

# Citações e factores de impacto

## Bibliometrias...

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# Sumário

- Contagem das citações
- Índices e factores de impacto
- Gestão de referências bibliográficas
- Prática *hands-on*

# Publicação

- Publicar, validar pelos pares, são aspectos essenciais da investigação científica hoje
- A originalidade de uma investigação demonstra-se através da partilha dos resultados junto da comunidade científica
- A divulgação dos resultados é também uma exigência das entidades que financiam a investigação através de dinheiros públicos

# Citações

- A importância dos artigos e das publicações científicas tem-se baseado no número de citações, com mais ou menos restrições
- As métricas baseadas em contagens estão sujeitas a muitos factores que as tornam pouco fiáveis, pois podem ser inflacionadas de muitas maneiras - citação com citação se paga

# Importância das citações

- Este assunto é crítico na medida em que assuntos como a progressão nas carreiras científicas ou o financiamento de projectos de investigação dependem destes índices
- Até há pouco tempo, a contagem das citações estava nas mãos de duas organizações
  - [Web of Knowledge](#), da Thomson Reuters (ex-ISI)
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- As universidades e instituições de I&D
- As agencias financiadoras
- Em Portugal, o acesso a estas bases de dados tem sido assegurado pela FCT
- As citações estão também ligadas aos *rankings* das universidades, à universidade como negócio

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# O grande círculo

- Uma universidade quer ficar bem colocada num ranking
- Então só financia a publicação em jornais e a ida a conferências que contribuam para esse ranking
- O acesso a estes jornais e a participação nestas conferências fica mais difícil

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Author Keywords: intelligent manufacturing control; holonic manufacturing systems; factory automation

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(2012)*Journal of Intelligent Manufacturing*

Mendes, J.M., Leitão, P., Colombo, A.W., Restivo, F.  
**High-level Petri nets for the process description and control in service-oriented manufacturing systems**  
(2012)*International Journal of Production Research*

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Feldmann, S., Loskyll, M., Rösch, S., Schlick, J., Zuhlke, D., Vogel-Heuser, B.  
**Increasing agility in engineering and runtime of automated manufacturing systems**



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3	<input type="checkbox"/> 2008 Implementation of a holonic cont...	11	11	5	1	17		28
4	<input type="checkbox"/> 2008 A holonic approach to dynamic ma...	8	3	5	2	10		18
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7	<input type="checkbox"/> 2003 An approach to the formal specif...	7	1		1	2		9
8	<input type="checkbox"/> 2009 Service-oriented agents for coll...	1	2	3		5		6
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- Os jornais e as conferências indexadas têm de satisfazer requisitos rigorosos
- Jornais e conferências indexadas normalmente cobram mais
- Os investigadores e as instituições têm por onde escapar?

# Alternativas

- Estão a aparecer inúmeros jornais de acesso aberto e elevada qualidade
- Há algum tempo que os investigadores têm acesso a soluções sem custo
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## Latest from PLOS

### PLOS Statement on CHORUS

JUNE 6, 2013

A group of largely subscription-based publishers has introduced a proposal that would reduce the US government's efforts to provide access to federally funded research. The proposal, called CHORUS, is a set of principles that the group says will increase public access to peer-reviewed publications. PLOS would like to see details of this proposal, but at first glance it does not appear to offer a better alternative to current open-access vehicles. It requires that readers review documents on the publishers' own website, after a designated embargo period. This process will limit dissemination and make it harder for authors' work to reach new audiences, but more importantly there is no technical mechanism to guarantee that the research will actually become accessible and remain so.


The federal government already supports PubMed Central, a reliable and credible mechanism for providing and guaranteeing long-term access to federally funded work. PubMed Central already provides everything that this new group purports to offer with one major addition – it is an open repository that ensures and preserves access, not reliant on a publisher's website as the sole means of retrieving information. This new proposal claims to use existing infrastructure, but in fact new and complex mechanisms will be required and will be expensive to implement.

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<http://t.co/PtKDzAQ0Q7>

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## ANNOUNCEMENT

Thomson Reuters is pleased to announce that PLoS ONE has been accepted for coverage in the *Science Citation Index Expanded*™ in the *Web of Science*™. The journal will be extracted for *Web of Science* on January 6<sup>th</sup> and some customers will see records as early as January 7<sup>th</sup>.

Coverage of PLoS ONE will start in January 2010 and will include all content from 2008 and 2009. All content from 2006 and 2007 will be added throughout the first months of 2010.

Thomson Reuters coverage and subject specialists followed this title with interest since its 2006 launch. **The increasing numbers of papers published highlighted the adoption of this model of publication by the community and fulfilled the Thomson Reuters standard for regular, timely publication.** Thomson Reuters coverage specialists leveraged the added advantage of being able to track the accumulating citations to materials published in PLoS ONE. Citations are a direct demonstration of the real use of a journal by the scientific community. As of mid-November 2009, over 4,000 items had been cited at least once, with 478 items receiving 10 or more citations. At the completion of the Thomson Reuters evaluation, the journal had received more than 19,000 citations. **Thomson Reuters is confident that this level of user-generated interest confirms that PLoS ONE meets the quality standards necessary for journals indexed in the *Web of Science*.**

The 2009 *Journal Citation Reports*® (available in June 2010) will contain a full report of citation metrics for PLoS ONE, including Journal Impact Factor, 5-year Impact Factor, Eigenfactor® Metrics, as well as the full and detailed reports of cited and

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Welcome to Harzing.com, Anne-Wil Harzing's website.

Anne-Wil is Professor in International Management and a former Associate Dean Research at the University of Melbourne, Australia.

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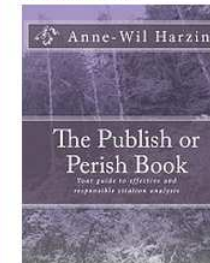
## Recent news

Date	What's new
8 Jun 2013	A new (49th) edition of the <a href="#">Journal Quality List</a> with corrections to the Cranfield and AERES rankings.
7 Jun 2013	<a href="#">Publish or Perish</a> 4.1.2 released, with Google Scholar CAPTCHA support and Microsoft Academic Search
21 May 2013	<a href="#">Online edition of the Publish or Perish Book</a> is now available
1 Apr 2013	My latest book: <a href="#">Jos Harzing: Vader, Opa, Kunstenaar</a> . A tribute to my father's work as a sculptor over the last 70 years.
26 Mar 2013	New version of <a href="#">white paper</a> on norms for the h-index.
9 Feb 2013	New <a href="#">online paper</a> with a longitudinal study of <a href="#">Google Scholar coverage</a> between 2012 and 2013.
5 Feb 2013	A new (48th) edition of the <a href="#">Journal Quality List</a> with updated ESSEC and AERES rankings.
4 Jan 2013	Major update of <a href="#">publications</a> and <a href="#">research programs</a> .
6 Dec 2012	Web site styling refresh
29 Oct 2012	New powerpoint <a href="#">presentation</a> on predatory Open Access.
27 Aug 2012	A new (47th) edition of the <a href="#">Journal Quality List</a> with a new ranking by the Danish ministry.

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## Research Books



Anne-Wil's latest book is [The Publish or Perish Book](#), published by Tarma Software Research in 2010.

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Cites	Per year	Rank	Authors	Title	Year	Publication
<input checked="" type="checkbox"/> h 153	19.13	1	P Leitão, F Restivo	ADACOR: A holonic architecture for agile and adaptiv...	2006	Computers in industr
<input checked="" type="checkbox"/> h 50	5.56	2	P Leitao, AW Colombo, FJ Restivo	ADACOR: a collaborative production automation and ...	2005	Intelligent Systems,
<input checked="" type="checkbox"/> h 40	6.67	3	P Leitão, F Restivo	A holonic approach to dynamic manufacturing schedu...	2008	Robotics and Compu
<input checked="" type="checkbox"/> h 38	6.33	4	P Leitao, FJ Restivo	Implementation of a holonic control system in a flexib...	2008	Systems, Man, and C
<input checked="" type="checkbox"/> h 26	2.36	5	P Leitão, AW Colombo, F Restivo	An approach to the formal specification of holonic co...	2003	Holonic and Multi-Ag
<input checked="" type="checkbox"/> h 25	1.67	6	P Leitão, F Restivo	A layered approach to distributed manufacturing	1999	
<input checked="" type="checkbox"/> h 24	4.00	7	..., P Leitão, AW Colombo, F Restivo	Service-oriented control architecture for reconfigurab...	2008	..., 2008. INDIN 200
<input checked="" type="checkbox"/> h 21	1.50	8	P Leitão, F Restivo	A framework for distributed manufacturing applications	2000	
<input checked="" type="checkbox"/> h 20	1.54	9	..., L Camarinha-Matos, P Leitão, R Boissier, F ...	Integrated and distributed manufacturing, a multi-ag...	2001	
<input checked="" type="checkbox"/> h 19	3.80	11	..., J Pinto, P Leitao, F Restivo...	Software methodologies for the engineering of servic...	2009	... 2009. COMPSAC'
<input checked="" type="checkbox"/> h 18	1.38	28	P Leitão, F Restivo	An agile and cooperative architecture for distributed ...	2001	
<input checked="" type="checkbox"/> h 17	3.40	10	CM Chituc, FJ Restivo	Challenges and trends in distributed manufacturing s...	2009	Second International
<input checked="" type="checkbox"/> h 17	3.40	12	JM Mendes, P Leitão, F Restivo...	Service-oriented agents for collaborative industrial au...	2009	Holonic and Multi-ag
<input checked="" type="checkbox"/> h 17	1.42	13	P Leitão, F Restivo	Agent-based holonic production control	2002	Database and Expert
<input checked="" type="checkbox"/> h 12	1.00	14	P Leitão, F Restivo	Holonic adaptive production control systems	2002	..., IEEE 2002 28th A
<input checked="" type="checkbox"/> h 12	1.20	18	..., R Schoop, P Leitão, F Restivo	A collaborative automation approach to distributed pr...	2004	..., 2004. INDIN'04.
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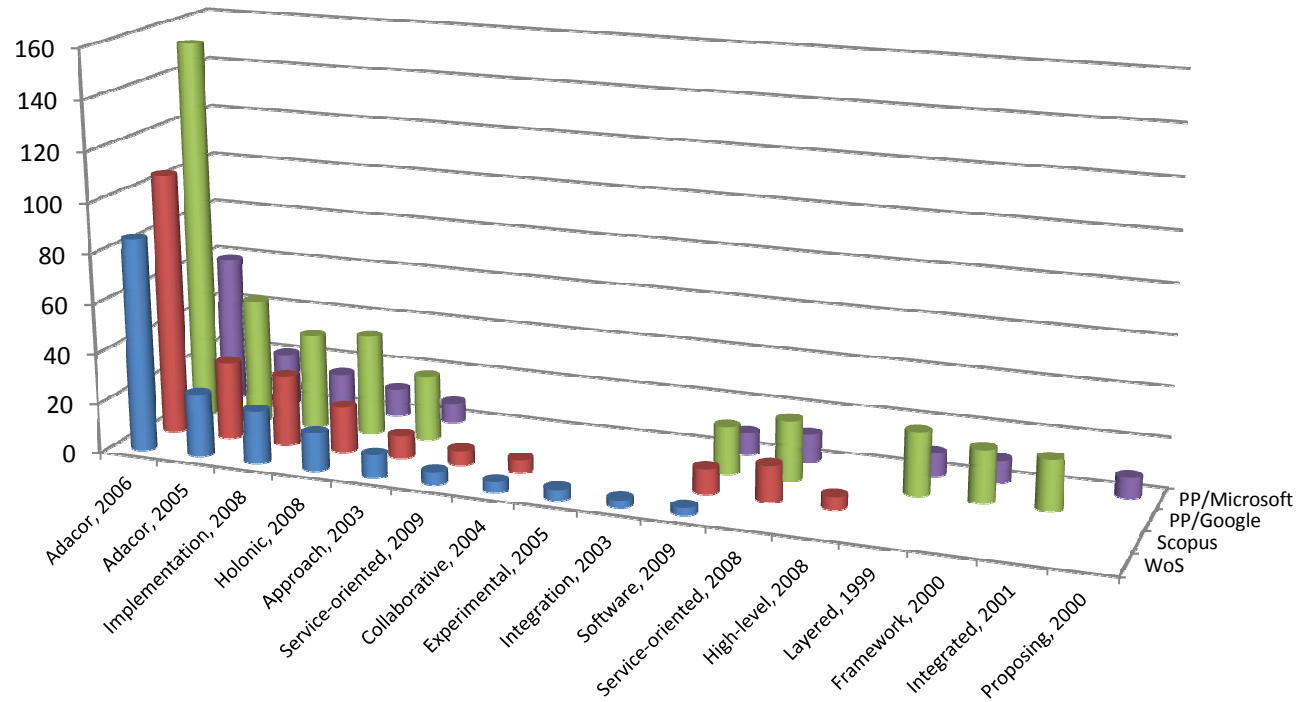
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 Years: 18

Cites	Per year	Rank	Authors	Title	Year	Publication
<input checked="" type="checkbox"/> h 59	7.38	1	Paulo Leitão, Francisco Restivo	ADACOR: A holonic architecture for agile and adaptiv...	2006	Computers in Indust
<input checked="" type="checkbox"/> h 21	2.33	2	Paulo Leitão, Armando W. Colombo, Francisco ...	ADACOR: A Collaborative Production Automation and ...	2005	IEEE Expert / IEEE In
<input checked="" type="checkbox"/> h 15	2.50	3	Paulo Leitão, Francisco J. Restivo	Implementation of a Holonic Control System in a Flexi...	2008	IEEE Transactions or
<input checked="" type="checkbox"/> h 11	1.83	4	M. J. Marco, Paulo Leitão, Armando W. Colomb...	Service-oriented control architecture for reconfigurab...	2008	
<input checked="" type="checkbox"/> h 11	1.83	13	Paulo Leitão, Francisco Restivo	A holonic approach to dynamic manufacturing schedu...	2008	Robotics and Compu
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<input checked="" type="checkbox"/> h 9	0.60	16	Paulo Leitão, Francisco Restivo	A Layered Approach to Distributed Manufacturing	1999	
<input checked="" type="checkbox"/> 8	0.57	5	Joaquim Borges Gouveia, Luís Gouveia, Francis...	PROPOSING A KNOWLEDGE NETWORK TO ASSIST E...	2000	
<input checked="" type="checkbox"/> 8	0.73	7	Paulo Leitão, Armando W. Colombo, Francisco ...	An Approach to the Formal Specification of Holonic C...	2003	
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<input checked="" type="checkbox"/> 7	0.54	8	PAULO LEITÃO, FRANCISCO RESTIVO	AN AGILE AND COOPERATIVE ARCHITECTURE FOR DI...	2001	
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<input checked="" type="checkbox"/> 6	0.00	10	J. M. Mendes, P. J. Leitão, F. J. Restivo, A. W. ...	Engineering of service-oriented automation systems: ...		
<input checked="" type="checkbox"/> 6	0.46	14	José Barata, L. M. Camarinha-Matos, Raymond...	INTEGRATED AND DISTRIBUTED MANUFACTURING, A...	2001	
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<input type="checkbox"/> ADACOR: A holonic architecture for agile and adaptive manufacturing control P Leitão, F Restivo Computers in industry 57 (2), 121-130	153	2006
<input type="checkbox"/> ADACOR: a collaborative production automation and control architecture P Leitao, AW Colombo, FJ Restivo Intelligent Systems, IEEE 20 (1), 58-66	50	2005
<input type="checkbox"/> A holonic approach to dynamic manufacturing scheduling P Leitão, F Restivo Robotics and Computer-Integrated Manufacturing 24 (5), 625-634	40	2008
<input type="checkbox"/> Implementation of a holonic control system in a flexible manufacturing system P Leitao, FJ Restivo Systems, Man, and Cybernetics, Part C: Applications and Reviews, IEEE ...	38	2008
<input type="checkbox"/> An approach to the formal specification of holonic control systems P Leitão, AW Colombo, F Restivo Holonic and Multi-Agent Systems for Manufacturing, 59-70	26	2003
<input type="checkbox"/> A layered approach to distributed manufacturing P Leitão, F Restivo	25	1999
<input type="checkbox"/> Service-oriented control architecture for reconfigurable production systems MJ Marco, P Leitão, AW Colombo, F Restivo Industrial Informatics, 2008. INDIN 2008. 6th IEEE International Conference ...	24	2008
<input type="checkbox"/> A framework for distributed manufacturing applications P Leitão, F Restivo	21	2000
<input type="checkbox"/> Integrated and distributed manufacturing: a multi-agent perspective		

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Co-authors (36)

- Paulo Leitao (Paulo Leitão)
- Armando Walter Colombo
- Joao Marco Mendes
- Luis Manuel Borges Gouveia
- Joaquim Jose Borges Gouveia (Joaquim José Borges Gouveia)



Conferences (11)

- INDIN
- Holonic and Multi-Agent Systems for Manufacturing
- ETFA
- IFIP TC5/WG5.3 Publications
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Journals (5)

- EXPERT
- TSMC
- IJMTM
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Keywords (173)

- Agent Based Control Architecture Control System
- Distributed Manufacturing System
- Distributed System

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Universidade Católica Portuguesa

Publications: 63 | Citations: 259

Fields: Artificial Intelligence, Databases, Hardware & Architecture

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Publications (63)

[Multi-agent systems in education](#)

Dallia Vicente, Jose Vasconcelos, **Francisco Restivo**

Published in 2011.

[Composition of Petri nets models in service-oriented industrial automation](#) (Citations: 1)

J. Marco Mendes, Paulo Leitão, **Francisco Restivo**, Armando W. Colombo

Conference: IEEE International Conference on Industrial Informatics - INDIN, 2010

[Injecting Service-Orientation into Multi-Agent Systems in Industrial Automation](#) View...

J. Marco Mendes, **Francisco Restivo**, Paulo Leitão, Armando W. Colombo

Conference: International Conference on Artificial Intelligence and Soft Computing - ICAISC, pp. 313-320, 2010

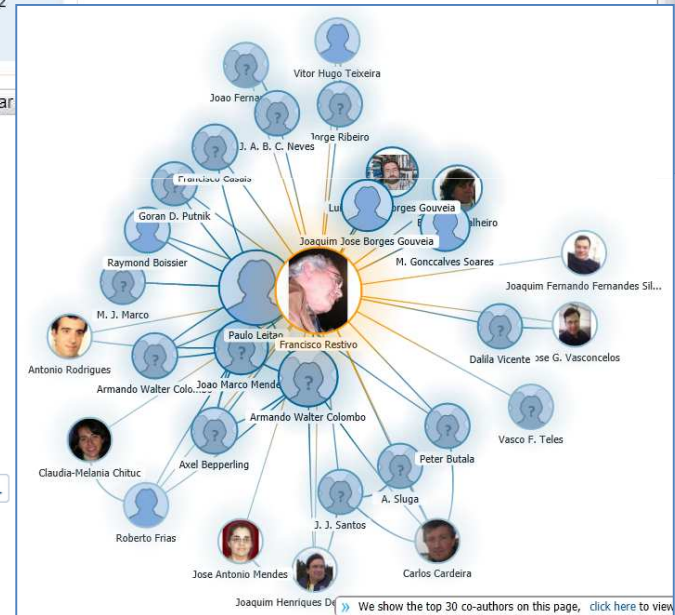
[Petri Net Based Engineering and Software Methodology for Service-Oriented Industrial Automation](#) View...

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- Reconfigurable production control systems: beyond ADACOR**

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Ken Yeung  
Contact Author

4 June 2013

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<p><b>1) Select one or more categories from the list.</b> <a href="#">(How to select more than one)</a></p>	<ul style="list-style-type: none"><li>CLINICAL NEUROLOGY</li><li>COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE</li><li>COMPUTER SCIENCE, CYBERNETICS</li><li>COMPUTER SCIENCE, HARDWARE &amp; ARCHITECTURE</li><li>COMPUTER SCIENCE, INFORMATION SYSTEMS</li><li>COMPUTER SCIENCE, INTERDISCIPLINARY APPLIED</li><li>COMPUTER SCIENCE, SOFTWARE ENGINEERING</li><li>COMPUTER SCIENCE, THEORY &amp; METHODS</li><li>CONSTRUCTION &amp; BUILDING TECHNOLOGY</li></ul>
<p><b>2) Select to view Journal data or aggregate Category data.</b></p>	<p><input checked="" type="radio"/>  <b>View Journal Data</b> - sort by: <input type="text" value="Impact Factor"/></p> <p><input type="radio"/>  <b>View Category Data</b> - sort by: <input type="text" value="Impact Factor"/></p> <p><input type="button" value="SUBMIT"/></p>

- Journal Title
- Total Cites
- Impact Factor
- Immediacy Index
- Current Articles
- Cited Half-Life
- 5-Year Impact Factor
- Eigenfactor<sup>®</sup> Score
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Journals from: subject categories COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE [VIEW CATEGORY SUMMARY LIST](#)

Sorted by: Impact Factor

Journals 1 - 20 (of 111)

Navigation icons: [1 | 2 | 3 | 4 | 5 | 6]

Page 1 of 6

Ranking is based on your journal and sort selections.



Mark	Rank	Abbreviated Journal Title <i>(linked to journal information)</i>	ISSN	JCR Data <sup>i</sup>						Eigenfactor <sup>®</sup> Metrics <sup>j</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="#">IEEE T PATTERN ANAL</a>	0162-8828	22409	4.908	6.085	0.629	194	9.9	0.04884	2.923
<input type="checkbox"/>	2	<a href="#">SIAM J IMAGING SCI</a>	1936-4954	595	4.656	5.045	0.600	45	2.5	0.00727	3.537
<input type="checkbox"/>	3	<a href="#">MED IMAGE ANAL</a>	1361-8415	2995	4.424	4.512	0.554	65	6.5	0.00742	1.336
<input type="checkbox"/>	4	<a href="#">INT J NEURAL SYST</a>	0129-0657	770	4.284	2.574	0.333	36	3.9	0.00142	0.396
<input type="checkbox"/>	5	<a href="#">IEEE T FUZZY SYST</a>	1063-6706	5441	4.260	4.196	0.323	93	7.8	0.01089	1.167
<input type="checkbox"/>	6	<a href="#">INT J COMPUT VISION</a>	0920-5691	8673	3.741	5.428	0.500	88	7.7	0.02513	2.960
<input type="checkbox"/>	7	<a href="#">INTEGR COMPUT-AID E</a>	1069-2509	358	3.451	2.163	0.222	27	3.0	0.00066	0.293
<input type="checkbox"/>	8	<a href="#">IEEE COMPUT INTELL M</a>	1556-603X	313	3.368	2.971	0.125	16	4.1	0.00241	1.263
<input type="checkbox"/>	9	<a href="#">IEEE T EVOLUT COMPUT</a>	1089-778X	4073	3.341	4.736	0.543	46	8.4	0.00877	1.778
<input type="checkbox"/>	10	<a href="#">IEEE T SYST MAN CY B</a>	1083-4419	4780	3.080	3.337	0.297	138	6.2	0.01626	1.306
<input type="checkbox"/>	11	<a href="#">IEEE T IMAGE PROCESS</a>	1057-7149	12063	3.042	3.770	0.378	296	7.3	0.03717	1.610
<input type="checkbox"/>	12	<a href="#">IEEE T NEURAL NETWORKS</a>	1045-9227	8821	2.952	3.370	0.445	209	9.1	0.01657	1.096
<input type="checkbox"/>	13	<a href="#">APPL SOFT COMPUT</a>	1568-4946	2070	2.612	2.860	0.417	545	3.2	0.00688	0.681
<input type="checkbox"/>	14	<a href="#">J MACH LEARN RES</a>	1532-4435	4764	2.561	4.040	0.210	105	6.7	0.02454	2.682
<input type="checkbox"/>	15	<a href="#">KNOWL-BASED SYST</a>	0950-7051	1254	2.422	1.967	0.500	130	3.5	0.00279	0.354
<input type="checkbox"/>	16	<a href="#">IEEE T AUTON MENT DE</a>	1943-0604	100	2.310	2.310	0.083	24	1.9	0.00031	0.402
<input type="checkbox"/>	17	<a href="#">INT J SEMANT WEB INF</a>	1552-6283	134	2.308	1.750	0.083	17	3.0	0.00131	1.050

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- Uma alternativa gratuita aos JCR é o [SCImago Journal & Country Rank](#)
- Usa o algoritmo PageRank e a base de dados Scopus para obter resultados

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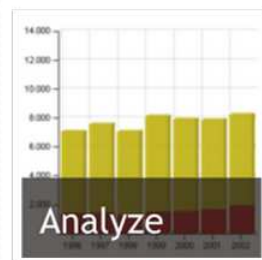
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Journals or Countries



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	Title	SJR	H index	Total Docs. (2011)	Total Docs. (3years)	Total Refs.	Total Cites (3years)	Citable Docs. (3years)	Cites / Doc. (2years)	Ref. / Doc.	Country
1	Journal of Research in Science Teaching	 3,122	57	55	172	3.577	554	160	3,14	65,04	
2	Review of Educational Research	 3,035	66	22	92	2.066	441	85	4,54	93,91	
3	American Educational Research Journal	 3,026	54	41	100	2.946	406	98	3,52	71,85	
4	Journal of Teacher Education	 2,854	33	37	121	1.710	352	114	2,71	46,22	
5	Developmental Review	 2,626	43	11	53	1.723	383	51	3,39	156,64	
6	Learning and Instruction	 2,582	45	71	139	3.226	512	132	4,03	45,44	
7	Science Education	 2,498	52	51	137	2.991	324	134	2,10	58,65	
8	Educational Administration Quarterly	 2,413	29	25	69	1.533	174	69	1,43	61,32	
9	Research in Higher Education	 2,337	37	49	115	2.710	240	110	1,93	55,31	
10	Review of Higher Education	 2,156	25	16	59	920	111	58	1,42	57,50	
11	Educational Researcher	 2,111	40	45	106	1.474	323	95	3,40	32,76	
12	Reading Research Quarterly	 2,094	43	18	55	1.062	169	52	2,74	59,00	
13	Journal of the Learning Sciences	 2,090	44	18	52	1.183	153	45	3,27	65,72	
14	Educational Evaluation and Policy Analysis	 2,070	35	24	58	1.149	134	56	1,89	47,88	
15	Review of Research in Education	 2,069	24	9	35	840	126	34	2,65	93,33	
16	Journal of School Psychology	 2,065	43	43	74	2.480	293	74	2,60	57,67	
17	Computers and Education	 1,933	53	243	723	11.330	3.181	717	4,14	46,63	
18	Contemporary Educational Psychology	 1,933	45	32	96	1.873	332	94	2,89	58,53	
19	Journal of Higher Education	 1,857	37	27	79	1.573	169	79	1,39	58,26	

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in **Journal Title**

Exact phrase

**Journal of Research in Science Teaching**

Country: United States

Subject Area: Engineering | Social Sciences

Subject Category: Education **q1**, Engineering (miscellaneous) **q1**

Publisher: John Wiley and Sons Inc.. Publication type: Journals. ISSN: 10982736, 00224308

Coverage: 1996-2012

H Index: 57

Scope:

Journal of Research in Science and Teaching, the official journal of the National Association for Research in Science Teaching [...]

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**Journal of Research in Science Teaching**

Indicator	2004-2011	Value
SJR		3.12
Cites per doc		3.14
Total cites		554

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**SJR indicator vs. Cites per Doc (2y)**

Charts Data

Year	SJR	Cites per Doc
1999	1.1	2.3
2000	1.2	1.5
2001	0.9	1.6
2002	1.3	2.2
2003	1.1	1.1
2004	1.2	1.9
2005	1.5	2.2
2006	1.6	2.0
2007	1.7	2.4
2008	1.5	2.2
2009	2.7	2.9
2010	3.0	3.0
2011	3.12	3.14

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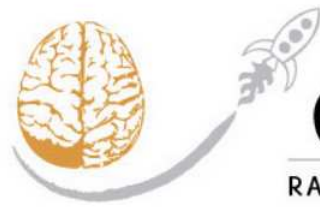
	Country	Documents	Citable documents	Citations	Self-Citations	Citations per Document	H index
1	United States	6,149,455	5,738,593	114,546,415	54,226,872	20,51	1,305
2	China	2,248,278	2,226,529	9,288,789	5,014,506	6,00	353
3	United Kingdom	1,711,878	1,550,373	27,919,060	6,703,673	18,03	802
4	Japan	1,604,017	1,563,732	18,441,796	5,520,032	12,09	602
5	Germany	1,581,429	1,490,140	23,229,085	6,171,727	16,19	704
6	France	1,141,005	1,073,718	16,068,688	3,749,874	15,58	646
7	Canada	885,197	836,836	13,928,114	2,727,913	18,19	621
8	Italy	851,692	803,004	11,279,167	2,639,721	15,00	550
9	Spain	665,977	623,236	7,640,544	1,958,835	13,66	448
10	India	634,472	602,868	3,860,494	1,335,686	7,71	281
11	Australia	592,533	551,667	8,180,664	1,770,774	16,65	481
12	Russian Federation	527,442	521,993	2,811,862	837,763	5,49	308
13	South Korea	497,681	487,459	3,988,716	917,147	10,32	309
14	Netherlands	487,784	457,933	8,928,850	1,524,755	20,82	545
15	Brazil	391,589	378,540	2,884,793	965,615	9,96	285
16	Taiwan	351,610	343,223	2,825,736	696,835	10,08	249
17	Switzerland	350,253	329,198	6,873,551	966,536	22,46	537
18	Sweden	337,135	321,725	6,111,804	1,005,775	19,78	484
19	Poland	304,003	297,361	2,149,143	571,333	8,13	281
20	Turkey	267,902	253,876	1,647,043	449,410	7,92	193
21	Belgium	265,913	251,632	4,161,308	630,041	17,81	428
22	Israel	204,262	194,752	3,283,119	483,335	17,35	393
23	Austria	188,440	177,324	2,688,324	387,884	16,51	355
24	Denmark	183,880	173,771	3,444,509	514,632	21,17	399
25	Finland	170,476	165,195	2,771,982	462,377	18,28	352
26	Greece	160,760	152,000	1,589,963	289,460	11,93	247
27	Iran	159,046	154,748	657,186	269,132	8,13	121
28	Mexico	144,997	140,713	1,174,802	259,075	9,83	216
29	Hong Kong	144,935	139,331	1,722,546	262,368	13,52	268
30	Czech Republic	142,090	137,882	1,103,719	272,685	9,14	223
31	Norway	141,143	133,311	2,021,938	339,172	17,19	308
32	Singapore	126,881	122,436	1,330,684	191,033	12,51	240
33	Portugal	117,469	113,411	1,150,280	234,405	12,77	218
34	New Zealand	114,495	107,441	1,504,946	248,529	15,43	264
35	South Africa	107,976	101,434	1,013,102	225,507	11,11	216
36	Argentina	105,216	101,695	1,027,553	230,483	11,11	206
37	Hungary	100,137	96,842	1,058,391	182,169	11,57	239

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- Basicamente, não se contam apenas as citações, mas atende-se à qualidade de cada uma

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- Entre outros, os investigadores West e Bergstrom, na Universidade de Washington, têm estudado este assunto intensamente
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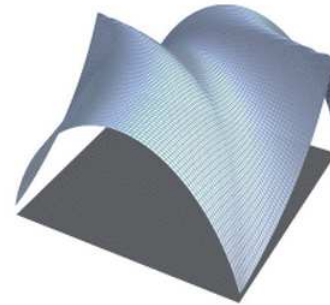
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# Carl T. Bergstrom

## Theoretical and Evolutionary Biology

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**October 22, 2012.** Our JSTOR gender composition [browser](#) illustrates gender patterns of authorship across nearly two million papers in the sciences, social sciences, and humanities.

[octavia.zoology.washington.edu](http://octavia.zoology.washington.edu)

# Gestão de referências bibliográficas

- Hoje os investigadores usam ferramentas colaborativas como [Zotero](#) e [Mendeley](#)
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- Pequena curva de aprendizagem e enormes ganhos futuros

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## REPORT

## Emergence of Scaling in Random Networks

Albert-László Barabási\*, Réka Albert

Author Affiliations

## ABSTRACT

Systems as diverse as genetic networks or the World Wide Web are best described as networks with complex topology. A common property of many large networks is that the vertex connectivities follow a scale-free power-law distribution. This feature was found to be a consequence of two generic mechanisms: (i) networks expand continuously by the addition of new vertices, and (ii) new vertices attach preferentially to sites that are already well connected. A model based on these two ingredients reproduces the observed stationary scale-free distributions, which indicates that the development of large networks is governed by robust self-organizing phenomena that go beyond the particulars of the individual systems.

\* To whom correspondence should be addressed. E-mail: [alb@nd.edu](mailto:alb@nd.edu)

Received for publication 24 June 1999.

Accepted for publication 2 September 1999.



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## From bibliometrics to altmetrics A changing scholarly landscape

Robin Chin Roemer and Rachel Borchardt

Author Affiliations

When future Science Citation Index founder Eugene Garfield first came up with the idea of journal impact factor in 1955, it never occurred to him “that it would one day become the subject of widespread controversy.”<sup>1</sup>

Today, techniques for measuring scholarly impact—traditionally known as bibliometrics—are well known for generating conflict and concern, particularly as tenure-track scholars reach beyond previously set boundaries of discipline, media, audience, and format. From the development of more nuanced academic specialties to the influence of blogs and social media, questions about the scope of scholarly impact abound, even as the pressure to measure such impact continues unabated or increases.

As faculty at universities around the world struggle to find new ways of providing evidence of their changing scholarly value, many librarians have stepped forward to help negotiate the landscape of both traditional impact metrics, such as h-index and journal impact factor, and emerging Web-based alternatives, sometimes called *altmetrics*, *cybermetrics*, or *webometrics*. With interest in online venues for scholarly communication on the rise, and the number of tools available for tracking online influence growing steadily, librarians are in a key position to take the lead in bolstering researchers’ knowledge of current trends

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November 2012  
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 vol. 73 no. 10 596-600

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