Find, Cite, Publish - and get evaluated

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Research

Writing

Publishing

Evaluation
Search
Databases you know?
Databases

- Google
- Google Scholar
- PubMed
- Microsoft Academic Search
- SPIRES
- INSPIRE
- ISI Web of Knowledge
- ACM Digital Library
- IEEE Computer Society
- JSTOR
- SCOPUS
PubMed

Web of Knowledge

http://apps.isiknowledge.com/
Citation Management

- Citation Management
- Citing Papers
- Re-Reading Papers
- Formatting Papers
Citing & Re-Read Papers
Citation-management

- Store data about interesting papers
- add notes to the paper
- support for different citation styles
- organize PDFs
Software Solutions

- Endnote
- Zotero
- Mendeley
- Papers [Licence via IT]
- Citavi
- Sente
- JabRef
Example
Zotero

• Free Plug-in for Firefox
• Independent Application in Development (Alpha Version)
• Organize PDFs
• Lots of Citation Styles
Publishing
Situation

- Scientists write papers
- Scientists peer review papers
- Publisher “print” papers
- Scientists/library pay publisher to read papers
- Prices for journals increase rapidly
Open Access

• Green Road: Scientists store private copy on private or institutional page (Selfarchiving)

• Golden Road: Journal is free accessible (e.g. PLoS Journals, BMC), Author pays (Open Access Journals)
Why should you care?

- Studies: Open Access Articles getting more often cited =>
- More people read your papers
OA @ IST

- Open Access Policy
- IST Repository
- Library will support you
- http://ist.ac.at/open-access
“At IST Austria we support the self-archiving of scientific work and encourage publishing in Open Access journals, in order to make the results of our research accessible to the broadest possible audience.”

Tom Henzinger
IST Repository

• Open Access Policy
• IST Repository
• Library will support you
Actual state of research data @ ISTAustria

Porsche, Jana (2012) Actual state of research data @ ISTAustria. Project Report. IST Austria.

Text

Abstract
This document is created as a part of the project “Repository for Research Data on IST Austria”. It summarises the actual state of research data at IST Austria, based on survey results. It supports the choice of appropriate software, which would best fit the requirements of their users, the researchers.

Item Type: Monograph (Project Report)
Uncontrolled Keywords: research data

Research Group: Scientific Service Units > Library
Depositing User: Jana Porsche
Date Deposited: 12 Nov 2012 11:11
Last Modified: 12 Nov 2012 15:35
URL: http://repository.ist.ac.at/id/eprint/103

Actions (login required)

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• If possible: don’t give all rights away
• Keep right for second publication (personal webpage, institution repository, subject repository)
• Contracts are negotiable
IST Austria
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Add a Work

Search Within

Bollenbach Group

People

Bollenbach
Chevereau
Tischler

Refine Results

Formats
Journal article (16)
Conference paper (3)
Dissertation thesis (1)

Groups
Sixt Group (2)
SSUs (1)

People
Tobias Bollenbach (20)
Michael Sixt (2)
Christine Moussion (1)
Ingrid de Vries (1)
Jan Schwarz (1)

Results (20)

Interstitial dendritic cell guidance by haptotactic chemokine gradients
Journal article
Weber, Michele M; Hauschild, Robert; Schwarz, Jan; Moussion, Christine; de Vries, Ingrid; more...
Science (2013)
GET it@IST | Save

Transcription factor kinetics and the emerging asymmetry in the early mammalian embryo
Journal article
Pantazis, Periklis; Bollenbach, Tobias
Cell Cycle (2012)
GET it@IST | Save

http://publist.ist.ac.at
Evaluation
Goal: Measure the Quality of Science
Question: How would you measure quality of science?
Measurements

- Impact Factor
- Total Citations
- h-index
Impact Factor

- Developed by Eugene Garfield (ISI)
- Quality of a Journal
- Average citations an article in a journal got in the last 2 years
Impact Factor

- Nature 38.60
- Cell 31.96
- PLoS Biology 12.69
- IEEE T Pattern Anal 4.80
- PLoS ONE 3.73
- J American Math Soc. 3.57

All Values from JCR 2012
Question

• Is a scientist who published only in high impact journals a good scientist?
• Is somebody who published only in low impact journals a bad scientist?
Example

- 100 citations in 2 years
- 2 citations in 2 years
- Impact factor: 34.08
- nature
Citations

• amount of citations all your papers got (source most time Web of Science)

• Problems:
  • Selfcitations:
  • Index without selfcitations
  • One high cited paper is enough
h-index

- Goal: measurement of quality over time
- $x$ papers have at minimum $x$ citations
- 30 papers have at minimum 30 citations
- Problems:
  - new researchers have always a small number
  - differences in research fields
109 citation
21.8 citation / article
h-index: 2
110 citation
22 citation / article
h-index: 3
110 citation

22 citation / article

h-index: 2
Web of Science

http://apps.isiknowledge.com/
Scopus
http://www.scopus.org