



# Elsevier - Value in Content

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# Agenda



- Quick historic introduction of Elsevier
- STM publishing – an overview
- Publishing cycle and key Investments
- How Investments & Innovations result in meeting the key Needs of our Customers:
  1. Quality
  2. Preservation
  3. Efficiency
  4. Value & Costs
  5. Access
- Developing Content - Role of a Publisher

# Elsevier has a long history of 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



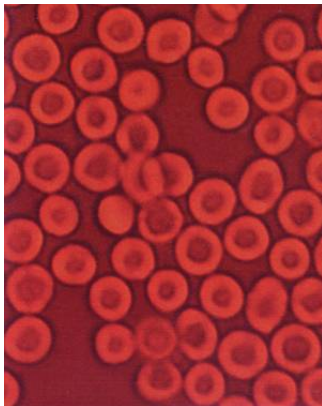
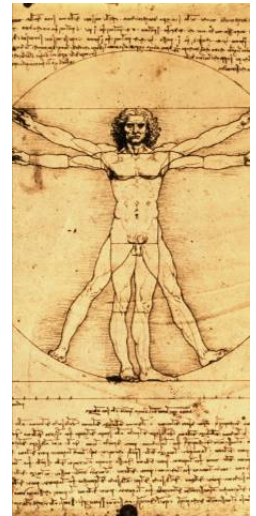


# In 1638 Elzevir published Galileo Galilei's greatest work



- Galileo published his "*Discorsi e dimostrazioni matematiche, intorno a due nuove 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



# About Elsevier

- Elsevier publishes over 2500 journals covering 25% of the STM authors market.
- Through **ScienceDirect** 10 million scientists and researchers have desktop access to a service offering over 11 million journal articles.
- In 2004, Elsevier launched its new abstract & indexing database, **Scopus**, which covers 17,000 journals from all key STM publishers.

## To do this we:

- Maintain sales in 180+ countries.
- Employ over **7,000** people in 62 offices in 26 countries of whom 1000 are based in The Netherlands.



## Elsevier Mission Statement

Elsevier is committed to making genuine contributions to the science and health communities by providing:

### World-Class Information

Elsevier publishes trusted, leading-edge Scientific, Technical and Medical (STM) information – pushing the frontiers and fuelling a continuous cycle of exploration, discovery and application.

### Global Dissemination

Elsevier disseminates and preserves STM literature to meet the information needs of the world's present and future scientists and clinicians – linking thinkers with ideas.

### Innovative Tools

Elsevier develops electronic tools that demonstrably improve the productivity and outcomes of those we serve – we are dedicated to helping them make a difference.

### Working Together

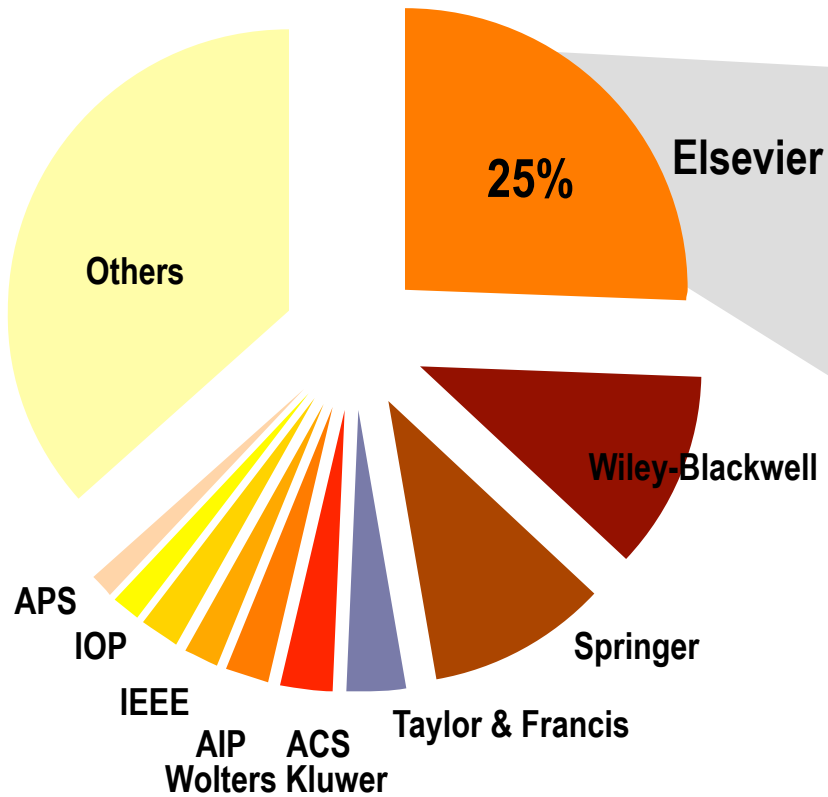
Elsevier works in partnership with the communities we serve to advance scholarship and improve lives. This interrelationship is expressed in our company's Latin motto, Non Solus, "not alone".

# STM publishing – a highly efficient and innovative sector



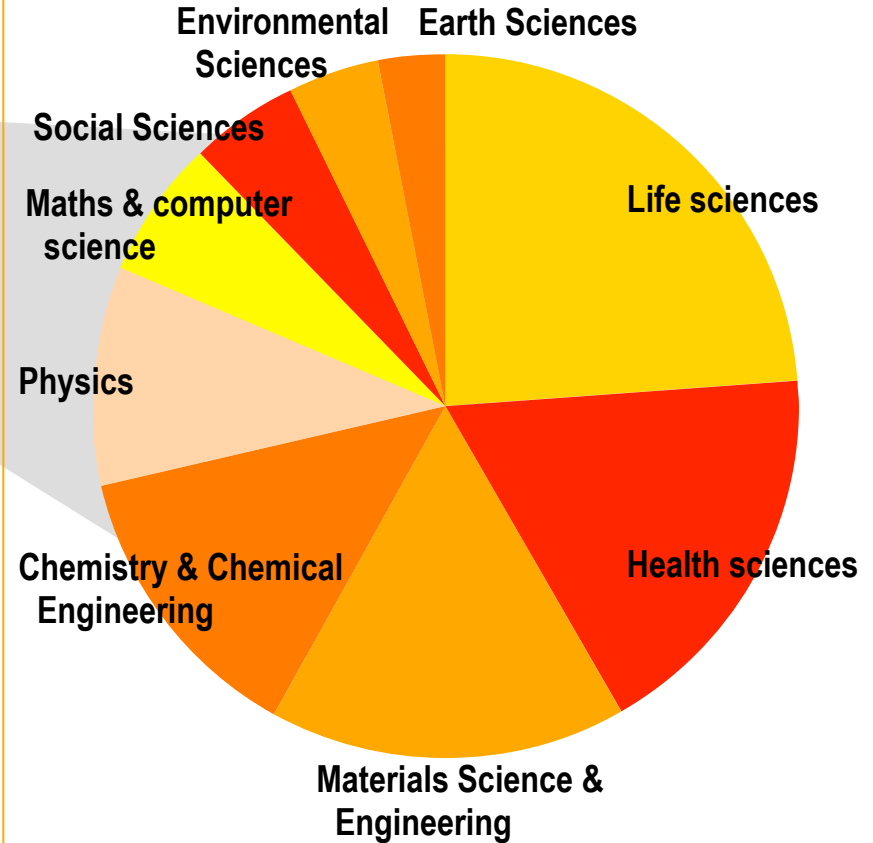
- Global STM market is worth more than \$ 20 billion (Outsell)
- STM industry employs (directly) 100,000 globally; 1/3 in the EU
- Over 2,000 publishers publish 1.4 m articles p.a. in 23,000 journals
- Researcher numbers, and articles, increase 3-4% p.a. globally
- Major investment in digitalization: >95% of articles now online
- Average cost of publishing about \$ 3,500 per article
- Cost of access per article falling to less than 1-2 Euro

## Share of Journal Articles Published



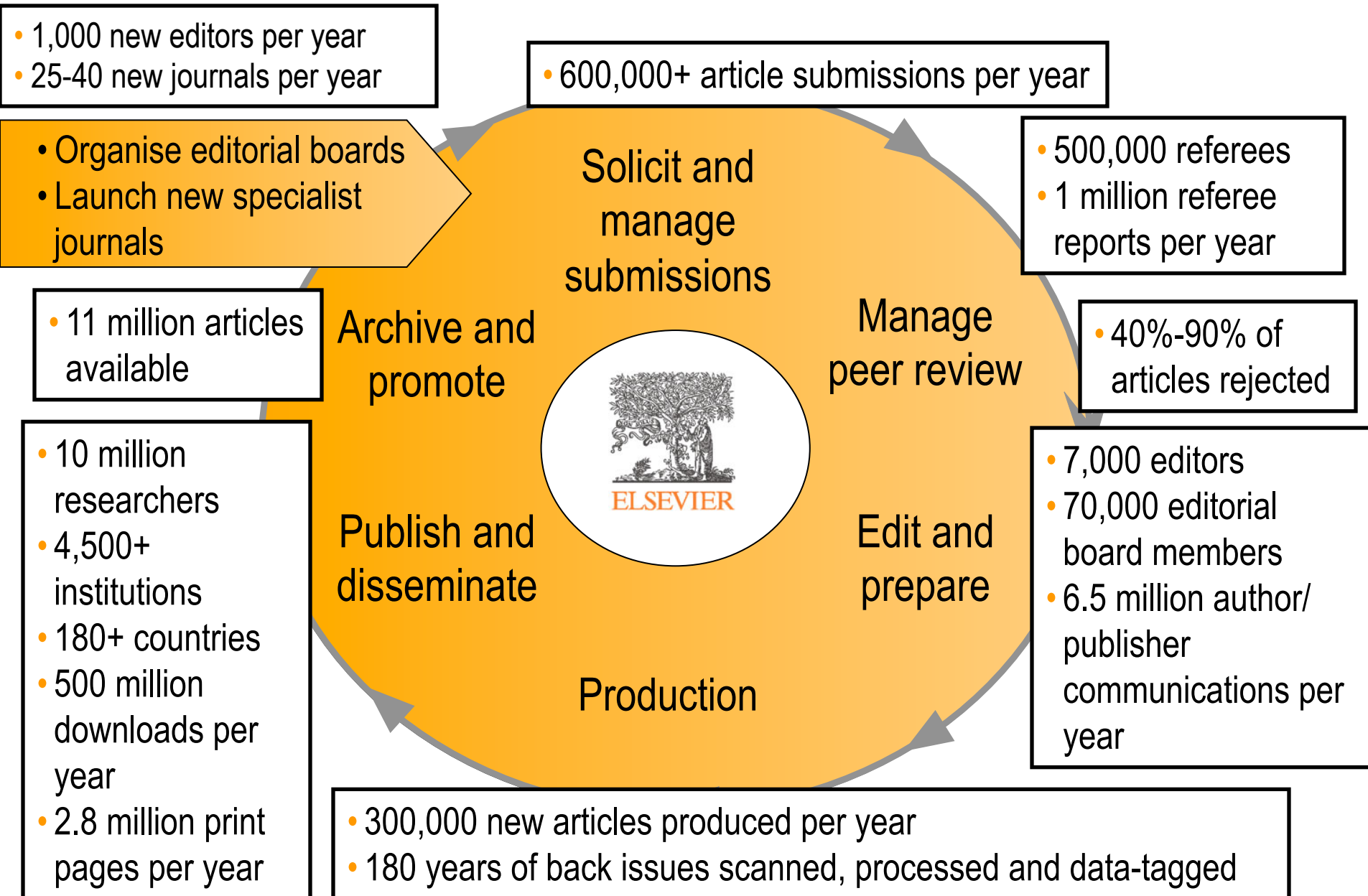
Over one million English language research articles published globally each year

## Our Scientific Disciplines



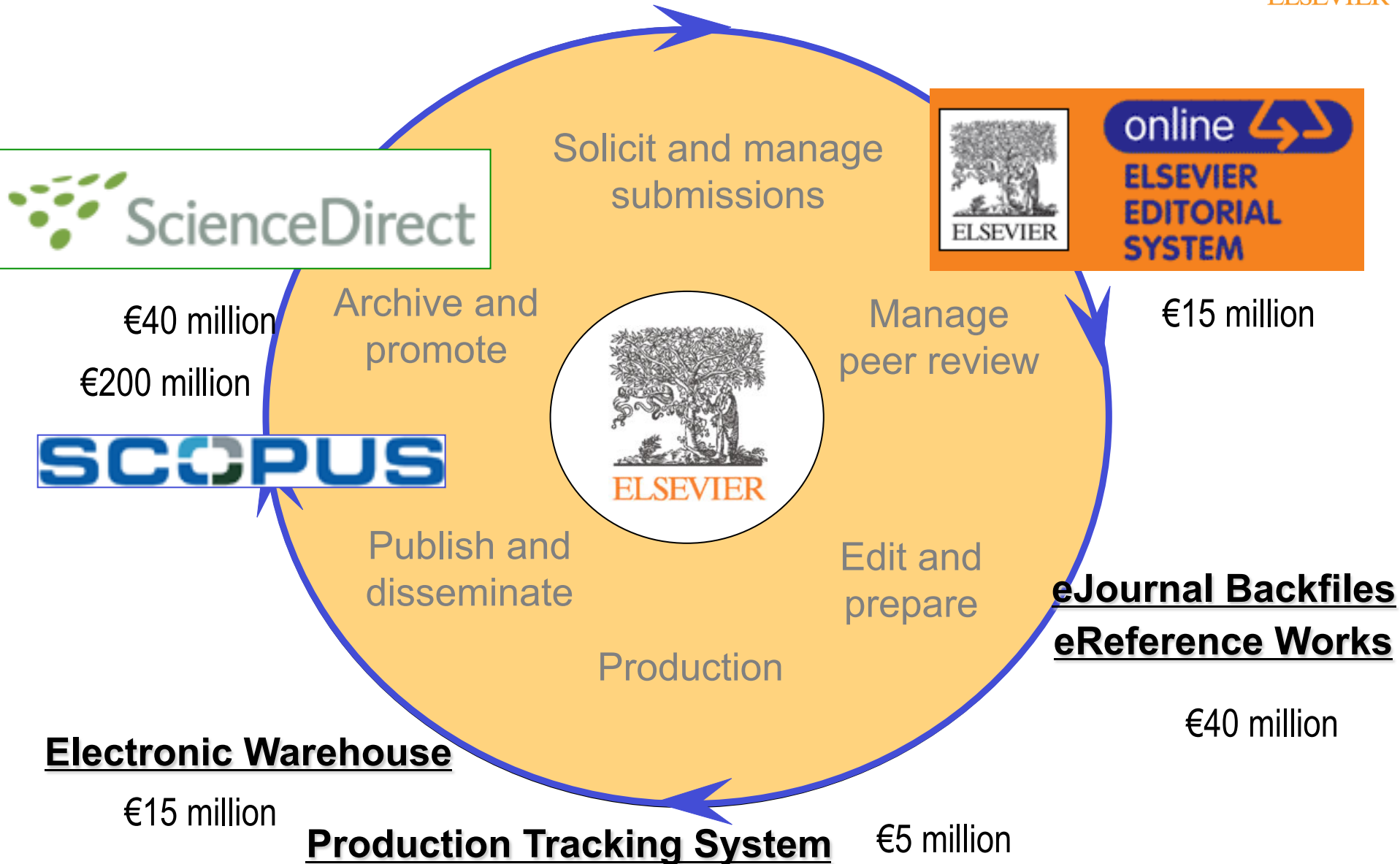
300,000 English language research articles published with Elsevier today

# Journal publishing volume



# Journal publishing investments – innovative tools

In total, we have invested over €300 million in E-publishing technology & distribution since 2000





online  
ELSEVIER  
EDITORIAL  
SYSTEM

Peer review process twice as fast as before



15 m invested  
4 m/yr to  
maintain

Self help  
Tutorials  
Live chat  
Phone  
Call back  
Pro-active chat

Customer support

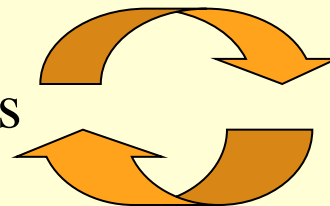
Elsevier supports Editors



Ethics Tools  
Artwork Check  
Reference Linking

Additional Tools  
(free for Editors,  
Reviewers!)

600,000 submissions



Accepted  
articles

500,000 reviewers

40%-90%  
rejections

Core EES

Infrastructure and operations

**As a result of the investments and innovation:  
We are geared towards meeting the key needs of our  
customers**

## What matters to our customers?

### 1. Quality

### 2. Preservation

### 3. Efficiency

### 4. Value and costs

### 5. Access

## Where are we now?

- Extremely high standards of quality control and integrity
  - 96% of researchers regard Peer Review as important
  - CrossCheck: cross publishers effort to fight plagiarism
- Definitively published research is preserved in perpetuity
  - 11 million articles on SD, *The Lancet* to 1826
  - Koninklijke Bibliotheek (KB), Portico, CLOCKSS
- Significant increases in researcher productivity since 1999
  - Researchers read 25%+ articles from 2x more journals than in print era
- Continuing improvements in value for money
  - Moderating price increases: Elsevier 5.5% for last 5 years (lowest quartile) absorbing inflation (3%), growth in articles published (3-4%), usage (20%/yr)
  - E-licensing terms: many journals at substantially less than print list price
  - Effective price per article (or title) dramatically reduced
- Dramatic increases in access levels since 1999
  - EU libraries: 3x-10x more journals via ScienceDirect
  - 90+% of researchers have access to about 90+% of STM journal content in almost all EU member states
  - Our customers list access to journals as 1 their top priority
  - Excellent free access to biomedical, agricultural and environmental literature (7000 journals) for 114 lower GDP nations: Research4Life programme

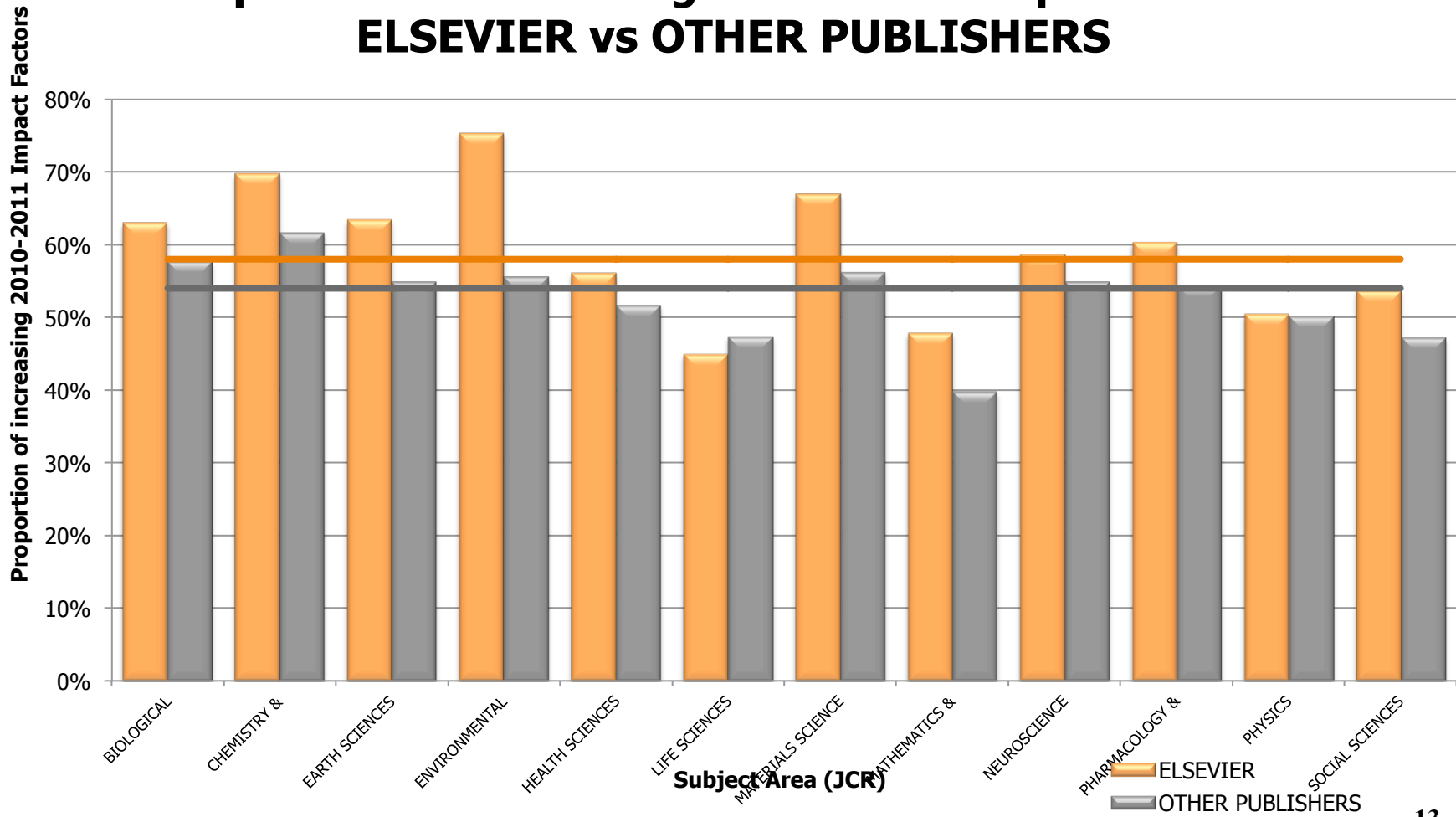
- STM on a very positive trajectory since E-(r)evolution began in 1999
- Question: how to progress even further without undermining current high standards for researchers



# Quality – as measured by the Impact Factor

The Impact Factor is the oldest and most familiar citation indicator, which approximates the average number of citations per recent paper for a journal.

## Proportion of increasing 2010-2011 Impact Factors ELSEVIER vs OTHER PUBLISHERS



# Quality – as measured by the Impact Factor

The Lancet and Cell – two top Elsevier journals ranked in the top 20 2011 JCR list, out of 8288 titles in total

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	JCR Data <sup>i</sup>						Eigenfactor <sup>®</sup> Metrics <sup>i</sup>	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor <sup>®</sup> Score	Article Influence <sup>®</sup> Score
<input type="checkbox"/>	1	<a href="#">CA-CANCER J CLIN</a>	0007-9235	10976	101.780	67.410	21.263	19	3.8	0.04502	24.502
<input type="checkbox"/>	2	<a href="#">NEW ENGL J MED</a>	0028-4793	232068	53.298	50.075	11.484	349	7.8	0.66466	21.293
<input type="checkbox"/>	3	<a href="#">ANNU REV IMMUNOL</a>	0732-0582	15990	52.761	42.901	9.174	23	8.2	0.05204	23.410
<input type="checkbox"/>	4	<a href="#">REV MOD PHYS</a>	0034-6861	31368	43.933	44.436	10.026	38	9.8	0.11667	28.864
<input type="checkbox"/>	5	<a href="#">CHEM REV</a>	0009-2665	103702	40.197	42.054	7.158	196	7.9	0.21464	13.305
<input type="checkbox"/>	6	<a href="#">NAT REV MOL CELL BIO</a>	1471-0072	29222	39.123	42.508	6.500	66	5.1	0.17432	23.838
<input type="checkbox"/>	7	<a href="#">LANCET</a>	0140-6736	158906	38.278	33.797	10.576	276	8.9	0.36138	13.602
<input type="checkbox"/>	8	<a href="#">NAT REV GENET</a>	1471-0056	20384	38.075	31.359	7.014	71	4.7	0.12140	16.942
<input type="checkbox"/>	9	<a href="#">NAT REV CANCER</a>	1474-175X	28602	37.545	38.460	4.838	68	5.8	0.12608	17.917
<input type="checkbox"/>	10	<a href="#">ADV PHYS</a>	0001-8732	4400	37.000	25.289	3.778	9	>10.0	0.01485	17.966
<input type="checkbox"/>	11	<a href="#">NATURE</a>	0028-0836	526505	36.280	36.235	9.690	841	9.4	1.65658	20.353
<input type="checkbox"/>	12	<a href="#">NAT GENET</a>	1061-4036	76456	35.532	33.096	6.357	196	6.8	0.33022	17.569
<input type="checkbox"/>	13	<a href="#">ANNU REV BIOCHEM</a>	0066-4154	18684	34.317	35.013	2.951	41	>10.0	0.05695	19.743
<input type="checkbox"/>	14	<a href="#">NAT REV IMMUNOL</a>	1474-1733	22613	33.287	34.302	5.116	69	5.0	0.11980	16.806
<input type="checkbox"/>	15	<a href="#">NAT MATER</a>	1476-1122	39242	32.841	36.732	6.246	134	4.7	0.22089	17.891
<input type="checkbox"/>	16	<a href="#">CELL</a>	0092-8674	171297	32.403	34.774	6.382	338	8.6	0.66143	20.536
<input type="checkbox"/>	17	<a href="#">ENERGY EDUC SCI TECH</a>	1301-8361	2992	31.677		5.460	174	1.5	0.00117	
<input type="checkbox"/>	18	<a href="#">SCIENCE</a>	0036-8075	480836	31.201	32.452	6.075	871	9.4	1.41282	17.508

## Elsevier's Digitized Backfiles / E-journals e.g. Lancet – volume 1, number 1, from 1823

Elsevier led the establishment  
of an online, official, trusted  
third party archive at the  
Royal Library of the  
Netherlands.

KONINKLIJKE BIBLIOTHEEK

1<sup>st</sup> official archive

Developed similar  
arrangements with other  
organizations



PORTICO

2<sup>nd</sup> official archive



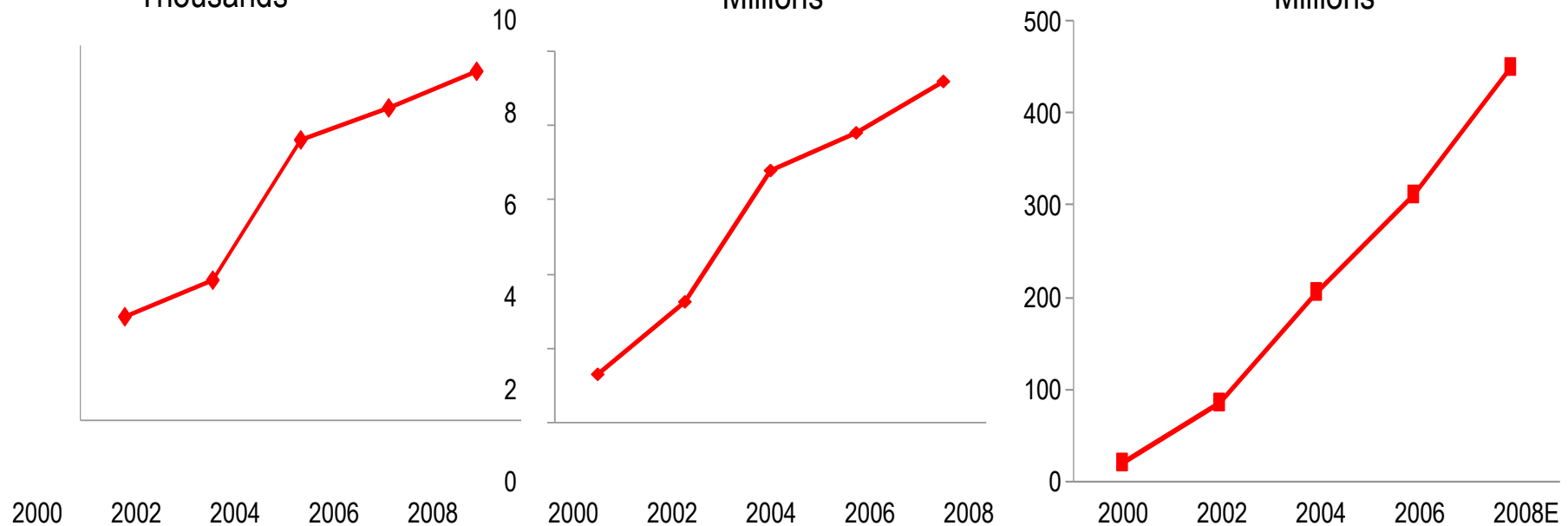
3<sup>rd</sup> official archive

# Value to the customers: expanded content & usage

Elsevier articles published  
Thousands

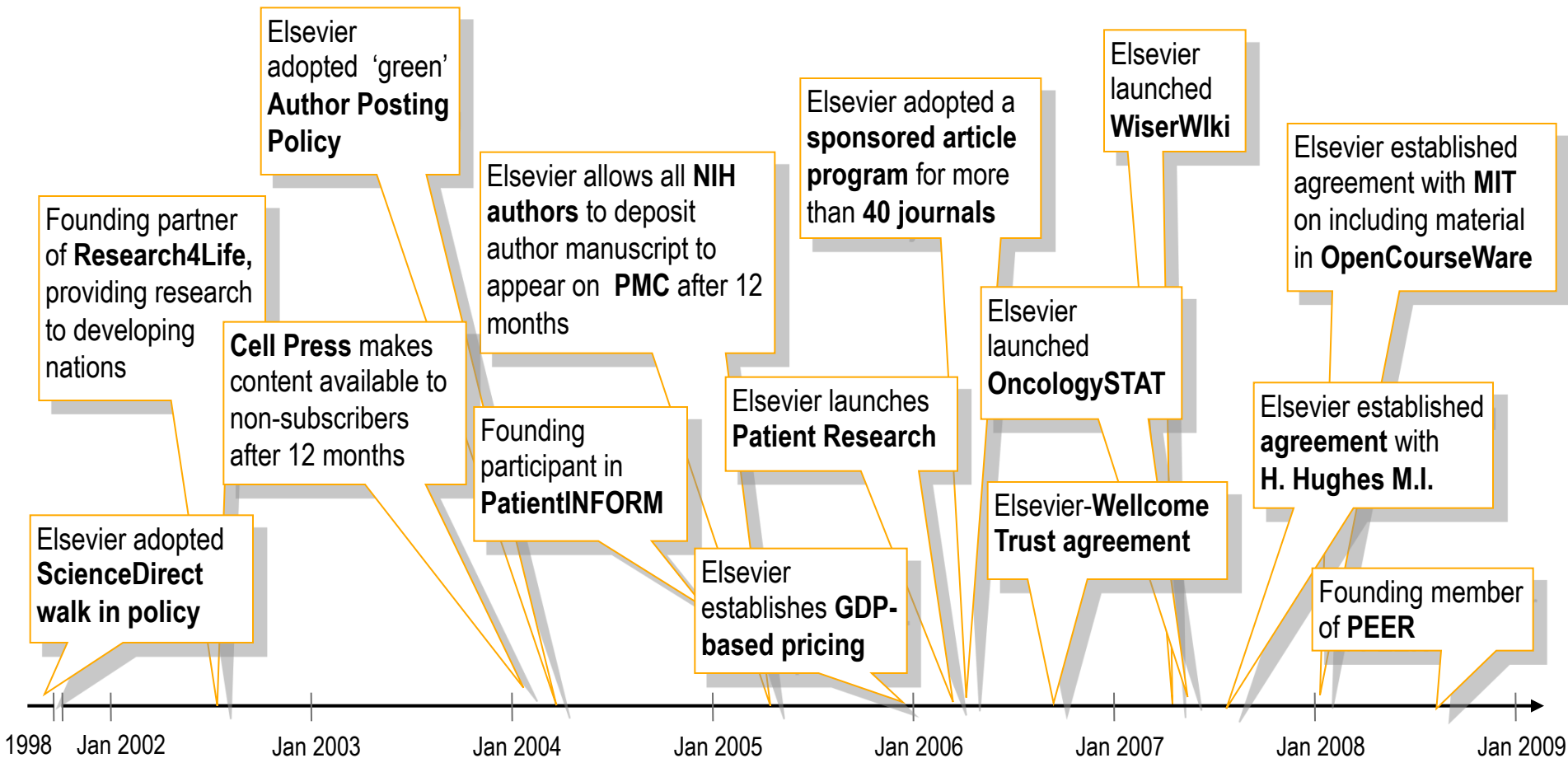
Articles on ScienceDirect  
Millions

ScienceDirect article downloads  
Millions



- Add remaining backfiles, books, major reference works and primary research data
  - eBooks, lab data and visuals on ScienceDirect
- Launch new journals, expanded newsletters
  - 25-40 new journals per year (depending on the field),
- Increase volume with research and development growth
  - 3-4% article growth per year

# Elsevier's record of access initiatives



# Research4Life: Access for developing countries



WHO initiative provides access to the major journals in biomedical and related social sciences.



FAO initiative provides access to journals in the agriculture, biological, and social sciences.



UNEP initiative provides access to major journals in the environmental sciences.

Elsevier provides free/very low cost access to more than 1,000 of its journals to public institutions in over 100 developing countries.



# Developing Content – Role of a Publisher

# Origins of Scholarly Publishing

**1439**

**Gutenberg and Moveable Type**

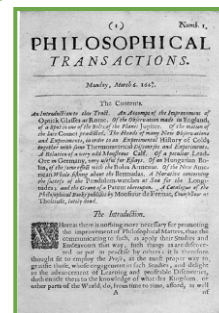


**Henry Oldenburg  
(1618- 1677)**

**Founding editor  
and commercial  
publisher of the  
first scientific  
journal**

**1580**

**Founding of the House  
of Elzevir**



**6th March 1665**

**“Philosophical Transactions  
of the Royal Society”**

- **First true scholarly journal**



# Establishment of Scientific Publishing Fundamentals

Registration

The timestamp to officially note who submitted scientific results first



Perform peer-review to ensure the validity

These 4 roles of the publisher were established by the Royal Society then, but are still fundamental today. The methods used to carry out these tasks are evolving, but the roles remain unchanged.

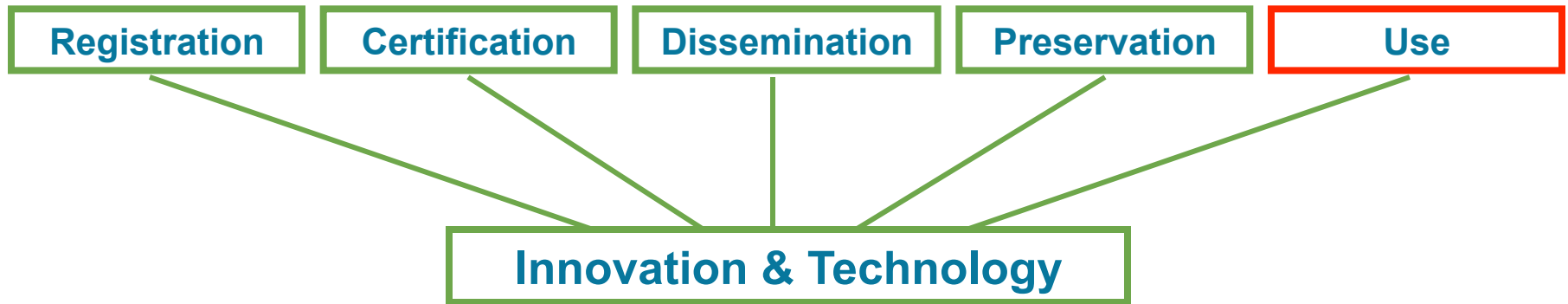
and



Preservation

Preserving the minutes and record of science for posterity

# The Publisher's Role



Publishers coordinate the exchange of ideas between authors, editors, reviewers, and the wider STM audience of researchers, scientists, health professionals, students, and patients.

# Who We Serve

Publishers support the greater scientific and health communities



Researchers

Health Practitioners

Faculty & Students

Pharma Companies

Librarians

Societies

Engineers

Professionals

## Elsevier's Global Publishing Network

7,000 editors

70,000 editorial board members

300,000+ referees

600,000+ authors



**How do we do what we do?**

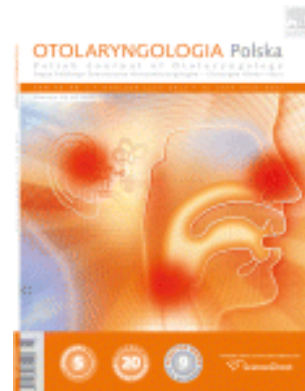
# What is a Journal?

Not just a “magazine”

Peer-review process

Production process

Physical/Online Publication



# The Journal Publishing Cycle



# Peer Review

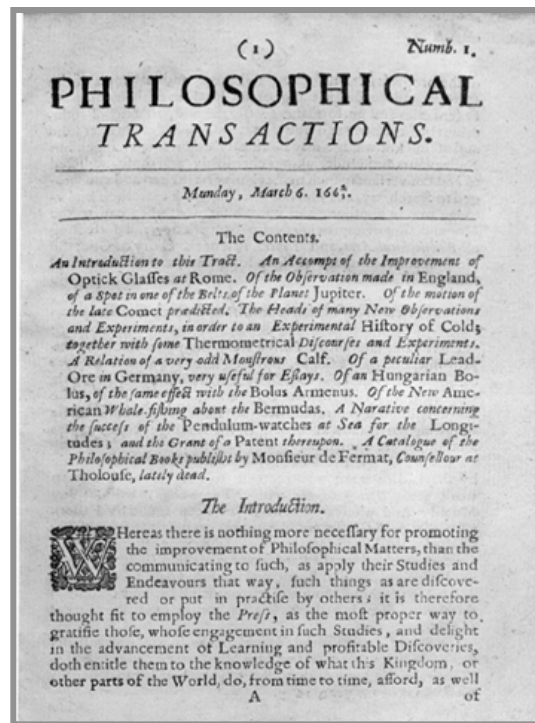
**The essential filter used to separate science from speculation and to determine scientific quality**

- Peer review helps to determine the validity, significance and originality of research
- Helps to improve the quality of papers
- Publication in peer-reviewed journals protects the author's work and claim to authorship
- Publishers have ensured the sustainability of journals and the peer-review system for over 300 years

**The costs of managing the peer-review process are borne by publishers**

**Publishers stand outside the academic process and are not prone to prejudice or favour**

- Cornerstone of the whole scholarly publication system
- Maintains integrity in the advancement of science
- Well-established process over 300 years old





# What is Peer Review?

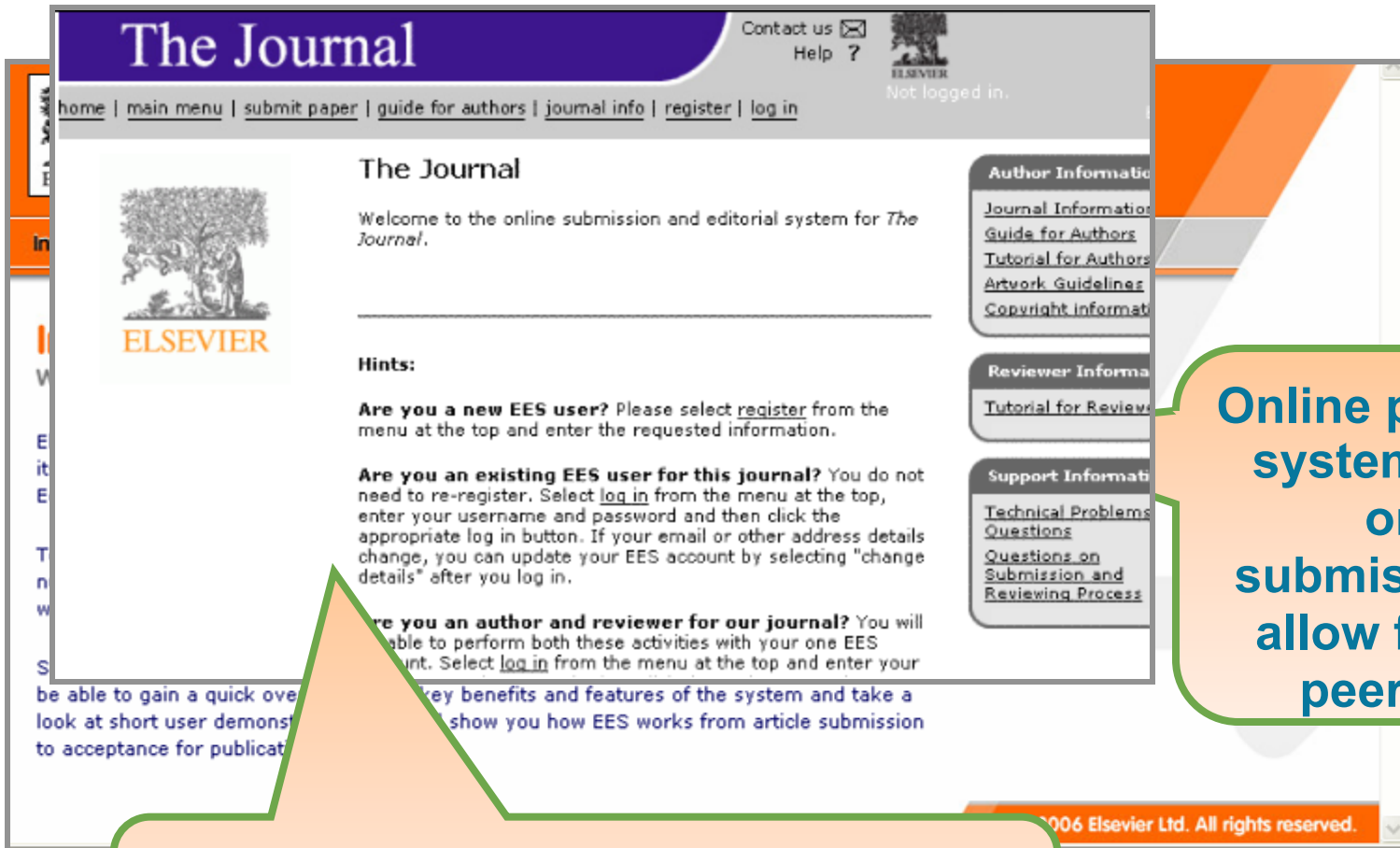
## Peer Review has two key functions:

- Acts as a filter by ensuring only good research is published. Helps to determine validity, significance and originality
- Improves the quality of the research submitted for publication by giving reviewers the opportunity to suggest improvements



# Online Peer Review Systems

 online ELSEVIER EDITORIAL SYSTEM



The screenshot displays the 'The Journal' online submission and editorial system. The header includes a navigation menu with links: home, main menu, submit paper, guide for authors, journal info, register, and log in. A 'Contact us' link and a 'Help ?' link are also present. The main content area features the Elsevier logo and a welcome message: 'Welcome to the online submission and editorial system for The Journal.' Below this, there are sections for 'Hints' and 'Are you a new EES user?' and 'Are you an existing EES user for this journal?'. The right sidebar contains links for 'Author Information', 'Journal Information', 'Guide for Authors', 'Tutorial for Authors', 'Artwork Guidelines', 'Copyright information', 'Reviewer Information', 'Tutorial for Reviewers', 'Support Information', 'Technical Problems', 'Questions', 'Questions on Submission and Reviewing Process'. The footer states '© 2006 Elsevier Ltd. All rights reserved.'

Online peer review systems accept online submissions and allow for online peer-review

Online systems can handle hundreds of thousands of submissions and reviews per year

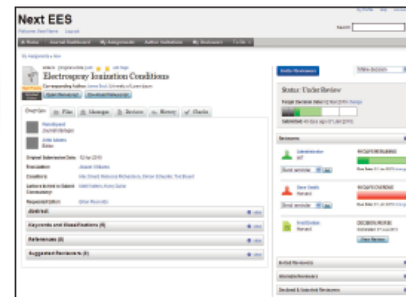
# Online Peer Review Systems



Elsevier has launched Project Next EES to build a next generation editorial platform to replace the Elsevier Editorial System by 2014.

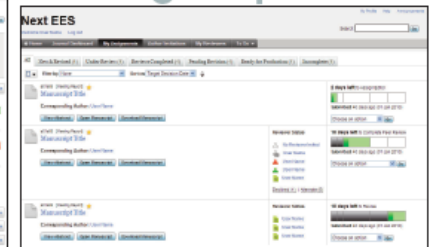
At its heart will be:

- Usability • Efficiency
- Flexibility • Scalability



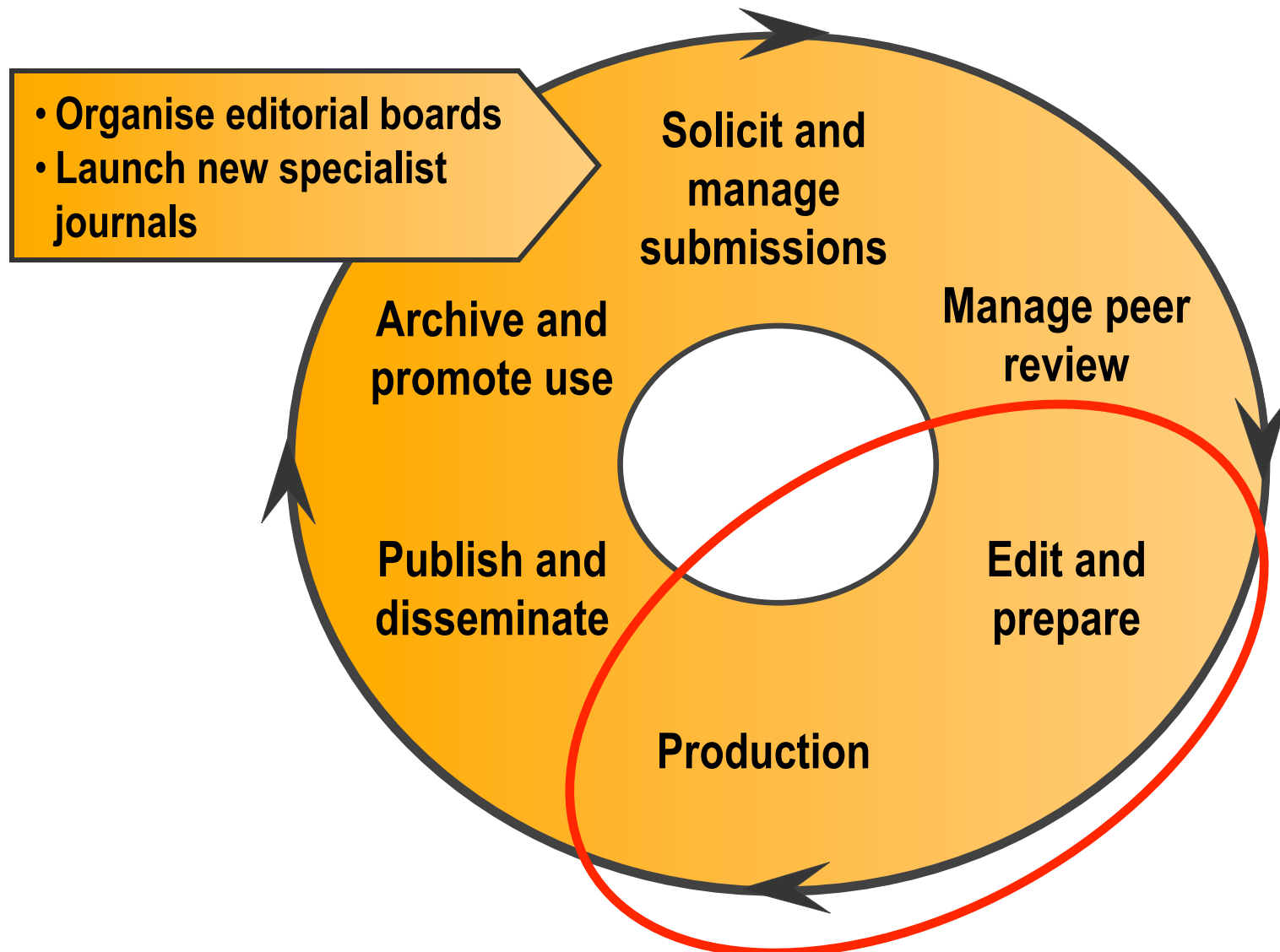
**Manuscript Page**  
Manuscript page in Next EES with all actions in one page and time indications for easy review process monitoring

Get a glimpse

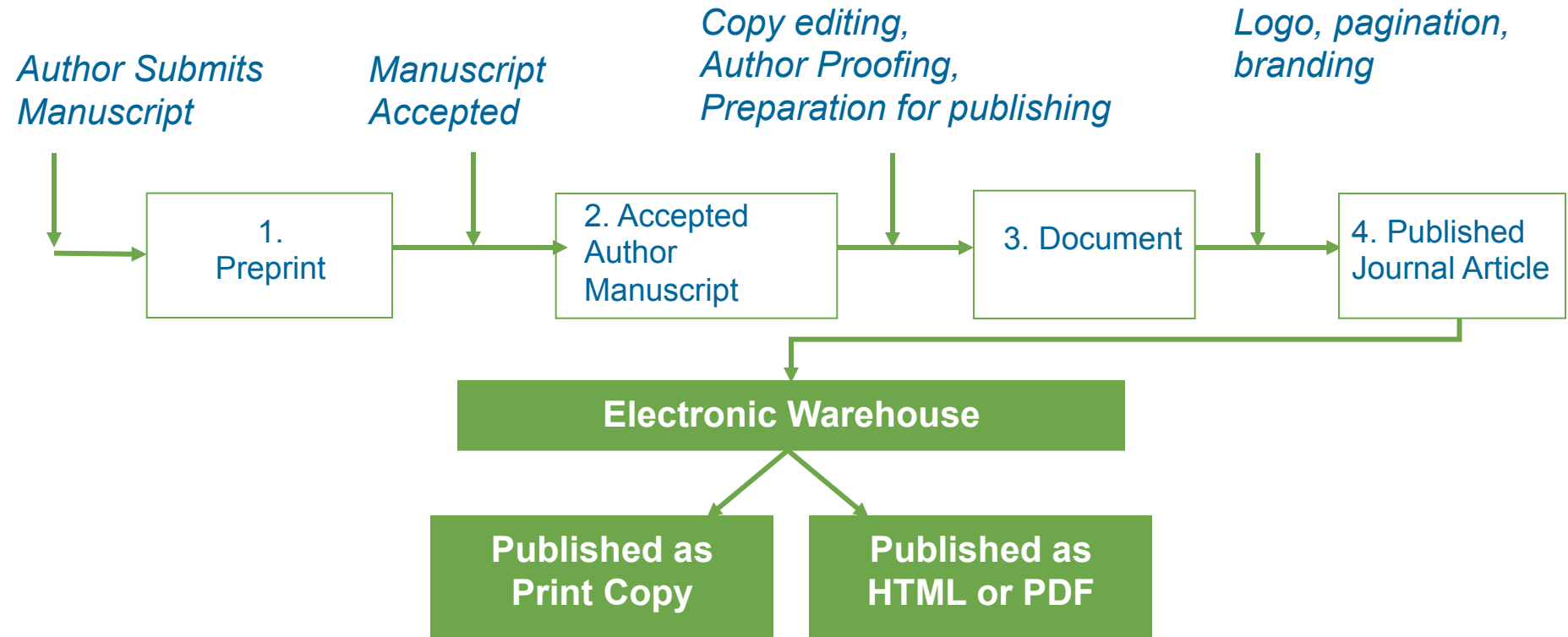


**Assignment list**  
All Assignments Page with most important actions directly accessible from one screen

# The Journal Publishing Cycle

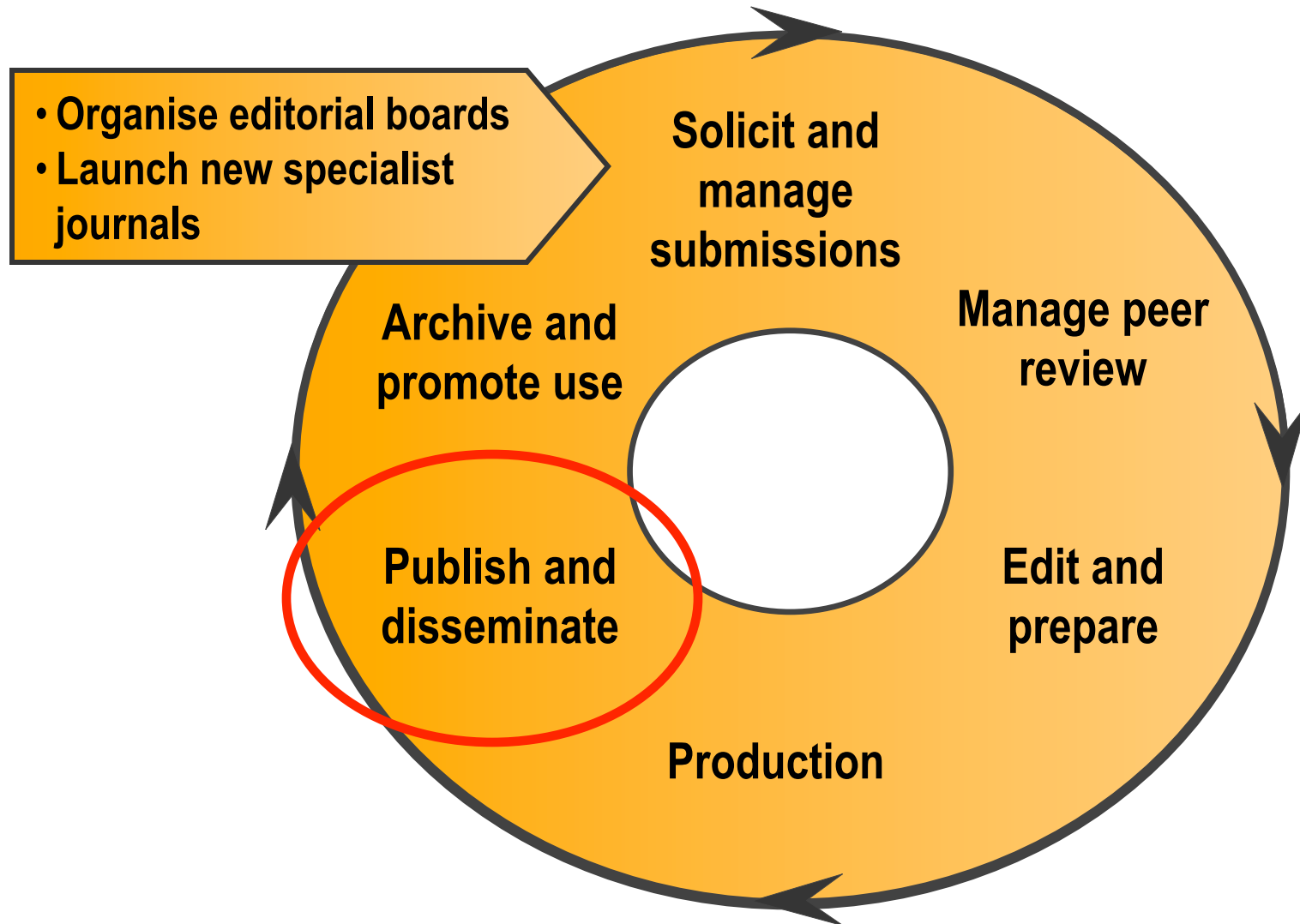


# Journal Article Production



- Publishers can create an Electronic Warehouse and other electronic production tools to quicken production times
- These tools require heavy investments, but they can process hundreds of thousands of articles and maintain digitized backfiles

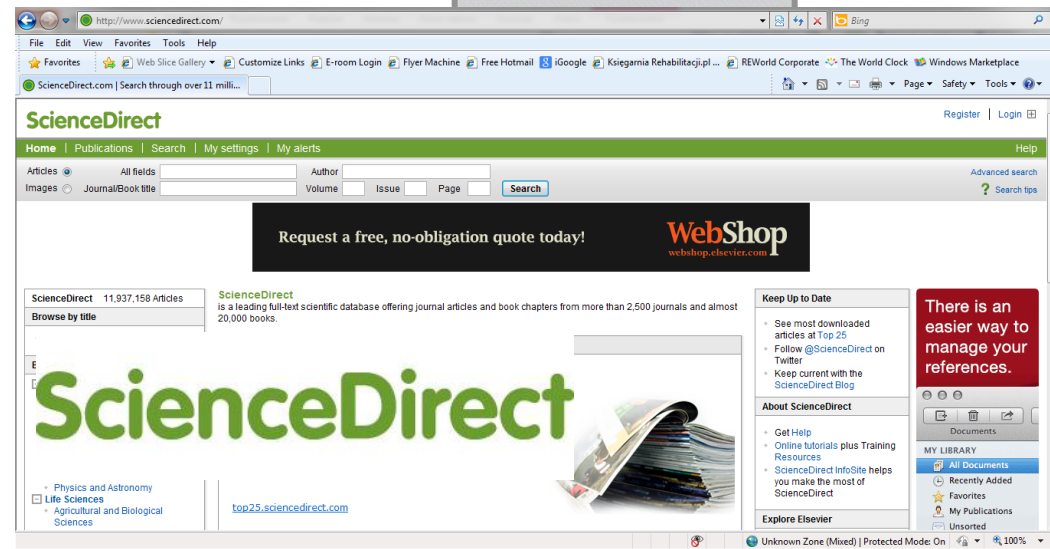
# The Journal Publishing Cycle



# Methods of Publication Dissemination



**Electronic Journal Platforms like Elsevier's ScienceDirect improve online dissemination and access**



# Other Methods of Dissemination

- Ad-Supported Portals
- Pay-per-View
- Sponsored access
- Open Access
- Podcast
- Blogs
- Mobile devices
- Point-of-care reference tools



# Product examples: Article of the future

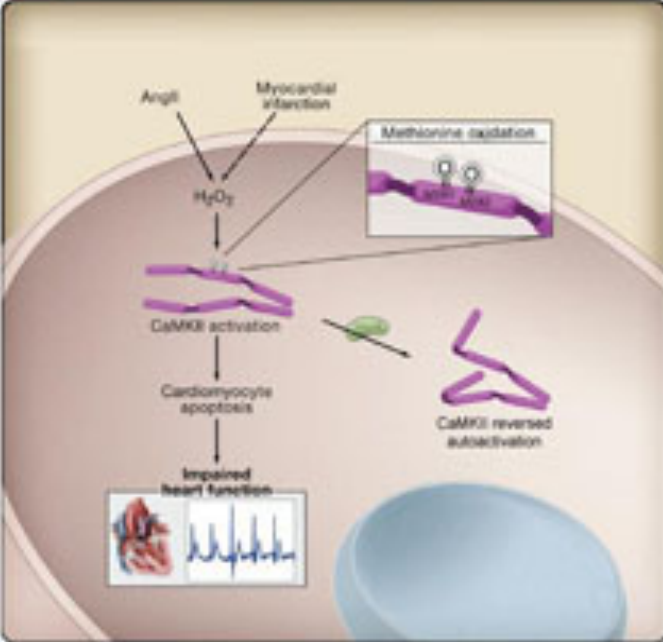
**Cell** Article Prototype #1 [View Prototype #2](#) [Tell Us What You Think](#) [Share / Save](#)

May 2, 2008 • Volume 133, Issue 3, pp. 462–474 [PDF \(1,758 KB\)](#)

**A Dynamic Pathway for Calcium-Independent Activation of CaMKII by Methionine Oxidation**

Jeffrey R. Erickson<sup>1</sup>, Mel ling A. Joiner<sup>1</sup>, Xiaogun Guan<sup>1</sup>, William Kutschke<sup>1</sup>, Jinying Yang<sup>1</sup>, Carmine V. Oddis<sup>2</sup>, Ryan K. Bartlett<sup>1</sup>, John S. Lowe<sup>1</sup>, Susan E. O'Donnell<sup>2</sup>, Nuket Aykdn-Burns<sup>3</sup>, Matthew C. Zimmerman<sup>3</sup>, Kathy Zimmerman<sup>3</sup>, Amy-Joan L. Ham<sup>2,4</sup>, Robert M. Weiss<sup>1,4</sup>, Douglas R. Spitz<sup>5</sup>, Madeline A. Shee<sup>2</sup>, Roger J. Colbran<sup>2</sup>, Peter J. Mohler<sup>1,4</sup>, and Mark E. Anderson<sup>1,4</sup> [Affiliations](#)

[Abstract](#) [Introduction](#) [Results](#) [Discussion](#) [Experimental Procedures](#) [Figures \(8\)](#) [References \(31\)](#) [Authors](#) [Comments \(3\)](#) [Acknowledgements](#)




The diagram illustrates a dynamic pathway for calcium-independent activation of CaMKII by methionine oxidation. It shows AngII inducing myocardial infarction, which leads to the production of H<sub>2</sub>O<sub>2</sub>. H<sub>2</sub>O<sub>2</sub> causes methionine oxidation on CaMKII, leading to CaMKII activation. This activation leads to cardiomyocyte apoptosis and impaired heart function. However, methionine oxidation is reversible, leading to CaMKII reversed autoactivation.

**Article Highlights**

- Oxidation of methionine residues activates CaMKII
- Angiotensin II induces CaMKII oxidation leading to cardiomyocyte death
- CaMKII methionine oxidation is reversed by IIRsA
- Elevated CaMKII oxidation impairs heart function and worsens ischemic injury

**Author Interview**



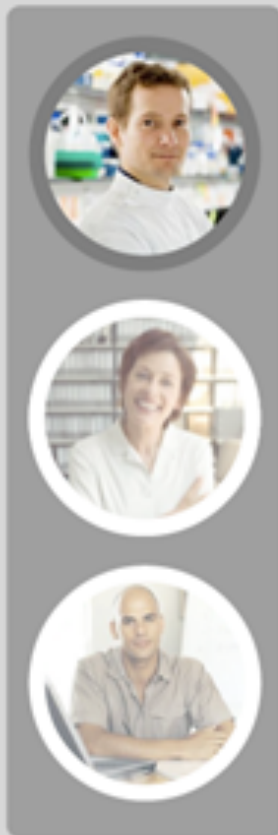
**Abstract**

Calcium/calmodulin (Ca<sup>2+</sup>/CaM)-dependent protein kinase II (CaMKII) couples increases in cellular Ca<sup>2+</sup> to fundamental responses in excitable cells. CaMKII was identified over 20 years ago by activation dependence on Ca<sup>2+</sup>/CaM, but recent evidence shows that CaMKII activity is also enhanced by pro-oxidant conditions. Here we show that oxidation of paired regulatory domain methionine residues sustains CaMKII activity in the absence of Ca<sup>2+</sup>/CaM. CaMKII is activated by angiotensin II (AngII)-induced oxidation, leading to apoptosis in cardiomyocytes both in vitro and in vivo. CaMKII oxidation is reversed by methionine sulfoxide reductase A (IIRsA), and *IIRsA*<sup>-/-</sup> mice show exaggerated CaMKII oxidation and myocardial apoptosis, impaired cardiac function, and increased mortality after myocardial infarction. Our data demonstrate a dynamic mechanism for CaMKII activation by oxidation and highlight the critical importance of oxidation-dependent CaMKII activation to AngII and ischemic myocardial apoptosis.

Switch Position

# Apps on ScienceDirect

Researchers will access applications tailored to their interests and work flow via the Application Marketplace




The screenshot shows the ScienceDirect Application Marketplace interface. At the top, there are navigation links for MetaSearch, ScienceDirect, Scopus, SciTopic, and Applications. A user profile section on the right shows the name 'Mary Jane ZIM & CO' and a 'Your library' button. Below the navigation bar, there's a 'Home | Application Gallery | Profile | Developers' section. The main content area is titled 'Application Marketplace' and includes a 'What are apps all about?' section with a description of applications and a 'Browse all Applications' link. On the left, there's a 'My Apps (4)' section listing 'Gene View', 'Project21', 'LIS ETH', and 'Opal-V'. Below this, there's a note about the application being a beta version. The 'Featured Applications' section at the bottom highlights 'Gene View', 'Protein Explorer', and 'Research Trends', each with a star rating and a 'Get details' button.

# Apps on ScienceDirect



ScienceDirect - FEBS Letters : Predicted bacteriorhodopsin from *Exiguobacterium sibiricum* is a - Windows Internet Explorer

http://www.sciencedirect.com/science?\_ob=ArticleURL&\_udi=B6T36-5100H50-1&\_user=48450348&\_coverDate=10%2F08%2F2010&\_rdoc=13&\_fmt=high&\_orig=browse&\_origin=browse&\_zone=rs&\_list\_item&\_srch=doc-info(%23toc%2349)

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Articles All fields Author Search ScienceDirect

Back to results | < Previous 13 of 26 Next >

PDF (586 K) | Export citation | E-mail article | Highlight keywords on

Article Figures/Tables (5) References (25)

**FEBS Letters**  
Volume 584, Issue 19, 8 October 2010, Pages 4193–4196

doi:10.1016/j.febslet.2010.09.005 | How to Cite or Link Using DOI  
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**Predicted bacteriorhodopsin from *Exiguobacterium sibiricum***

L.E. Petrovskaya<sup>a</sup>, E.P. Lukashev<sup>b</sup>, V.V. Chupin<sup>a</sup>, S.V. Sychev<sup>a</sup>, E.M. Lyubskiy<sup>c</sup>, M.P. Kirpichnikov<sup>a, b</sup>

<sup>a</sup> Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow 125412, Russia  
<sup>b</sup> Biological Department, Lomonosov Moscow State University, Moscow 119991, Russia  
<sup>c</sup> Institute of Physicochemical and Biological Problems in Soil Sciences, Russian Academy of Sciences, Pushchino, Moscow Region 142230, Russia

Received 6 July 2010; revised 16 August 2010; accepted 2 September 2010

**Abstract**  
The predicted *Exiguobacterium sibiricum* bacteriorhodopsin gene was amplified and expressed in *Escherichia coli* membrane. ESR bound all-trans-retinal and displayed an absorbance maximum at 534 nm without dark adaptation. The ESR photocycle is characterized by fast formation of an M intermediate and the presence of a significant amount of an O intermediate. Proteoliposomes with ESR incorporated transport protons in an outward direction leading to medium acidification. Proton uptake at the cytoplasmic surface of these proteoliposomes encodes proton release and coincides with M decay. One of the ESR

**Reflect - all-trans-retinal**  
Chemical | Wikipedia | Add | About | Edit  
CID000001070 BioActivity Structure Search  
retinaldehyde; RETINAL; 11-cis-retinal; all-trans-retinal; transretinal; 9-  
▼ 2D  
retinoic acid vitamin A  
nicotinamide A retinaldehyde RHO  
RDHS  
Retinoid

**pump** Edited by Richard Cogdell  
R.A. Khatypov<sup>d</sup>, L.G. Erokhina<sup>d</sup>, D.A. Gilichinsky<sup>d</sup>, V.A. Shuvalov<sup>d</sup> and

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• Lack of association between hemolysis production and ac...  
Microbial Pathogenesis  
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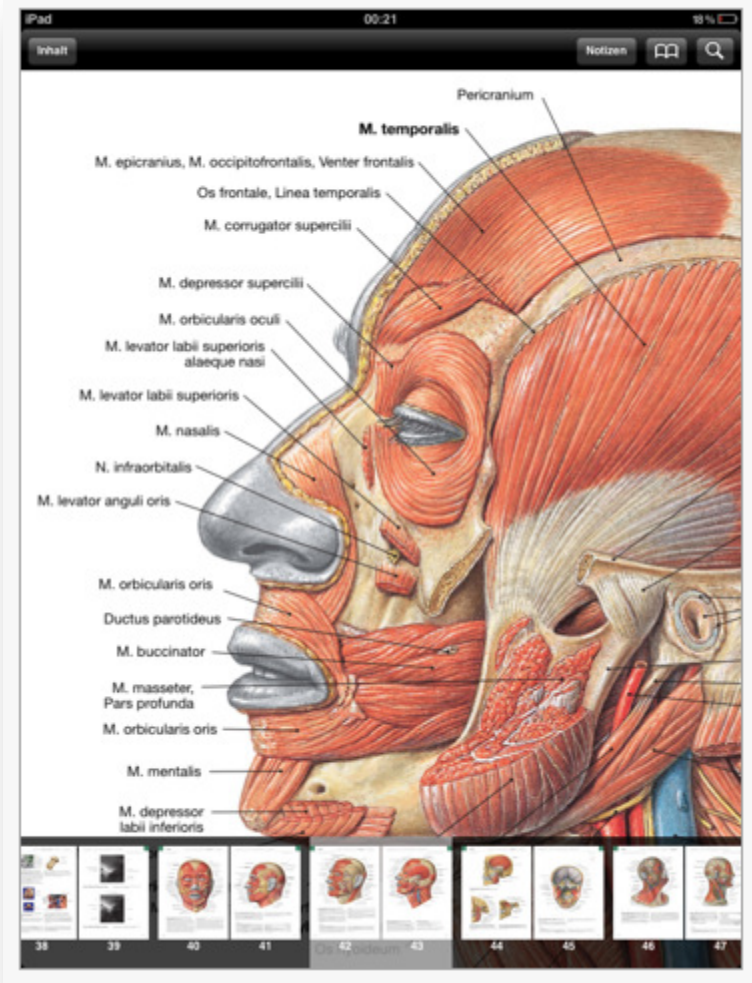
# Mobile applications



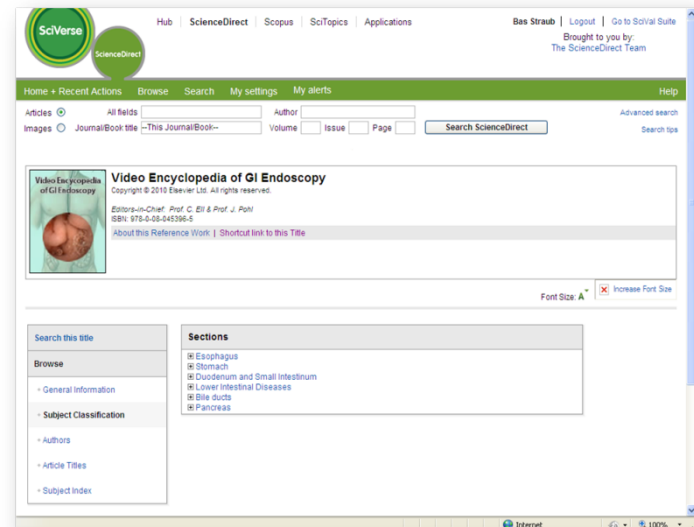
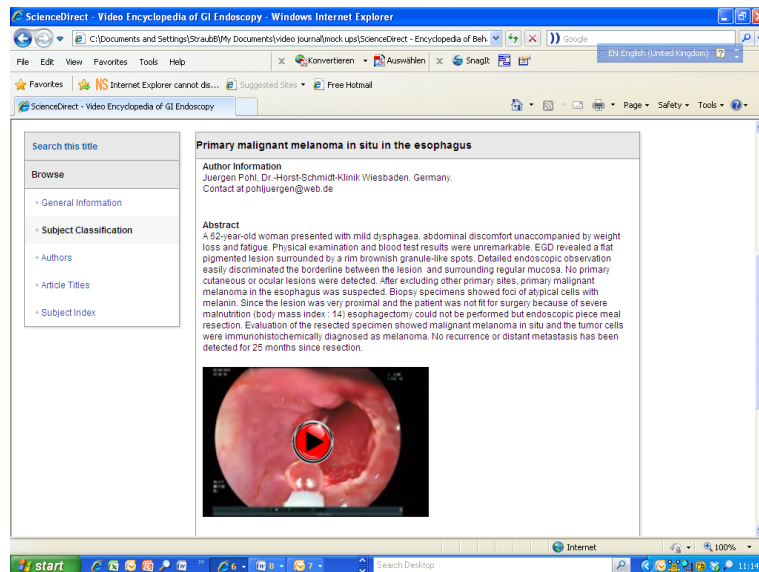
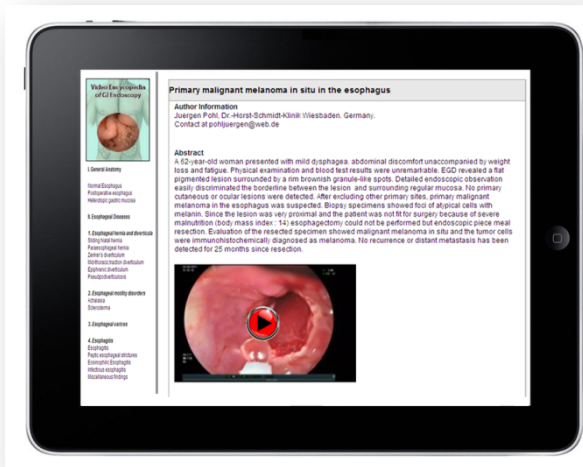
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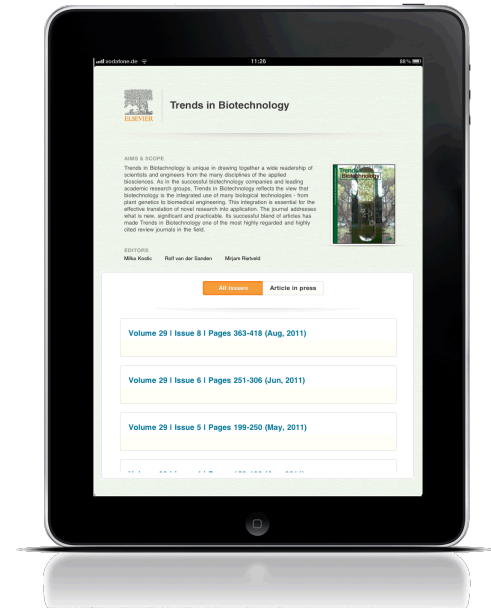


# Hot off the press'; recently launched *Video Journal of GI Endoscopy*

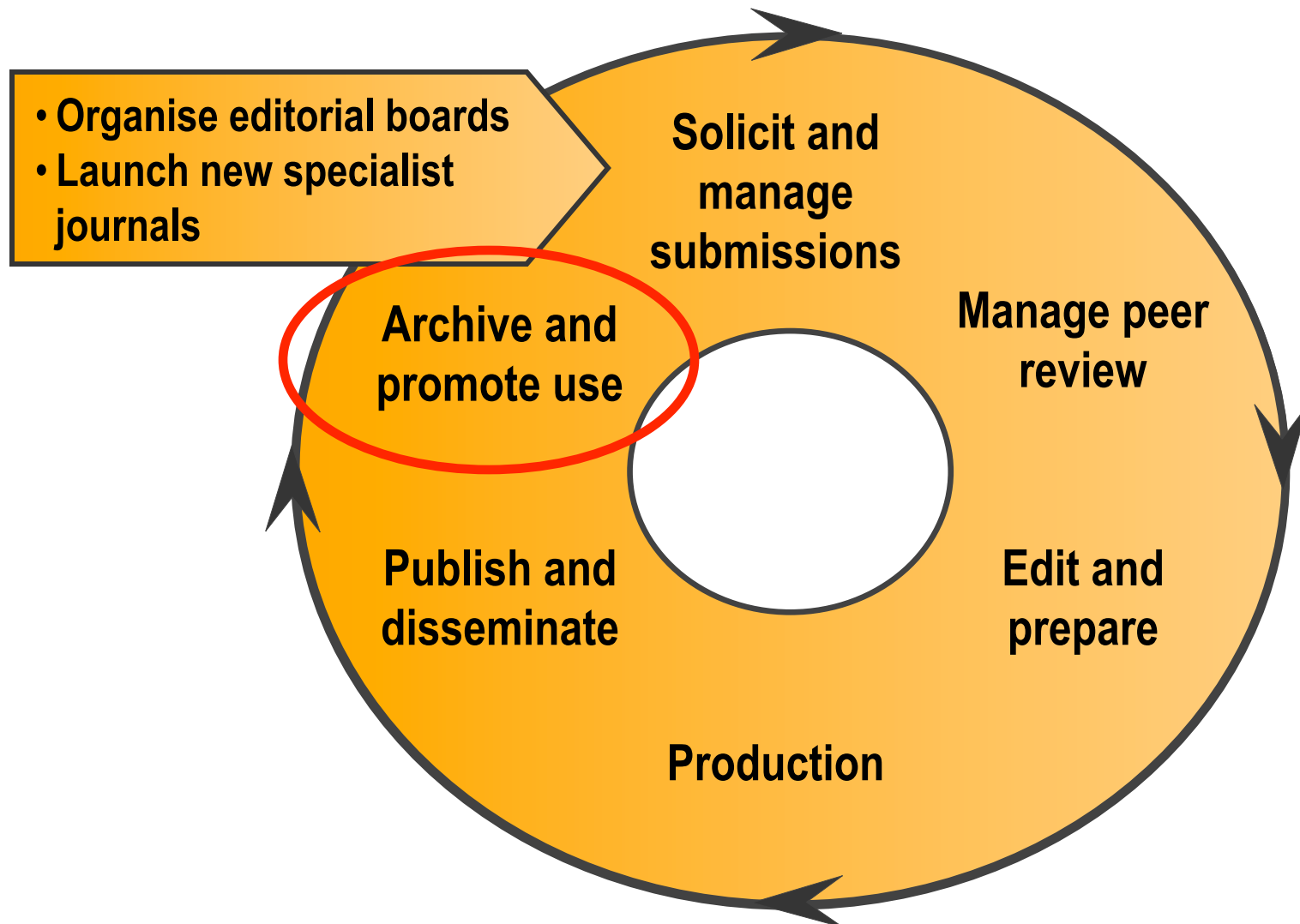


# iPad apps for your journal/for your society

- Journal/society-branded native app for iPad
- Device independent app under consideration
- PDF plus full HTML
- Issues plus Articles in Press
- A&E integration
- Investment needed



# The Journal Publishing Cycle



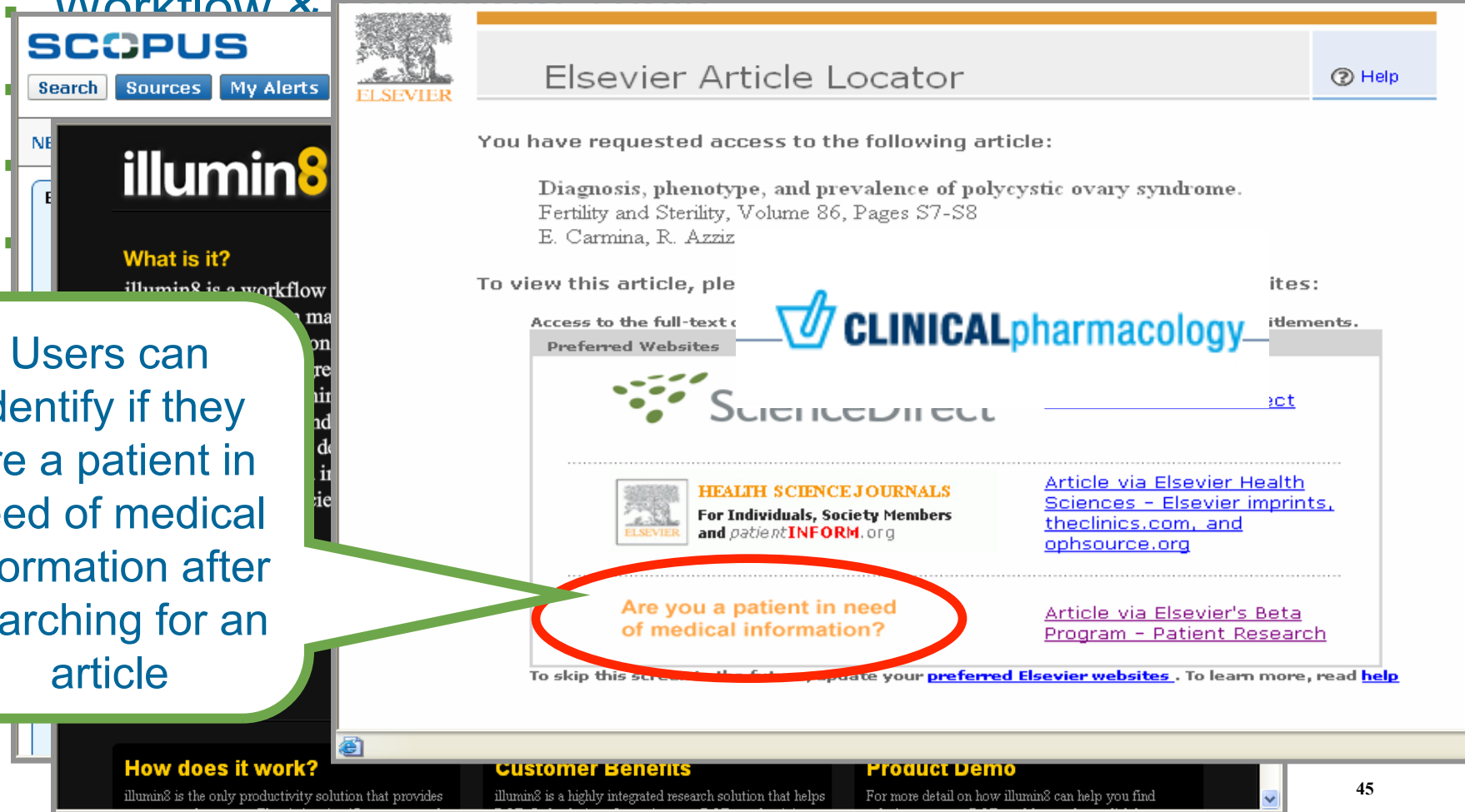


# Promoting Research Information Use

- Abstract & Index Databases

- Workflow & Research Tools

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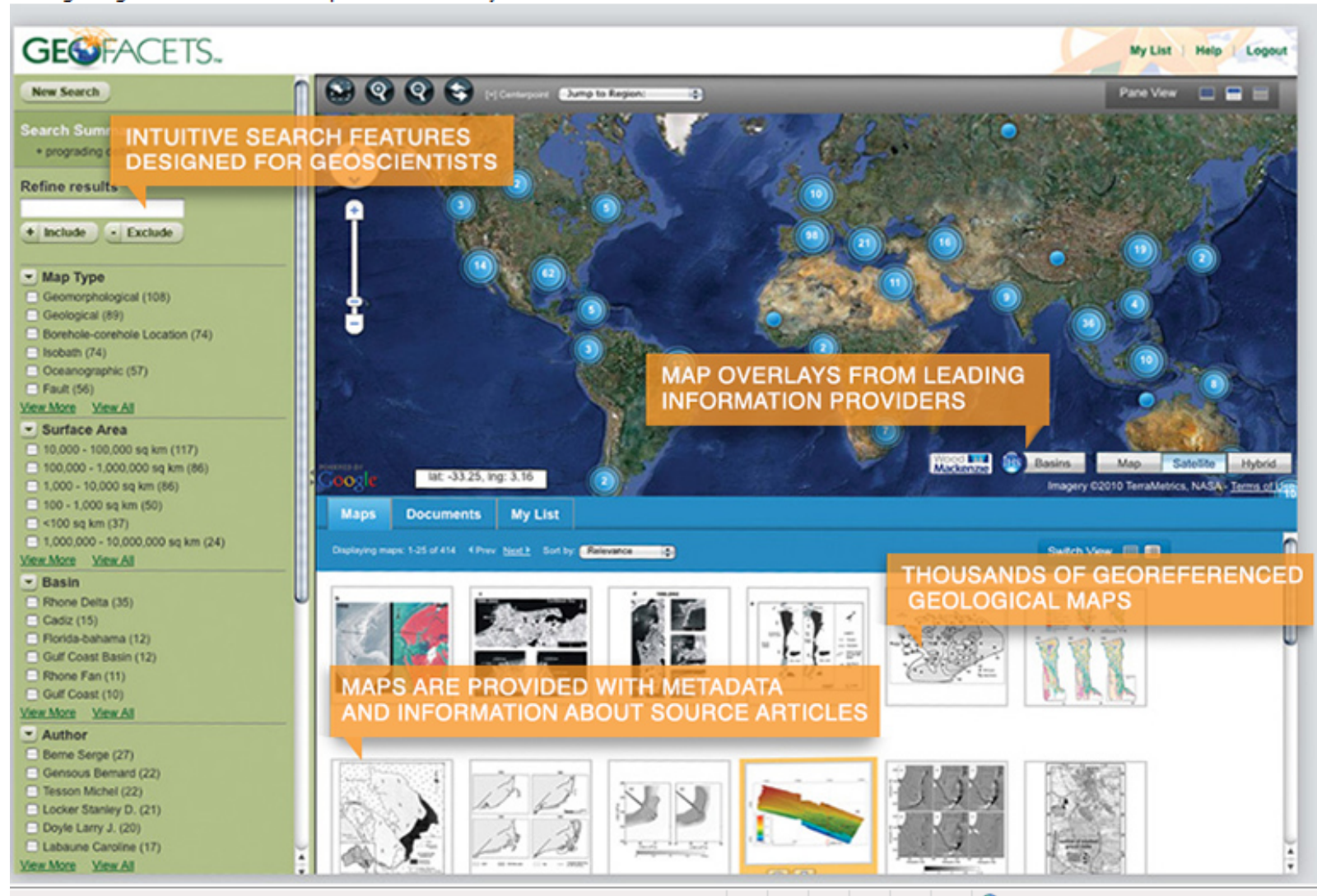
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**MAPS ARE PROVIDED WITH METADATA  
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Map Type

- Geomorphological (108)
- Geological (89)
- Borehole-corehole Location (74)
- Isobath (74)
- Oceanographic (57)
- Fault (56)

View More View All

Surface Area

- 10,000 - 100,000 sq km (117)
- 100,000 - 1,000,000 sq km (86)
- 1,000 - 10,000 sq km (86)
- 100 - 1,000 sq km (50)
- <100 sq km (37)
- 1,000,000 - 10,000,000 sq km (24)

View More View All

Basin

- Rhone Delta (35)
- Cadiz (15)
- Florida-bahama (12)
- Gulf Coast Basin (12)
- Rhone Fan (11)
- Gulf Coast (10)

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Author

- Borne Serge (27)
- Gensous Bernard (22)
- Tesson Michel (22)
- Locker Stanley D. (21)
- Doyle Larry J. (20)
- Labonne Caroline (17)

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Maps Documents My List

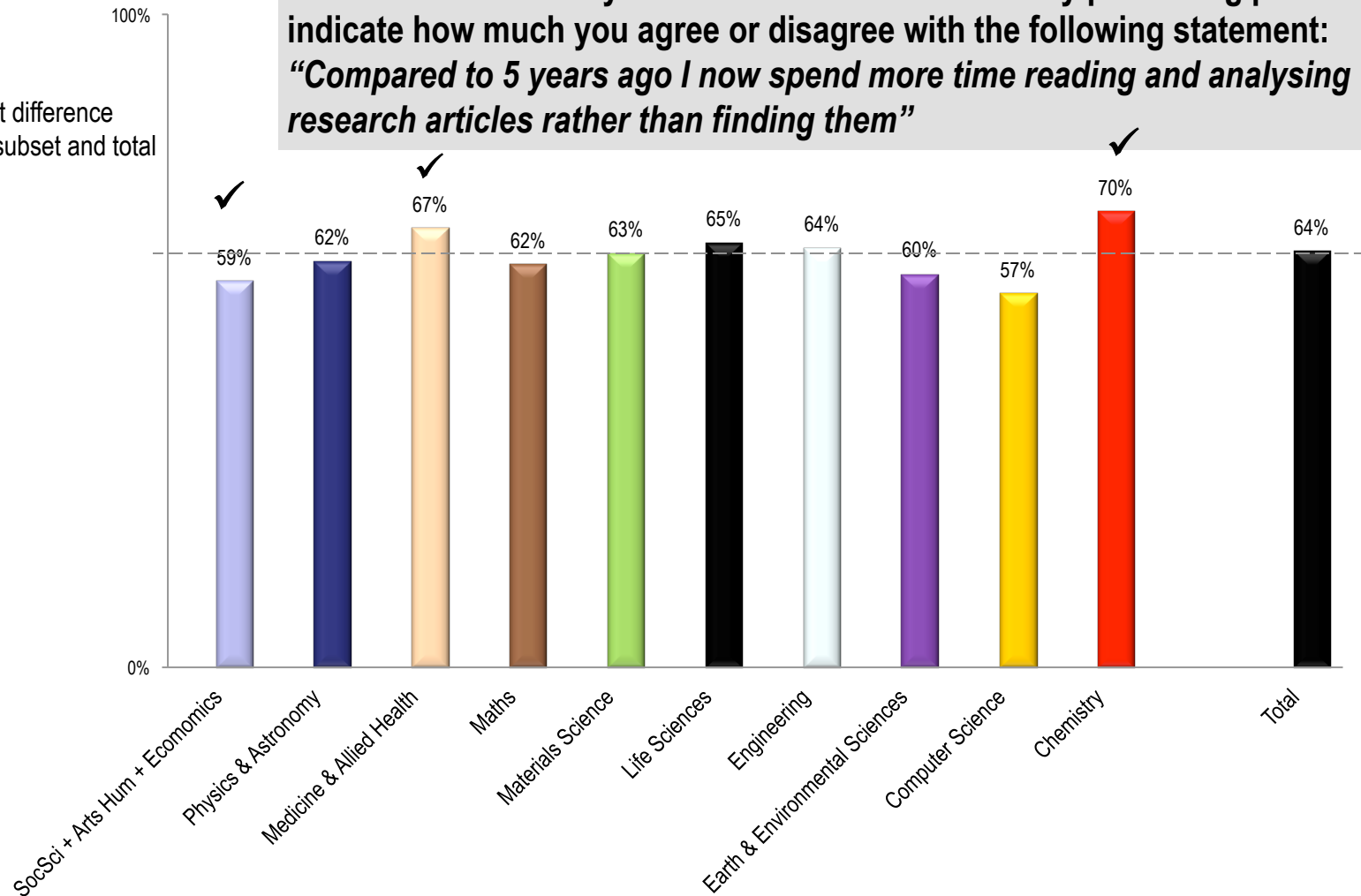
Displaying maps: 1-25 of 414 4 Prev Next Sort by: Relevance

Switch View



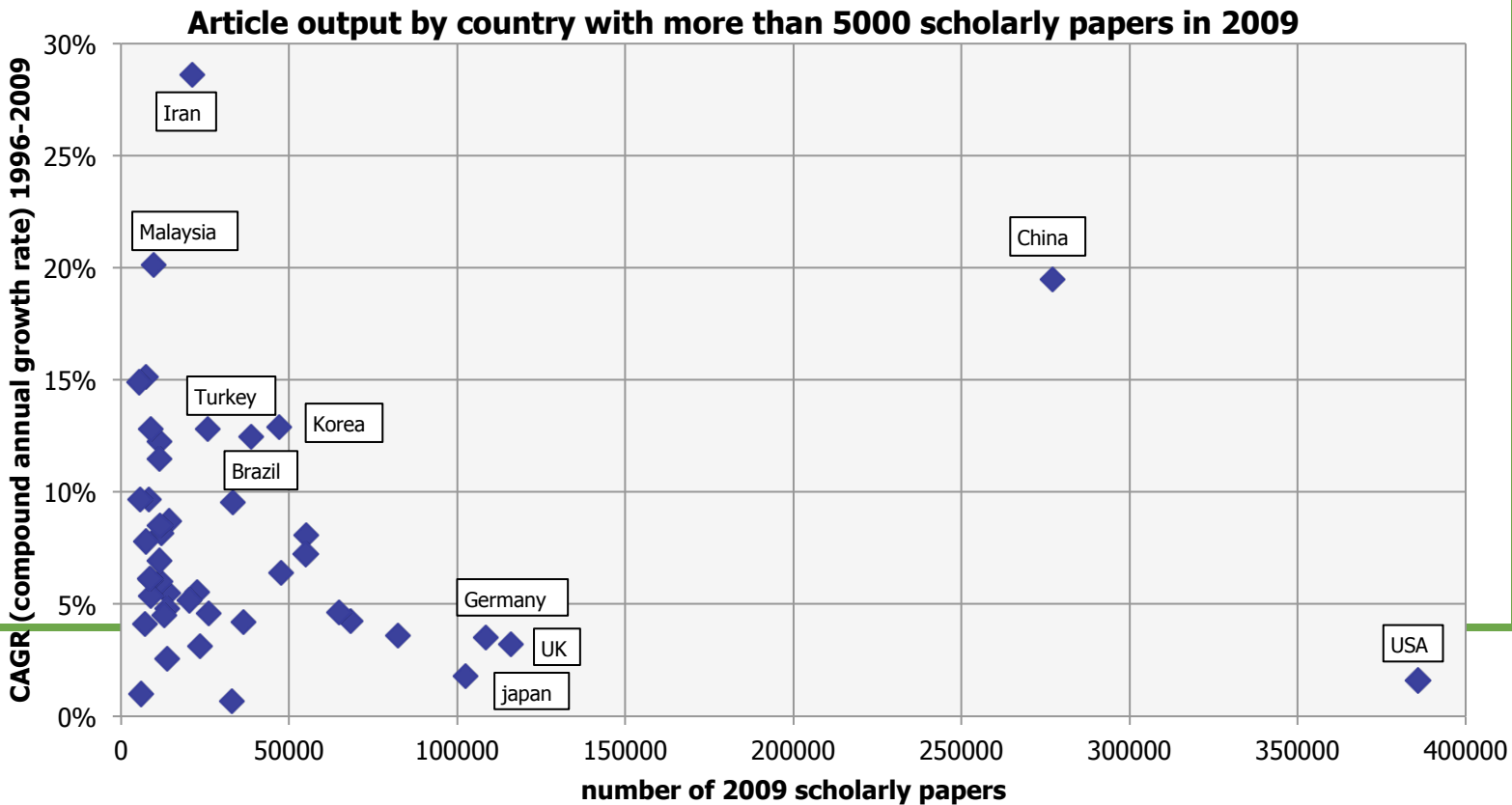
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# Global Expansion of Scientific Research

Due to investments by publishers, access to research in developing countries has grown, resulting in increased article output and the emergence of a global research network



# Evaluating and Developing Country's Research Output

## Country Summary Report

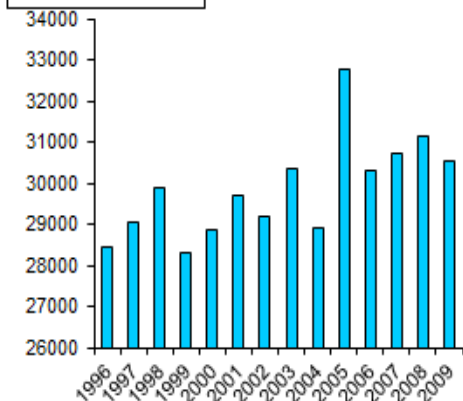
Country Russian Federation

Publication Year 2010;2009

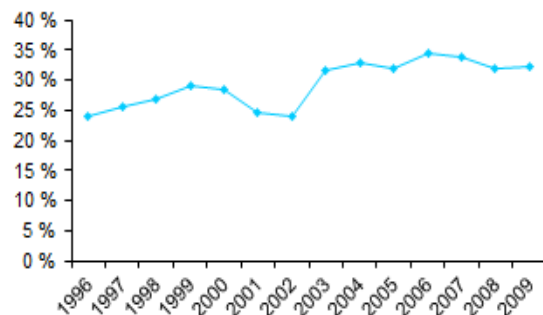
Citation Year 2011

Country Name	Article Count (All Authors)	Citation Count	Average Citation	Field Weighted Impact	Self Citation Count	Self Citation %	Country Collaboration Count	Collaboration %
Russian Federation	62042	66732	1,08	0,50	24760	37,10 %	19281	31,08

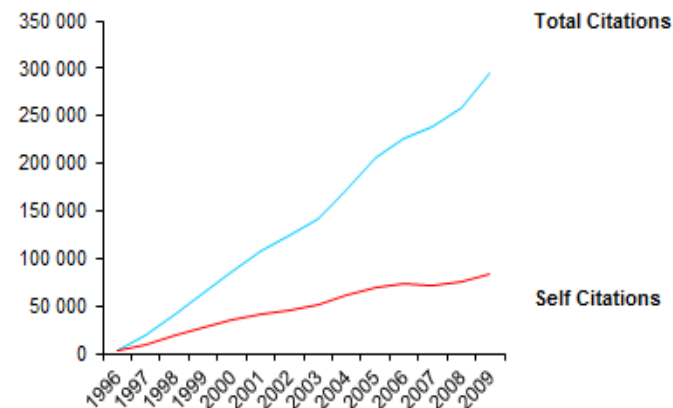
Articles Published



Percentage of Articles Published with Another Country



Total Citations & Self Citation Counts



# Evaluating of Country's Scientific Research Output

## Subject Data within Country

Subject	Articles	Citations	Self Citations	Field Weighted Impact
Condensed Matter Physics	8442	8971	3754	0,54
Physics and Astronomy (all)	5673	7630	2950	0,74
Nuclear and High Energy Physics	3227	6970	2732	1,02
Electronic, Optical and Magnetic Materials	4291	5225	2207	0,58
Atomic and Molecular Physics, and Optics	3840	4596	2020	0,61
Chemistry (all)	5635	4444	1643	0,30
Biochemistry	2459	4148	1392	0,54
Organic Chemistry	2701	4143	1611	0,57
Physical and Theoretical Chemistry	3181	3829	1663	0,44
Molecular Biology	1053	3129	851	0,91
Space and Planetary Science	1846	2869	1131	0,62
Materials Chemistry	3528	2841	1286	0,37
Inorganic Chemistry	2239	2826	1152	0,51
Materials Science (all)	2832	2787	1099	0,50
Cell Biology	991	2708	756	0,82
Physics and Astronomy (miscellaneous)	2461	2695	1107	0,44
Multidisciplinary	146	2440	498	3,09
Astronomy and Astrophysics	1588	2437	927	0,61
Medicine (all)	1111	1957	422	0,81
Instrumentation	1593	1859	815	0,71

## Cited Countries - this country is cited by

Country	Citations	% Citations received
Russian Federation	23452	33,69 %
United States	17093	24,55 %
Germany	10540	15,14 %
China	7117	10,22 %
France	6191	8,89 %
United Kingdom	6016	8,64 %
Italy	4676	6,72 %

## Citing Countries - this country is citing

Country	Citations	% Citations given
Russian Federation	23452	20,16 %
United States	21992	18,91 %
Germany	12037	10,35 %
United Kingdom	8154	7,01 %
France	7544	6,49 %
China	5110	4,39 %
Japan	5028	4,32 %



## In conclusion....

We provide:

1. Quality (World Class Content)
2. Preservation of Content
3. Efficiency of usage for our Customers
4. Added Value in Innovative Tools
5. Access
6. Guidance on Content Development & Maximization of Country's Research Output