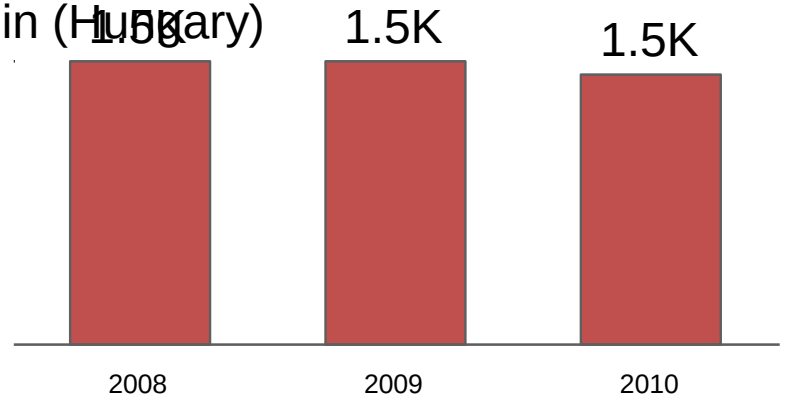


Number of Publications with Elsevier in (Hungary)



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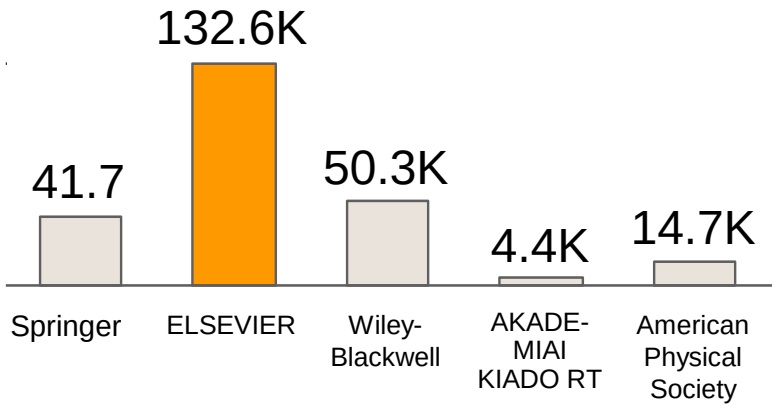

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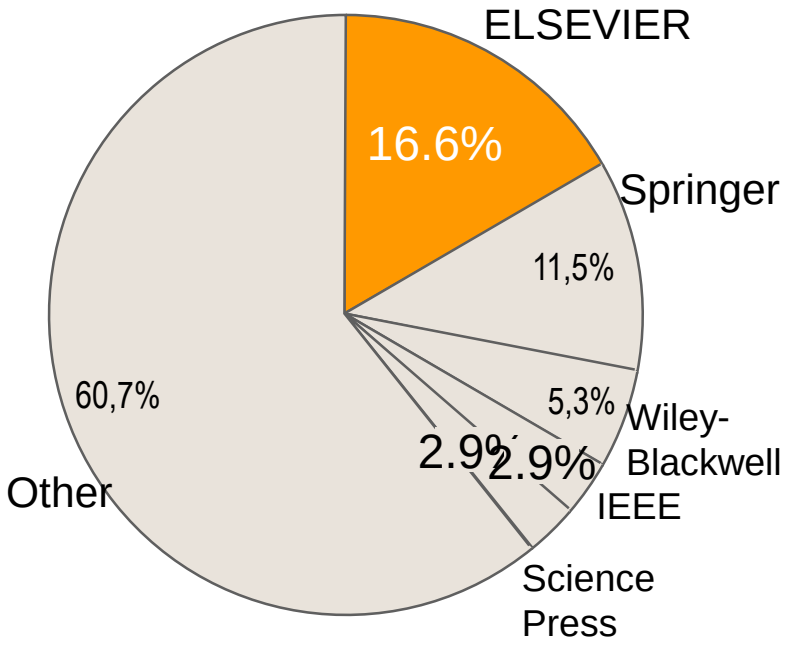
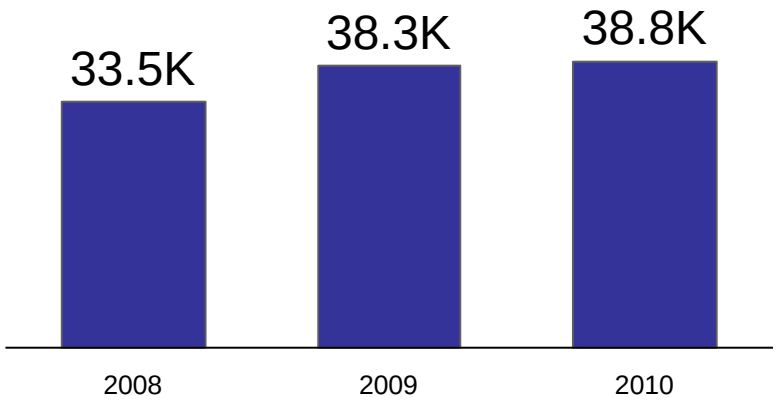


Number of Publications with Elsevier in (China)



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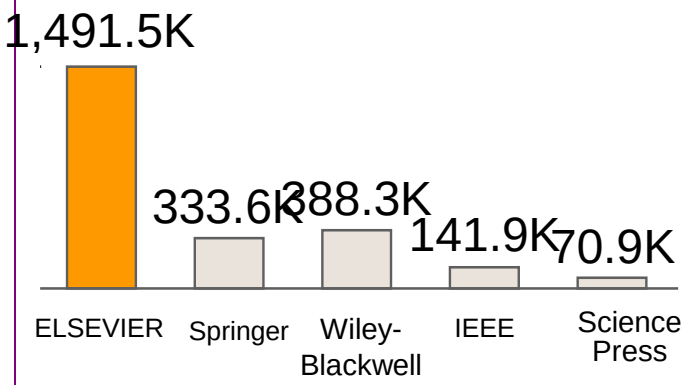

Source: Sciverse Scopus

КООРДИНАЦИОННЫЙ СОВЕТ УЧЕБНО-МЕТОДИЧЕСКИХ ОБЪЕДИНЕНИЙ
И НАУЧНО-МЕТОДИЧЕСКИХ СОВЕТОВ ВЫСШЕЙ ШКОЛЫ

Портал Федеральных государственных образовательных стандартов высшего профессионального образования

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27 декабря 2012 года, 19:42

Государственная программа Росси… Федерации «Развитие науки и технологий» на 2013-2020 годы

Темы материала

Медведев Дмитрий Анатольевич

госпрограммы

наука и инновации

научно-педагогические

Правительство Российской Федерации
Распоряжение
от 20 декабря 2012 г. № 2433-р

1. Утвердить государственную программу Российской Федерации «Развитие науки и технологий».

2. Минобрнауки России разместить государственную программу Российской Федерации «Развитие науки и технологий» на своем официальном сайте, а также на портале государственных

Государственная программа Российской Федерации «Развитие науки и технологий» на 2013-2020 годы (pdf, 8.8MB)

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– Необходим оптимальный доступ к современным информационным ресурсам, как к первичным данным (полнотекстовая научная информация для ученых), так и информационным аналитическим ресурсам

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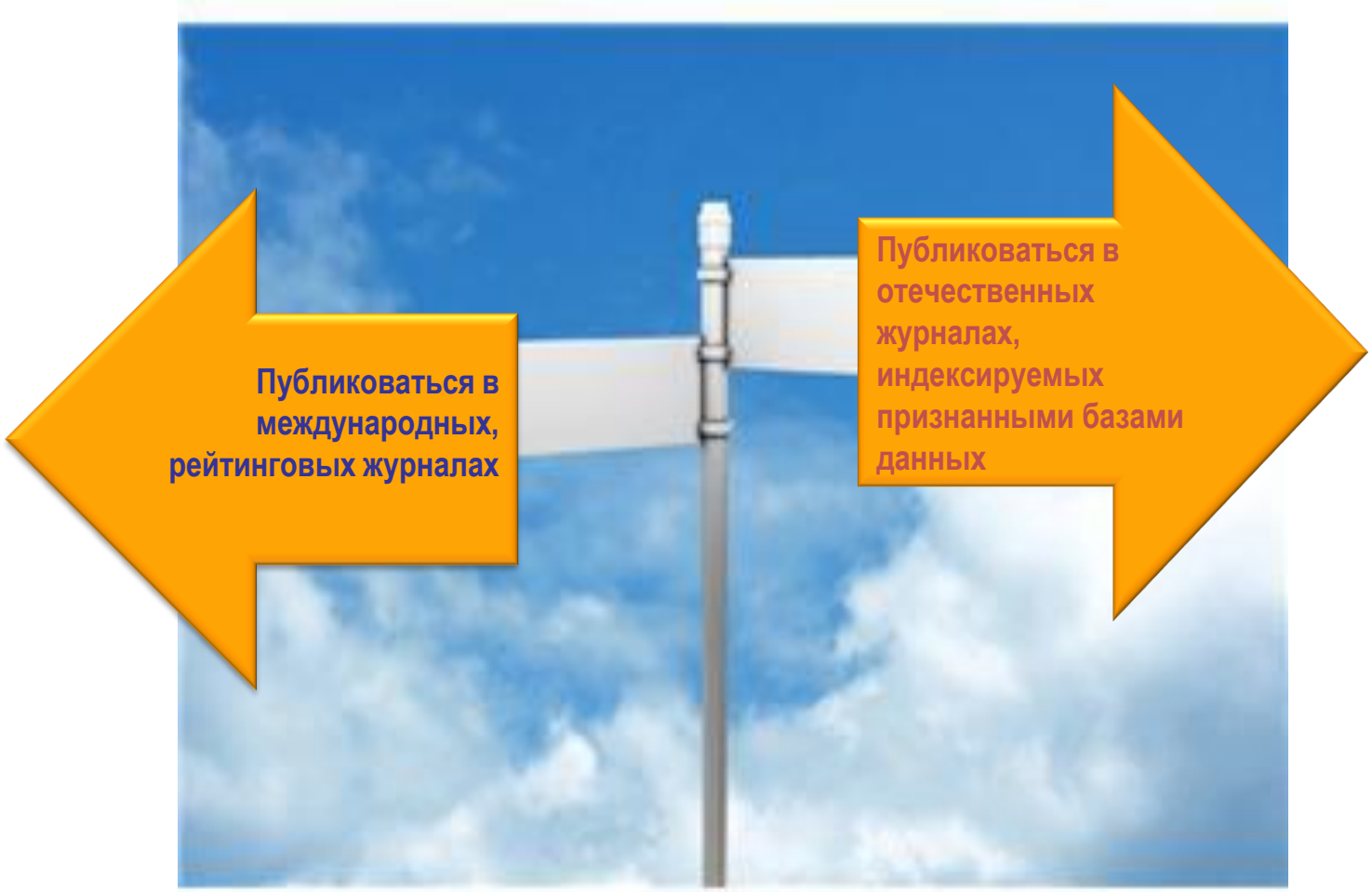

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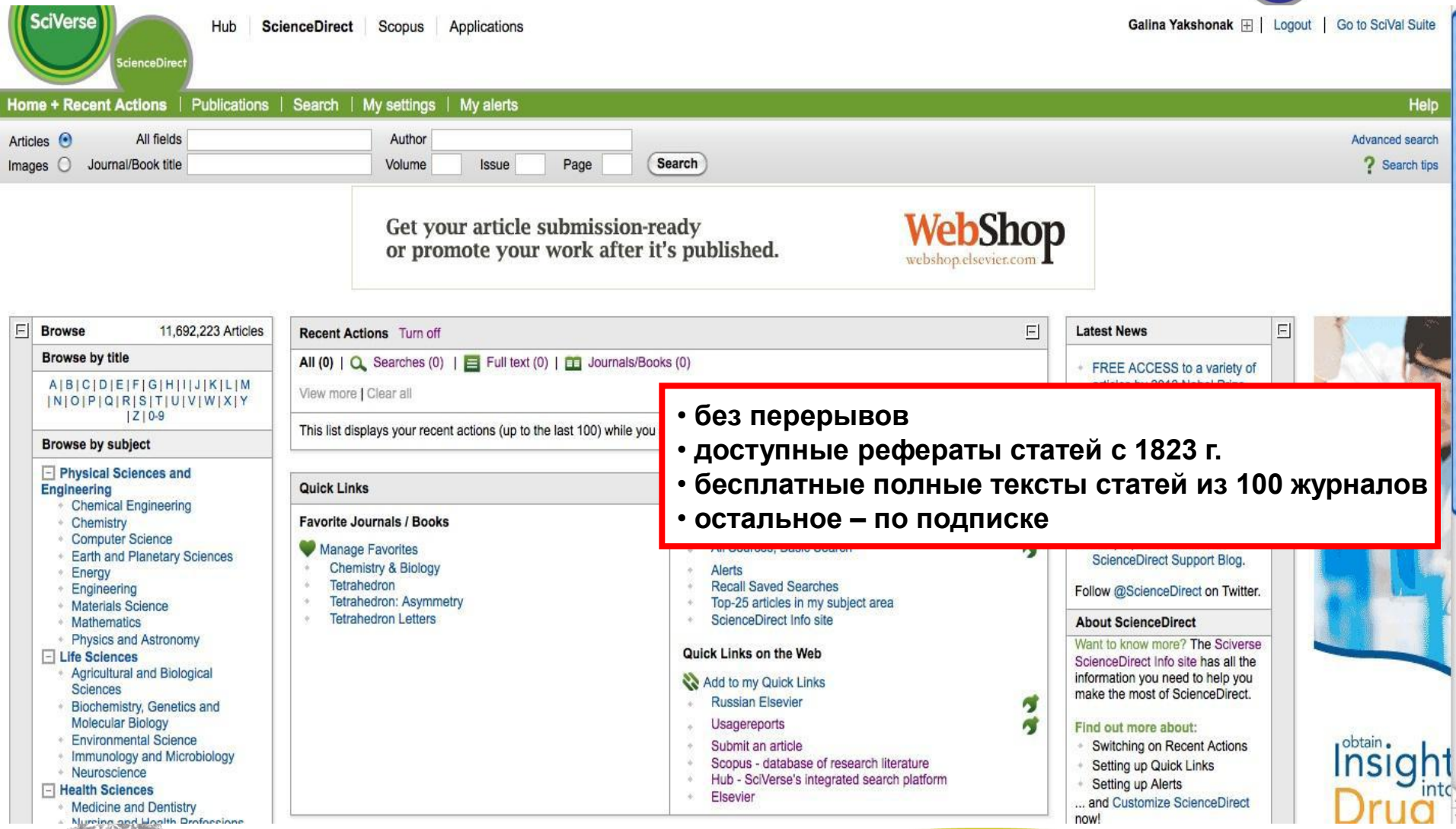

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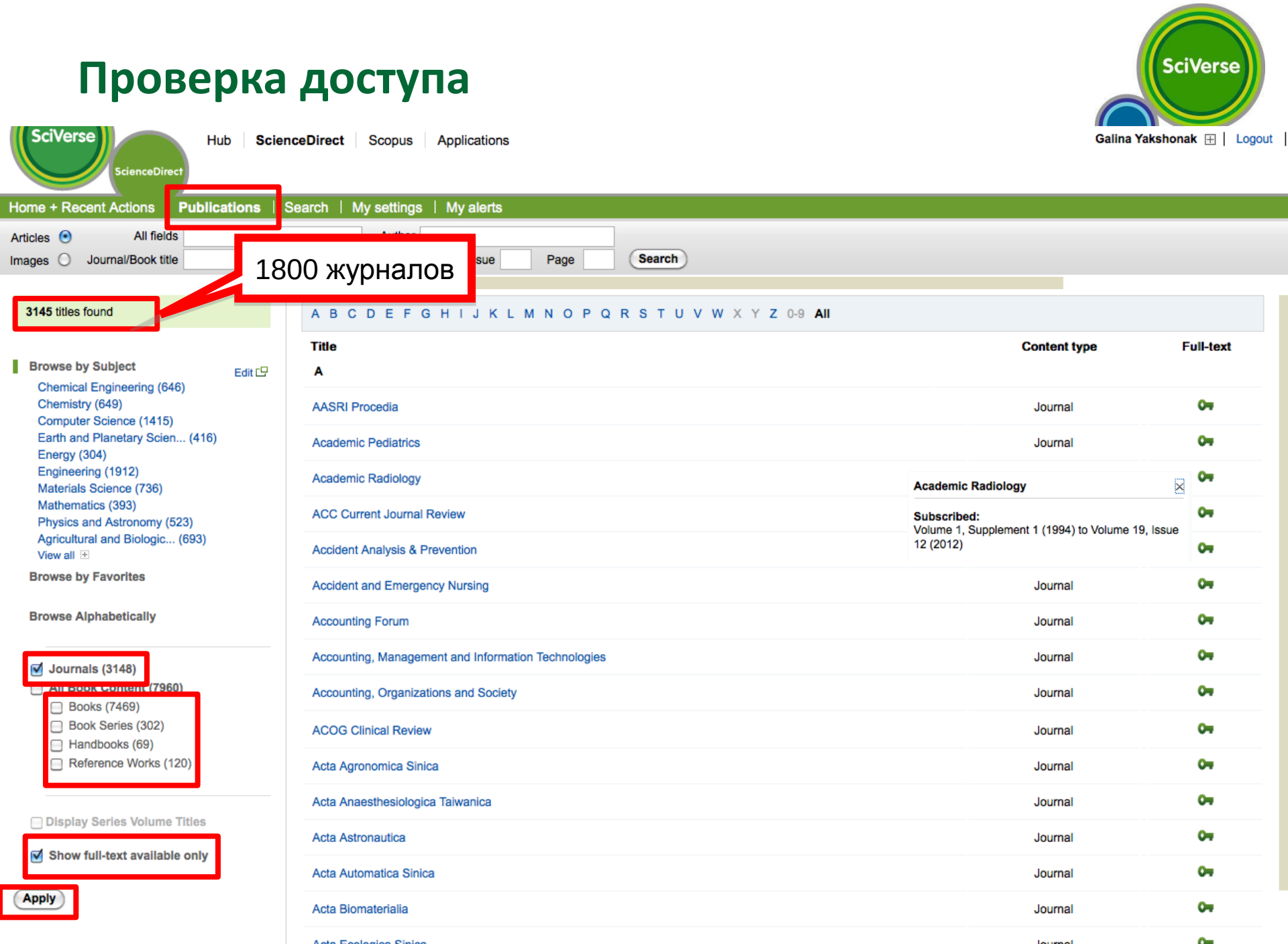

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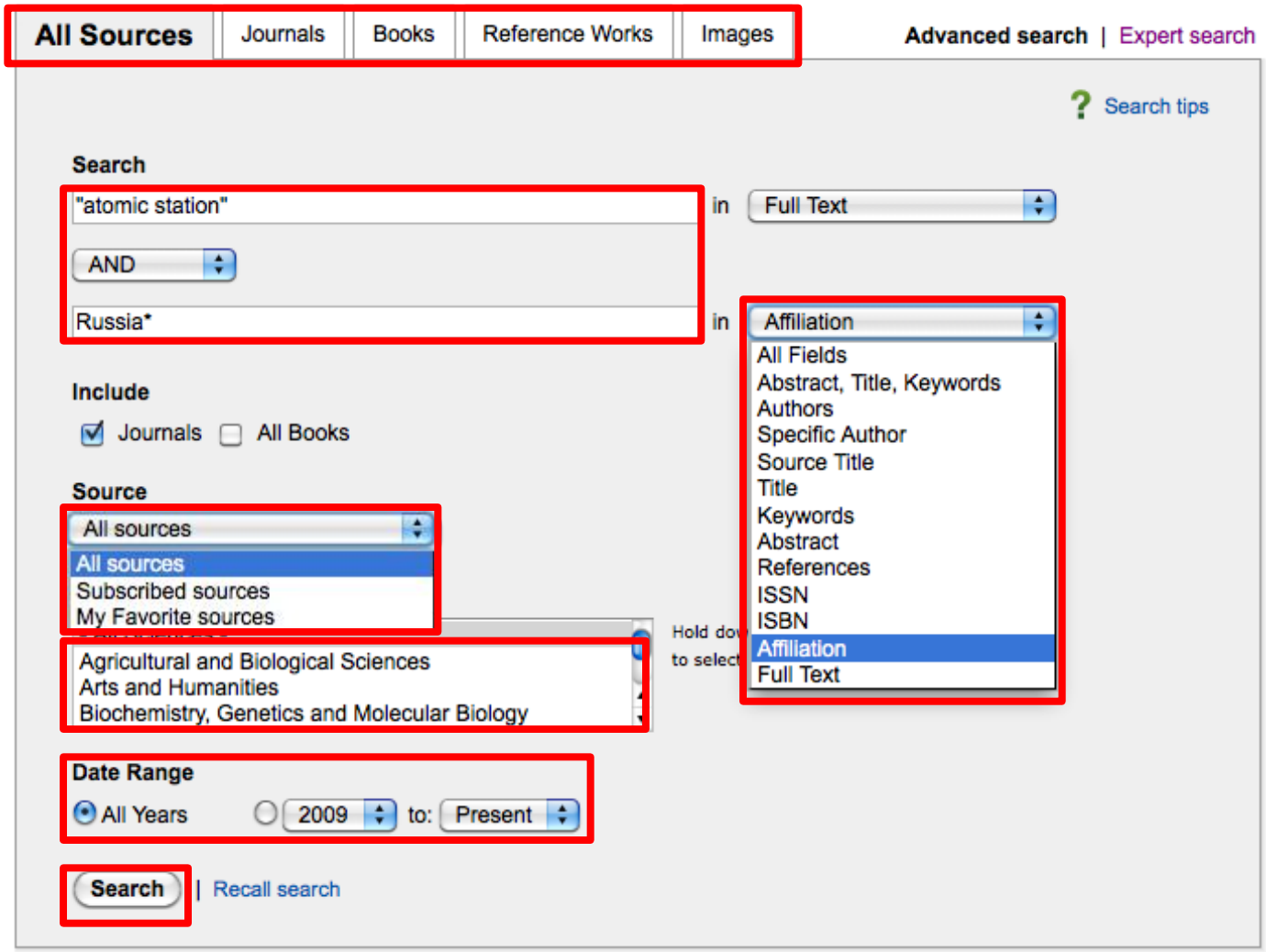
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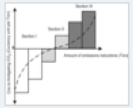

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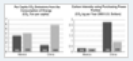

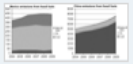

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Table 2
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4. Analysis
4.1. International pledges
Table 4
4.2. Mexico

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Energy Policy

Volume 51, December 2012, Pages 128–137

Renewable Energy in China

Framing energy efficiency and renewable energy policies: An international comparison between Mexico and China

Jose Maria Valenzuela, Ye Qi

School of Public Policy and Management, and Climate Policy Initiative, Tsinghua University, Beijing 100084, China

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Abstract

This essay compares national strategies on mitigation of GHG emissions for Mexico and China. This state-centered analysis stresses the importance of the interaction between international commitments, the disposition of internal interest of economy-wide actors, and the legacies of policy making and institutions, particularly in relation to economic development and central–local government relations. This research does not attempt to classify institutions according to their effectives to foster climate change policies, but rather explores specific circumstances for climate change policy making on developing countries. Contrary to international proposal to find a generic optimal policy choice, the research explored the relevance of certain political and economic institutions that can be present in other national cases. It shows that the legacies on liberalization and state retreat undermine the state ability to effectively engage with the economic actors on decisions and management. Likewise regular engagement with them undermines the state affinity towards pursuing economic efficient solutions. The relevance of adequate system of incentives for local government to engage in an agenda that is, by nature, adopted by the central

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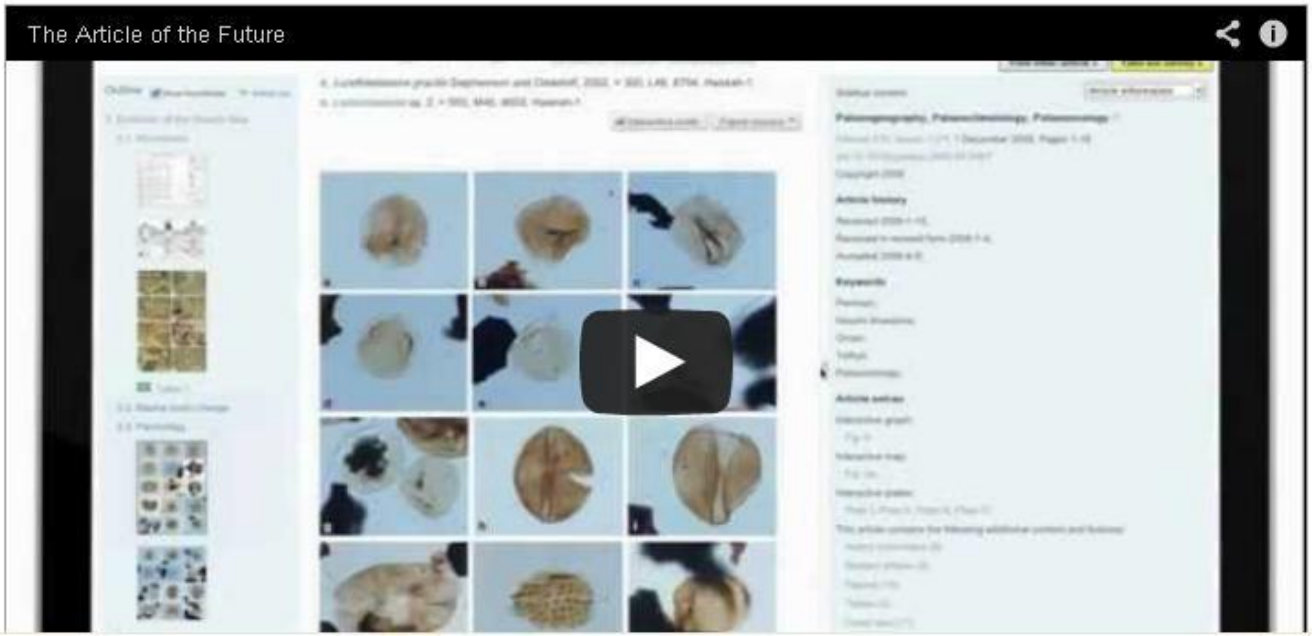

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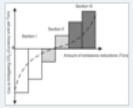

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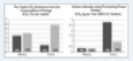

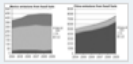

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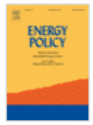

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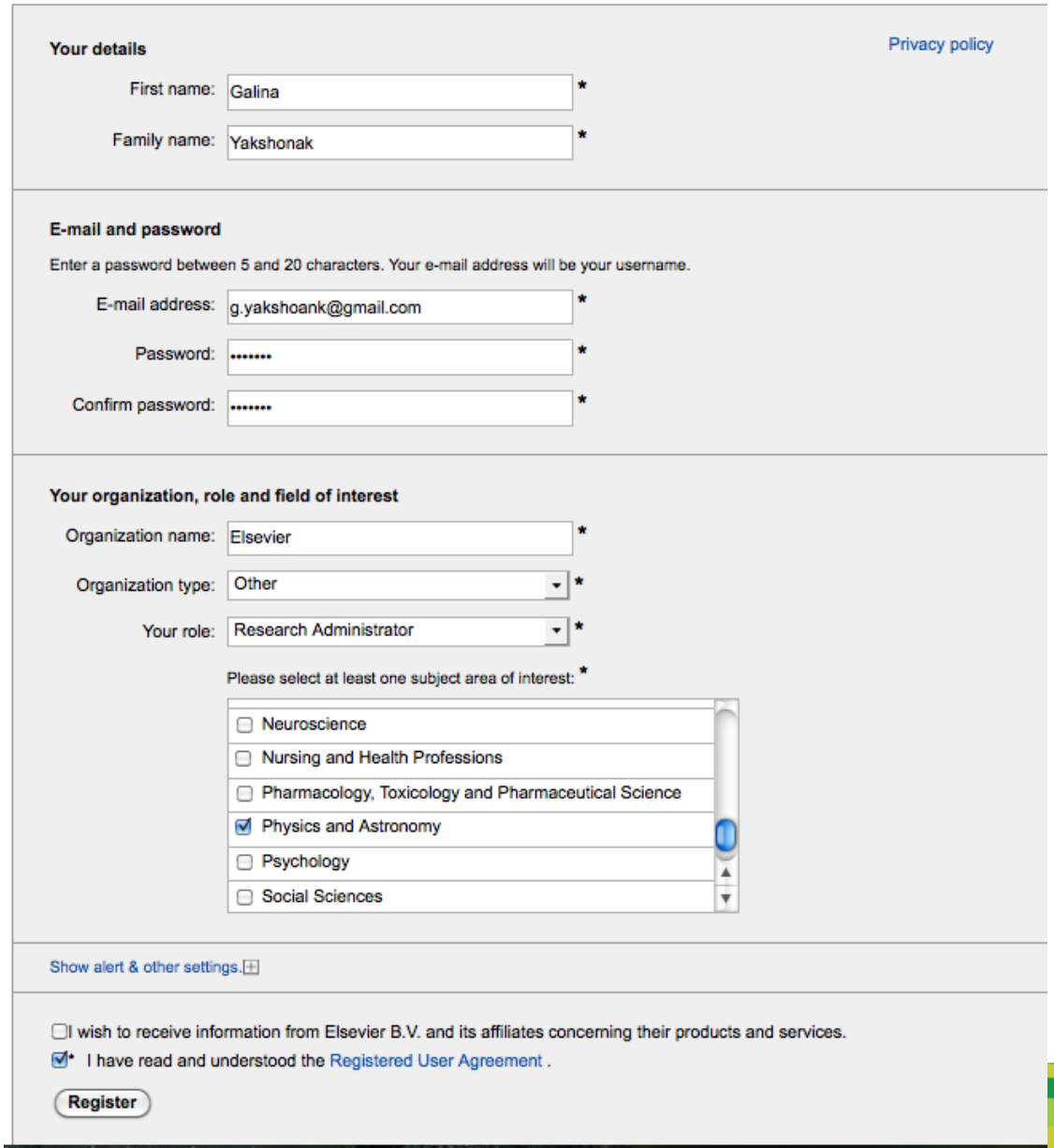

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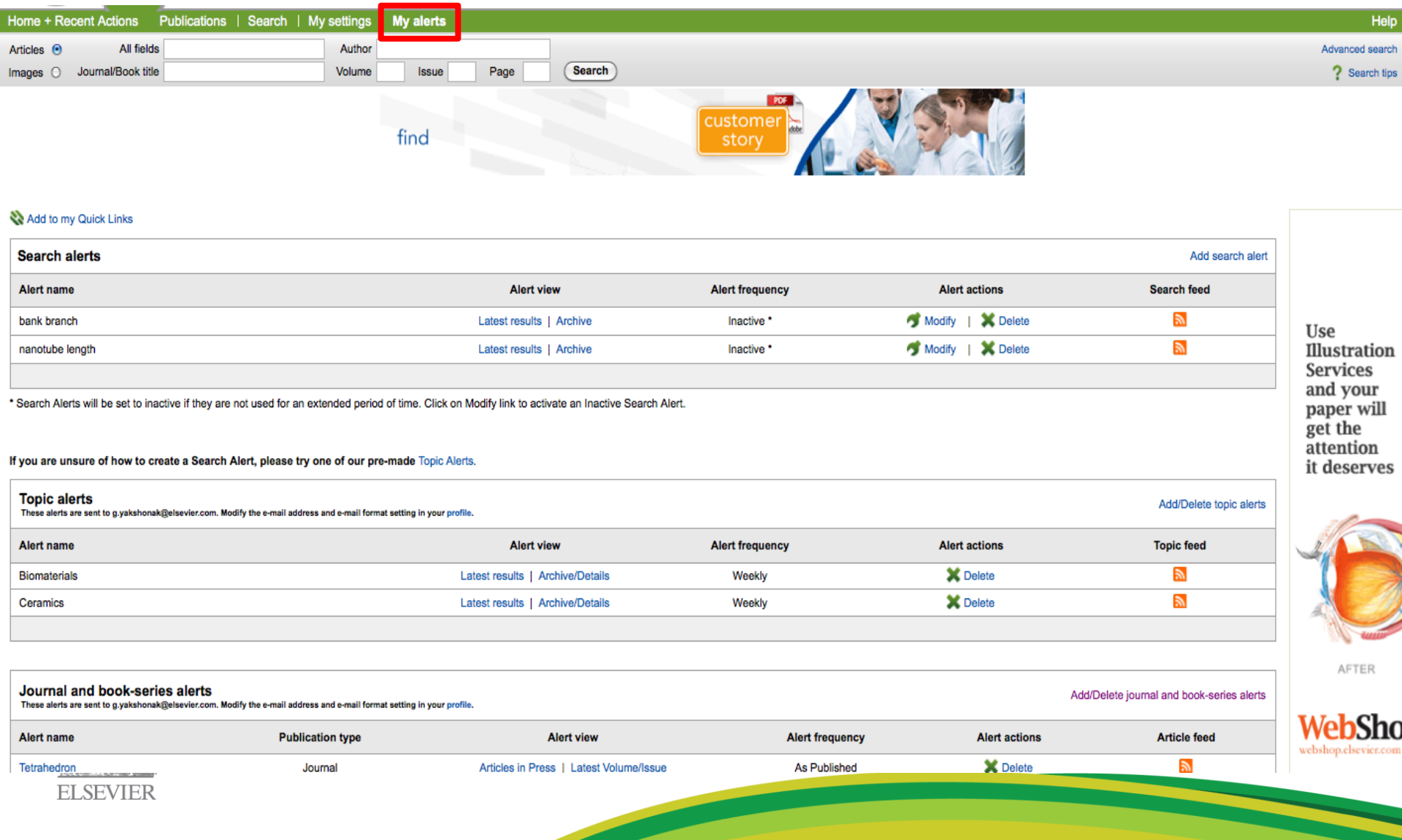

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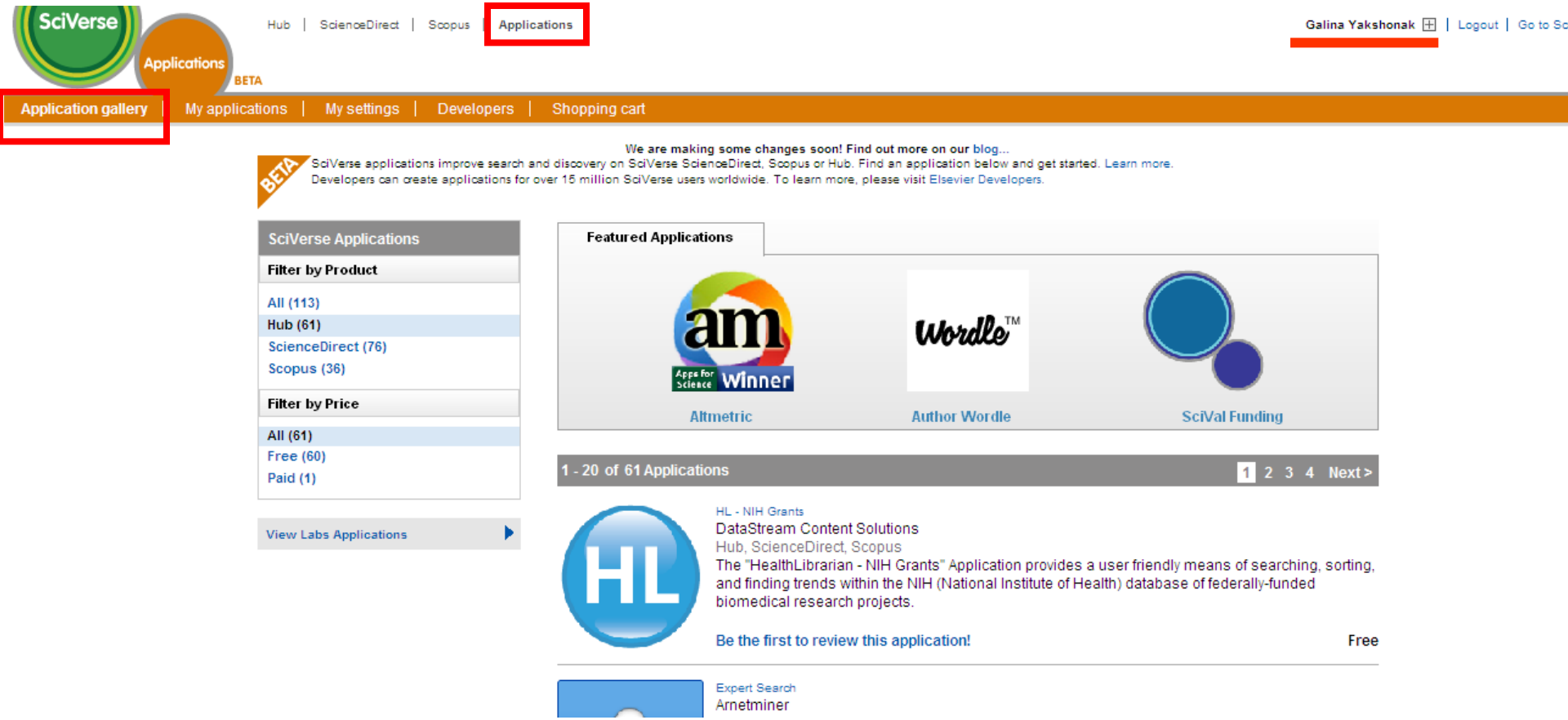

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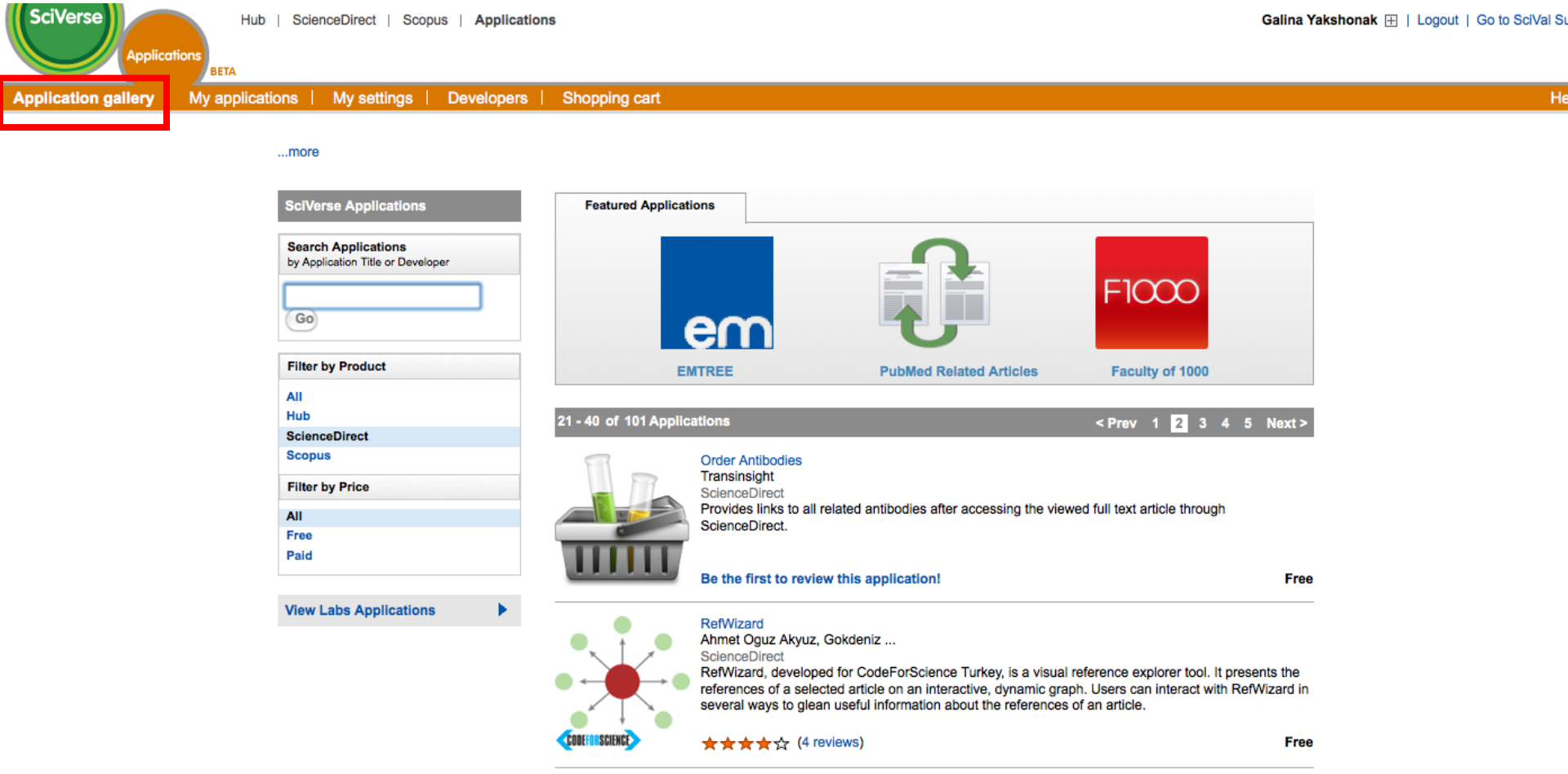

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The Image Data Extractor application offers users of SciVerse ScienceDirect an interactive tool to extract the data presented in plots. By indicating the location of axes and data points, users build a data table that can be shown in the web browser or exported in standard CSV format for use in Excel or other software tools. This application is part of our ongoing effort to improve the online HTML article on SciVerse ScienceDirect, providing authors an optimal platform to expose their research, and helping researchers to build deep insights fast.

To begin the process of extracting data, simply click on one of the thumbnails displayed in the Image Data Extractor browser in the right-hand panel. This opens up the Image Data Extractor in a separate window or tab with the selected image. To capture the data points in the selected plot and generate a data table, the application allows you to set the zoom level, add axes, set the range of the axes and add the data points, all on screen. Clicking on the "Results" button opens up the data table. Here you can also export the table in CSV format. Note that you must have captured data points before you can view the data table. More options are available under the "Axes" and "Data points" drop-down menus, including the possibility to delete points or change the point style. Step-by-step instructions are also displayed during the various steps in the data extraction process.

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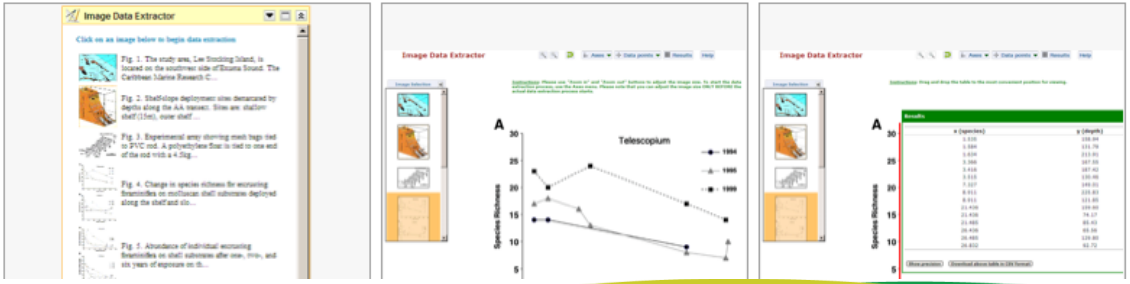

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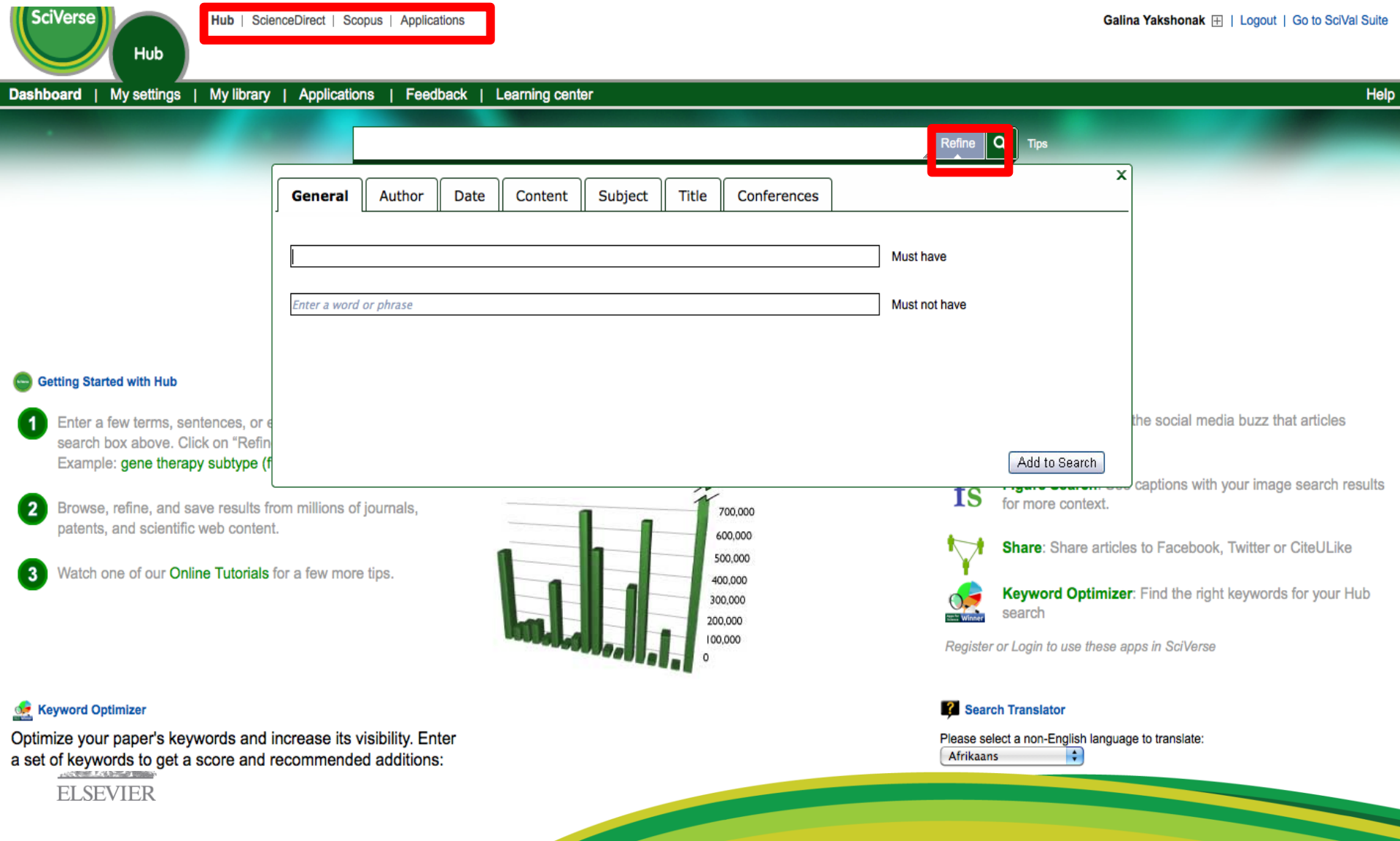

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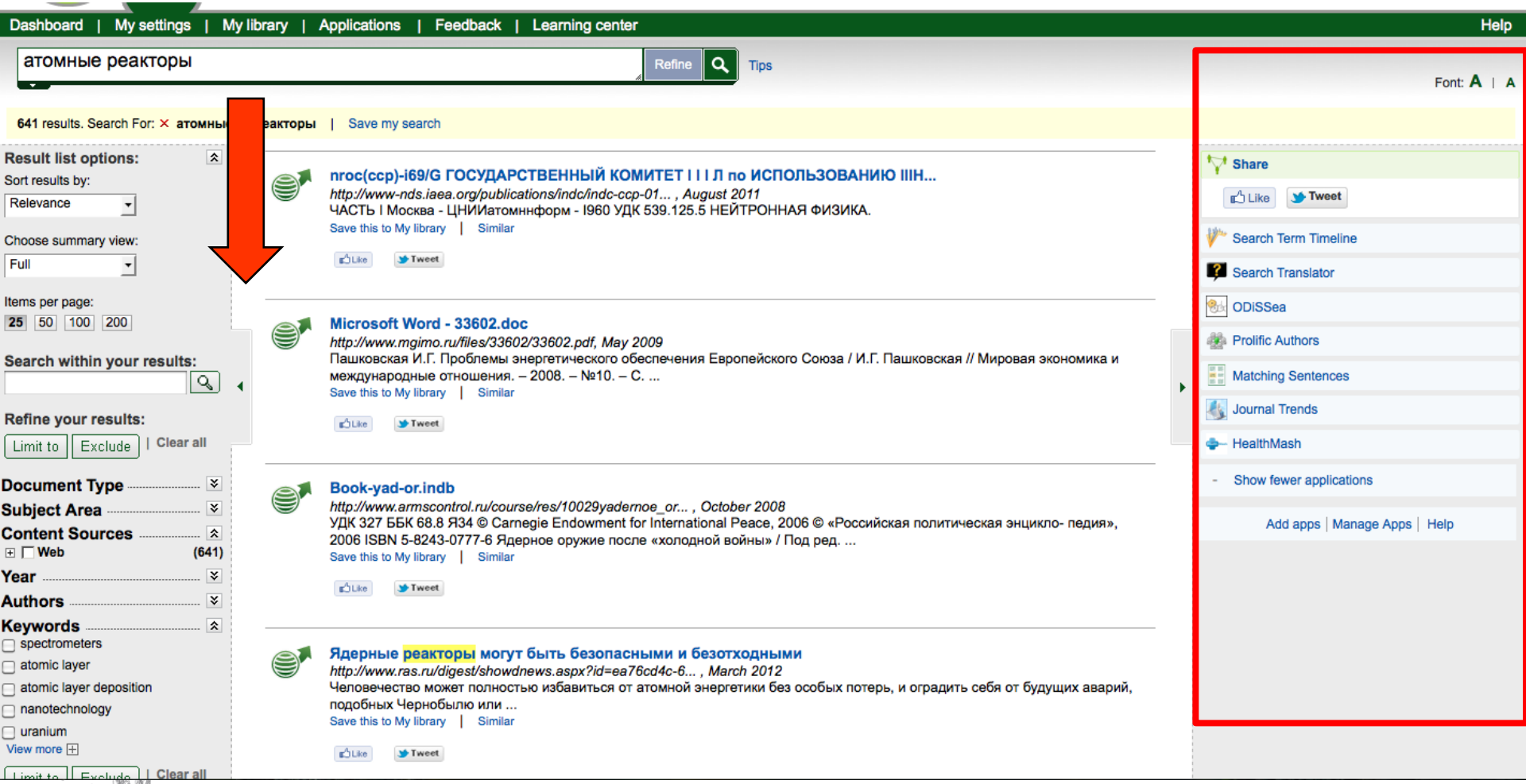

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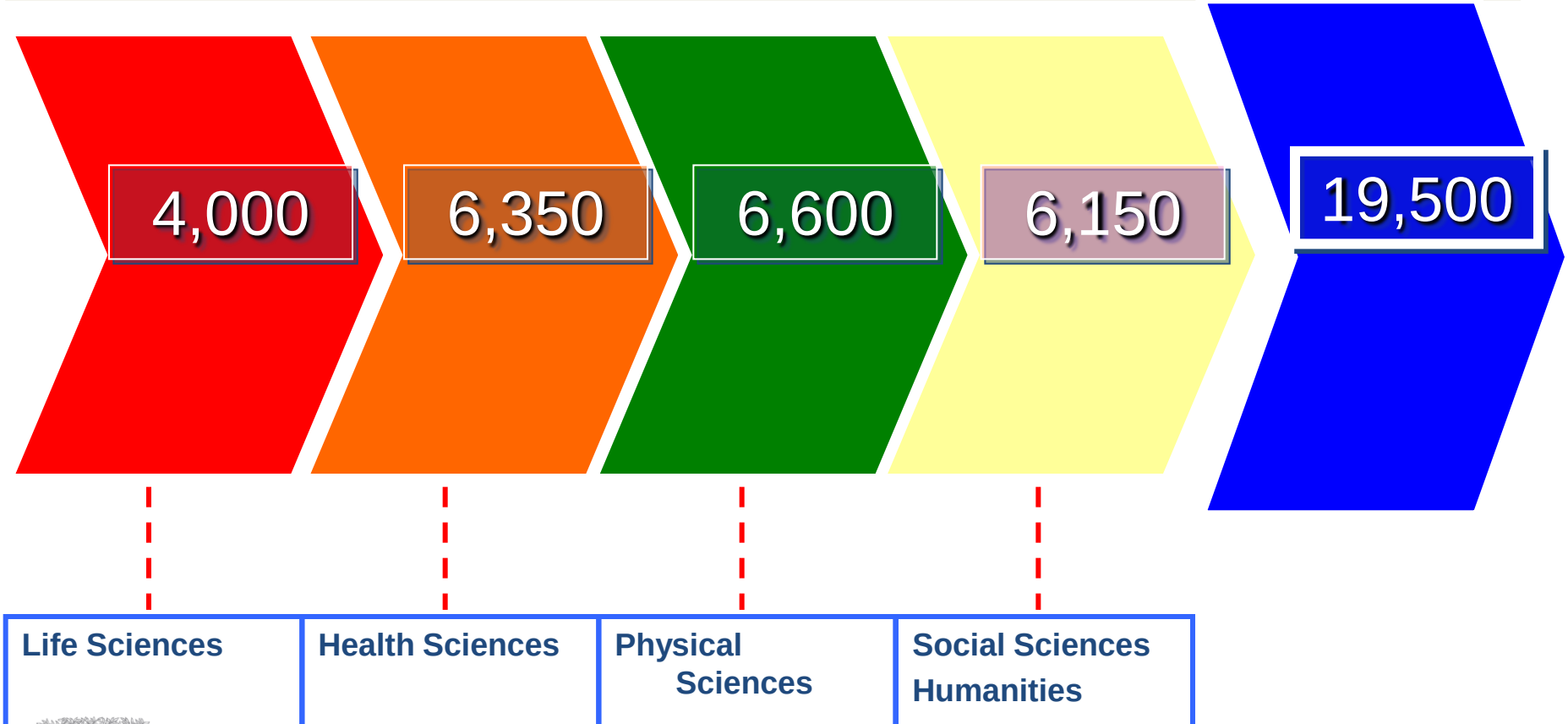

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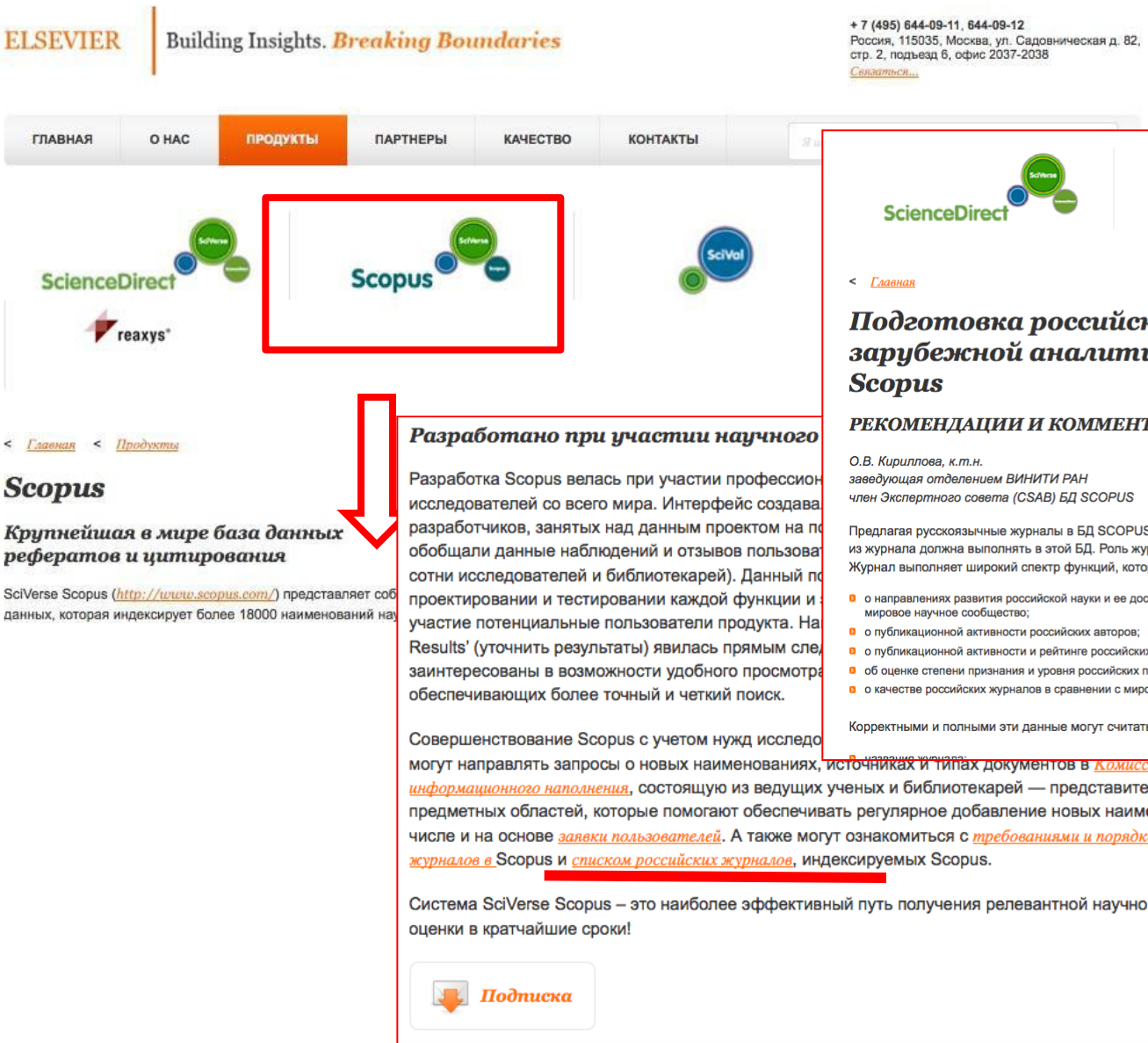

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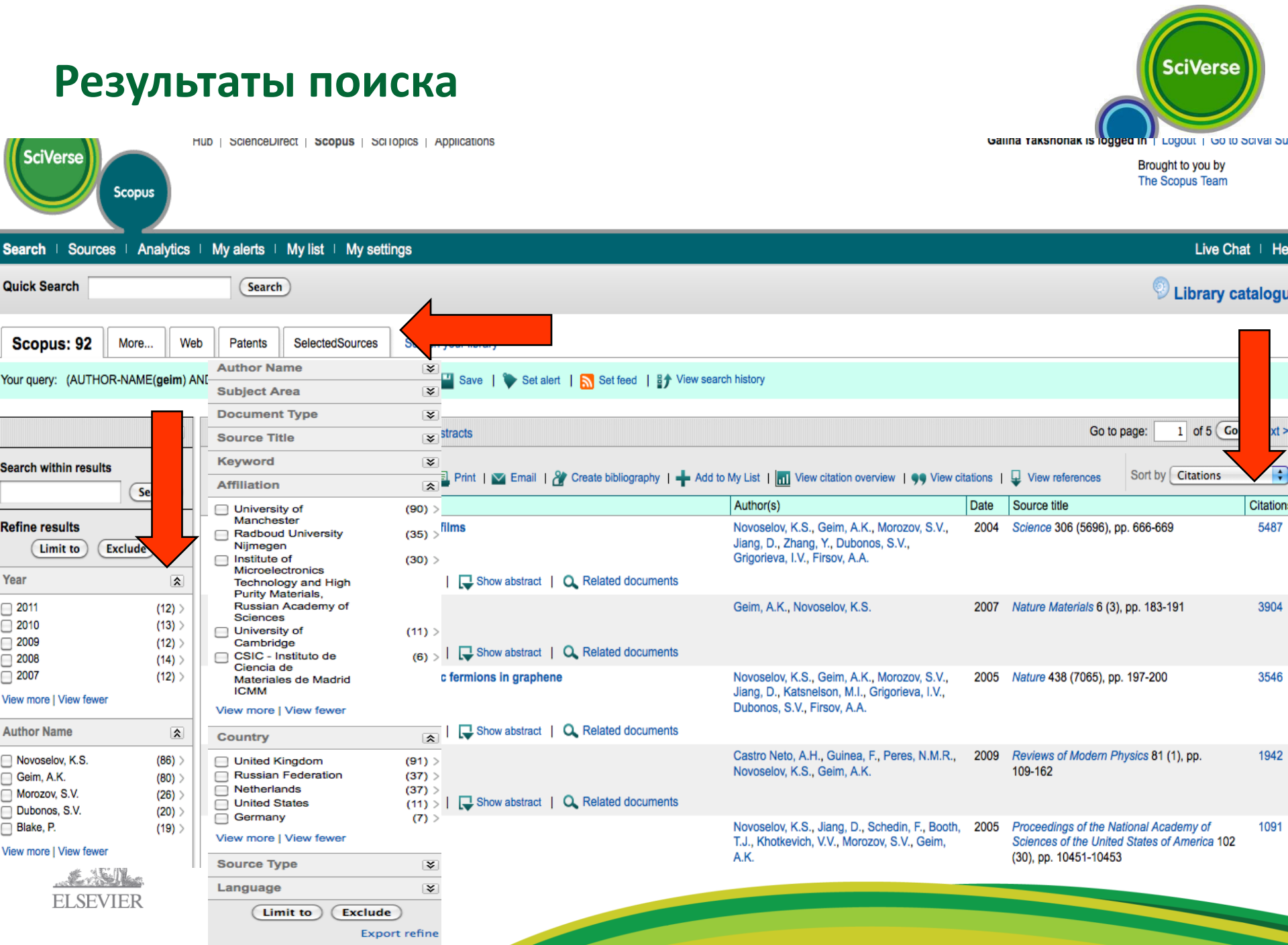

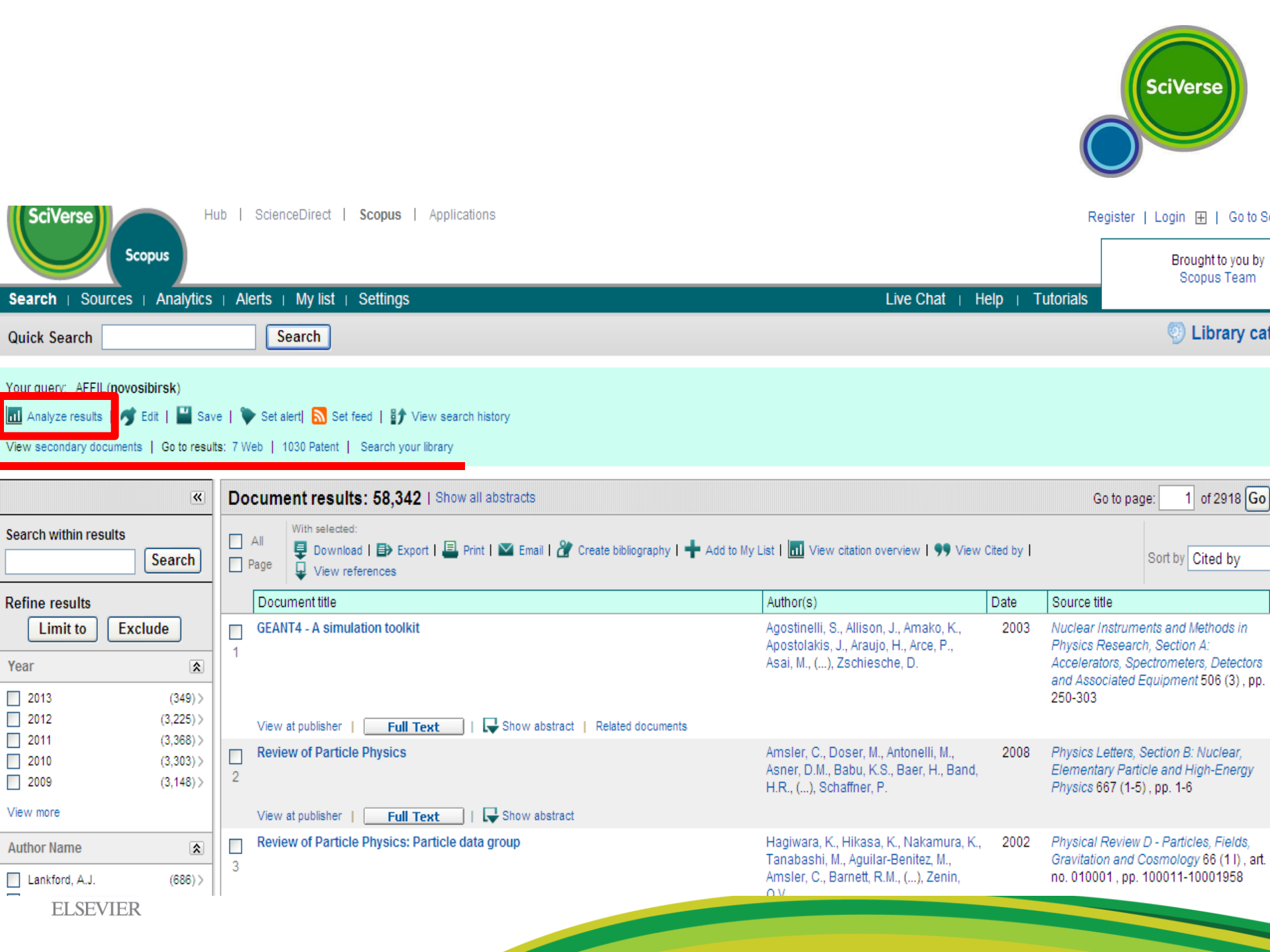
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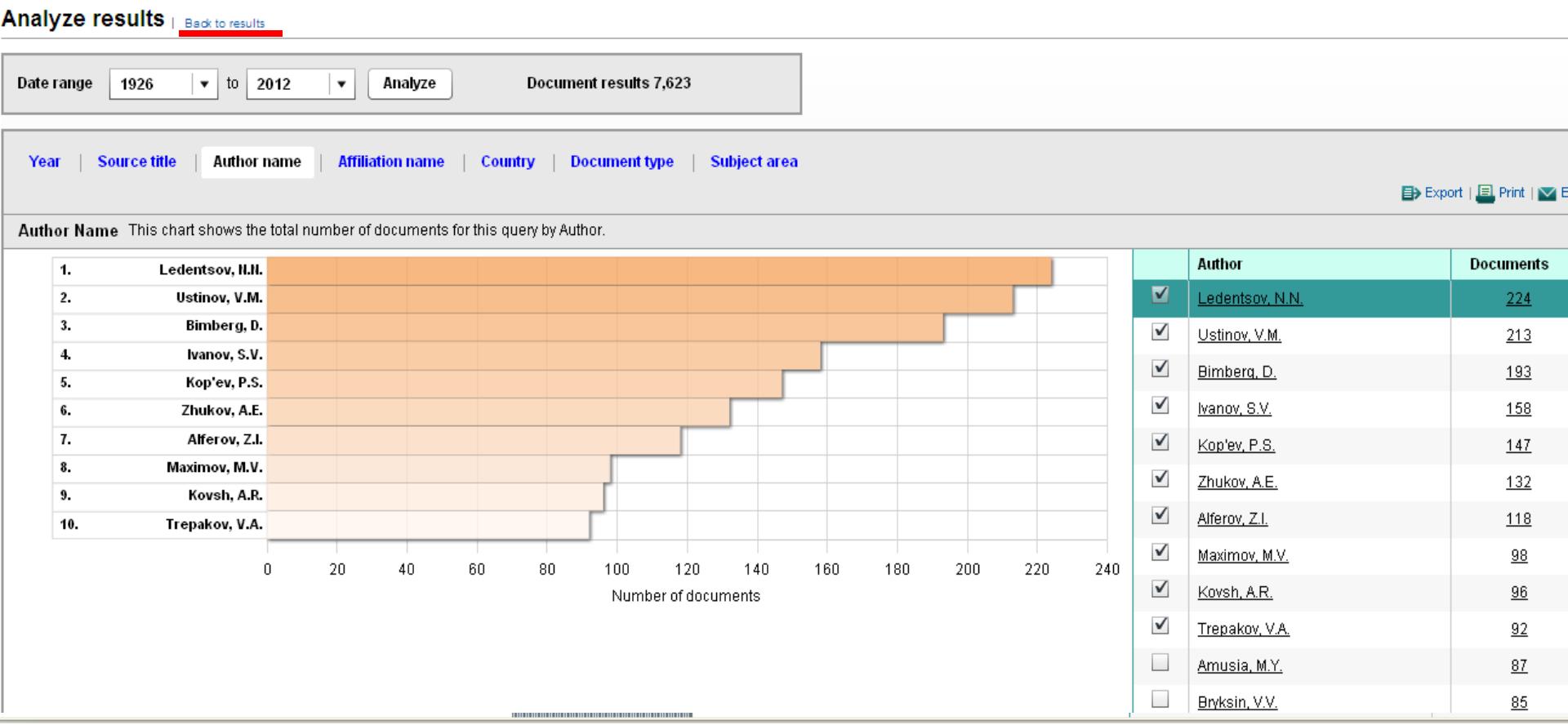

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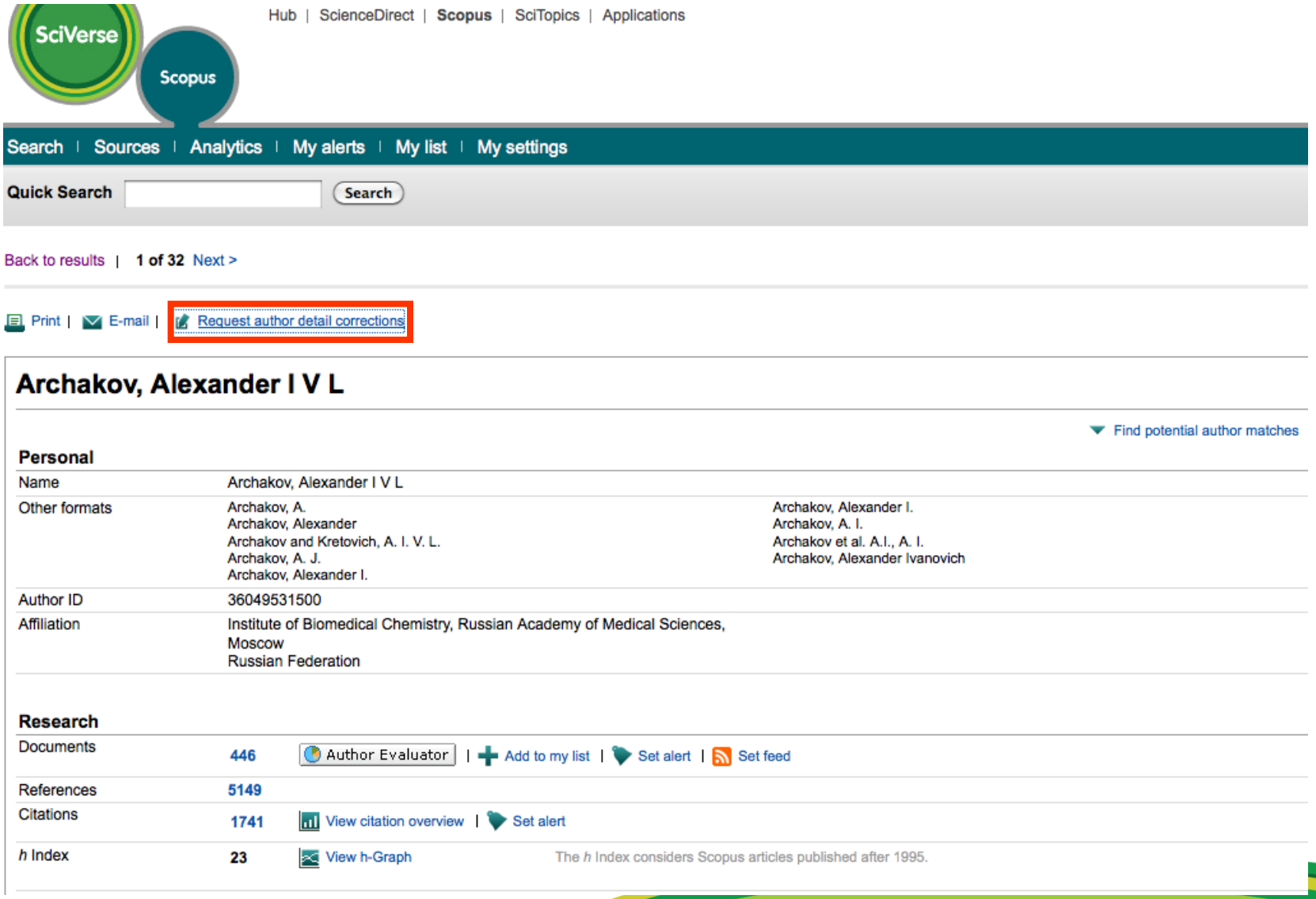

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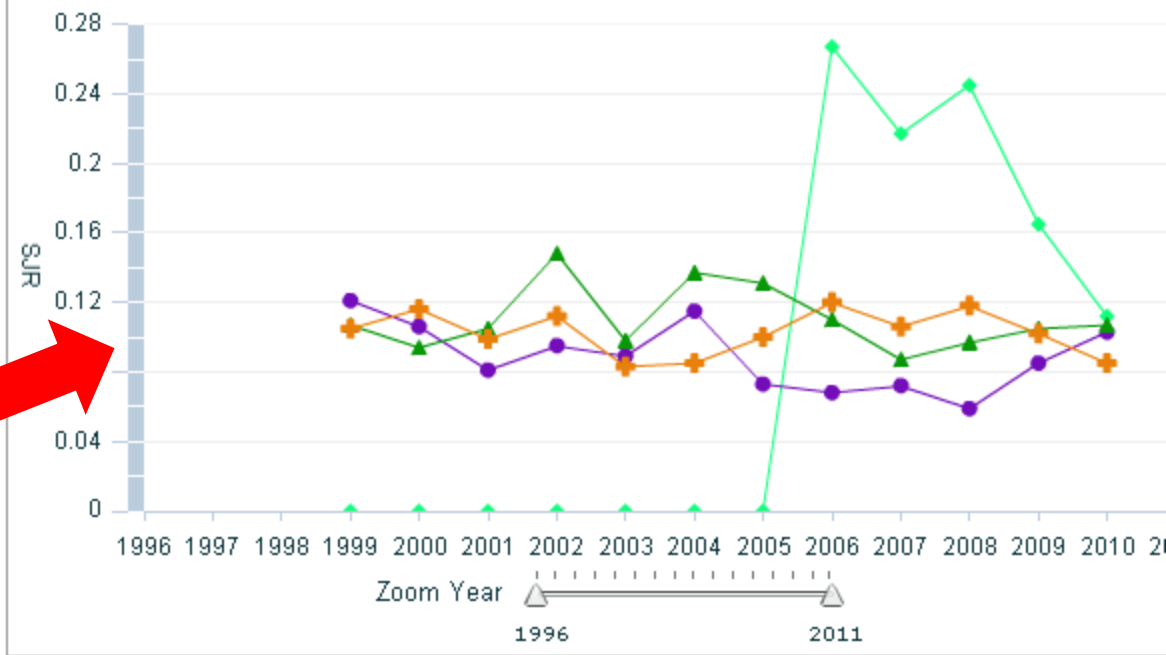

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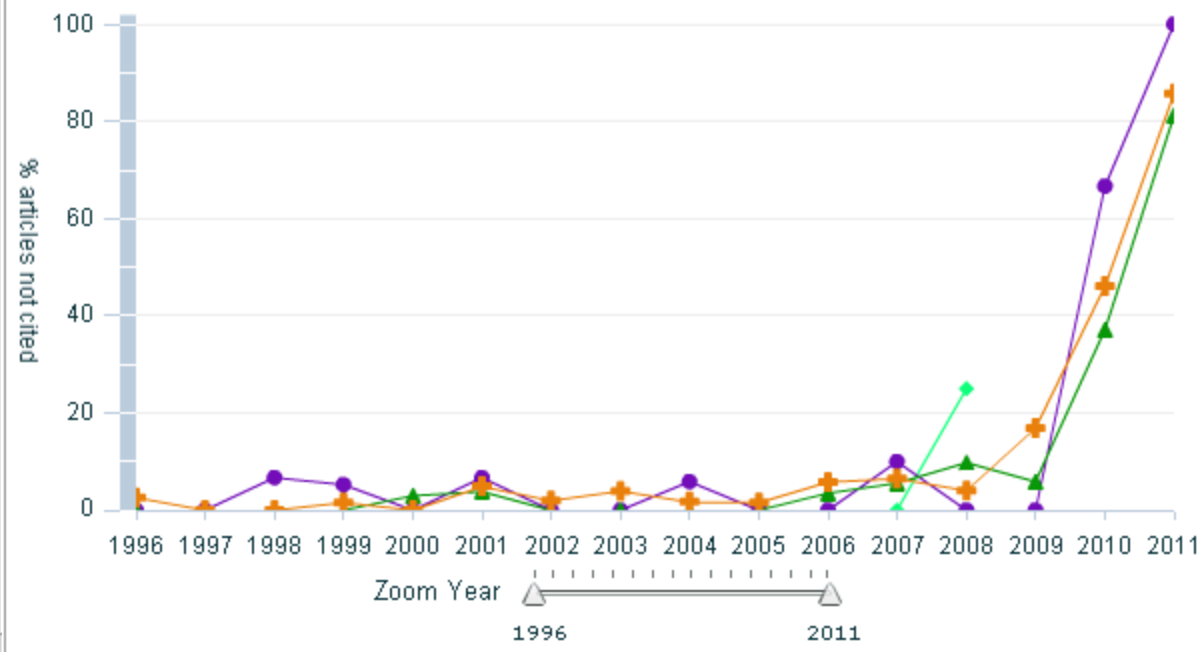

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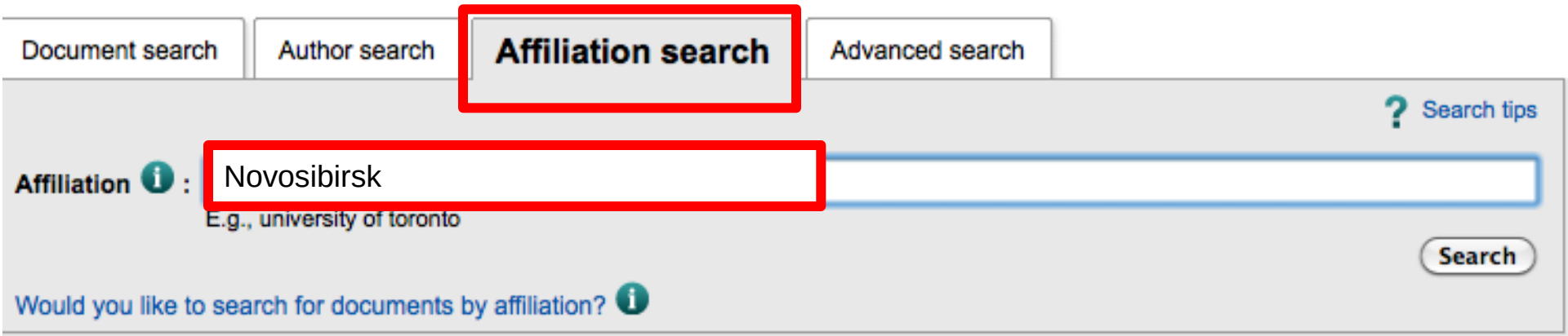

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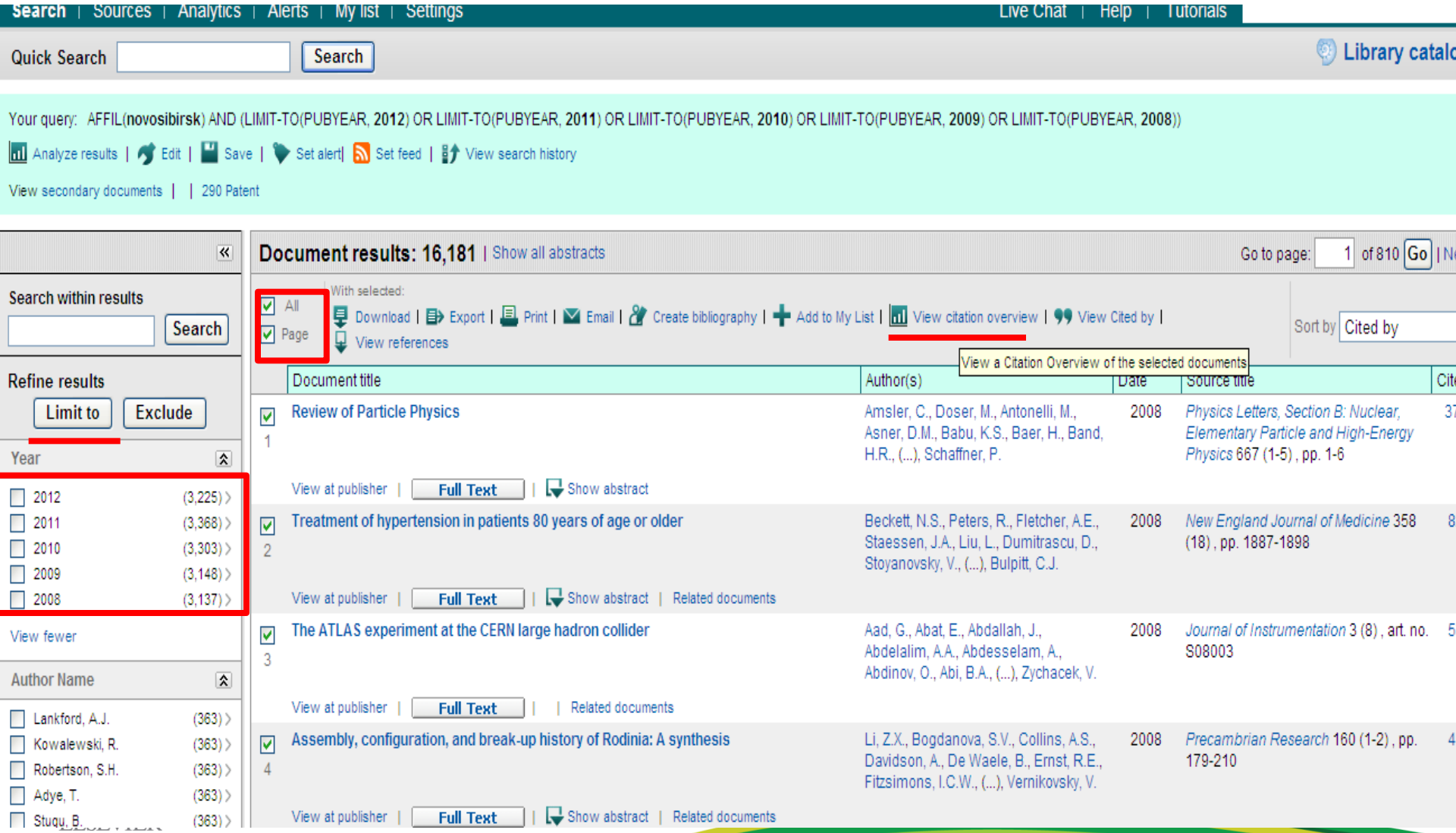

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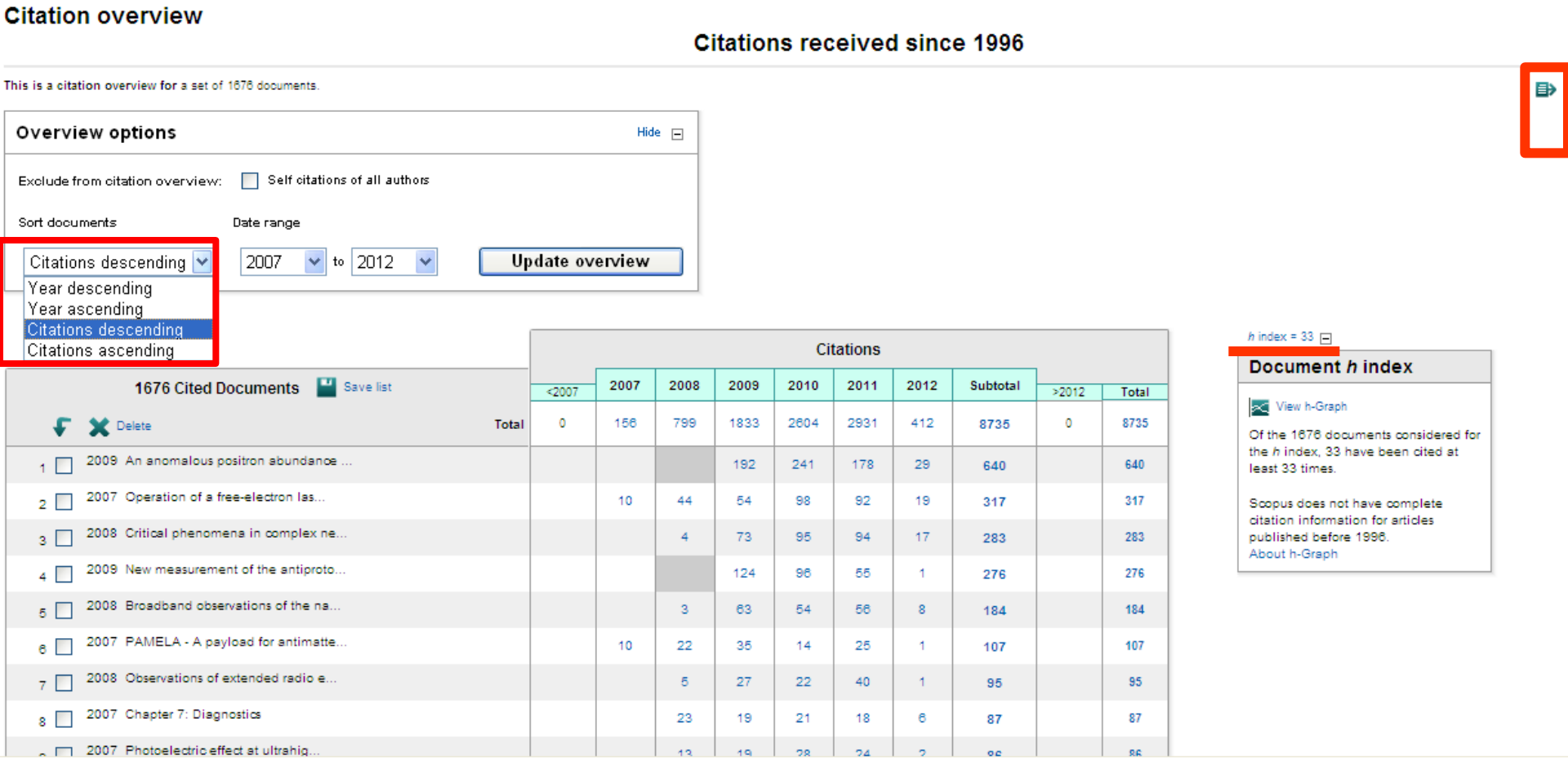

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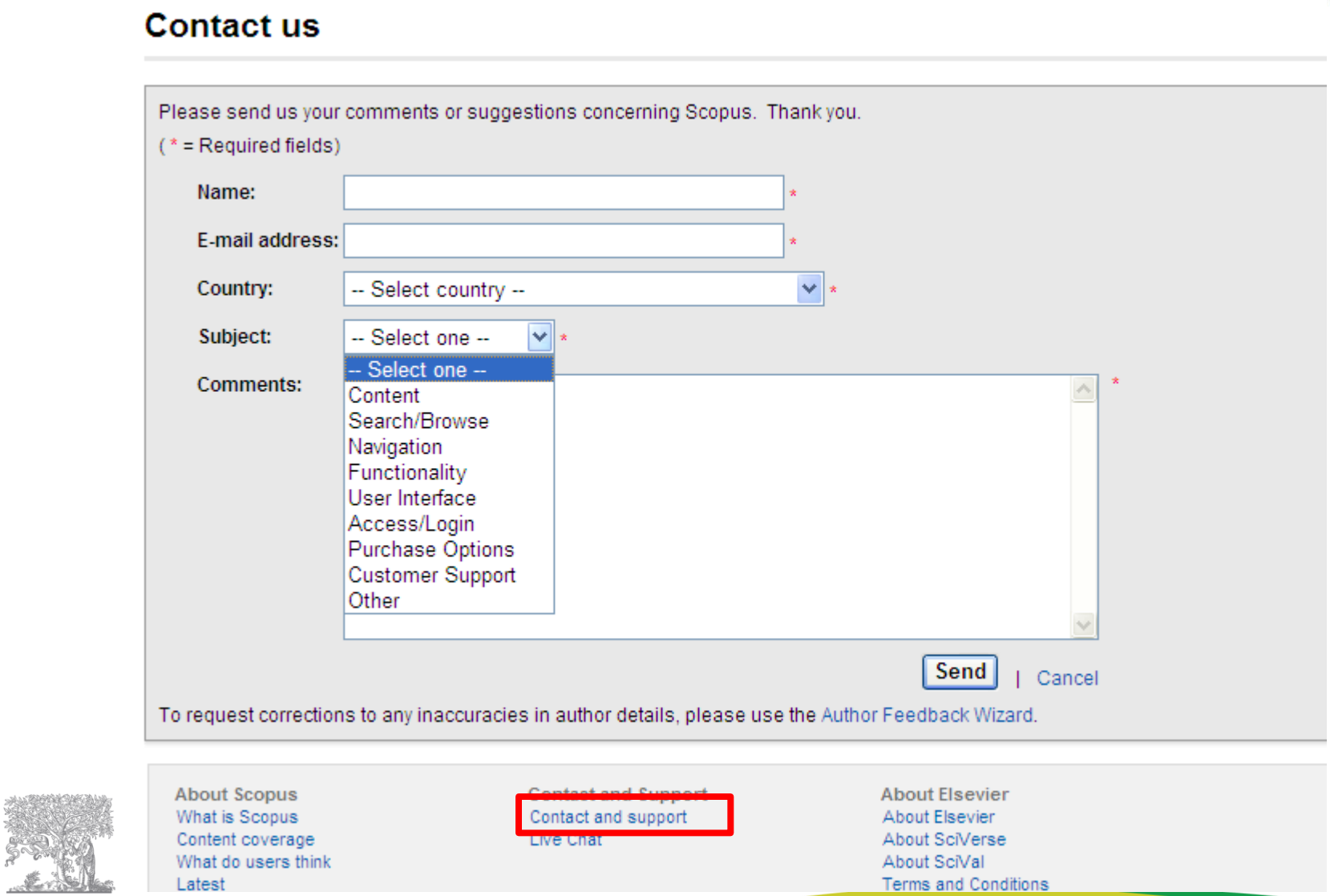

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