



REUTERS/Kevin Coombs

# Journal Citation Reports

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THOMSON REUTERS

# Introduction

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- JCR distills citation trend data for over 10,000 journals from more than 25 million cited references indexed every year
- Science Edition and Social Science Edition released annually (summer)
- No Arts and Humanities edition
- All journals in JCR appear in Web of Science

## Uses of the JCR

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What do librarians, researchers, and publishers do with the JCR?

- Discover highest-impact journals
- Develop and manage journal collections
- Compare a custom selection of journals
- Find related journals
- Identify review journals
- View citation information for subject categories

# JCR Metrics

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- Impact Factor
  - Five year Impact Factor
  - Impact factor controlled for self citations
  - Immediacy Index
  - Rank in Category
  - Cited/Citing Half-Life
  - Eigenfactor™ Metrics
    - Eigenfactor™ Score
    - Article Influence
- <http://eigenfactor.org/>

# Using the JCR Wisely

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- Indicates factors that affect JCR data
- Highlights conditions that may affect journals' ranking and impact factor

## Journal Citation Reports

### Using Journal Citation Reports Wisely

You should not depend solely on citation data in your journal evaluations. Citation data are not meant to replace informed peer review. Careful attention should be paid to the many conditions that can influence citation rates such as language, journal history and format, publication schedule, and subject specialty.

The number of articles given for journals listed in JCR include primarily original research and review articles. Editorials, letters, news items, and meeting abstracts are usually not included in article counts because they are not generally cited. Journals published in non-English languages or using non-Roman alphabets may be less accessible to researchers worldwide, which can influence their citation patterns. This should be taken into account in any comparative journal citation analysis.

You should also consider the following four conditions, which may affect journal's ranking and Impact Factor.

## Notices File

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- Link from the JCR home screen
- Provides updates on data or interface changes
- Click button from home page, or visit:
  - [http://admin-apps.webofknowledge.com/JCR/static\\_html/notices/notices.htm](http://admin-apps.webofknowledge.com/JCR/static_html/notices/notices.htm)



# Impact Factor

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## Journal Impact Factor ⓘ

Cites in 2012 to items published in:	2011 = 642	Number of items published in:	2011 = 139
	2010 = 624		2010 = 154
	Sum: 1266		Sum: 293
Calculation:	$\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{1266}{293} = 4.321$		

Thomson Reuters calculates the impact factor by:

dividing the number of citations in 2012 to articles published in previous two years (2010-2011) by the total number of articles published in the previous two years (2010-2011).

# Five-Year Impact Factor

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## 5-Year Journal Impact Factor ⓘ

Cites in {2012} to items published in:	2011 = 642	Number of items published in:	2011 = 139
	2010 = 624		2010 = 154
	2009 = 528		2009 = 156
	2008 = 811		2008 = 173
	2007 = 653		2007 = 188
	Sum: 3258		Sum: 810
Calculation:	<u>Cites to recent items</u>	<u>3258</u>	<b>= 4.022</b>
	Number of recent items	810	

Calculated similarly to the traditional Impact Factor: the number of citations in 2012 to articles published in previous five years (2007-2011) by the total number of articles published in the previous two years (2007-2011).



# Journal Self-Cites

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## Journal Self Cites ⓘ

The tables show the contribution of the journal's self cites to its impact factor. This information is also represented in the [cited journal graph](#).

Total Cites	6602	Self Cites	326 (4% of 6602)
Cites to Years Used in Impact Factor Calculation	1133	Self Cites to Years Used in Impact Factor Calculation	47 (4% of 1133)
Impact Factor	5.395	Impact Factor without Self Cites	5.171

This table provides the ability to easily compare self-citation rates among journals. The Impact Factor (2-year) is recalculated to exclude self-cites. The self-citation percentage is also included.

# Immediacy Index

Calculated by dividing the number of citations to articles published in a year (2012) by the total number of articles published in that year (2012).

## 5-Year Journal Impact Factor

Cites in {2012} to items published in:

2011 = 642	Number of ite
2010 = 624	
2009 = 528	
2008 = 811	
2007 = 653	
Sum: 3258	

2010	
2009	
2008	3
2007	188
Sum:	810

Calculation:  $\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{3258}{810} = 4.022$

Tells you how often articles published in a journal are cited during their year of publication

This can be an indication of how “hot” a journal is

# Cited Half Life

## Journal Cited Half-Life ⓘ

The cited half-life for the journal is the median age of its items cited in the current

**Cited Half-Life: 6.7 years**

Half of the citations received in 2008 were to articles published in 2002/2003 or later

Breakdown of the citations *to the journal* by the cumulative percent of 2008 cites to items published in the following years:

Cited Year	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998-all
# Cites from 2008	141	559	574	786	480	367	670	477	473	566	1559
Cumulative %	2.14	10.60	19.30	31.20	37.72	43.27	53.42	60.65	67.81	76.39	100

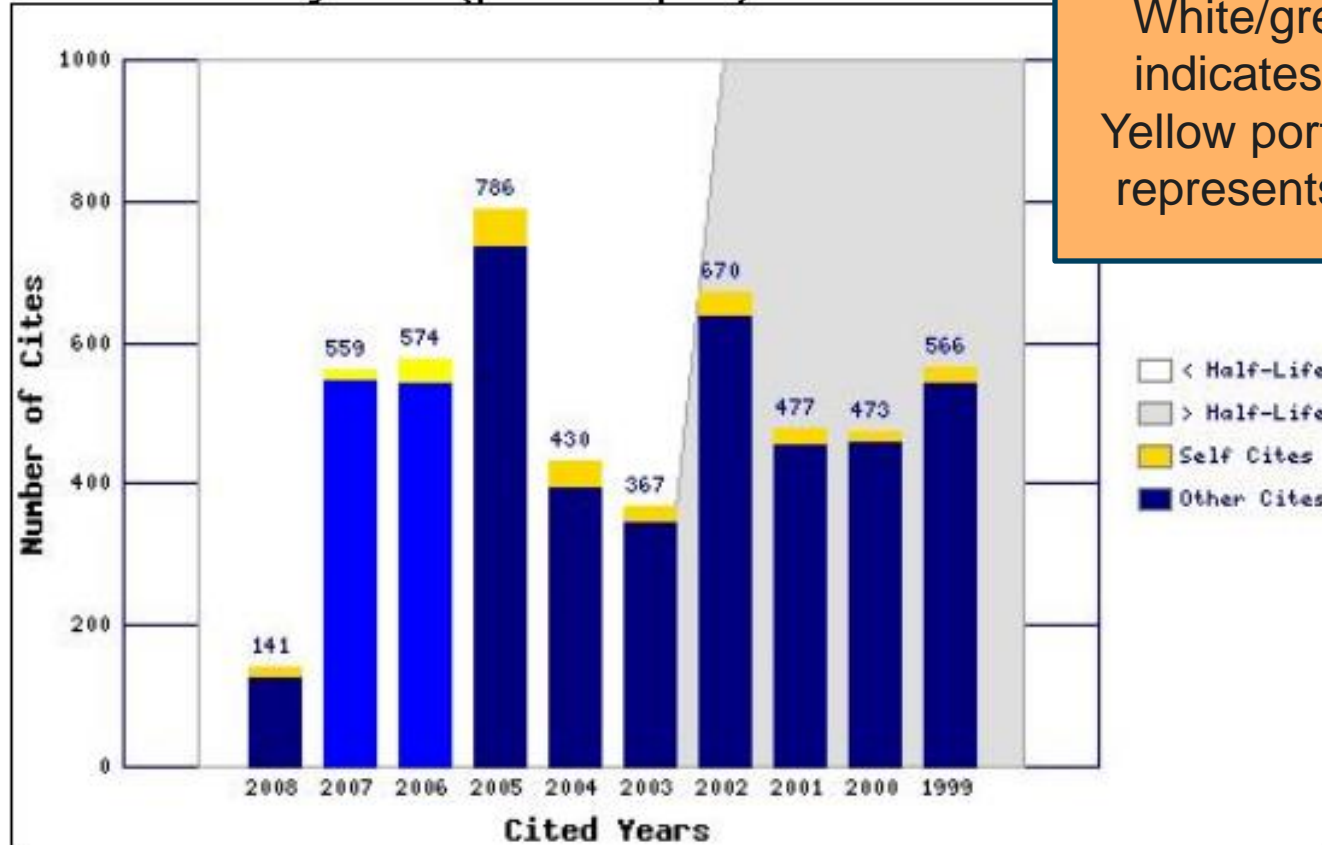
### Cited Half-Life Calculations:

The cited half-life calculation finds the number of publication years from the current JCR year that account for 50% of citations in the calculation.

- Median age of the articles published in this journal that were cited in 2008

# Cited Journal Graph

Citations to the journal (per cited year)



# Citing Half Life

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## Journal Citing Half-Life

The citing half-life for the journal is the median age of the items the journal cites. The citing half-life is the number of years from the current JCR year that account for 50% of citations calculation.

**Citing Half-Life: 7.4 years**

Over half of the articles *cited* by the selected journal were published in 2001/2002 or later.

Breakdown of the citations *from the journal* by the cumulative percent of 2008 cites to items published in the following years:

Cited Year	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998-all
# Cites from 2008	25	160	521	631	618	596	532	530	439	440	2120
Cumulative %	0.38	2.80	10.68	20.22	29.57	38.58	46.63	54.64	61.28	67.94	100

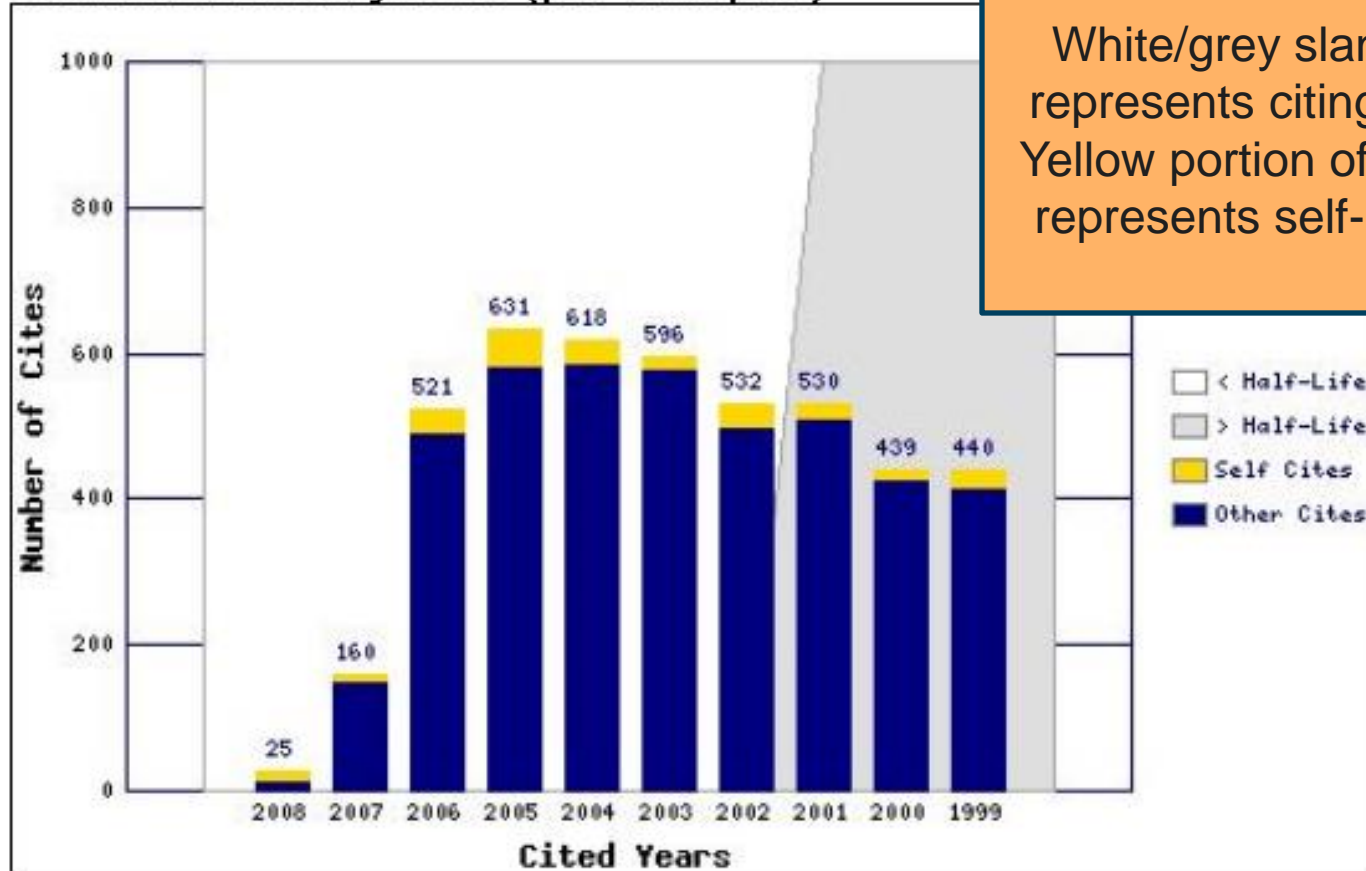
### Citing Half-Life Calculations:

The citing half-life calculation finds the number of publication years from the current JCR year that account for 50% of citations calculation.

- Median age of articles cited by the selected journal in its article references

# Citing Journal Graph

Citations from the journal (per cited year)



# Source Data

Review articles are often more highly cited than original research article: *consider a journal's source data by document type.*

Journal Source Data ⓘ

	Citable items			Other items
	Articles	Reviews	Combined	
<b>Number in JCR year 2012 (A)</b>	117	25	142	8
<b>Number of references (B)</b>	4824	2042	6866	66.00
<b>Ratio (B/A)</b>	41.2	81.7	48.4	8.2

Tallies the number of original research and review articles published in the current year (2012)

Also tallies the number of references published by the selected journal in the current year

Other Items = document types not included in the number of citable items published by this journal (e.g. letters, news items, editorials, etc)

## Eigenfactor™ Metrics: Eigenfactor™ and Article Influence™

- Complement Impact Factor and other JCR metrics by providing a **broader perspective** on journal influence through specific measures now widely accepted by the scholarly community.
- Metrics developed through The Eigenfactor Project™, a non-commercial academic research project sponsored by the Bergstrom lab in the Department of Biology at the University of Washington.

[www.eigenfactor.org](http://www.eigenfactor.org)

Mark	Rank	Abbreviated Journal Title <i>(linked to journal information)</i>	ISSN	JCR Data ⓘ						Eigenfactor™ Metrics ⓘ	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor™ Score	Article Influence™ Score
☐	1	<a href="#">EARTH PLANET SC LETT</a>	0012-821X	26488	3.873	4.445	0.563	503	8.3	0.12507	2.422
☐	2	<a href="#">GEOCHIM COSMOCHIM AC</a>	0016-7037	32873	3.665	4.419	0.719	395	>10.0	0.08079	1.939
☐	3	<a href="#">CHEM GEOL</a>	0009-2541	12562	3.231	4.146	0.500	254	8.5	0.04291	1.768
☐	4	<a href="#">GEOPHYS J INT</a>	0956-540X	10960	2.112	2.370	0.438	402	9.5	0.04057	1.179
☐	5	<a href="#">GEOCHEM GEOPHY GEOSY</a>	1525-2027	2926	2.354	2.933	0.401	172	4.1	0.03249	1.744

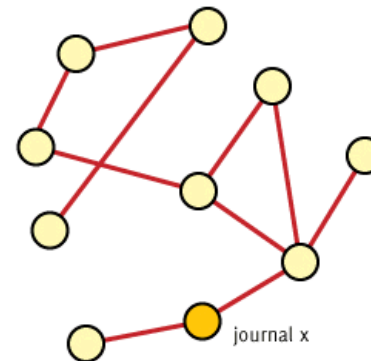
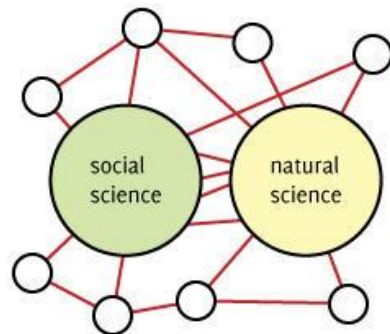




# Eigenfactor™ Score

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- Defined as **the percentage** of the **total weighted citations** that a journal receives from all source journals within the JCR.
- Algorithm uses the structure of the entire network to evaluate the importance of each journal, cutting across **all disciplines**. Self-citations are excluded.
- Calculations take into consideration a 5-year span of citation activity utilizing data from the *Journal Citation Reports*.
- **Journals are considered to be influential if they are cited often by other influential journals.**
- Corresponds to a model of research in which readers follow chains of citations as they move from journal to journal.



# Article Influence™ Score

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- Measures the average influence of individual articles appearing in the same journal.
- Calculated by dividing a journal's *Eigenfactor* Score by the number of articles in the journal.
- More similar to the Impact Factor than Eigenfactor Score.
- Like Eigenfactor Score, Article Influence Score:
  - Uses the structure of the entire citation network to evaluate the importance of each journal, based on **JCR** data.
  - Does not consider self-citations
- The mean *Article Influence* Score is 1.00.

# Journal Rank in Category

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## Journal Ranking ⓘ

For **2008**, the journal **HUMAN BRAIN MAPPING** has an Impact Factor of **5.395**.

This table shows the ranking of this journal in its subject categories based on Impact Factor.

Category Name	Total Journals in Category	Journal Rank in Category	Quartile in Category
NEUROIMAGING	12	2	Q1
NEUROSCIENCES	219	30	Q1
RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING	90	4	Q1

The rank in category table displays each category assigned to the journal and the journal's rank in each based on Impact Factor.

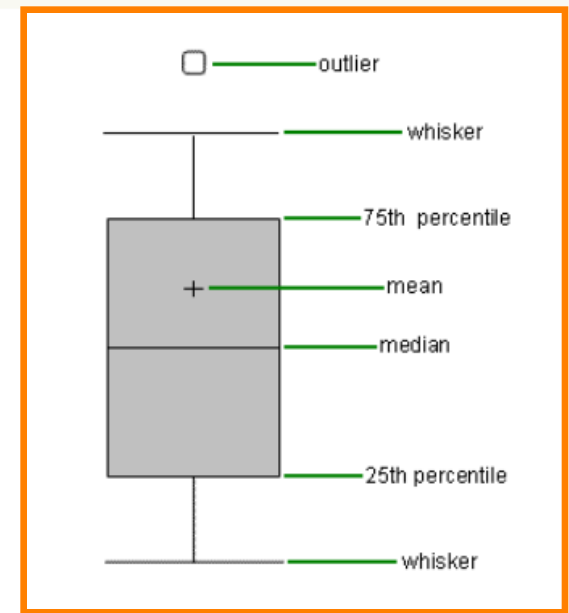
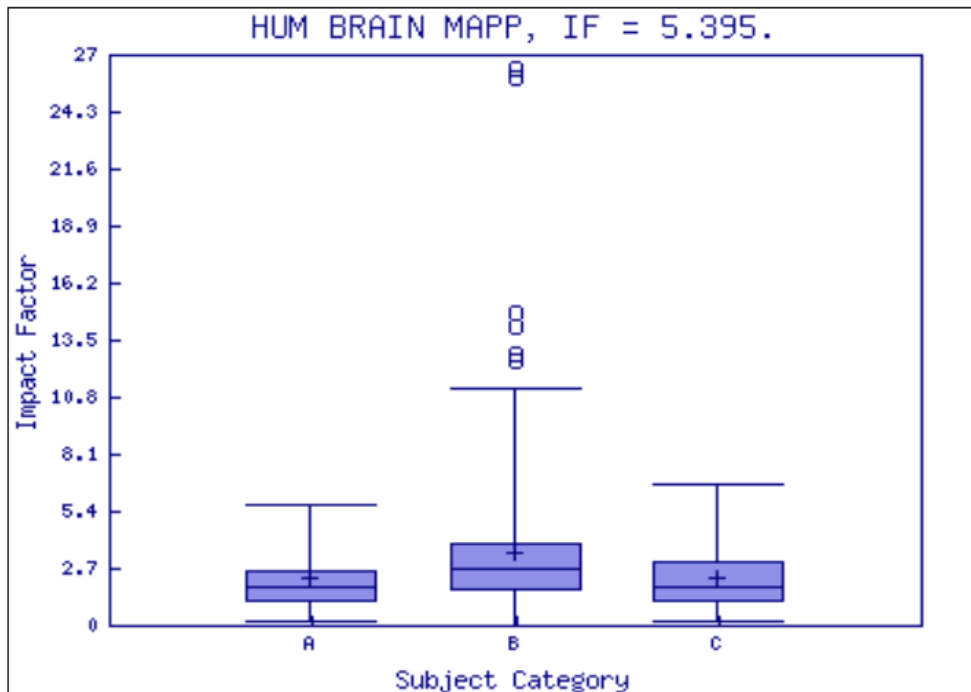


# Journal Rank in Category – Box Plot

## Category Box Plot

For **2008**, the journal **HUMAN BRAIN MAPPING** has an Impact Factor of **5.395**.

This is a box plot of the subject category or categories to which the journal has been assigned. It provides information about the distribution of journals based on Impact Factor values. It shows median, 25th and 75th percentiles, and the extreme values of the distribution.



### Key

A - NEUROIMAGING

B - NEUROSCIENCES

C - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING

# More data from the Full Record

## Journal Citation Reports®

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[HELP](#)
[RETURN TO LIST](#)
[PREVIOUS JOURNAL](#)
[NEXT JOURNAL](#)

2008 JCR Science Edition

### Journal: HUMAN BRAIN MAPPING

Mark	Journal Title	ISSN	Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Citable Items	Cited Half-life	Citing Half-life
<input type="checkbox"/>	<a href="#">HUM BRAIN MAPP</a>	1065-9471	6602	<a href="#">5.395</a>	<a href="#">6.022</a>	<a href="#">1.205</a>	117	<a href="#">6.7</a>	<a href="#">7.4</a>

[Cited Journal](#)
[Citing Journal](#)
[Source Data](#)
[Journal Self Cites](#)



[CITED JOURNAL DATA](#)
[CITING JOURNAL DATA](#)
[IMPACT FACTOR TREND](#)
[RELATED JOURNALS](#)

### Journal Information

**Full Journal Title:** HUMAN BRAIN MAPPING  
**ISO Abbrev. Title:** Hum. Brain Mapp.  
**JCR Abbrev. Title:** HUM BRAIN MAPP  
**ISSN:** 1065-9471  
**Issues/Year:** 12  
**Language:** ENGLISH  
**Journal Country/Territory:** UNITED STATES  
**Publisher:** WILEY-LISS  
**Publisher Address:** DIV JOHN WILEY & SONS INC, 111 RIVER ST, HOBOKEN, NJ 07030  
**Subject Categories:** NEUROSCIENCES

[SCOPE NOTE](#)
[VIEW JOURNAL SUMMARY LIST](#)
[VIEW CATEGORY DATA](#)

**NEUROIMAGING**
[SCOPE NOTE](#)
[VIEW JOURNAL SUMMARY LIST](#)
[VIEW CATEGORY DATA](#)

**RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING**
[SCOPE NOTE](#)
[VIEW JOURNAL SUMMARY LIST](#)

[VIEW CATEGORY DATA](#)

**Eigenfactor™ Metrics**  
**Eigenfactor™ Score**  
 0.02387  
**Article Influence™ Score**  
 2.387

**Additional Links**  
[GO TO ULRICH'S](#)  
[GO TO CC CONNECT](#)  
 Holdings [GO](#)

Journal Rank in Categories: [JOURNAL RANKING](#)

# Cited Journal Data

ISI Web of Knowledge<sup>SM</sup>

Journal Citation Reports<sup>®</sup>

WELCOME HELP RETURN TO JOURNAL

2008 JCR Science Edition

**Cited Journal: HUMAN BRAIN MAPPING**

Number of times articles published in 2008 (in journals below) cited articles published in HUM BRAIN MAPP (in years below). ([How to read this table](#))

References to all older articles.

Journals 1 - 20 (of 438)

[ 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ]

Page 1 of 22

Impact	Citing Journal	Cited Year											
		All Yrs	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	Rest
	All Journals	6602	141	559	574	786	430	367	670	477	473	566	1559
5.694	<a href="#">NEUROIMAGE</a>	1074	15	109	100	104	45	72	11	72	75	104	265
5.395	<a href="#">HUM BRAIN MAPP</a>	326	15	13	34	52	36	21	3	21	14	26	59
	ALL OTHERS (252)	252	2	24	13	30	14	25	2	22	28	21	46
5.907	<a href="#">CEREB CORTEX</a>	222	0	18	22	30	11	8		14	9	26	59
4.074	<a href="#">NEUROPSYCHOLOGIA</a>	214	3	16	19	30	16	12		16	24	17	41
2.494	<a href="#">BRAIN RES</a>	166	4	15	12	15	10	11		12	13	16	37
4.867	<a href="#">J COGNITIVE NEUROSCI</a>	164	1	7	11	18	10	5		18	8	22	56
7.452	<a href="#">J NEUROSCI</a>		8	16	15	11	4	6		4	10	19	39
1.871	<a href="#">MAGN RESON IMAGING</a>	79		5	4	4	5						29
9.603	<a href="#">BRAIN</a>												21
2.972	<a href="#">CLIN NEUROPHYSIOL</a>												6
2.020	<a href="#">BRAIN LANG</a>												16
											11	5	19

A list of journals which have cited Human Brain Mapping within 2008

Publication year of cited article.

# Citing Journal Data

ISI Web of Knowledge<sup>SM</sup>

Journal Citation Reports<sup>®</sup>

WELCOME HELP RETURN TO JOURNAL

2008 JCR Science Edition

## Citing Journal: HUMAN BRAIN MAPPING

Number of times articles published in journals below (in years below) were cited in HUM BRAIN MAPP in 2008. ([How to read this table](#))

Journals 1 - 20 (of 349)

Navigation icons: Home, Previous, Next, First, Last, and page numbers 1-10.

Page 1 of 18

Impact	Cited Journal	Cited Year											
		All Yrs	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	Rest
	All Journals	6612	25	160	521	631	618	596	532	530	439	440	2120
5.694	<a href="#">NEUROIMAGE</a>	948	5	37	149	133	141	116	115	58	50	56	88
	ALL OTHERS (563)	563	1	11	33	39	38	33	38	8	24	31	277
5.395	<a href="#">HUM BRAIN MAPP</a>	326	15	13	34	52	36	21	35		14	26	59
9.380	<a href="#">P NATL ACAD SCI USA</a>	228	0	7	17	34	17	26	13		14	8	65
9.603	<a href="#">BRAIN</a>	191	0	2	4	13	7	19	22		14	17	81
7.452	<a href="#">J NEUROSCI</a>	189	0	1	23	25	20	23	16		2	7	52
3.449	<a href="#">MAGN RESON MED</a>	171	0	0	1	9	11	8					
5.907	<a href="#">CEREB CORTEX</a>	168	0	13	14	22	12	20					
4.867	<a href="#">J COGNITIVE NEUROSCI</a>	127	0	1	16	8	20	24					
2.972	<a href="#">CLIN NEUROPHYSIOL</a>	116											
4.074	<a href="#">NEUROPSYCHOLOGIA</a>												
3.648	<a href="#">J NEUROPHYSIOL</a>	112							8	13	10	5	43
1.994	<a href="#">NEUROREPORT</a>	106							12	13	13	9	32
		106									4	6	50

The publication year of the articles being cited

A list of journals that Human Brain Mapping has cited in 2008.

# Impact Factor Trend Graph

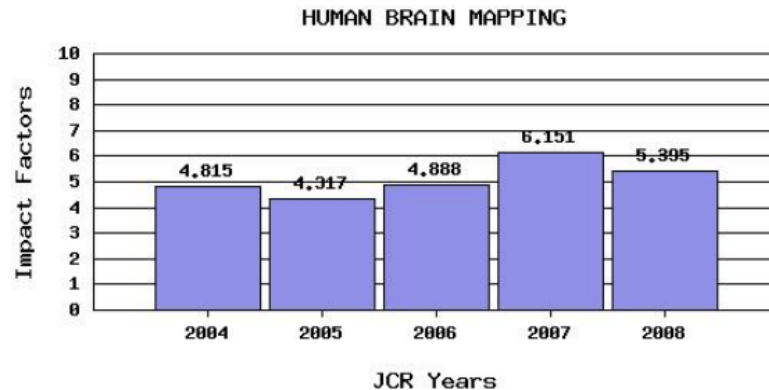
Journal Citation Reports®



2008 JCR Science Edition

## Impact Factor Trend Graph: HUMAN BRAIN MAPPING

Click on the "Return to Journal" button to view the full journal information.



*\*Impact Factor -- see below for calculations*

The journal impact factor is a measure of the frequency with which the "average article" in a journal has been cited in a particular year. The impact factor will help you evaluate a journal's relative importance, especially when you compare it to others in the same field. For more bibliometric data and information on this and other journal titles click on the "Return to Journal" button.

NOTE: Title changes and coverage changes may result in no impact factor for one or more years in the above graph.

- Indicates Impact Factor over a period of five years
- Entry point into JCR from Web of Science



# Related Journals

**Journal Citation Reports®**

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**2008 JCR Science Edition**

**Related Journals: HUMAN BRAIN MAPPING**

Journal Relatedness is based on the strength of cited and citing relationships.  
 The table below lists journal(s) that likely cover topics related to those covered in HUM BRAIN MAPP.  
[More information about these calculations.](#)

Sorted by: R max SORT AGAIN

Journals 1

Page 1 of 8

R <sub>max</sub>	Related journal (j)	Relatedness (R)	
		HUM BRAIN MAPP to j	j to HUM BRAIN MAPP
372.48	<a href="#">HUM BRAIN MAPP</a>	372.48	372.48
212.27	<a href="#">BRAIN TOPOGR</a>	168.89	212.27
208.15	<a href="#">NEUROIMAGE</a>	177.10	208.15
166.96	<a href="#">MAGN RESON IMAGING</a>	26.45	166.96
158.12	<a href="#">COGN AFFECT BEHAV NE</a>	94.81	158.12
139.23	<a href="#">ANNU REV NEUROSCI</a>		9.55
125.40	<a href="#">J COGNITIVE NEUROSCI</a>		115.56
124.85	<a href="#">IEEE T MED IMAGING</a>		124.85
121.55	<a href="#">BRAIN LANG</a>		51.27
108.41	<a href="#">NAT REV NEUROSCI</a>		18.92

These journals have a subject relationship to the journal Human Brain Mapping based on citations given or received.

## Relatedness: Journal Level

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- Considers bi-directional citation pairs:

Journal  $i$  cites Journal  $j$

AND

Journal  $j$  cites Journal  $i$

- The specific relatedness calculation we are using was developed by *Garfield and Pudovkin (2002)*. “Algorithmic procedure for finding semantically related journals.” *JASIST* 53: 1113-1119.



# Category Level Data

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## Median Impact Factor

- The Impact Factor mid-point for journals in the category.
- 50% of journals rank above, 50% rank below.

## Aggregate Impact Factor

- Citation rate of the “average” article in a subject category
- Use as benchmarking tool to compare a journal to its overall subject category.

# Marked List Output Options

Journal Citation Reports®



MARKED JOURNAL LIST

Sorted by: Journal Title

	2007	Impact	Immediacy	2007	Cited			
A10								
	A	B	C	D	E	F	G	H
1	JCR Year and Edition: 2007 Science							
2								
3	Abbreviated Journal Title	ISSN	2007 Total Cites	Impact Factor	Immediacy Index	2007 Articles	Cited Half-Life	
4	AM J NEURORADIOL	0195-6108	11928	2.338	0.3	390	6.8	
5	COGNITIVE BRAIN RES	0926-6410	3832	3.769		0	4.9	
6	HUM BRAIN MAPP	1065-9471	5685	6.151	0.868	121	6.5	
7	J NEUROIMAGING	1051-2284	891	1.625	0.342	73	4.8	
8	NEUROIMAGE	1053-8119	26201	5.457	0.9	677	4.3	
9								
10								
11								

Print your list  
(using your browser's  
Print function)

Or save as a text  
file which can be  
imported into a  
spreadsheet

# Want more information?

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- Master Journal List
  - <http://science.thomsonreuters.com/mjl/>
- Essays on citation analysis
  - [http://thomsonreuters.com/products\\_services/science/free/essays/](http://thomsonreuters.com/products_services/science/free/essays/)
- Training Opportunities
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