

# Impact Factor

ECORFAN-México, S.C.

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## Why do you seek to publish in reputable journals?

The authors publish their work there to communicate their findings as widely as possible, so that their ideas are recognized and progress in their careers.

Publishing in a journal with a high impact factor and an international readership is the most effective method to achieve the above.



The bibliometric index citation factor is calculated :

Dividing the total number of **citations received** in a year  
Of the **papers published** in a journal during the previous 2 or 3  
years.

Enter the **total number of papers published** in that journal during  
the previous 2 or 3 years.

**Impact factor:** is a measure of the frequency with which the  
"average paper" of a journal has been cited in a given year.

The **Impact Factor** of Latin American and Caribbean publications is generally low. The **IF** generated by ISI is an inaccurate record since a large number of scientific publications in the region are unknown to the rest of the international scientific community.

The phenomenon of **occult or invisible science**, also called **peripheral science**, is generated.

Research oriented to local needs, or where the territorial component is strong

Spanish language, not English

Clinical studies publish less, generating fewer citations referring to papers of clinical interest



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# Latin American vicious circle

“The low visibility and low impact factor, added to the lower evaluation by the academic institutions of the publication in national Journals and / or not indexed, as well as the publication commitments acquired when competing for research funds in different institutions, generates leakage of journals to Mainstream journals, maintaining this vicious circle”

Francisca Ugarte P. La edición de Journals científicas en Latinoamérica.

Rev Chil Pediatr 75 (6); 509-511, 2004

\* *Mainstream*: literatura científica de corriente prin

\* ISI: Institute for Scientific Information

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#### Holdings

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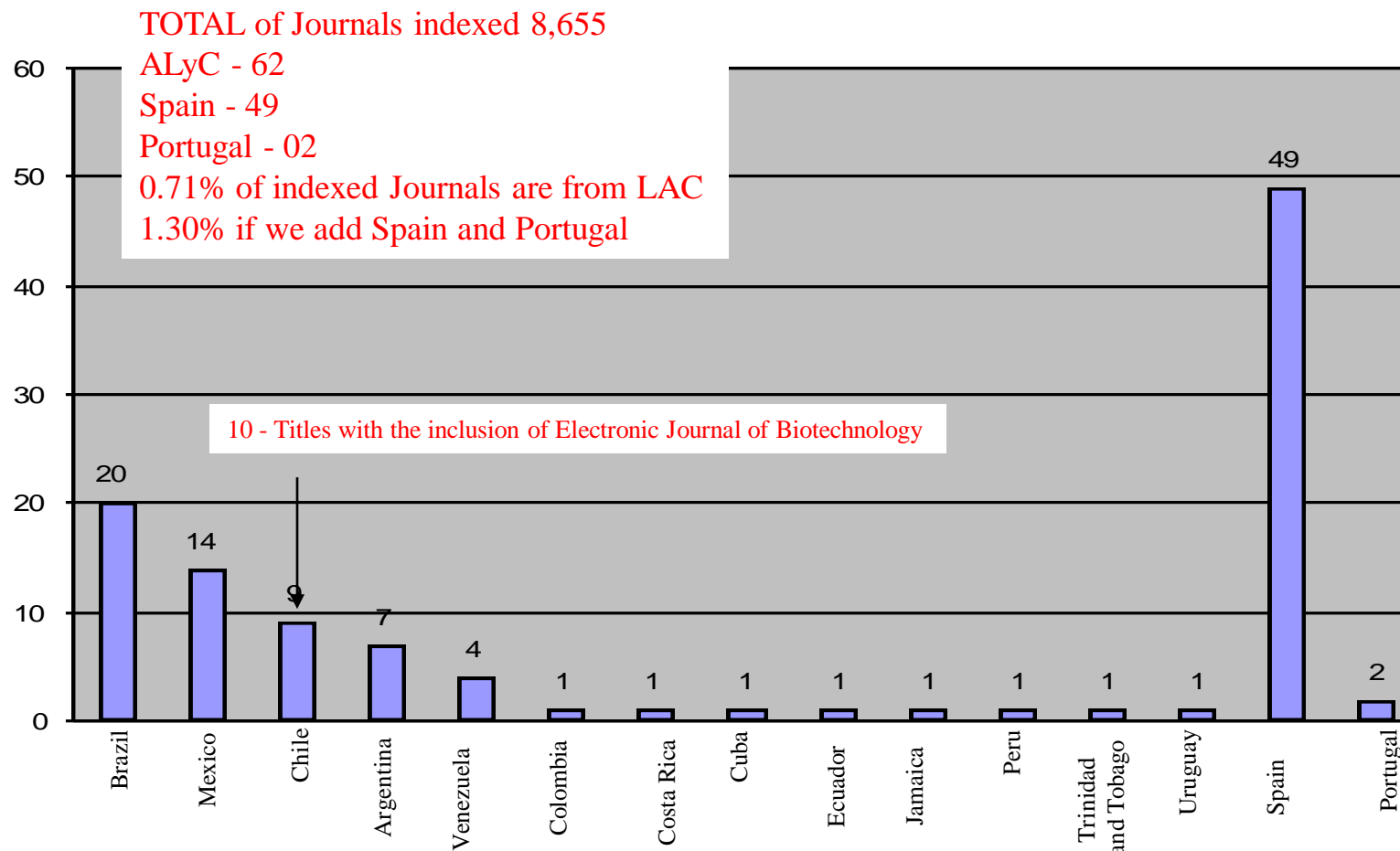
Journals published by national research institutions are subsidized.

But the authors who publish in them are "punished", since their works do not have the same impact, nor do they receive enough citations, since these publications do not have the 'visibility' of foreign journals.

Visibility - Solution?



# Visibility - Solution: Titles of Latin America, Spain and Portugal indexed in the? ISI (2015) (Mariana Rocha BIOJONE, 2015)



# ALyC titles indexed in the ISI (2015)

	1995	2015
Brazil	17	20
Mexico	12	14
Chile	7	9
Argentina	5	7
Venezuela	3	4
Colombia	1	1
Costa Rica	1	1
Cuba	1	1
Ecuador	1	1
Jamaica	0	1
Peru	1	1
Trinidad and Tobago	0	1
Uruguay	0	1
<b>Total</b>	<b>49</b>	<b>62</b>

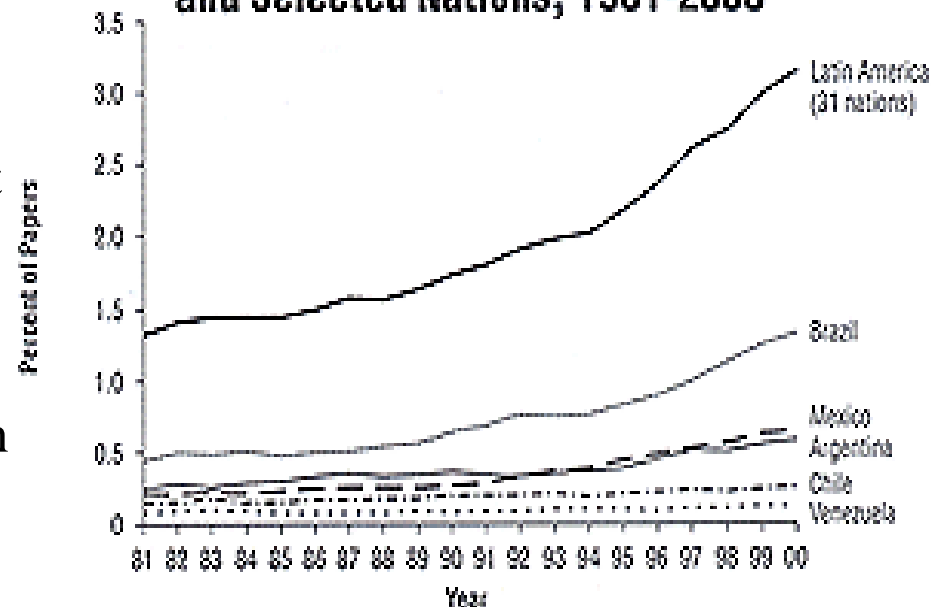
# Impact factor - ISI

Latin America has dramatically increased its global presence according to a survey [Science Watch](#)\*:

The participation of the Latin American journals indexed in ISI in all areas almost doubled between 1981 and 2000

Less than a percentage of 1.5% of papers indexed in 1981 -aprox. 5,600 papers for the entire region- reached about 22,500 in 2000, or 3.2% of the database.

**Percent Share of World Science, Latin America and Selected Nations, 1981-2000**



SOURCE: ISI's National Science Indicators, 1981-2000

\* Web version of [Thomson Scientific Science Watch](http://www.sciencewatch.com/) <http://www.sciencewatch.com/>

**Brazil** is, by far, the most prolific producer of scientific papers

**Brazil**, with more than 9,500 papers indexed in 2000, represented about 1.3% of the world scientific production reflected in the ISI database

Between 1996-2000, the greatest representation of Brazil in a particular field was Agronomy (2.6% of papers in the area), followed by Space Science (2.0%) and Physics (1.8%)

Measured by the impact, Brazil stood out more in Engineering and Geosciences - in both fields, citations per paper reached 80% of the world mark (For example: 1.15 citations per paper compared to the world figure for engineering of 1.43 citations per paper).



**Mexico** leads the region in 3 fields: **Immunology, Molecular Biology / Genetics and Pharmacology**

**Mexico** is listed as the second **largest papers producer** with 4,588 indexed in 2000

Between 1996-2015, the highest representation of the papers was focused on space science (1.9%), followed by agricultural and animal sciences (plant & animal sciences - 1.1%).

**Space science** also figured as the area of scientific production with the greatest impact compared to the world average (average citations per paper of 5.24, equivalent to 77% of the world average).

**Chile**, however, has the greatest merit in terms of impact in the area of space science: with an average 39% above the world average.

This is probably due to the fact that Chile hosts the facilities of the Cerro Tololo Inter-American Observatory in La Serena and the La Silla Observatory (ESO-Europa).

## Impact leaders :

Latin American nations that published at least 100 papers in each of the following fields between 1996-2015, with citations per paper compared favorably in relation to the world average

Biology / Biochemistry	Uruguay
Chemistry	Costa Rica
Clinical medicine	Costa Rica
Immunology	Mexico
Engineering	Brazil
Geosciences	Brazil
Material sciences	Brazil
Maths	Chile
Microbiology	Venezuela
Molecular biology / Genetics	Mexico
Neurosciences	Argentina
Pharmacology	Mexico
Physical	Argentina
Space science	Chile

ISI's [National Science Indicators](#), 1996-2015.

# Impact factor

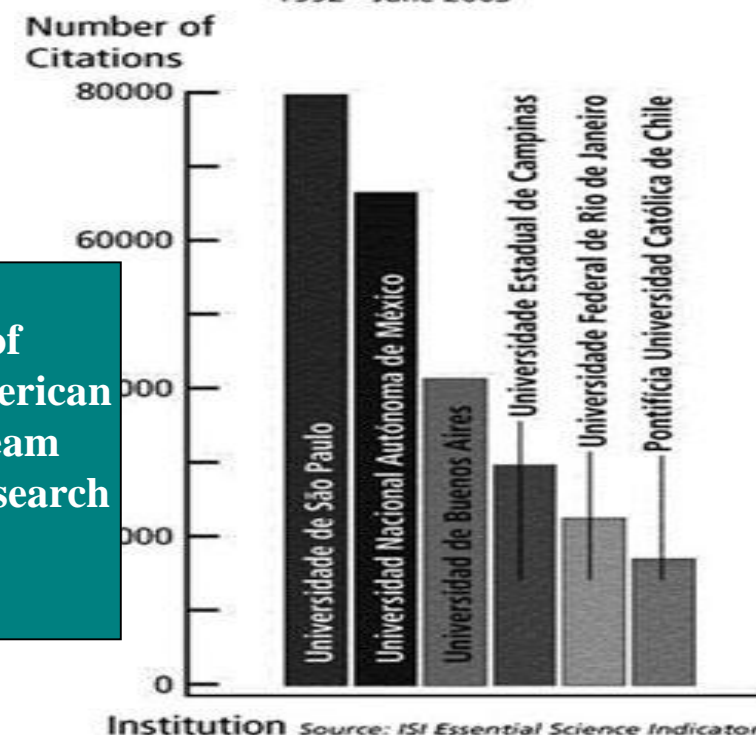
**Ranking of ISI (March 2004)** of the 6 most cited Latin American institutions between 1992 and June 2003 in mainstream indices :

**Brazil:** Universities of Sao Paulo, State of Ceará, Federal University of Rio de Janeiro

“If we add to this the research and generation of papers by authors belonging to other Latin American institutions that publish in journals of mainstream and national journals, it is clear that quality research is being done in Latin America.”

more than 200,000 times in that period.

**Latin American Institution Rankings**  
1992 - June 2003



**Francisca Ugarte P.** The edition of scientific Journals in Latin America. Rev Chil Pediatr 75 (6); 509-511, 2004



The ISI, Institute for Scientific Information and its products

What are the dating rates?

What are the Journal Citation Reports?

What is the impact factor?

How is the impact factor calculated?

Impact factors by discipline

The ISI selection process

Final considerations



The ISI is a database producer whose mission is to provide comprehensive bibliographic information ("comprehensive") about the most important and most impactful research that is published worldwide ("mainstream").

Broad does not imply all-inclusive.

<http://www.isinet.com/essays/selectionofmaterialforcoverage/199701.html>

Its services cover more than 16,000 international Journals, books and memoirs in the sciences, social sciences and humanities.

Among the main products available through the Web of Science (created in 1997) are :

The citation indexes "Journal Citation Reports"

The Science Citation Index was published for the first time in 1964 to offer a novel way of looking for bibliographic information through the thematic link between a paper and the references it cites..

Today the indexes of citations are available in three electronic versions :

*Science Citation Index Expanded*

*Social Sciences Citation Index*

*Arts and Humanities Citation Index*

*Science Citation Index Expanded* provides access to updated and retrospective bibliographic information and cited references of some 5,900 academic journals ("scholarly") and techniques that cover more than 150 scientific disciplines.

*Social Sciences Citation Index*: 1,700 Journals in 50 disciplines of the social sciences, also selectively covers some 3,300 degrees in science and technology.

*Arts and Humanities Citation Index*: 1,130 Journals of the area, also selectively covers 7,000 titles in science and social sciences.

*Essential resource, comprehensive (comprehensive) and unique for the evaluation of Journals through the analysis of citations of some 8,000 academic journals ("scholarly") published worldwide.*

Its scope is international and multidisciplinary by incorporating Journals published by 3,000 publishers from some 60 countries.

It is the only source of data on dating between Journals.

Two editions:

Scientific edition: some 5,900 scientific and technical journals

Social Sciences Edition: 1,700 Journals

# Purpose of the JCR?

It allows to determine in a systematic and objective way the relative importance of scientific journals within the different disciplines that make up the hard and social sciences.



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# What information do JCRs contain?

Total number of appointments  
Impact factor (IF)  
Total number of papers



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# Why is IF important?

In the evaluation of scientific performance is inclined to reward the publication in the Journals ISI and, especially, those of better IF.

Assumption: impact = quality.

Competition for publishing in high impact Journals.

Greater visibility.



# What is the IF of a journal?

It supposes the relation between the appointments received in a certain year, by the works published during the two previous years, and the total of papers published in it during those two previous years..

It is calculated annually.



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# How is the IF of a journal calculated?

Total citations in 2002 to papers published in:

2000: 71

2001: 115 Total= 186

Total papers published :

2000: 91

2001: 216 Total= 307

$$\text{IF 2002} = \frac{186}{307} = 0.6058$$



IFs vary among disciplines for considerations of :

Number of references in bibliographies.

Frequency of publication.

Speed with which the information begins to be quoted and quit.

Size of the scientific communities and the number of Journals edited.

Scientific or social discipline.

Basic or applied scientific discipline.

Influence of highly cited papers.

Among the most cited papers are those that present novel methodologies that are applied very frequently.

The classification by IF favors journals that publish comparatively few papers of great extension, such as "reviews, progress in, advances in".

# Scientific journals with higher IF

	Impact factor	Total Citations	Total Papers
ANNU REV IMMUNOL	54.455	13709	26
ANNU REV BIOCHEM	36.278	16591	27
CA-CANCER J CLIN	32.886	3096	17
NEW ENGL J MED	31.736	143124	378
NATURE	30.432	326546	889
SCIENCE	28.956	296080	987
NAT MED	28.740	31696	137
NAT IMMUNOL	27.868	6297	134
CELL	27.254	139765	350
NAT GENET	26.711	44050	222

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**Holdings**  
Total number of titles = 5,87

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Ecuador	Taiwan	Paraguay
Peru	Nicaragua	

	Impact factor	Total Citations	Total Papers
ANNU REV BIOCHEM	36.278	16591	28
NAT MED	28.740	31696	137
CELL	27.254	139765	350
MOL CELL	16.471	16125	271
ANNU REV BIOPH BIOM	15.947	3471	19
TRENDS BIOCHEM SCI	14.398	14551	77
BBA-REV BIOMEMBRANES	11.364	1170	---
PLANT CELL	10.751	17373	241
EMBO J	10.698	77524	677
NAT STRUCT BIOL	10.244	12506	140

\*Total number of titles =266

	Impact factor	Total Citations	Total Papers
TRENDS ECOL EVOL	11.929	7887	61
ANNU REV ECOL SYST	6.150	6142	25
ECOL MONOGR	4.731	5372	32
AM NAT	4.385	15336	135
ECOLOGY	3.918	27348	310
CONSERV ECOL	3.880	308	42
WILDLIFE MONOGR	3.600	679	---
EVOLUTION	3.516	16229	235
GLOBAL CHANGE BIOL	3.398	2024	95
ECOL LETT	3.042	873	104



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\*Total number of titles = 101

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	Impact factor	Total Citations	Total Papers
J AM MATH SOC	2.533	1029	27
COMMUN PUR APPL MATH	2.022	3615	40
ANN MATH	1.905	4915	53
B AM MATH SOC	1.824	1944	9
MEM AM MATH SOC	1.661	1102	29
ACTA MATH-DJURSHOLM	1.621	1725	9
INVENT MATH	1.616	4157	70
RANDOM STRUCT ALGOR	1.091	497	50
ANN SCI ECOLE NORM S	1.071	974	22
FOUND COMPUT MATH	1.067	19	15

 \*Total number of titles = 170



# Latin American Scientific journals with older IF

	Impact factor	Ranking	Quartile	Category
REV MEX ASTRON ASTR-MEX	2.612	14/42	2	ASTRON / ASTROFIS.
BIOL RES-CHL	1.310	26/65	2	BIOLOGY
J BRAZIL CHEM SOC-BRA	0.895	53/123	2	CHEMISTRY, MULTIDISC.
BRAZ J MED BIOL RES-BRA	0.740	58/72	4	MED, INVEST & EXPER.
MEM I OSWALDO CRUZ-BRA	0.688	15/21 8/12	3 3	PARASITOLOGY
QUIM NOVA-BRA	0.600	77/123	3	TROPICAL MEDICINE
REV GEOL CHIL-CHL	0.536	24/32	3/4	CHEMISTRY, MULTIDISC.
AN ACAD BRAS CIENC-BRA	0.510	22/46	2	GEOLOGY
REV CHIL HIST NAT-CHL	0.504	86/105	4	SCIENCE, MULTIDISC.
AMEGHINIANA-ARG	0.456	23/29	4	ECOLOGY
BRAZ J CHEM ENG-BRA	0.355	78/119	3	PALEONTOLOGY
REV BIOL TROP-CR	0.354	53/65	4	QUÍM ENGINEERING

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Democratic Republic of Congo  
Paraguay

Category	Year	Total citations	Impact factor	IF greater	Ranking
BIOLOGY	2001	452	0.097	8.817	39/42
BIOLOGY	2002	599	0.107	7.888	59/62
BIOLOGY	2003	1455	0.354	7.172	53/65

# Journals in social sciences with higher IF

	Impact factor	Total Citations	Total Papers
ARCH GEN PSYCHIAT	11.622	24451	104
BEHAV BRAIN SCI	8.730	3451	---
TRENDS COGN SCI	8.129	1799	59
HARVARD LAW REV	8.036	4124	36
ANNU REV PSYCHOL	7.898	2925	22
PSYCHOL BULL	7.011	14314	38
PSYCHOL REV	6.750	11740	34
MONOGR SOC RES CHILD	6.625	1116	4
AM J PSYCHIAT	6.458	27906	305
PSYCHOL INQ	6.250	547	5

\*Total number of titles = 1,709

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	Impact factor	Total Citations	Total Papers
EVOL ANTHROPOL	4.815	539	72
J HUM EVOL	2.283	2130	69
AM J PHYS ANTHROPOL	2.117	4318	97
CURR ANTHROPOL	2.027	1657	48
AM ANTIQUITY	1.603	1331	36
YEARB PHYS ANTHROPOL	1.417	419	7
PUBLIC CULTURE	1.222	256	37
CULT ANTHROPOL	1.188	344	16
HUM NATURE-INT BIOS	1.139	350	21
ANNU REV ANTHROPOL	1.023	757	22

\*Total number of titles = 53

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	Impact factor	Total Citations	Total Papers
ENVIRON PLANN D	2.377	780	34
HARVARD ENVIRON LAW	1.947	119	10
ENVIRON PLANN A	1.463	1675	100
EUR URBAN REG STUD	1.129	184	20
J ENVIRON ECON MANAG	1.114	1254	52
URBAN STUD	0.988	1358	124
REG STUD	0.976	923	78
ECOSYST HEALTH	0.953	133	---
HEALTH PHYS	0.948	2882	182
LAND ECON	0.907	838	42

\*Total number of titles = 49

	Impact factor	Total Citations	Total Papers
BEHAV BRAIN SCI	8.730	3451	---
EVOL HUM BEHAV	2.980	362	30
PSYCHOPHYSIOLOGY	2.674	4647	93
BIOL PSYCHOL	2.435	1193	41
INT J PSYCHOPHYSIOL	2.055	1326	63
J EXP PSYCHOL ANIM B	1.955	1540	34
EXP CLIN PSYCHOPHARM	1.653	766	46
PHYSIOL BEHAV	1.652	9490	265
J EXP ANAL BEHAV	1.579	2111	64
Q J EXP PSYCHOL-B	1.256	536	19



\*Total number of titles = 15

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# Latin American Journals in Social Sciences

	Impact factor	IF mayor*	Ranking*
DADOS-REV CIENC SOC-BRA	0.220	1.280	42/55
DESARROLLO ECON-ARG	0.214	5.243	146/169
EURE-CHL	0.175	1.429	24/28
REV LAT AM PSICOL-COL	1.179	9.896	31/101
REV MEX PSICOL-MEX	1.250	9.896	26/101
REV SAUDE PUBL-BRA	0.223	5.179	53/56
SALUD MENT-MEX	1.212	10.519	39/77
SALUD PÚBLICA MEX-MEX	0.257	5.179	52/56
TRIMEST ECON-MEX	0.079	5.243	164/167

\*Según la categoría disciplinaria

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# IF Max in Scientific Disciplines

	IF Máx 1994	IF Máx 2000	IF Máx 2003
Biochemistry / Biol Mol	42.169	43.429	37.647
Immunology	39.426	50.340	52.280
Physical Chemistry	9.088	14.952	12.650
Ecology	4.838	8.765	12.449
Applied Chemistry	2.279	5.230	4.200
Maths	1.704	2.750	3.647
farming	1.342	1.560	2.102
Space Engineering	0.592	0.772	3.683
<b>Total Journals</b>	700	875	867

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**Holdings**

Mexico	Colombia	Guatemala
Bolivia	Cameroon	Democratic Republic of Congo
Spain	El Salvador	
Ecuador	Taiwan	
Peru	Nicaragua	Paraguay



Annual review of about 2,000 new titles

Selection of 10 to 12%

Criteria (all areas):

*"Timeliness" of publication is the basic criterion*

*International standards*

*Language: as titles and abstracts in English*

*Strict peer review*

Editorial content: specialized field, covers "gap"

International diversity: comparison with other Journals from the same field in the same region

Appointment analysis

Important format in the case of electronic Journals

*ISI has abundant data on citations: levels of citations, IF and the immediacy index.*

Citations Journals ISI

Citations Journals no ISI

Autocitations: 80% Journals ISI has levels <20% but there are important differences between disciplines

Autocitations: small fields have higher levels than fields or interdisciplinary Journals

ISI accepts suggestions and recommendations for the evaluation of new Journals:

Full name, ISSN, name and address of publisher and publisher.

Fascicle current plus two or three as soon as they are published.

Brief explanation of the special (unique) characteristics of the journal and what makes it different from the other Journals in its field.

<http://www.isinet.com/essays/selectionofmaterialforcoverage/199701.html>



## PRESENT

ISI products are elitist :

- Access cost
- Journals that cover
- monopoly

The IF

- collects citations among the same group of Journals ISI
- does not take into account the differences between disciplines
- determined window
- "privileged" place in the evaluation of scientific performance, often poorly applied

## FUTURE

Development of new impact indicators through the presence on the Web of electronic Journals; SciELO and LATINDEX systems.

## La Pirámide del "Éxito"



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**IMPACTO INTERNACIONAL**

- Autores multinacionales
- Artículos en colaboración internacional
- Citas de una amplia distribución geográfica
- Buen posicionamiento del Factor de Impacto, etc.

**PRESENCIA INTERNACIONAL**

- Comité editorial con representación internacional
- Indizada en bases de datos internacionales
- Figura en los sistemas de indicadores ints.

**IMPACTO NACIONAL**

- Citas nacionales
- Índices nacionales de revistas reconocidas
- Autores compiten para publicar

**PRESENCIA NACIONAL**

- Autores nacionales
- Comités nacionales
- Indizada en base de datos nacionales
- Acceso en línea al texto completo
- Visible a través de los motores de búsqueda, servidores de preprints, etc. (*resource discovery*)



- Las revistas nacionales necesitan establecer objetivos definidos.
- Éstos se basan en las características y pretensiones de la comunidad científica que las sostiene.
- Las políticas científicas nacionales requieren defender y fomentar la publicación y promoción de las revistas editadas en el país.
- Hay que distinguir entre la internacionalización de la revista y ser una revista internacional.
- Pretender ser una revista internacional no es el camino más adecuado a seguir para muchas revistas nacionales, lo que debe prevalecer es el mejoramiento de la calidad.

# Thank You Very Much

**ECORFAN-México, S.C.**

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