

The present and future of Ukrainian Science - unbiased view of Scopus

4th International Conference on Scientific communication in the Digital Age. Kyiv



What content does Scopus include?

61M records from **22,245** serial titles (**55 active Ukrainian titles**) and over 94,900 books 21.6M pre 1996 records | 36.7M post 1995 records

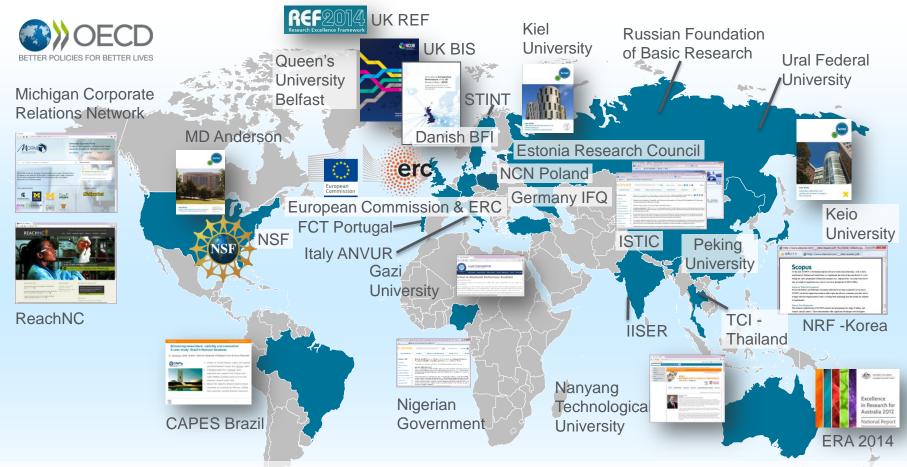
- Content from > 5,000 publishers
- "Articles in Press" from >5,000 titles
- Titles from 105 different countries in all geographical regions
- 40 "local" languages covered
- More than 3,780 Gold Open Access journals indexed
- Archives up to year 1823 included



Scopus has the broadest coverage of global, curated, relevant research, with smart, simple tools to help track, analyze and visualize research.



Elsevier Data is the standard for science evaluation



Rankings:













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High quality journals due to selection by the independent Content Selection & Advisory Board (CSAB)



The CSAB is chosen for their expertise in specific subject areas; many have (journal) Editor experience

Focus on quality through content selection by the independent CSAB, because:

- Provide accurate and relevant search results for users
- No dilution of search results by irrelevant or low quality content
- Support that Scopus is recognized as authoritative
- Support confidence that Scopus "reflects the truth"













How is Ukrainian science represented in Scopus? 408

V1. Apparate zur Erleichterung des Filtrirens Aus einem Schreiben des Hrn. Hauy an Hrn. J. J. Berzelius.

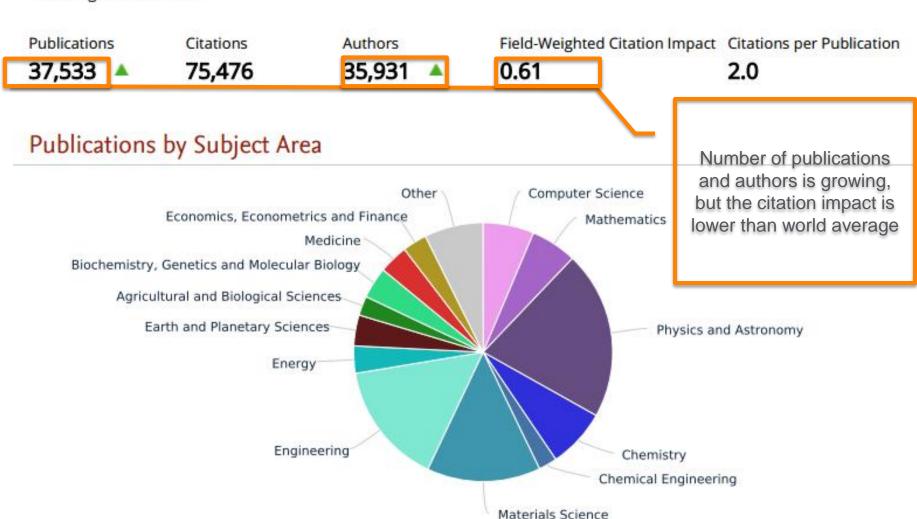
Odessa, 6. Dec. 1829.

- 184 047 publications since 1830
- 8 846 publications in 2015
- 31 247 author profiles
- 281 affiliations
- 55 active titles

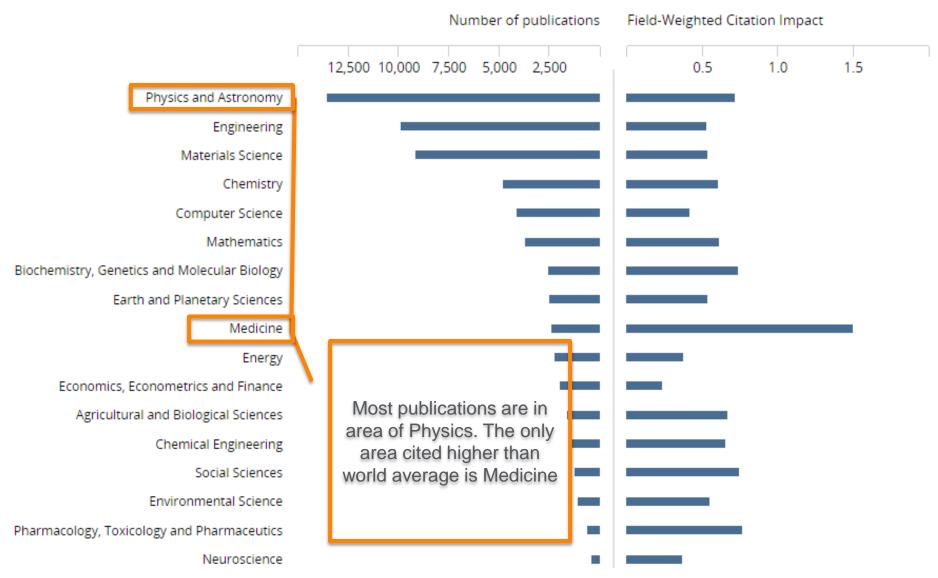
Ukrainian Science Overview according to Scopus data

Ukraine

Year range: 2012 to 2015



Ukrainian Publications by Journal Category

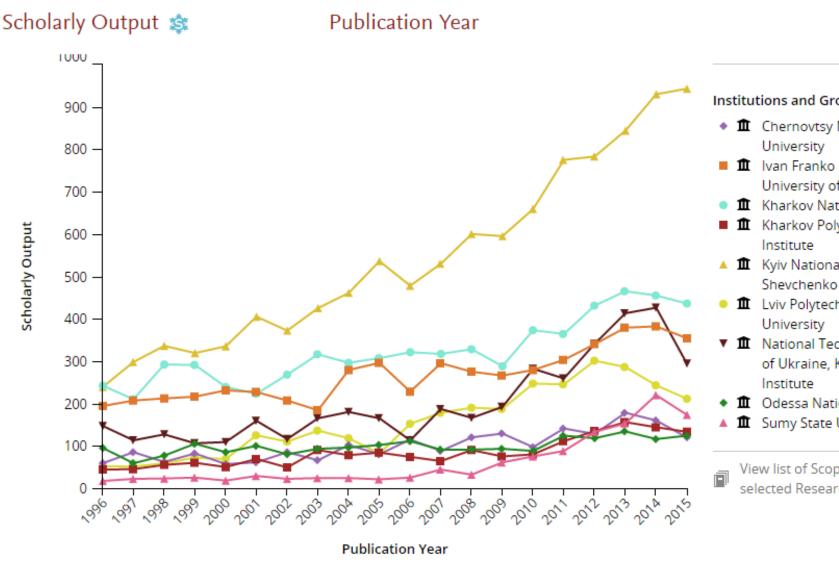


Who are publication leaders?

There are 20 Institutions in Ukraine:

Institution	Publications	₹ Authors	Citations ▼
Ukraine National Academy of Sciences	19,283	▲ 13,037 ▲	66,380
2. Kyiv National Taras Shevchenko University	3,966	▲ 2,627 ▲	10,386
3. Kharkov National University	2,121	1,389 🛦	4,773
4. National Science Center Kharkov Institute of Physics and T	echnology 1,993	▲ 1,374 ▲	17,531
5. National Technical University of Ukraine, Kiev Polytechnic	Institute 1,703	▲ 1,542 ▲	1,625
6. Ivan Franko National University of L'viv	1,670	▲ 1,273 ▲	3,806
7. Lviv Polytechnic National University	1,316	▼ 1,124 ▲	1,428
8. Chernovtsy National University	702	▲ 469 ▲	1,504
9. Sumy State University	671	▲ 554 ▲	1,743
10. Kharkov National University of Radio Electronics	647	▼ 586 ▼	448
11. Kharkov Polytechnical Institute	619	▲ 560 ▲	1,088
12. Odessa National University	576	▲ 410 ▲	1,758
13. Donetsk National University	450	▲ 379 ▲	436
14. Uzhhorod National University	305	▲ 236 ▲	653

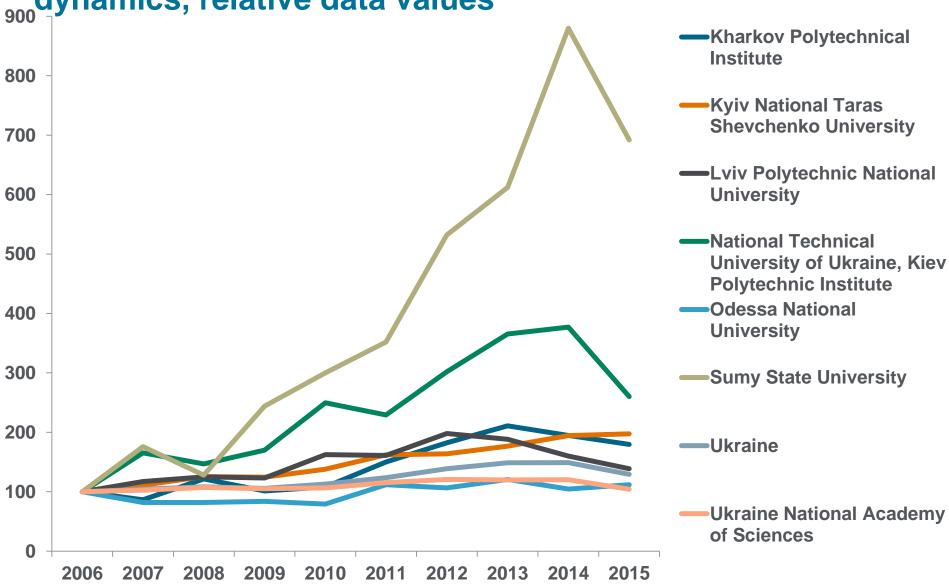
Ukrainian publication leaders among universities dynamics



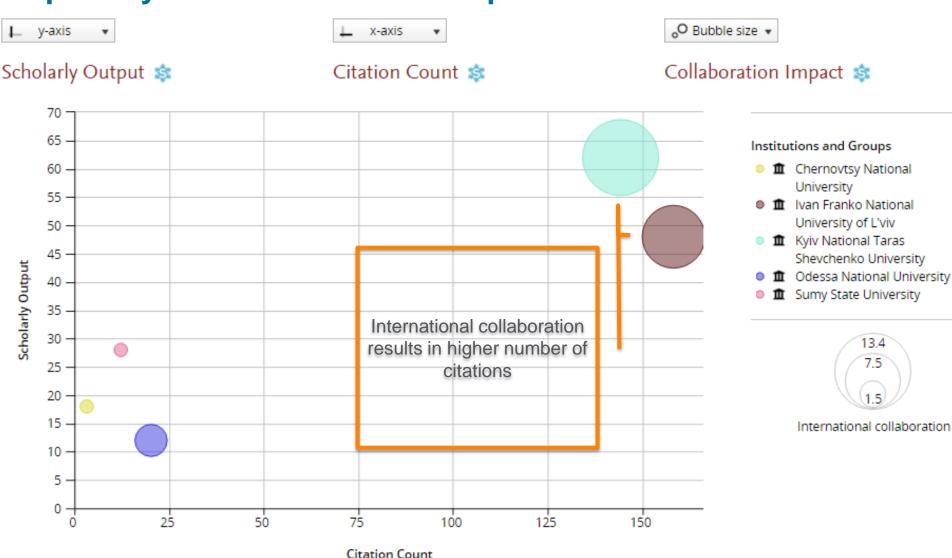
Institutions and Groups

- III Chernovtsy National
- III Ivan Franko National University of L'viv
- M Kharkov National University
- M Kharkov Polytechnical
- Kyiv National Taras Shevchenko University
- Lviv Polytechnic National
- Mational Technical University of Ukraine, Kiev Polytechnic
- Odessa National University
- Sumy State University

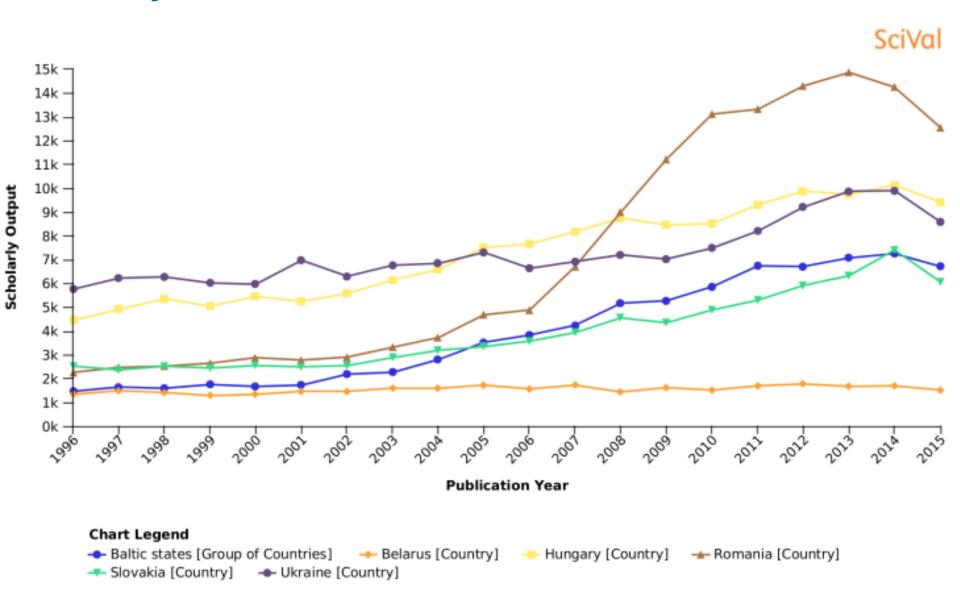
View list of Scopus Sources for the selected Researchers and Groups Ukrainian publication leaders among universities – dynamics, relative data values



Ukrainian publication leaders – correlation of quality and quantity with collaboration impact

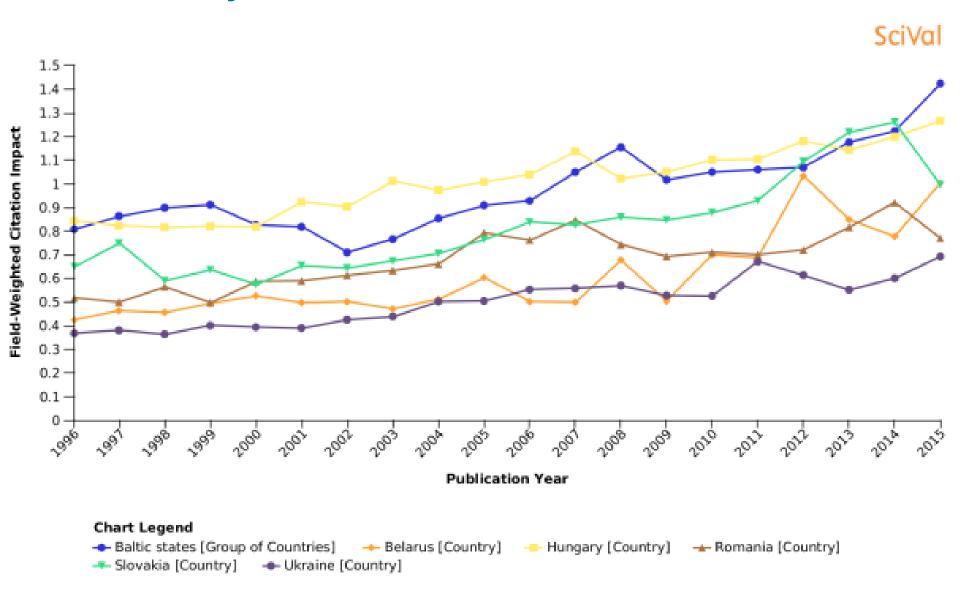


Ukraine in comparison with neighbouring countries Quantity...

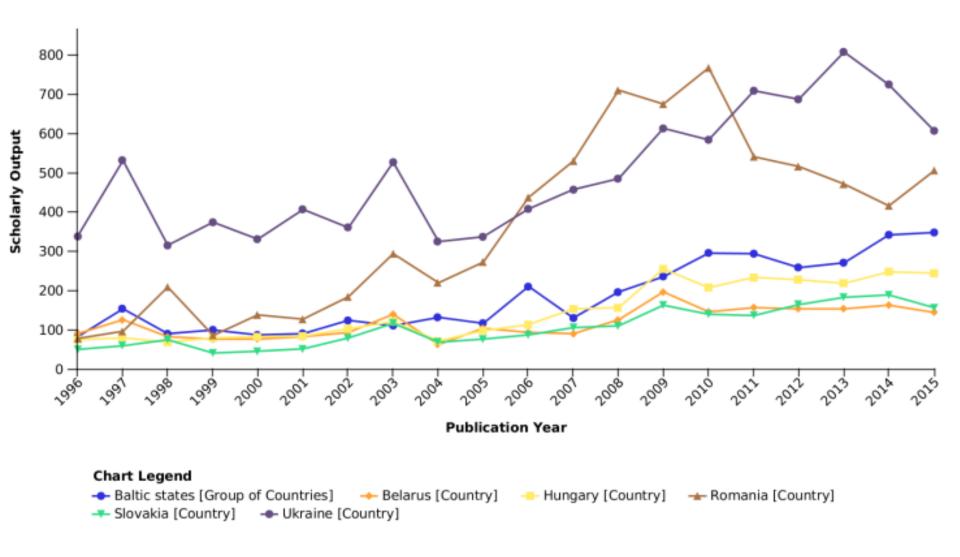


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Ukraine in comparison with neighbouring countries ...and Quality

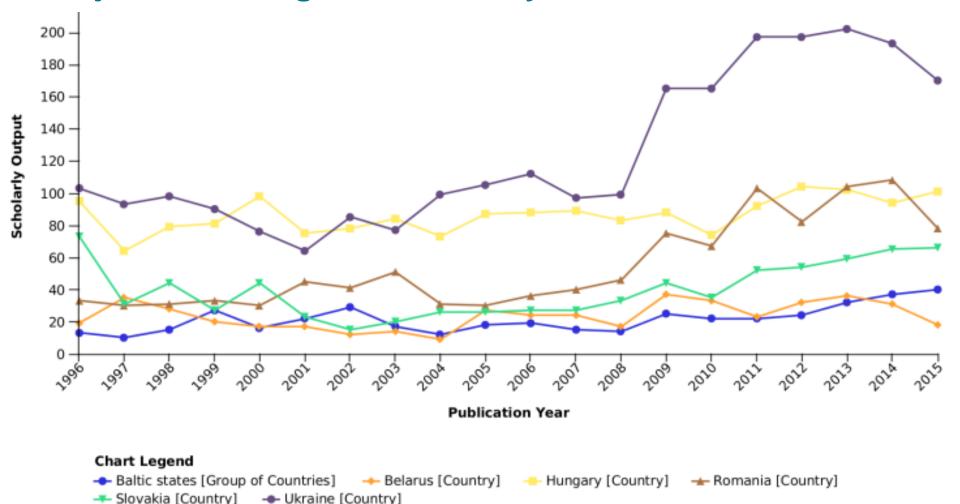


Ukraine in comparison with neighbouring countries by subject area Electronic, Optical and Magnetic Materials

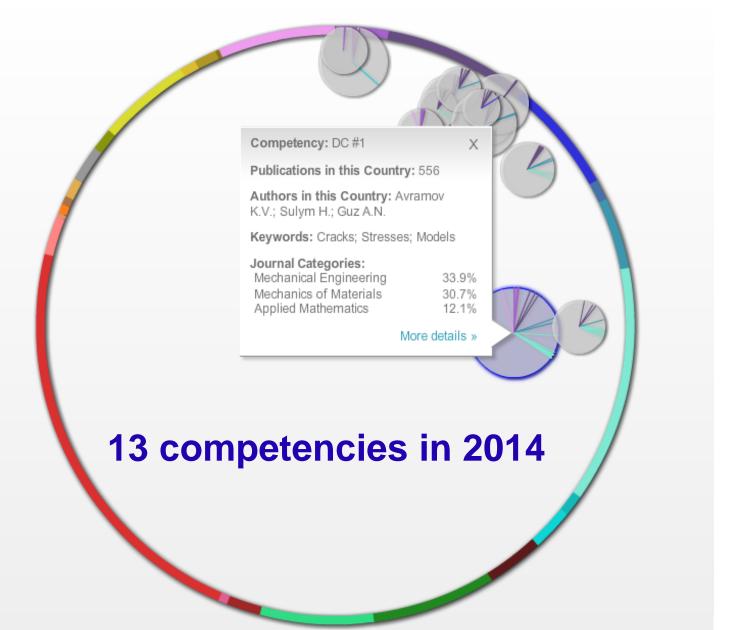


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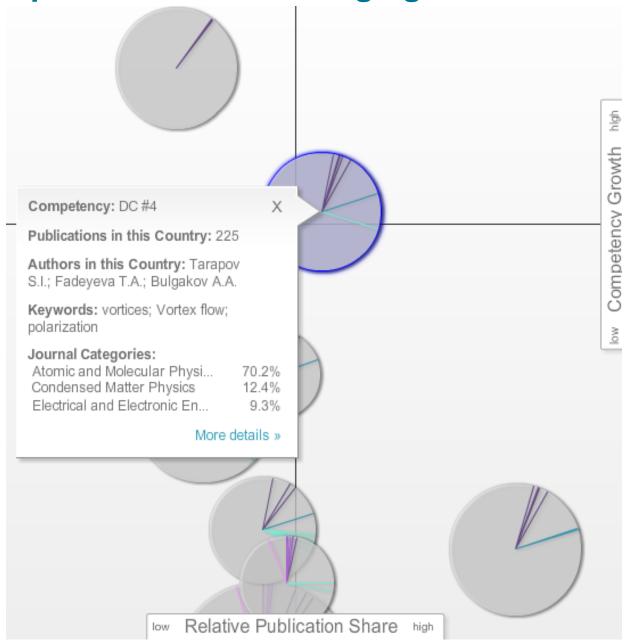
Ukraine in comparison with neighbouring countries by subject area Inorganic Chemistry



Unique competencies of Ukrainian science



Which competencies are challenging?



Distinct competency for Ukraine

Competency DC #11

Polarization; coherence; Birefringence

Publications in this field (2010-2014)

	Publications	Annual growth	Citations
Publications worldwide	1,169	-3.5% ▼	5,279
Publications in Ukraine	223	+ 4.4% 🔺	828

Instit	tution		in this field
1.	Chernovtsy National University	Ukraine	170
2.	Australian National University	Australia	35
3.	Harvard University	United States	39
4.	University of Eastern Finland	Finland	20
5.	University of Duisburg-Essen	Germany	21
6.	Medical University of Vienna	Austria	33

Correlation with world trends (Electronic, Optical and Magnetic Materials)

Top 50 keyphrases by relevance, based on 499,351 publications | Learn about keyphrase calculations >

AAA relevance | declining growing (2010-2014)



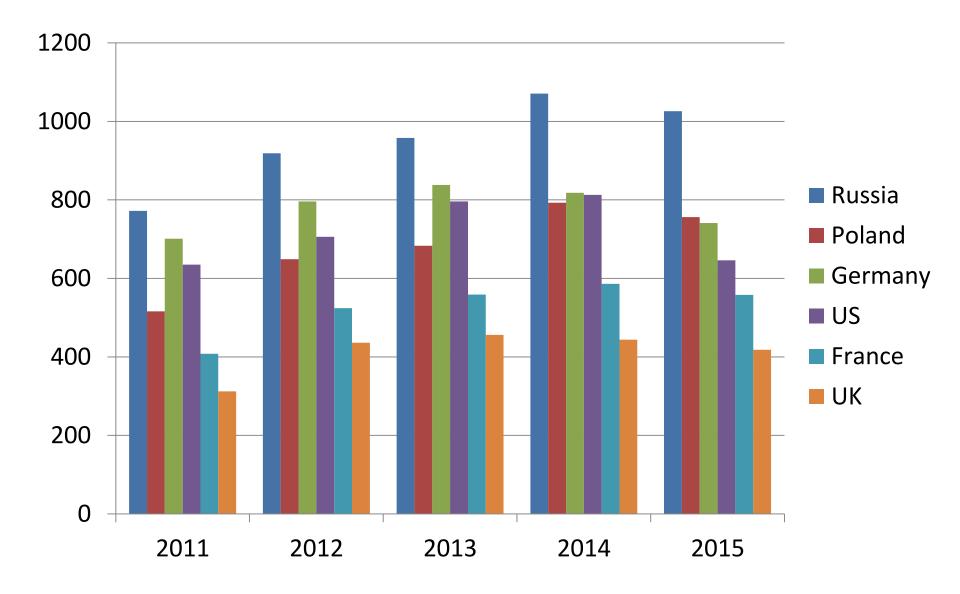
- Lasers
- Polarization

Photonics

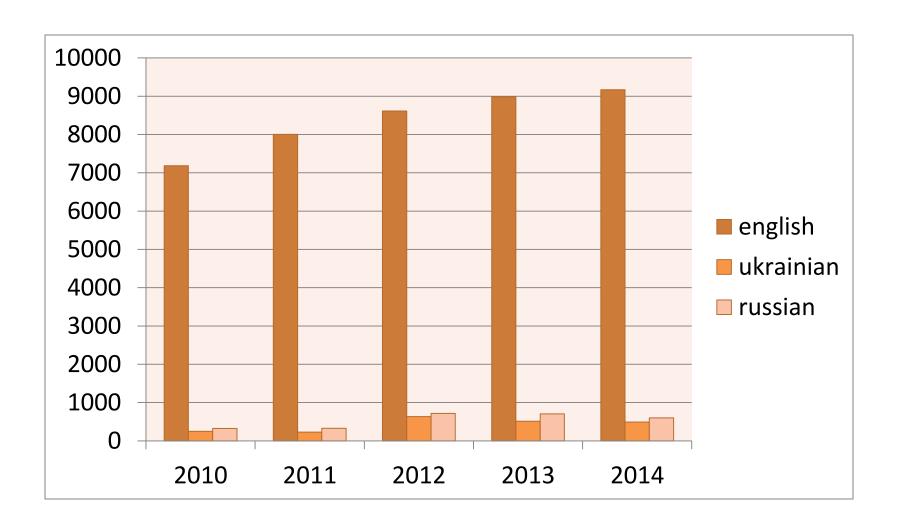
- Temperature
- Structure (composition)
- Optical fibers
- Models
- Optics
- Solar cells
- Electrons
- Nanoparticles
- Nanowires
- Silicon
- Semiconductor quantum dots
- Imaging techniques



Collaboration pattern of Ukrainian research



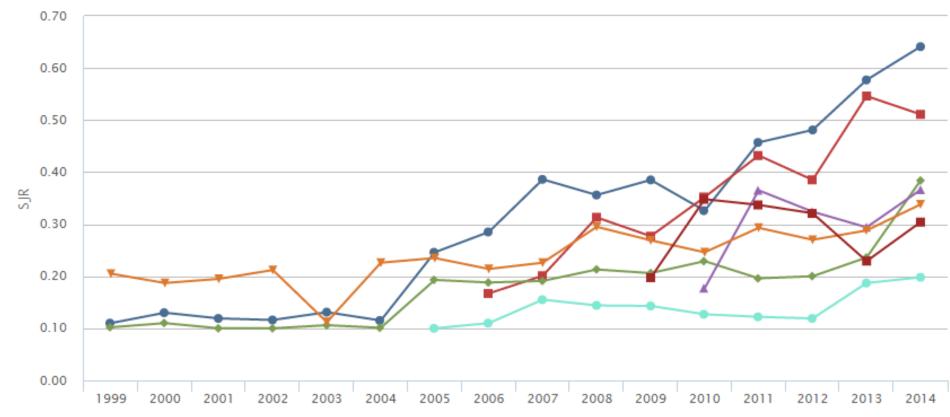
Language of Ukrainian publications in Scopus



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Progress of Ukrainian journals in Scopus

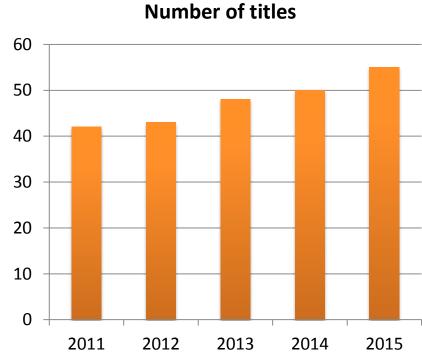
SCImago journal rank by year o



 \bigcirc - Eksperimentalnaya Onkologiya \bigcirc - Symmetry, Integrability and Geometry: Methods and Applications (SIGMA) \bigcirc - Cybernetics and Systems Analysis \bigcirc - Journal of Superhard Materials \bigcirc - Ukrainian Mathematical Journal \bigcirc - Investment Management and Financial Innovations \bigcirc - Ukrainian Journal of Physical Optics

New Journals in Scopus 2015-2016

- Journal of International Studies
- Nanosistemi, Nanomateriali, Nanotehnologii
- Eastern-European Journal of Enterprise Technologies
- Problemy Radiatsiinoi Medytsyny ta Radiobiolohii
- Banks and Bank Systems
- Sententiae



Strategic partnership with Elsevier

We recognize the commitment of the Ukrainian government to further enhance Ukraine competitiveness by supporting the development of the ecosystem of research, technology, and innovation among academics, government, and industry.

Joint initiatives include:

- Publishing in Elsevier Journals
- Advisory service for journals on Scopus title evaluation process
- Providing free reference manager and academic social network
- Trainings and author workshops
- Scopus Award Ukraine

Elsevier has a long history in scientific publishing



The Publishing House of Elzevir was first established in 1580 by Lowys (Louis) Elzevir at the University of Leiden, Holland



Keeping to the tradition of publishing established by Lowys Elzevir, Jacobus George Robbers established the modern Elsevier Company in 1880



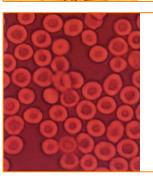
Among those authors who published with Elsevier are, Galileo, Erasmus, Descartes, Alexander Fleming, Julius Verne



Galileo published his "Discorsi e dimostrazioni matematiche, intoro a due nuoue scienze" - his last work – with Elzevir despite being banned by the Inquisition and is recognized as the first important work of modern physics



The publication of "*Gray's* Anatomy" in 1858 was a landmark for the study of the human anatomy and in many ways for the whole of medicine



The publication of the book, edited by Sir Alexander Fleming, about a revolutionary new antibiotic, "Penicillin: Its Practical Application" in 1946

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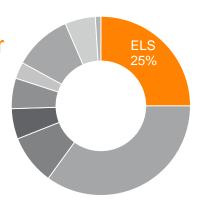
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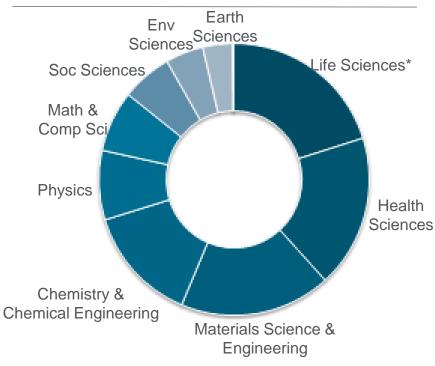


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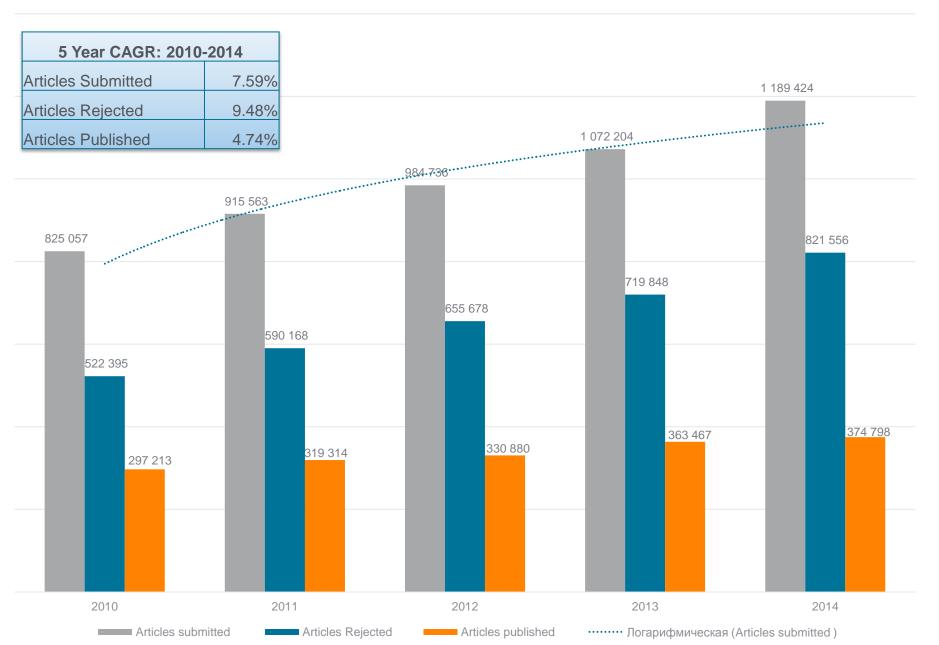
^{*} Includes biological and biotechnology-related fields, neuroscience, pharmacology, toxicology



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The work of a publisher: Submissions, Rejections and Publications





Elsevier journals that rank No.1 in subject categories (2014)











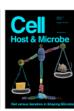
















































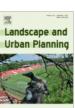


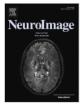






















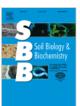














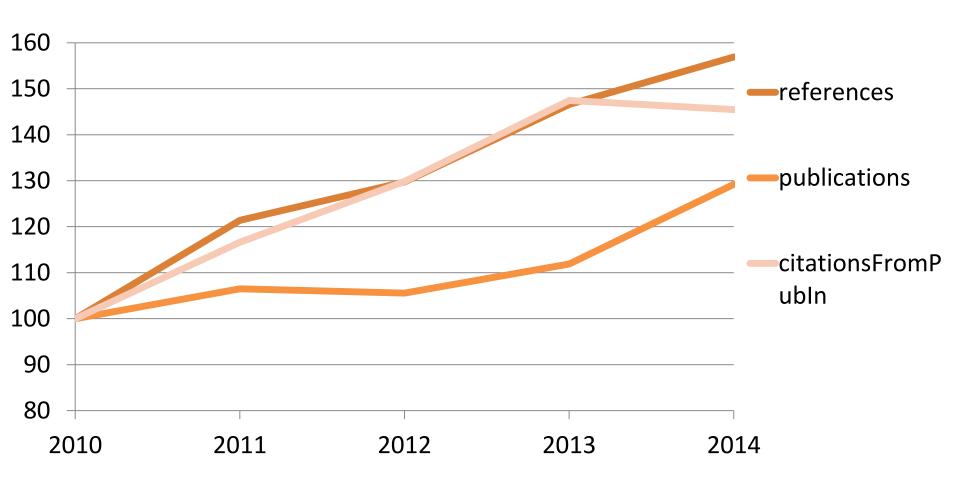




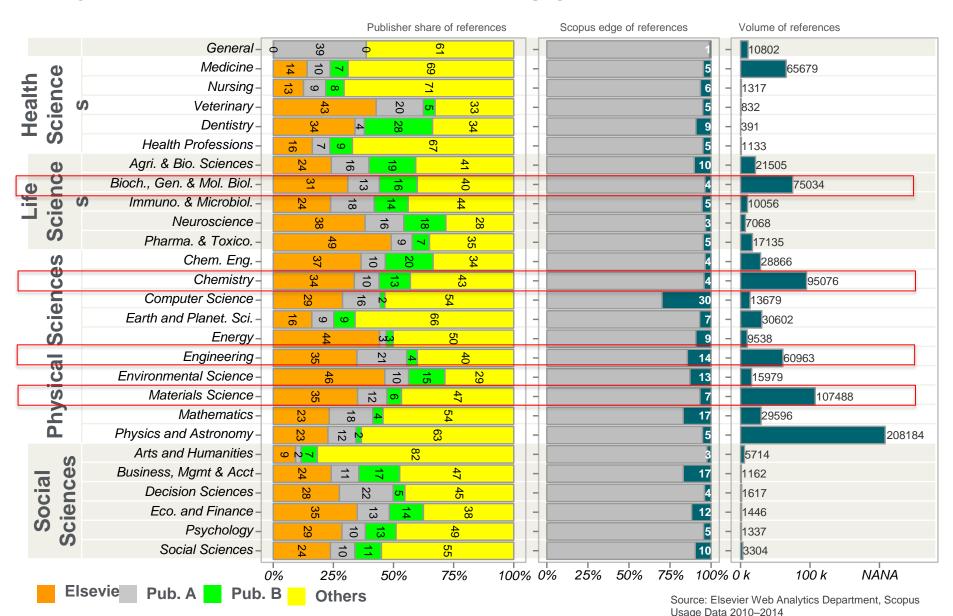


No.1 in 62 categories (out of 232 categories)

ScienceDirect contributes to Ukrainian research process



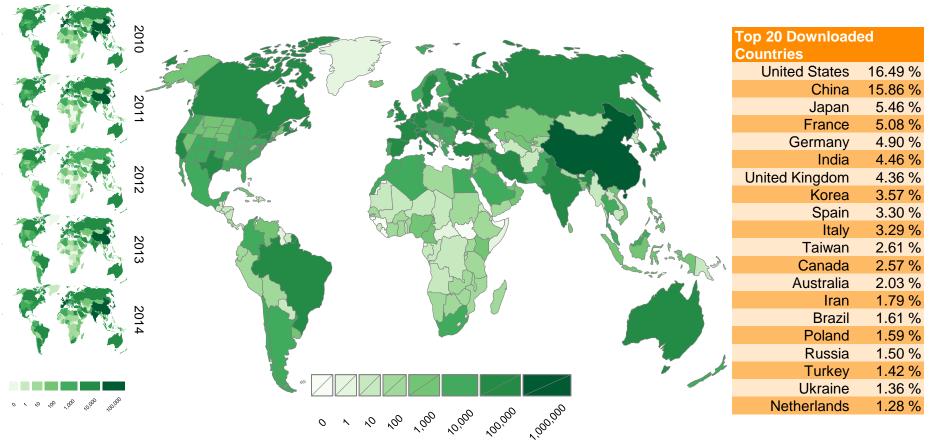
Subjects of documents referenced by your researchers: Ukraine



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ScienceDirect brings research from all over the world to Ukraine

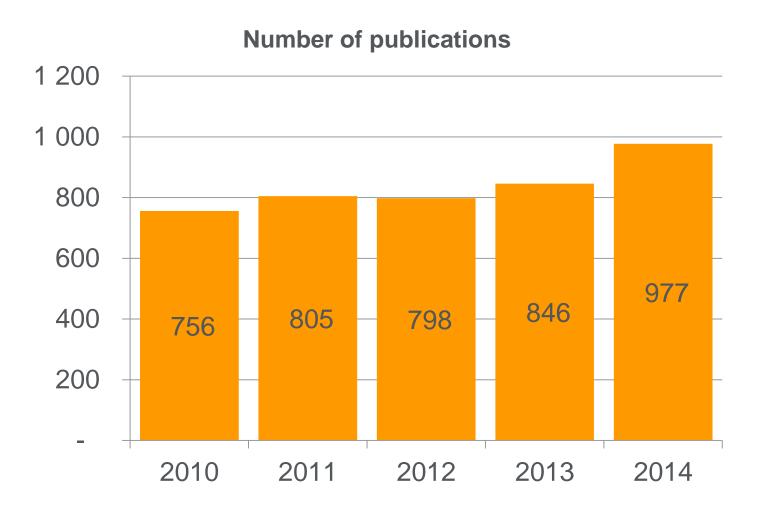
Where in the world do the articles downloaded by Ukrainian researchers via ScienceDirect come from?



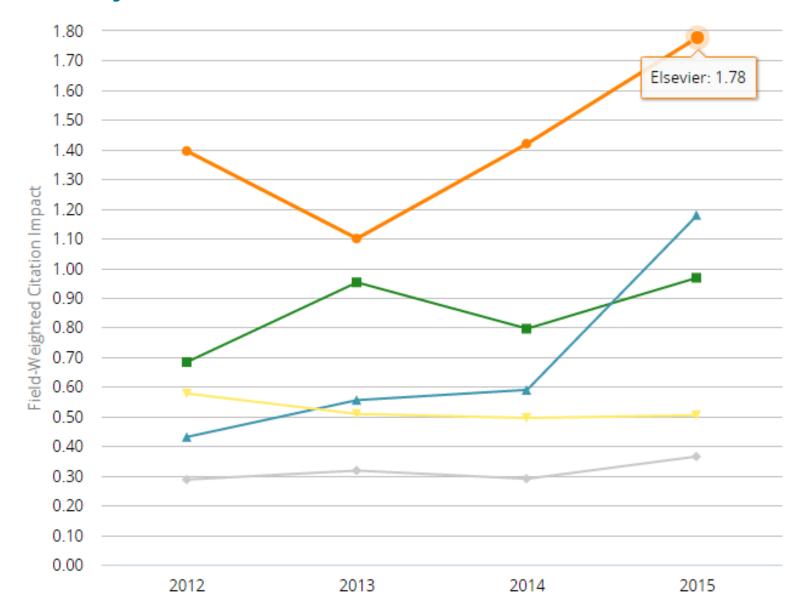
In the last 5 years, researchers from Ukraine have downloaded on ScienceDirect 1,071,431 documents written in 211 countries.

Source: Elsevier Web Analytics Department, ScienceDirect Usage Data 2010–2014

Ukrainian Publications in Elsevier Journals



Most cited articles of Ukrainian researchers are published in Elsevier journals

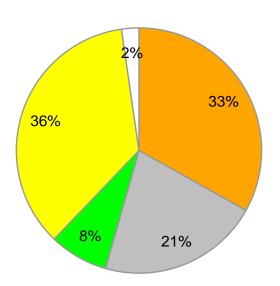


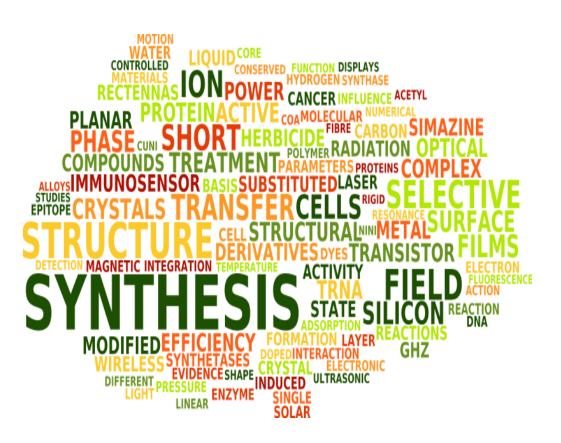
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Aquatic Toxicology

Volume 101, Issue 1, 17 January 2011, Pages 13-30



Review

Environmentally induced oxidative stress in aquatic animals

Volodymyr I. Lushchak 🏝 · 🌌

Department of Biochemistry and Biotechnology, Precarpathian National University named after Vassyl Stefanyk, Ivano-Frankivsk 76025, Ukraine

Received 13 May 2010, Revised 4 October 2010, Accepted 11 October 2010, Available online 23 October 2010

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Abstract

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Biosensors and Bioelectronics

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Current trends in the development of the electrochemiluminescent immunosensors

Kateryna Muzyka 🔓 · 💌 · 💌

Kharkiv National University of RadioElectronics, Lenin Avenue 14, Kharkiv 61166, Ukraine

Received 27 September 2013, Revised 5 October 2013, Accepted 1 November 2013, Available online 13 November 2013



doi:10.1016/j.bios.2013.11.011

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Highlights

· Current trends in the development of the electrochemiluminescent immunosensors



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Coordination Chemistry Reviews

Volume 268, 1 June 2014, Pages 41-58



Review

Spin crossover in soft matter

Dedicated to Prof. Philipp Gütlich on the occasion of his 80th birthday.

Ana B. Gaspara, A. Maksym Seredyuka, b. A. M. Maksym Seredyuka, b.

- a Institut de Ciència Molecular (ICMOL), Departament de Química Inorgànica, Universitat de València, Edifici de Instituts de Paterna, Apartat de Correus 22085, 46071 València, Spain
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Communist and Post-Communist Studies

Volume 46, Issue 4, December 2013, Pages 419-431



Informal payments for health care services – Corruption or gratitude? A study on public attitudes, perceptions and opinions in six Central and Eastern European countries

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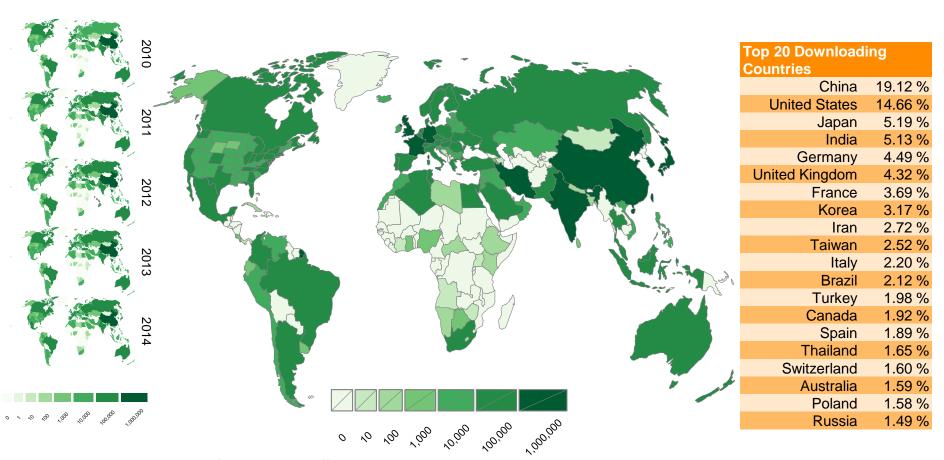
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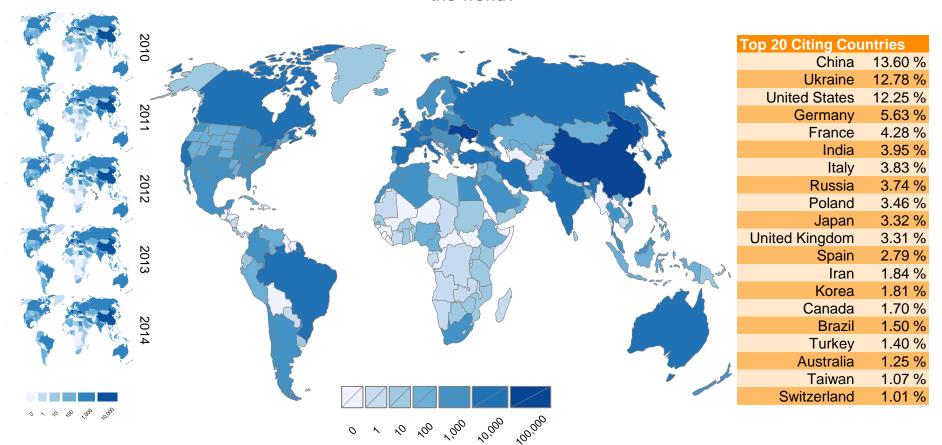


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Source: Elsevier Web Analytics Department, ScienceDirect Usage Data 2010–2014 ELSEVIER 1 4

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- Besides subscription, Elsevier supports wide range of scientific initiatives in Ukraine, including trainings and author workshops, providing analytical data for science evaluation.





Thank you



