

# **New services and capabilities @ Springer**

*Guenther Eichhorn*

Director, Abstracting & Indexing

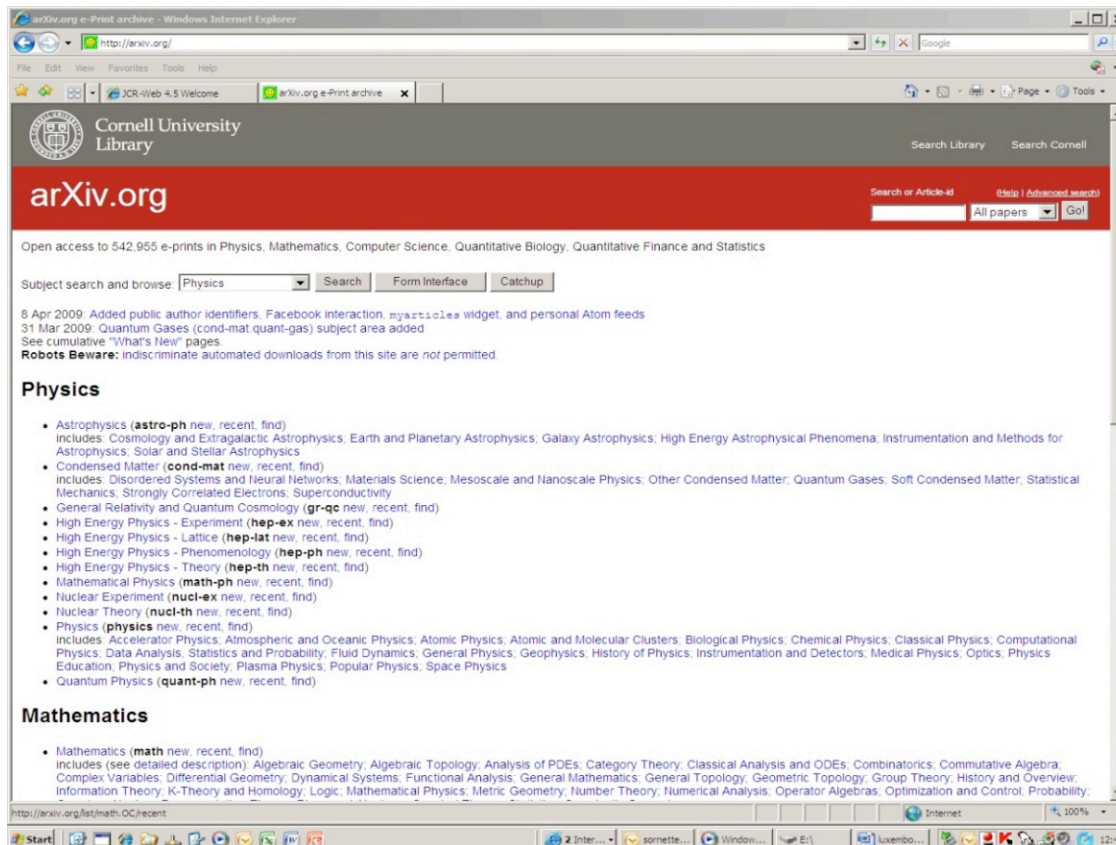
Cambridge, MA (April 2010)

# Overview

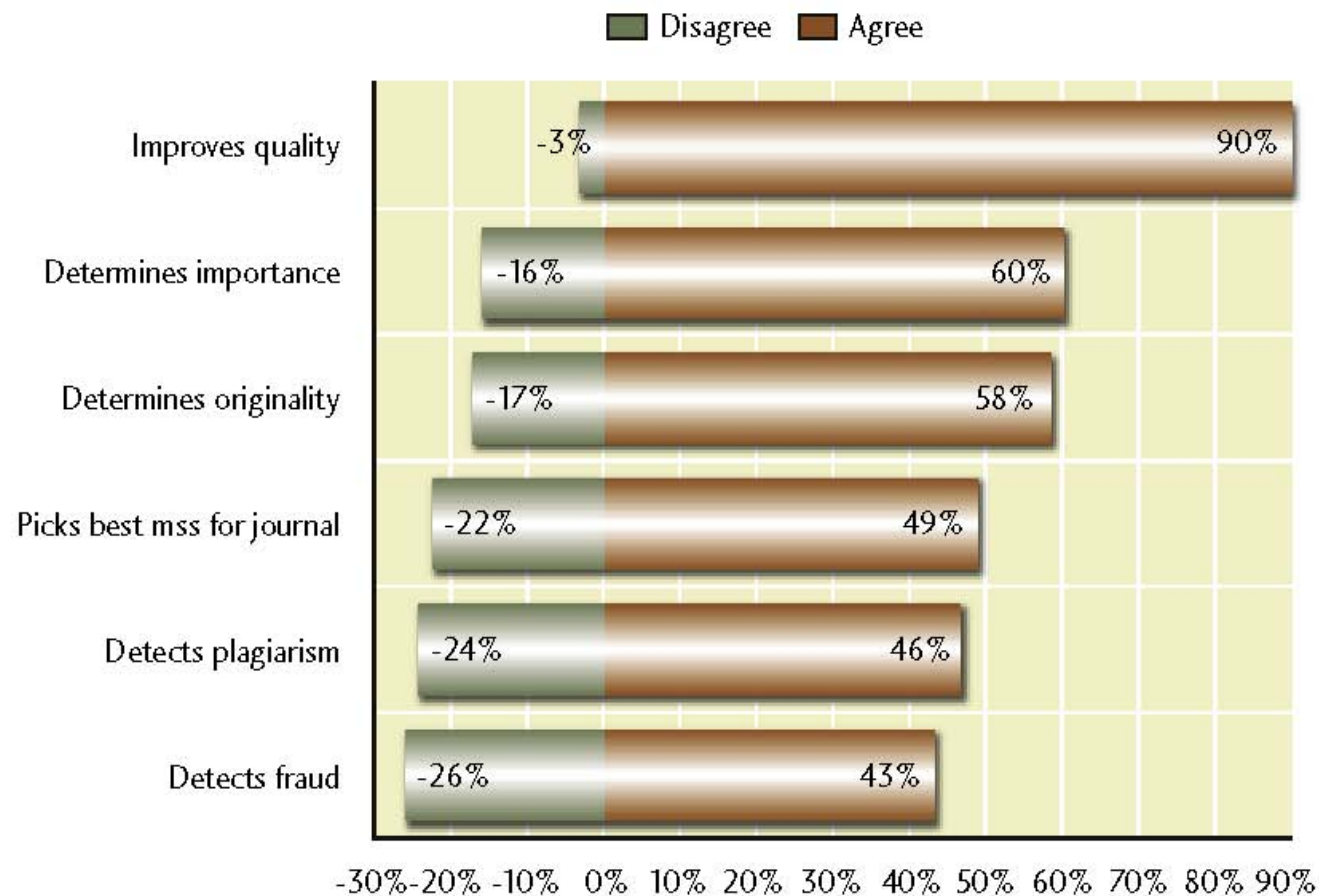
- The role of a scientific publisher
- New Products and Capabilities
- Future

## Different role of Publishers

First hand distribution of primary scholarly information has disappeared from the publisher's list of service in some disciplines (ArXiv).



## Quality Assurance: Peer-Reviewing



## Metadata

*The uniform quality and international standards of metadata are of paramount importance in a global e-publishing system.*

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- Web of Science (Thomson ISI)
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- INSPIRE
- ADS

Consistency is also needed for *lasting archiving* (e.g. by Portico).

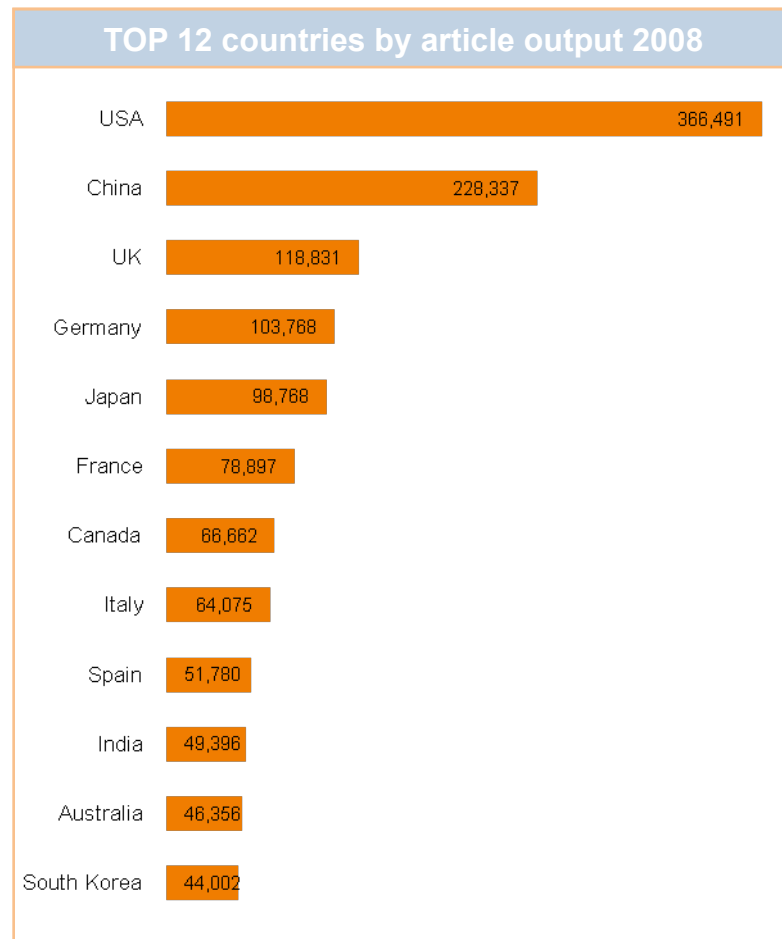
## The World is Changing

### R&D Expenditure

- Since 2000, R&D expenditure relative to GDP (R&D intensity) has increased in Asia, has decreased slightly in the United States remained relatively stable in Europe.
- In 2006/2007, Finland, Japan, Korea and Sweden were the only countries in which the R&D-to-GDP ratio exceeded 3%, well above the average of 2.3%.
- R&D expenditure for China has been growing even faster than GDP, resulting in a rapidly increasing R&D intensity, growing from 0.9% in 2000 to 1.5% in 2007.

OECD, 2009

### Research Article Output




Source: SRJ-SCImago/Scopus, Journal & Country Rank 2008

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**Journal Article**



PTPRR Protein Tyrosine Phosphatase	The Cerebellum
Journal	The Cerebellum
Publisher	Springer Nature
ISSN	1473-4222
Issue	Volume 8, No. 1
DOI	10.1007/s12031-010-9100-0
Pages	80-88
Subject Collection	Biomedical Sciences
SpringerLink Date	Saturday, Jan 16, 2010

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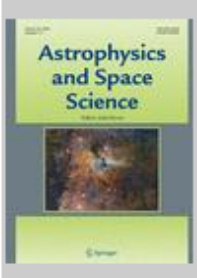
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Journal Article  
**Formation mechanism of aerodynamic drag of high-speed train and some reduction measures** Hong-qj Tian


Journal Article  
**Effect of cross-wind on spatial vibration**


PHYSICS AND ASTRONOMY  
**ASTROPHYSICS AND SPACE SCIENCE**  
Volume 298, Numbers 1-2, 107-114, DOI: 10.1007/s10509-005-3919-z



**A HED Laboratory Astrophysics Testbed Comes of Age: JET Deflection via Cross Winds**

A. Frank, E. G. Blackman, A. Cunningham, S. V. Lebedev, D. Ampleford, A. Ciardi, S. N. Bland, J. P. Chittenden and M. G. Haines

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**Abstract**

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We present new data from High-Energy Density (HED) laboratory experiments designed to explore the interaction of a heavy hypersonic radiative jet with a cross wind. The jets are generated with the MAGPIE pulsed power machine where converging conical plasma flows are produced from a cylindrically symmetric array of inclined wires. Radiative hypersonic jets emerge from the convergence point. The cross wind is




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19	K	20	Ca	21	Sc	22	Ti	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	29	Cu	30	Zn	31	Ga	32	Ge	33	As	34	Se	35	Br	36	Kr
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55	Cs	56	Ba	57	La	58	Ce	59	Pr	60	Nd	61	Pm	62	Sm	63	Eu	64	Gd	65	Tb	66	Dy	67	Ho	68	Er	69	Tm	70	Yb	71	Lu	72	Hf
73	Ta	74	W	75	Re	76	Os	77	Ir	78	Pt	79	Au	80	Hg	81	Tl	82	Pb	83	Bi	84	Po	85	At	86	Rn	87	Fr	88	Ra	89	Ac	90	Th
91	Pa	92	U	93	Np	94	Pu	95	Am	96	Cm	97	Bk	98	Cf	99	Es	100	Fm	101	Mn	102	Sg	103	Bo	104	Hs	105	Ds	106	Db	107	Sg	108	Uu
109	Uuh	110	Uub	111	Uut	112	Uuq	113	Uup	114	Uuh	115	Uuq	116	Uus	117	Uuh	118	Uuo	119	Uut	120	Uuq	121	Uup	122	Uuh	123	Uuq	124	Uus	125	Uuh	126	Uuo

## New Tools



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AuthorMapper searches **journal articles** and plots the location of the authors on a map.

Try it!

Map cloning articles published in *Current Genetics*

Map migraine articles published by authors from the USA

**CURRENTLY DISPLAYING: Last 100 articles published**

Map showing author locations across various countries including Canada, United States, Mexico, United Kingdom, France, Germany, Italy, Spain, Poland, Sweden, Finland, Norway, Iceland, Greenland, Russia, Kazakhstan, Mongolia, China, India, Pakistan, Iran, Afghanistan, Saudi Arabia, Egypt, Libya, Algeria, Mauritania, Mali, Niger, Chad, Sudan, Thailand, and others. The map is powered by Google and includes a color scale legend.

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## Experiment with social media



The image displays two screenshots of professional social media networks, both powered by Springer.

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The Official Professional Network of the Journal of Materials Science  
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a professional network dedicated to the study of the brain  
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What are they interested in? Courtesy of Wordle.net, here is a word cloud of their interests:  
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Machine Learning 3 members  
Neurosurgery

**FORUM**  
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Started by Stacy D Burgess in Discussions. Last reply by Stacy D Burgess 48 minutes ago.  
Who Wants to Be A Cognitive Neuroscientist Millionaire?  
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What is your interest in neuroscience? 24 Replies  
Started by Neuropsychology Dude in Discussions. Last reply by Erika Jensen Aug 27.  
Society for Neuroscience convention 1 Reply  
Started by Neuropsychology Dude in Discussions. Last reply by Ann Avouris Aug 25.  
Interested students for Msc/Phd Neurosciences Universiti Sains Malaysia? 2 Replies  
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Interview with our member Francois Vialatte  
5th BCI2000 Workshop  
Must mean field equations be similar to single neuron equations?

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**Christiaan Huygens**  
**Christiaan HUYGENS**  
 b. 14 April 1629 - d. 8 July 1695

**Summary.** Trained to become a diplomat, a career which did not eventuate due to political circumstances, Huygens turned to science and mathematics. While in Paris he heard of the Pascal's and Fermat's gaming problems. Back in Holland he conceived his calculus of expectations which considerably influenced the generation of probabilists.

Christiaan Huygens was born in the Hague on April 14, 1629, the son of the diplomat, writer, and poet Constantijn Huygens whose Dutch and Latin verse gained him a lasting place in the history of Dutch literature. Born into the house of Orange in two generations the Huygens family had risen to high social rank. Christiaan had private tutors and his father before he went to Leiden in 1645 to study law and mathematics with the School of Christiaan Huygens. He studied classical Greek mathematics and the new methods of Viète, Descartes, and Newton.

In March 1647 Christiaan Huygens matriculated at the Collegium Auriacum (Orange College) in Breda. He also privately continued his studies of mathematics. After his return to the Hague in August 1649 as a member of a diplomatic mission in the fall of 1649. However, after the death of the stadholder William II, Huygens had no chance to enter the diplomatic service for which he was prepared by his education.

The 17 years between the end of his studies in Breda and his departure to Paris in April 1666 which he spent in the Hague but with short visits to Paris and London were the most fertile of Huygens' career. He worked supported by an allowance supplied by his father, as a gentleman scientist, on problems of mathematics, astronomy, the construction of pendulum clocks and of optical instruments, the lenses of which he gave to the discovery of the ring of Saturn in 1655/56 and the invention of the pendulum clock in 1656 made him in the mid 60's he was considered the leading mathematician and natural philosopher of his time.

# Collaboration in ORCID

- ORCID (Open Researcher & Contributor ID) attempts to provide unique author identification.
- Difficult to achieve.
- Long range effort



# eFirst publishing

- Electronic final article published immediately
  - Includes issue and page/article numbers
- Summary print issue available at year-end
  - Either part of subscription or pay-on-request

## Future: Enhanced Electronic Publishing

- PDF still mimics many features of “paper copies”
- Instead, use basically only mark-up language based means to create online articles which are significantly enriched by incorporating new features:
  - Downloadable spreadsheets to enable readers to work directly with data presented
  - Semantic markup of textual terms and link to third-party information sources
  - Interactive figures
  - Movies
  - citations which include a pop-up containing the relevant quotation from the cited article
  - Sortable reference lists, etc.

# Continued Collaboration

- INSPIRE
  - Agreement was signed by Springer on 13 April 2010 to make metadata and full text available for indexing
- ADS
- Apply tools from one collaborator to data from others (e.g. AuthorMapper)
- Merge data handling capabilities (e.g. SpringerImages)