



Métricas



Fator de Impacto



Fator de impacto (FI)

- Também chamado de Impact Factor (IF);
- É a média de citações que recebem os artigos publicados em um determinado periódico científico;
- É atribuído pelo Journal Citation Reports (JCR) para comparar periódicos de uma mesma área do conhecimento;
- Anualmente o JCR, apresenta a atualização do Fator de Impacto de periódicos científicos de todo o mundo; Conta com mais de 11.600 títulos, de 234 áreas e de 80 países.



Origem

- 1955 - em artigo publicado na Science, por Eugene Garfield, intitulado *"Citation indexes for science: a new dimension in documentation through association of ideas"*;
- Nela, foi tratada pela primeira vez o fator de impacto como métrica;
- O conceito evoluiu e se modificou caracterizando-se como uma de muitas métricas que avaliam revistas científicas;
- Atualmente a Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES), nas comissões científicas das áreas, utiliza esta e outras métricas como parâmetro nos critérios de classificação dos periódicos no Qualis.



Para quem?

- **Pesquisadores:**

para identificar os periódicos mais adequados para publicação.

- **Gestores institucionais e analistas de informação:**

para acompanhar padrões bibliométricos e de citação e apoiar as decisões estratégicas e de financiamento de uma instituição.



Para quem?

- **Editoras e editores:**

para determinar a influência dos periódicos no mercado editorial e definir sua estratégia de publicação.

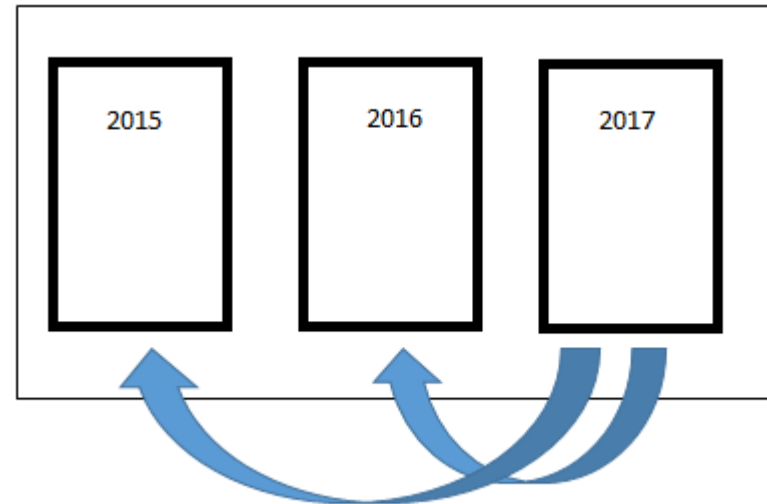
- **Bibliotecários:**

para apoiar na escolha, seleção ou remoção de periódicos das coleções de bibliotecas e para entender como os pesquisadores vinculados a sua instituição estão contribuindo para esse periódico.



Como é calculado

JCR calcula o fator de impacto dividindo o número de citações de um periódico no ano pelo número total de artigos publicados nos dois anos anteriores.



$$\text{Fator de Impacto 2017} = \frac{X_{2015} + X_{2016}}{Y_{2015} + Y_{2016}}$$



Exemplo

O Fator de Impacto de um determinado periódico em 2017 poderá ser calculado da seguinte forma:

X = o número total de vezes em que os itens publicados pelo periódico em 2015 e 2016 foram citados em periódicos indexados na Web of Science durante o ano de 2017.

Y = o número total de artigos publicados pelo periódico em 2015 e 2016.

$$\text{Fator de impacto 2017} = \frac{\text{Citações 2015-2016}}{\text{Publicações 2015-2016}}$$



Como visualizar o ranking por periódico

Welcome to Journal Citation Reports

Search a journal title or select an option to get started

Enter a journal name

1

Browse by Journal

Browse by Category

Custom Reports

Go to Journal Profile

jama surgery

Compare Journals

View Title Changes

Select Journals

Select Categories

Select JCR Year

2017

Select Edition

SCIE SSCI

Open Access

Open Access

Category Schema

Web of Science

JIF Quartile

Journals By Rank

Journal Titles Ranked by Impact Factor

	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
1	CA-A CANCER JOURNAL FOR CLINICIANS	28,839	244.585	0.06600
2	NEW ENGLAND JOURNAL OF MEDICINE	332,831	79.260	0.70200
3	LANCET	233,269	53.254	0.43600
4	CHEMICAL REVIEWS	174,920	52.613	0.26500
5	Nature Reviews Materials	3,218	51.941	0.01500
6	NATURE REVIEWS DRUG DISCOVERY	31,313	50.167	0.05400
7	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	148,775	47.661	0.30000
8	Nature Energy	5,072	46.859	0.02000

Web of Science InCites Journal Citation Reports Essential Science Indicators EndNote PubMed

InCites Journal Citation Reports

Home > Journal Profile

JAMA Surgery

ISSN: 2168-6254
eISSN: 2168-6262
AMER MEDICAL ASSOC
330 N WABASH AVE, STE 39300, CHICAGO, IL 60611-5885
USA

TITLES
ISO: JAMA Surg.
JCR Abbrev: JAMA SURG

LANGUAGES
English

View Title Changes
CATEGORIES
SURGERY - SCE

PUBLICATION FREQUENCY
12 issues/year

Go to Journal Table of Contents Printable Version

Current Year All years

The data in the two graphs below and in the Journal Impact Factor calculation panels represent citation activity in 2017 to items published in the journal in the prior two years. They detail the components of the Journal Impact Factor. Use the "All Years" tab to access key metrics and additional data for the current year and all prior years for this journal.

Journal Impact Factor Trend 2017

8,498
2017 Journal Impact Factor

JCR year	JIF	SURGERY
2013	~4,000	~0.5
2014	~6,000	~8.5
2015	~6,500	~9.0
2016	~7,500	~9.5
2017	~8,500	~9.5

Citation distribution 2017

4 Article citation median
5 Review citation median

Journal Impact Factor Calculation

2017
Journal Impact Factor = $\frac{2,014}{237} = 8.498$

Journal Impact Factor contributing items

Citable items in 2016 and 2015 (237) Citations in 2017 (2,014)

TITLE CITATIONS COUNTED TOWARDS JIF

Increasing Disparities in the Age-Related Incidences of Colon and Rectal Cancers in the United



Como visualizar o ranking por categoria (área)

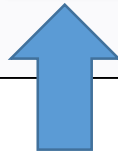
Web of Science | InCites | Journal Citation Reports | Essential Science Indicators | EndNote | Publons

InCites Journal Citation Reports

Welcome to Journal Citation Reports
Search a journal title or select an option to get started

Enter a journal name

Browse by Journal | Browse by Category | Custom Reports



Go to Journal Profile

Master Search

Select Journals

Select Categories

Select JCR Year: 2017

Select Edition: SCIE SSCI

Clear Submit

Journals By Rank | **Categories By Rank**

All Journal Categories ranked by Number of Journals

Customize Indicators

	Category	Edition	#Journals	Total Cites	Median Impact Factor	Aggregate Impact Factor
1	ECONOMICS	SSCI	353	905,730	1.112	1.766
2	MATHEMATICS	SCIE	310	494,556	0.704	0.855
3	BIOCHEMISTRY & MOLECULAR BIOLOGY	SCIE	293	3,625,819	2.906	4.281
4	MATERIALS SCIENCE, MULTIDISCIPLINARY	SCIE	285	3,451,318	2.008	4.641
5	NEUROSCIENCES	SCIE	261	2,346,383	3.047	4.015
5	PHARMACOLOGY & PHARMACY	SCIE	261	1,571,415	2.481	3.148
7	ENGINEERING, ELECTRICAL & ELECTRONIC	SCIE	260	1,636,339	1.820	2.723
8	MATHEMATICS, APPLIED	SCIE	252	538,241	0.972	1.299
9	ENVIRONMENTAL SCIENCES	SCIE	242	1,893,304	2.071	3.488
10	EDUCATION & EDUCATIONAL RESEARCH	SSCI	239	346,922	1.333	1.542
11	ONCOLOGY	SCIE	223	1,931,396	3.193	4.600
11	PLANT SCIENCES	SCIE	223	1,059,601	1.419	2.683
13	MANAGEMENT	SSCI	210	707,972	1.866	2.631
14	SURGERY	SCIE	200	1,206,541	1.811	2.521

InCites Journal Citation Reports dataset updated Sep 20, 2018



Como visualizar o ranking por categoria

BIOCHEMISTRY & MOLECULAR BIOLOGY

Biochemistry & Molecular Biology covers resources on general biochemistry and molecular biology topics such as carbohydrates, lipids, proteins, nucleic acids, genes, drugs, toxic substances, and other chemical or molecular constituents of cells, microbes, and higher plants and animals, including humans. Excluded are resources that are focus on biochemistry in cells, tissues or organs and those whose primary focus is the organism of study, e.g. plants, microbes, etc. Excluded, also, are resources that focus on methods in biochemistry or molecular biology.

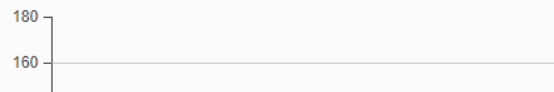
Year	Edition	# Journals	Articles	Total Cites	Median Impact Factor	Aggregate Impact Factor	Aggregate Immediacy Index	Aggregate Cited Half-Life	Aggregate Citing Half-Life
2017	SCIE	293	51,743	3,625,819	2.906	4.281	1.026	9.0	8.0
2016	SCIE	290	48,525	3,435,913	2.780	4.207	0.964	8.9	7.9
2015	SCIE	289	51,788	3,273,965	2.670	4.093	0.925	8.6	7.8
2014	SCIE	290	52,377	3,273,847	2.672	4.149	0.914	8.4	7.8
2013	SCIE	291	51,579	3,184,943	2.861	4.311	0.929	8.2	7.6
2012	SCIE	290	52,612	3,061,830	2.817	4.273	0.893	8.0	7.5
2011	SCIE	290	51,489	2,893,854	2.857	4.273	0.873	7.7	7.3
2010	SCIE	286	50,169	2,814,701	2.799	4.346	0.857	7.4	7.2
2009	SCIE	283	47,875	2,658,328	2.582	4.220	0.879	7.1	7.0
2008	SCIE	275	48,650	2,502,085	2.626	4.236	0.838	6.9	6.8
2007	SCIE	263	48,051	2,383,087	2.550	4.225	0.812	6.7	6.7
2006	SCIE	262	47,169	2,290,602	2.476	4.338	0.810	6.5	6.5
2005	SCIE	261	47,485	2,207,432	2.323	4.374	0.818	6.2	6.3
2004	SCIE	261	48,319	2,142,579	2.292	4.404	0.852	6.1	6.2
2003	SCIE	261	46,349	2,018,095	2.240	4.326	0.788	6.0	6.0
2002	SCIE	266	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Category Overview

Cited Category Data

Citing Category Data

Frequency of Publications



FREQUENCY OF PUBLICATION

The frequency of publication breaks down the number of journals in the category according to the number of times per year published. The bar graph ranges from annual to weekly

Indica a distribuição dos periódicos de determinada categoria, como por exemplo: Biochemistry & Molecular Biology.

Apresenta informações de total de artigos, citações, Fator de Impacto, meia-vida das citações (Cited Half-Life), entre outros, em diversos anos.





Como visualizar o ranking por categoria

BIOCHEMISTRY & MOLECULAR BIOLOGY

Biochemistry & Molecular Biology covers resources on general biochemistry and molecular biology topics such as carbohydrates, lipids, proteins, nucleic acids, genes, drugs, toxic substances, and other chemical or molecular constituents of cells, microbes, and higher plants and animals, including humans. Excluded are resources that are focus on biochemistry in cells, tissues or organs and those whose primary focus is the organism of study, e.g. plants, microbes, etc. Excluded, also, are resources that focus on methods in biochemistry or molecular biology.

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2003	SCIE	261	46,349	2,018,095	2.240	4.326	0.788	6.0	6.0
2002	SCIE	266	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Permite verificar os índices dos periódicos da área em um ano específico.

Journals in BIOCHEMISTRY & MOLECULAR BIOLOGY

Go to Journal Profile

Journals By Rank Categories By Rank

Journal Titles Ranked by Impact Factor

Compare Selected Journals Add Journals to New or Existing List Customize Indicators

Select All	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
<input type="checkbox"/>	1 NATURE MEDICINE	75,461	32.621	0.17200
<input type="checkbox"/>	2 CELL	230,625	31.398	0.58300
<input type="checkbox"/>	3 Annual Review of Biochemistry	19,873	20.154	0.03000
<input type="checkbox"/>	4 TRENDS IN BIOCHEMICAL SCIENCES	16,944	15.678	0.03100
<input type="checkbox"/>	5 MOLECULAR CELL	61,604	14.248	0.18100
<input type="checkbox"/>	6 Nature Chemical Biology	19,562	13.843	0.06100
<input type="checkbox"/>	7 NATURE STRUCTURAL & MOLECULAR BIOLOGY	27,547	13.333	0.08200
<input type="checkbox"/>	8 TRENDS IN MICROBIOLOGY	11,344	11.776	0.02100
<input type="checkbox"/>	9 MOLECULAR PSYCHIATRY	18,460	11.640	0.04700
<input type="checkbox"/>	10 NUCLEIC ACIDS RESEARCH	168,962	11.561	0.40200

Select JCR Year: 2017

Select Edition: SCIE SSCI

Open Access: Open Access

Category Schema: Web of Science

JIF Quartile



Como visualizar o ranking por categoria

Journals in BIOCHEMISTRY & MOLECULAR BIOLOGY

Go to Journal Profile
Master Search

Compare Journals

View Title Changes

Select Journals

Select Categories

Select JCR Year
2017

Select Edition
 SCIE SSCI

Open Access
 Open Access

Category Schema
Web of Science

JIF Quartile

Journals By Rank | Categories By Rank

Journal Titles Ranked by Impact Factor

Compare Selected Journals | Add Journals to New or Existing List | Customize Indicators

Select All		Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
<input type="checkbox"/>	1	NATURE MEDICINE	75,461	32.621	0.17200
<input type="checkbox"/>	2	CELL	230,625	31.398	0.58300
<input type="checkbox"/>	3	Annual Review of Biochemistry	19,873	20.154	0.03000
<input type="checkbox"/>	4	TRENDS IN BIOCHEMICAL SCIENCES	16,944	15.678	0.03100
<input type="checkbox"/>	5	MOLECULAR CELL	61,604	14.248	0.18100
<input type="checkbox"/>	6	Nature Chemical Biology	19,562	13.843	0.06100
<input type="checkbox"/>	7	NATURE STRUCTURAL & MOLECULAR BIOLOGY	27,547	13.333	0.08200
<input type="checkbox"/>	8	TRENDS IN MICROBIOLOGY	11,344	11.776	0.02100
<input type="checkbox"/>	9	MOLECULAR PSYCHIATRY	18,460	11.640	0.04700
<input type="checkbox"/>	10	NUCLEIC ACIDS RESEARCH	168,962	11.561	0.40200

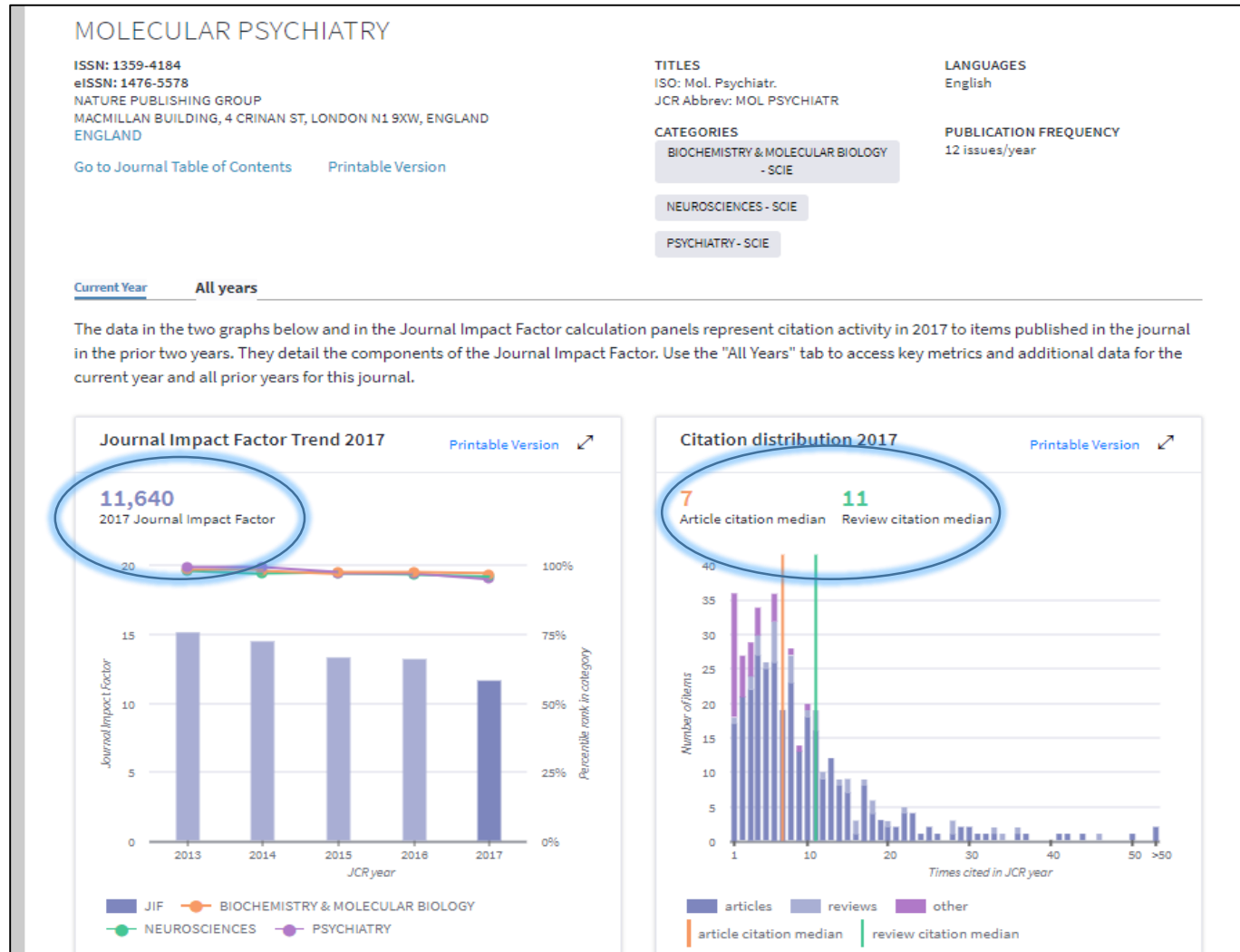
Listagem ordenada pelo Fator de Impacto dos periódicos da categoria.

Do maior impacto ao menor.





Apresentação do Fator de Impacto



Apresenta valores do Fator de Impacto do periódico e a distribuição de citações no período de 2017.



Apresentação do Fator de Impacto

Apresentação do cálculo do fator de impacto do periódico MOLECULAR PSYCHIATRY e como foi obtido.

Journal Impact Factor Calculation

$$\text{2017 Journal Impact Factor} = \frac{4,167}{358} = 11.640$$

How is Journal Impact Factor Calculated?

$$\text{JIF} = \frac{\text{Citations in 2017 to items published in 2015 (1996) + 2016 (2171)}}{\text{Number of citable items in 2015 (167) + 2016 (191)}} = \frac{4,167}{358}$$

Journal Impact Factor Calculation

$$\text{2017 Journal Impact Factor} = \frac{4,167}{358} = 11.640$$

How is Journal Impact Factor Calculated?

$$\text{JIF} = \frac{\text{Citations in 2017 to items published in 2015 (1996) + 2016 (2171)}}{\text{Number of citable items in 2015 (167) + 2016 (191)}} = \frac{4,167}{358}$$

Journal Impact Factor contributing items

Citable items in 2016 and 2015 (358) Citations in 2017 (4,167)

TITLE	CITATIONS COUNTED TOWARDS JIF
Subcortical brain alterations in major depressive disorder: findings from the ENIGMA Major Depressive Disorder working group	59
By: Schmaal, L.; Niessen, W. J.; Vernooij, M. W.; Ikram, M. A.; Wittfeld, K.; et al. Volume: 21 Page: 806-812 Accession number: WOS:000376159600014 Document Type:Article	
Gut microbiome remodeling induces depressive-like behaviors through a pathway mediated by the host's metabolism	57
By: Zheng, P.; Du, X.; Zhang, X.; Yang, D.; Yang, Y.; et al. Volume: 21 Page: 786-796 Accession number: WOS:000376159600012 Document Type:Article	
A meta-analysis of blood cytokine network alterations in psychiatric patients: comparisons between schizophrenia, bipolar disorder and depression	50
By: Goldsmith, D. R.; Rapoport, M. H.; Miller, B. J. Volume: 21 Page: 1696-1709 Accession number: WOS:000388720600009 Document Type:Article	
The organization of the stress system and its dysregulation in depressive illness	46
By: Gold, P. W. Volume: 20 Page: 32-47 Accession number: WOS:000349403400004 Document Type:Review	
Subcortical brain volume abnormalities in 2028 individuals with schizophrenia and 2540 healthy controls via the ENIGMA consortium	44
By: van Erp, T. G. M.; Dale, A. M.; Melle, I.; Hartberg, C. B.; Gruber, O.; et al. Volume: 21 Page: 547-553 Accession number: WOS:000372421500014 Document Type:Article	
Childhood trauma and adulthood inflammation: a meta-analysis of peripheral C-reactive protein, interleukin-6 and tumour necrosis factor-alpha	42
By: Baumeister, D.; Akhtar, R.; Ciufolini, S.; Pariante, C. M.; Mondelli, V. Volume: 21 Page: 642-649 Accession number: WOS:000374324000010 Document Type:Article	
Disorders of compulsivity: a common bias towards learning habits	41
By: Voon, V.; Sahakian, B. J.; Robbins, T. W.; Harrison, N. A.; Wood, J.; et al. Volume: 20 Page: 345-352 Accession number: WOS:000351779300008 Document Type:Article	
Genetic contributions to variation in general cognitive function: a meta-analysis of genome-wide association studies in the CHARGE consortium (N=53 949)	



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