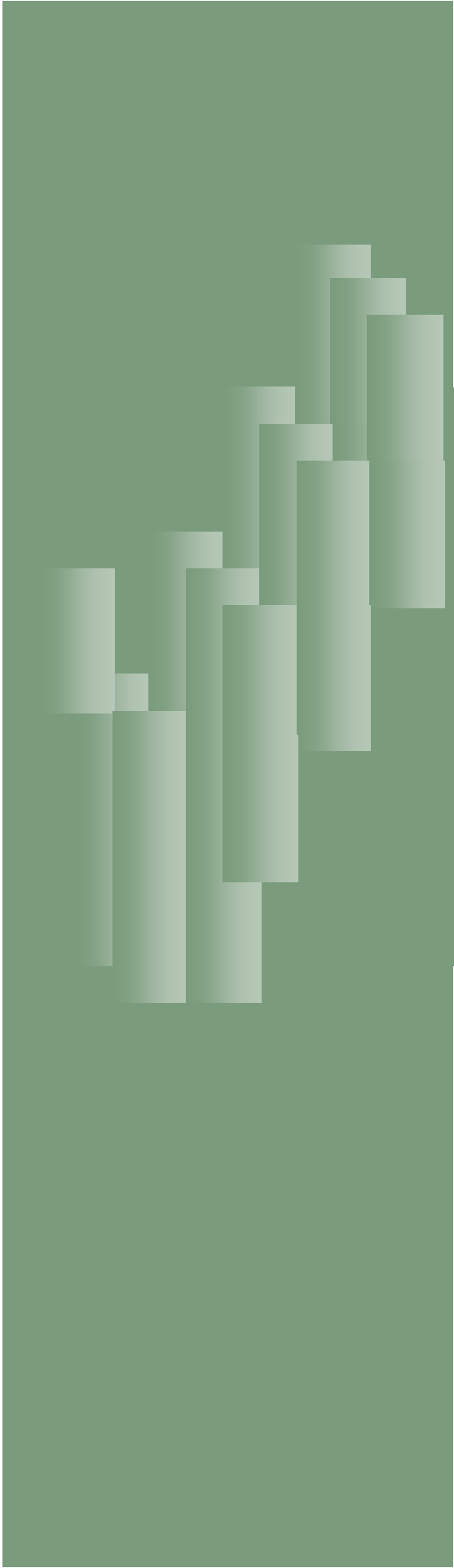




Anexos



***Anexo I:
Essential Science
Indicators***

I Comparación de España con otros países según los datos de los Essential Science Indicators¹ (Thomson-ISI) (período de enero de 1997 a octubre de 2007, actualización de enero de 2008)

Essential Science Indicators es un producto de Thomson Scientific (ISI) que permite a los investigadores llevar a cabo análisis cuantitativos de resultados de investigación en curso y seguir la pista de las tendencias en ciencia. Esta herramienta de análisis en profundidad posibilita la obtención de datos de científicos, instituciones, países y revistas más destacados a partir de la selección de más de 11.000 revistas multidisciplinares de todo el mundo indizadas por Thomson Scientific.

I.1 Datos generales de los Ranking

En el conjunto de países recogidos en la base de datos, entre los años 1997 y octubre de 2007, España ocupa la décima posición por número de documentos y la quinta si tenemos en cuenta sólo a los países de la Unión Europea (UE 25). Además, recibe más de 8,5 citas por documento en este período. Rusia y China, que se hallan por delante de España en el ranking, tienen en cambio menor número de citas por documento, no llegando a 5 en ningún caso. La posición que ocupa España, por número de citas, es la 11 frente al mundo y la 6 frente a la Unión Europea, sin embargo al considerar las citas por documento desciende a la posición 37 frente al mundo y a la 17 frente a la Unión Europea (si consideramos el Reino Unido dividido en sus cuatro regiones) (ver tabla 1).

Tabla 1. COUNTRY/TERRITORY RANKINGS IN (ALL FIELDS) (papers)

	Country/Territory	Papers	Citations	Citations per Paper	Ranking UE		
					Papers	Citations	Citations Per Paper
1	USA	2,937,435	40,985,063	13.95			
2	JAPAN	796,377	6,934,595	8.71			
3	GERMANY	756,763	8,334,797	11.01	1	2	9
4	ENGLAND	670,186	8,364,358	12.48	2	1	6
5	FRANCE	542,225	5,684,395	10.48	3	3	12
6	PEOPLES R CHINA	493,851	2,042,288	4.14			
7	CANADA	403,940	4,608,122	11.41			
8	ITALY	382,324	3,784,190	9.90	4	4	14
9	RUSSIA	282,036	1,106,671	3.92			
10	SPAIN	278,420	2,376,590	8.54	5	6	17
11	AUSTRALIA	257,046	2,578,025	10.03			
12	NETHERLANDS	226,898	2,989,538	13.18		5	2
13	INDIA	223,064	952,248	4.27			
14	SOUTH KOREA	199,032	1,068,961	5.37			
15	SWEDEN	172,734	2,157,824	12.49			5
16	SWITZERLAND	164,182	2,401,129	14.62			
17	BRAZIL	142,072	765,808	5.39			
18	TAIWAN	134,798	735,827	5.46			

¹ Essential Science Indicators 2007. The Thomson Corporation. <http://www.in-cites.com/a-prod/esi.html> [consulta: 23 enero 2008].

	Country/Territory	Papers	Citations	Citations per Paper	Ranking UE		
					Papers	Citations	Citations Per Paper
19	POLAND	124,395	694,805	5.59			
20	BELGIUM	121,718	1,366,837	11.23			8

Nota: Las ventanas de publicación y de citación corresponden al mismo periodo.

En la evolución de la producción española en el período estudiado se observa una ligera tendencia creciente, aunque el mayor crecimiento se experimenta en el intervalo 2002-2006. En la tabla 2 podemos ver que el número de citas totales también se incrementa a lo largo del período, aunque el mayor aumento se produce en el período 1999-2004. El mayor incremento de citas relativas se produce, en los períodos 1998-2002 y 1999-2003.

Tabla 2. Evolución de España por número de documentos, citas y citas/doc. en el período estudiado (intervalos de 5 años)

Intervalos 5-años	1997-2001	1998-2002	1999-2003	2000-2004	2001-2005	2002-2006	2003-2007
Nº Doc	107449	113070	119307	124608	133206	142766	151444
Tasa de crec.Nº Doc	--	5,23	5,52	4,44	6,90	7,18	6,08
Citas	365096	410274	460229	493669	54935	614401	681022
Tasa de crec. Citas	--	12,37	12,18	7,27	11,28	11,84	10,84
Citas por Doc	3,4	3,63	3,86	3,96	4,12	4,3	4,5
Tasa de crec.Citas/doc	--	6,76	6,34	2,59	4,04	4,37	4,65

Nota: las diferencias en el número de citas por documento con respecto a la tabla 1, obedecen a las diferentes ventanas de citación utilizadas.

I.1.1 Producción mundial por área temática en WoS

En las tablas 3a, 3b y 3c, se muestra la producción, citas recibidas y citas por documento por grandes áreas temáticas del total del mundo en el WoS. Servirá de referencia a la hora de analizar el comportamiento de España, que se muestra en las tablas 4a, 4b y 4c.

Tabla 3a. Field Rankings. Ranked by Papers

	Field	Papers	Citations	Citations Per Paper
1	CLINICAL MEDICINE	1,917,384	21,695,409	11.32
2	CHEMISTRY	1,100,760	9,838,977	8.94
3	PHYSICS	878,941	6,707,851	7.63
4	ENGINEERING	742,882	2,690,700	3.62
5	BIOLOGY & BIOCHEMISTRY	556,147	8,871,892	15.95
6	PLANT & ANIMAL SCIENCE	517,122	3,418,117	6.61
7	MATERIALS SCIENCE	409,618	2,065,941	5.04
8	SOCIAL SCIENCES, GENERAL	378,203	1,444,078	3.82
9	NEUROSCIENCE & BEHAVIOR	289,530	5,017,878	17.33
10	MOLECULAR BIOLOGY & GENETICS	262,065	6,496,116	24.79

	Field	Papers	Citations	Citations Per Paper
11	GEOSCIENCES	251,978	2,056,888	8.16
12	COMPUTER SCIENCE	243,220	677,397	2.79
13	ENVIRONMENT/ECOLOGY	227,657	2,027,470	8.91
14	MATHEMATICS	226,418	645,432	2.85
15	PSYCHIATRY/PSYCHOLOGY	222,709	2,036,366	9.14
16	AGRICULTURAL SCIENCES	169,862	965,930	5.69
17	PHARMACOLOGY & TOXICOLOGY	164,167	1,683,586	10.26
18	MICROBIOLOGY	152,936	2,218,916	14.51
19	ECONOMICS & BUSINESS	144,240	675,990	4.69
20	IMMUNOLOGY	123,106	2,471,903	20.08
21	SPACE SCIENCE	116,157	1,445,893	12.45
22	MULTIDISCIPLINARY	20,990	74,617	3.55

Tabla 3b. Field Rankings. Ranked by Citations

	Field	Papers	Citations	Citations Per Paper
1	CLINICAL MEDICINE	1,917,384	21,695,409	11.32
2	CHEMISTRY	1,100,760	9,838,977	8.94
3	BIOLOGY & BIOCHEMISTRY	556,147	8,871,892	15.95
4	PHYSICS	878,941	6,707,851	7.63
5	MOLECULAR BIOLOGY & GENETICS	262,065	6,496,116	24.79
6	NEUROSCIENCE & BEHAVIOR	289,530	5,017,878	17.33
7	PLANT & ANIMAL SCIENCE	517,122	3,418,117	6.61
8	ENGINEERING	742,882	2,690,700	3.62
9	IMMUNOLOGY	123,106	2,471,903	20.08
10	MICROBIOLOGY	152,936	2,218,916	14.51
11	MATERIALS SCIENCE	409,618	2,065,941	5.04
12	GEOSCIENCES	251,978	2,056,888	8.16
13	PSYCHIATRY/PSYCHOLOGY	222,709	2,036,366	9.14
14	ENVIRONMENT/ECOLOGY	227,657	2,027,470	8.91
15	PHARMACOLOGY & TOXICOLOGY	164,167	1,683,586	10.26
16	SPACE SCIENCE	116,157	1,445,893	12.45
17	SOCIAL SCIENCES, GENERAL	378,203	1,444,078	3.82
18	AGRICULTURAL SCIENCES	169,862	965,930	5.69
19	COMPUTER SCIENCE	243,220	677,397	2.79
20	ECONOMICS & BUSINESS	144,240	675,990	4.69
21	MATHEMATICS	226,418	645,432	2.85
22	MULTIDISCIPLINARY	20,990	74,617	3.55

Tabla 3c. Field Rankings. Ranked by Citations Per Paper

	Field	Papers	Citations	Citations Per Paper
1	MOLECULAR BIOLOGY & GENETICS	262,065	6,496,116	24.79
2	IMMUNOLOGY	123,106	2,471,903	20.08
3	NEUROSCIENCE & BEHAVIOR	289,530	5,017,878	17.33
4	BIOLOGY & BIOCHEMISTRY	556,147	8,871,892	15.95
5	MICROBIOLOGY	152,936	2,218,916	14.51
6	SPACE SCIENCE	116,157	1,445,893	12.45
7	CLINICAL MEDICINE	1,917,384	21,695,409	11.32
8	PHARMACOLOGY & TOXICOLOGY	164,167	1,683,586	10.26
9	PSYCHIATRY/PSYCHOLOGY	222,709	2,036,366	9.14
10	CHEMISTRY	1,100,760	9,838,977	8.94
11	ENVIRONMENT/ECOLOGY	227,657	2,027,470	8.91
12	GEOSCIENCES	251,978	2,056,888	8.16
13	PHYSICS	878,941	6,707,851	7.63
14	PLANT & ANIMAL SCIENCE	517,122	3,418,117	6.61
15	AGRICULTURAL SCIENCES	169,862	965,930	5.69
16	MATERIALS SCIENCE	409,618	2,065,941	5.04
17	ECONOMICS & BUSINESS	144,240	675,990	4.69
18	SOCIAL SCIENCES, GENERAL	378,203	1,444,078	3.82
19	ENGINEERING	742,882	2,690,700	3.62
20	MULTIDISCIPLINARY	20,990	74,617	3.55
21	MATHEMATICS	226,418	645,432	2.85
22	COMPUTER SCIENCE	243,220	677,397	2.79

I.1.2 Producción de España por áreas temáticas

Entre las disciplinas en las que España destaca por número de documentos, podemos mencionar Medicina Clínica (50.000), Química (43.000) seguidas de Física (28.000). En cuanto a su posición respecto al mundo, éstas se hallan en el promedio de España (posición 9-11). Si se comparan con los países de la Unión Europea, sus posiciones suben al 4-6º puesto. Las Ciencias Agrícolas, en cambio, se sitúan en cuarta posición respecto al mundo (8ª por número de documentos respecto a España), seguidas de la Microbiología (6ª posición global y 14ª por número de documentos) y la Ciencia de Plantas y Animales (8ª frente al mundo y 4ª dentro de España). Las Ciencias Agrícolas, además, se sitúan en 2ª posición dentro de los países de la Unión Europea detrás tan sólo de Alemania y con mayores citas por documento que ésta (6,41). Microbiología se sitúa en cuarto lugar entre los países UE, detrás de Alemania, Inglaterra y Francia. Con 11,75 citas por documento supera a Japón (3º por número de documentos en la disciplina). En Ciencia de Plantas y Animales, España también se sitúa en 4º lugar dentro de la UE y, de nuevo, obtiene más citas por documento que Japón.

Tabla 4a. FIELD RANKINGS FOR SPAIN (Papers)

	Field	Papers	Citations	Citations Per Paper	Papers	
					Rank Vs World	Rank Vs EU
1	CLINICAL MEDICINE	50,192	512,538	10.21	10	6
2	CHEMISTRY	42,829	402,14	9.39	9	4
3	PHYSICS	28,005	253,196	9.04	11	5
4	PLANT & ANIMAL SCIENCE	19,762	128,521	6.50	8	4
5	ENGINEERING	19,028	78,033	4.10	13	5
6	BIOLOGY & BIOCHEMISTRY	15,413	182,844	11.86	9	5
7	MATERIALS SCIENCE	10,57	56,239	5.32	11	4
8	AGRICULTURAL SCIENCES	10,292	65,987	6.41	4	2
9	MATHEMATICS	10,034	27,291	2.72	10	5
10	ENVIRONMENT/ECOLOGY	8,632	69,945	8.10	9	4
11	NEUROSCIENCE & BEHAVIOR	8,608	114,718	13.33	9	5
12	COMPUTER SCIENCE	8,596	16,586	1.93	10	5
13	MOLECULAR BIOLOGY & GENETICS	7,104	132,313	18.63	6	9
14	MICROBIOLOGY	6,872	80,754	11.75	6	4
15	SPACE SCIENCE	6,427	79,583	12.38	8	5
16	GEOSCIENCES	6,282	44,142	7.03	12	5
17	PSYCHIATRY/PSYCHOLOGY	4,857	22,721	4.68	8	5
18	PHARMACOLOGY & TOXICOLOGY	4,68	39,308	8.40	11	5
19	ECONOMICS & BUSINESS	3,632	11,681	3.22	8	4
20	IMMUNOLOGY	3,227	47,188	14.62	12	7
21	SOCIAL SCIENCES, GENERAL	3,2	9,468	2.96	12	7
22	MULTIDISCIPLINARY	178	1,394	7.83	17	5
	ALL FIELDS*	278,42	2,376,590	8.54	10	5

Tabla 4b. FIELD RANKINGS FOR SPAIN (Citations)

	Field	Papers	Citations	Citations Per Paper
1	CLINICAL MEDICINE	50,192	512,538	10.21
2	CHEMISTRY	42,829	402,14	9.39
3	PHYSICS	28,005	253,196	9.04
4	BIOLOGY & BIOCHEMISTRY	15,413	182,844	11.86
5	MOLECULAR BIOLOGY & GENETICS	7,104	132,313	18.63
6	PLANT & ANIMAL SCIENCE	19,762	128,521	6.50
7	NEUROSCIENCE & BEHAVIOR	8,608	114,718	13.33
8	MICROBIOLOGY	6,872	80,754	11.75
9	SPACE SCIENCE	6,427	79,583	12.38
10	ENGINEERING	19,028	78,033	4.10

	Field	Papers	Citations	Citations Per Paper
11	ENVIRONMENT/ECOLOGY	8,632	69,945	8.10
12	AGRICULTURAL SCIENCES	10,292	65,987	6.41
13	MATERIALS SCIENCE	10,57	56,239	5.32
14	IMMUNOLOGY	3,227	47,188	14.62
15	GEOSCIENCES	6,282	44,142	7.03
16	PHARMACOLOGY & TOXICOLOGY	4,68	39,308	8.40
17	MATHEMATICS	10,034	27,291	2.72
18	PSYCHIATRY/PSYCHOLOGY	4,857	22,721	4.68
19	COMPUTER SCIENCE	8,596	16,586	1.93
20	ECONOMICS & BUSINESS	3,632	11,681	3.22
21	SOCIAL SCIENCES, GENERAL	3,2	9,468	2.96
22	MULTIDISCIPLINARY	178	1,394	7.83
	ALL FIELDS*	278,42	2,376,590	8.54

Si tenemos en cuenta las citas por documento, en España destacan la Biología Molecular & Genética (18,63), la Inmunología (14,62) y la Neurociencia & Comportamiento (13,33). La primera se sitúa en la posición 40 del ranking mundial y en la 15ª entre los países europeos (aunque ISI divide el Reino Unido en Inglaterra, Escocia, Irlanda del Norte y Gales). Si de entre éstos consideráramos sólo los países con más de 1.000 documentos, España pasaría a ocupar la posición 15. Lo mismo sucede con Inmunología, aunque ésta ocupa la posición 14 entre los países de la Unión Europea (y la 10 considerando a los países con más de 1.000 documentos) subiendo desde una posición 41 inicial. Por su parte, Neurociencia y Comportamiento pasa de la posición 30 global a la 16 dentro de la UE (14 si sólo consideramos los países con más de 1.000 documentos).

Si tenemos en cuenta el promedio mundial de citas por documento, España destaca en el área Multidisciplinar (con más de 2 citas que el promedio), Física (9 citas frente a 7), Ingeniería, Ciencias Agrícolas, Química, Ciencia de Materiales y Ciencias del Espacio (todas ellas por encima del promedio mundial).

Tabla 4c. FIELD RANKINGS FOR SPAIN (Citations Per Paper)

	Field	Papers	Citations	Citations Per Paper	Relative Citations Rate
1	MOLECULAR BIOLOGY & GENETICS	7,104	132,313	18.63	0,75
2	IMMUNOLOGY	3,227	47,188	14.62	0,76
3	NEUROSCIENCE & BEHAVIOR	8,608	114,718	13.33	0,77
4	SPACE SCIENCE	6,427	79,583	12.38	0,99
5	BIOLOGY & BIOCHEMISTRY	15,413	182,844	11.86	0,74
6	MICROBIOLOGY	6,872	80,754	11.75	0,81
7	CLINICAL MEDICINE	50,192	512,538	10.21	0,90
8	CHEMISTRY	42,829	402,14	9.39	1,05
9	PHYSICS	28,005	253,196	9.04	1,18
10	PHARMACOLOGY & TOXICOLOGY	4,68	39,308	8.40	0,82
11	ENVIRONMENT/ECOLOGY	8,632	69,945	8.10	0,91

	Field	Papers	Citations	Citations Per Paper	Relative Citations Rate
12	MULTIDISCIPLINARY	178	1,394	7.83	2,21
13	GEOSCIENCES	6,282	44,142	7.03	0,86
14	PLANT & ANIMAL SCIENCE	19,762	128,521	6.50	0,98
15	AGRICULTURAL SCIENCES	10,292	65,987	6.41	1,13
16	MATERIALS SCIENCE	10,57	56,239	5.32	1,06
17	PSYCHIATRY/PSYCHOLOGY	4,857	22,721	4.68	0,51
18	ENGINEERING	19,028	78,033	4.10	1,13
19	ECONOMICS & BUSINESS	3,632	11,681	3.22	0,69
20	SOCIAL SCIENCES, GENERAL	3,2	9,468	2.96	0,77
21	MATHEMATICS	10,034	27,291	2.72	0,95
22	COMPUTER SCIENCE	8,596	16,586	1.93	0,69
	ALL FIELDS*	278,42	2,376,590	8.54	0,91

I.1.3 Ranking mundial en cuanto a la producción científica en cada área temática

Tabla 5. COUNTRY/TERRITORY RANKINGS IN CLINICAL MEDICINE (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	696,917	10,958,169	15.72
2	GERMANY	170,011	1,874,691	11.03
3	ENGLAND	164,842	2,278,904	13.82
4	JAPAN	164,282	1,544,345	9.40
5	FRANCE	109,609	1,258,428	11.48
6	ITALY	94,529	1,192,641	12.62
7	CANADA	83,125	1,287,266	15.49
8	NETHERLANDS	63,004	1,006,448	15.97
9	AUSTRALIA	56,214	706,47	12.57
10	SPAIN	50,192	512,538	10.21
11	SWEDEN	46,067	690,223	14.98
12	SWITZERLAND	39,097	593,219	15.17
13	TURKEY	36,124	128,334	3.55
14	PEOPLES R CHINA	33,301	230,49	6.92
15	BELGIUM	30,114	453,888	15.07
16	ISRAEL	25,897	272,248	10.51
17	AUSTRIA	25,371	295,57	11.65
18	SOUTH KOREA	24,257	162,099	6.68
19	TAIWAN	24,205	168,517	6.96
20	SCOTLAND	23,368	361,797	15.48

Tabla 6. COUNTRY/TERRITORY RANKINGS IN CHEMISTRY (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	224,115	3,319,556	14.81
2	PEOPLES R CHINA	123,706	557,254	4.50
3	JAPAN	119,497	1,104,034	9.24
4	GERMANY	97,949	1,063,432	10.86
5	FRANCE	66,202	671,69	10.15
6	RUSSIA	61,494	182,761	2.97
7	ENGLAND	57,939	693,919	11.98
8	INDIA	52,367	267,739	5.11
9	SPAIN	42,829	402,14	9.39
10	ITALY	40,821	408,431	10.01
11	CANADA	31,766	360,069	11.34
12	SOUTH KOREA	30,693	206,802	6.74
13	POLAND	27,107	148,832	5.49
14	NETHERLANDS	19,059	280,022	14.69
15	SWITZERLAND	18,015	258,547	14.35
16	AUSTRALIA	17,426	175,727	10.08
17	TAIWAN	17,36	118,541	6.83
18	BRAZIL	16,305	94,654	5.81
19	SWEDEN	14,811	181,066	12.23
20	BELGIUM	12,748	133,093	10.44

Tabla 7. COUNTRY/TERRITORY RANKINGS IN PHYSICS (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	214,921	2,640,953	12.29
2	JAPAN	115,178	875,125	7.60
3	GERMANY	103,239	1,070,918	10.37
4	PEOPLES R CHINA	84,295	355,025	4.21
5	RUSSIA	79,525	446,609	5.62
6	FRANCE	73,075	664,425	9.09
7	ENGLAND	54,305	561,016	10.33
8	ITALY	48,954	437,471	8.94
9	SOUTH KOREA	31,661	184,879	5.84
10	INDIA	28,171	156,877	5.57
11	SPAIN	28,005	253,196	9.04
12	CANADA	24,361	230,734	9.47
13	POLAND	24,179	164,723	6.81
14	SWITZERLAND	21,933	296,26	13.51
15	BRAZIL	19,71	118,385	6.01
16	NETHERLANDS	17,165	200,738	11.69
17	TAIWAN	17,14	89,843	5.24

	Country/Territory	Papers	Citations	Citations Per Paper
18	SWEDEN	15,228	145,718	9.57
19	AUSTRALIA	14,94	123,263	8.25
20	ISRAEL	13,864	143,14	10.32

Tabla 8. COUNTRY/TERRITORY RANKINGS IN PLANT & ANIMAL SCIENCE (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	152,81	1,325,760	8.68
2	JAPAN	37,965	239,836	6.32
3	GERMANY	36,228	293,605	8.10
4	CANADA	31,375	244,976	7.81
5	ENGLAND	30,702	331,972	10.81
6	FRANCE	26,928	222,643	8.27
7	AUSTRALIA	25,375	194,115	7.65
8	SPAIN	19,762	128,521	6.50
9	INDIA	18,419	40,425	2.19
10	PEOPLES R CHINA	17,214	63,25	3.67
11	BRAZIL	16,006	49,732	3.11
12	ITALY	15,334	87,93	5.73
13	NETHERLANDS	12,689	123,182	9.71
14	SCOTLAND	10,245	99,297	9.69
15	SWEDEN	9,591	91,323	9.52
16	POLAND	9,53	26,767	2.81
17	BELGIUM	8,65	66,893	7.73
18	SWITZERLAND	8,257	77,981	9.44
19	SOUTH AFRICA	8,089	37,236	4.60
20	NEW ZEALAND	7,701	53,68	6.97

Tabla 9. COUNTRY/TERRITORY RANKINGS IN ENGINEERING (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	198,727	1,008,015	5.07
2	JAPAN	66,127	216,636	3.28
3	PEOPLES R CHINA	52,23	137,529	2.63
4	ENGLAND	46,175	199,641	4.32
5	GERMANY	44,983	209,656	4.66
6	FRANCE	36,164	163,492	4.52
7	CANADA	31,88	128,334	4.03
8	ITALY	31,193	126,426	4.05
9	SOUTH KOREA	26,582	73,36	2.76
10	TAIWAN	24,982	78,642	3.15

	Country/Territory	Papers	Citations	Citations Per Paper
11	RUSSIA	24,718	55,178	2.23
12	INDIA	21,128	54,12	2.56
13	SPAIN	19,028	78,033	4.10
14	AUSTRALIA	16,619	72,621	4.37
15	NETHERLANDS	13,29	68,312	5.14
16	SINGAPORE	11,011	38,538	3.50
17	SWEDEN	10,119	51,568	5.10
18	TURKEY	10,05	29,545	2.94
19	SWITZERLAND	9,901	60,039	6.06
20	POLAND	9,844	32,637	3.32

Tabla 10. COUNTRY/TERRITORY RANKINGS IN BIOLOGY & BIOCHEMISTRY (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	205,419	4,651,264	22.64
2	JAPAN	62,725	838,368	13.37
3	GERMANY	44,871	820,936	18.30
4	ENGLAND	41,182	824,231	20.01
5	FRANCE	35,493	547,313	15.42
6	CANADA	26,212	462,386	17.64
7	ITALY	23,632	289,518	12.25
8	PEOPLES R CHINA	19,467	98,41	5.06
9	SPAIN	15,413	182,844	11.86
10	AUSTRALIA	14,855	231,699	15.60
11	SWEDEN	13,935	248,565	17.84
12	NETHERLANDS	12,528	224,967	17.96
13	SOUTH KOREA	11,887	96,624	8.13
14	INDIA	11,768	68,188	5.79
15	RUSSIA	11,486	80,249	6.99
16	SWITZERLAND	10,669	247,183	23.17
17	BRAZIL	8,758	55,865	6.38
18	POLAND	8,231	56,853	6.91
19	DENMARK	7,873	137,823	17.51
20	SCOTLAND	7,74	159,802	20.65

Tabla 11. COUNTRY/TERRITORY RANKINGS IN MATERIALS SCIENCE (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	71,573	618,123	8.64
2	PEOPLES R CHINA	58,189	180,605	3.10
3	JAPAN	53,308	284,593	5.34

	Country/Territory	Papers	Citations	Citations Per Paper
4	GERMANY	34,243	206,166	6.02
5	FRANCE	22,827	141,16	6.18
6	ENGLAND	21,163	144,646	6.83
7	SOUTH KOREA	20,532	90,584	4.41
8	RUSSIA	17,416	38,322	2.20
9	INDIA	17,205	64,197	3.73
10	CANADA	11,083	63,772	5.75
11	SPAIN	10,57	56,239	5.32
12	ITALY	10,116	55,495	5.49
13	TAIWAN	9,826	45,482	4.63
14	POLAND	7,962	22,241	2.79
15	UKRAINE	7,636	10,947	1.43
16	AUSTRALIA	7,053	37,476	5.31
17	SWEDEN	6,473	39,315	6.07
18	BRAZIL	5,396	20,323	3.77
19	SINGAPORE	4,935	29,159	5.91
20	NETHERLANDS	4,926	40,457	8.21

Tabla 12. COUNTRY/TERRITORY RANKINGS IN MATHEMATICS (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	65,674	263,744	4.02
2	FRANCE	22,557	75,032	3.33
3	PEOPLES R CHINA	20,051	42,191	2.10
4	GERMANY	18,633	63,303	3.40
5	JAPAN	12,369	27,853	2.25
6	RUSSIA	12,273	17,512	1.43
7	ITALY	12,181	35,205	2.89
8	ENGLAND	11,496	46,139	4.01
9	CANADA	11,389	36,092	3.17
10	SPAIN	10,034	27,291	2.72
11	AUSTRALIA	5,876	20,935	3.56
12	ISRAEL	4,966	17,018	3.43
13	POLAND	4,904	10,329	2.11
14	SOUTH KOREA	4,414	8,857	2.01
15	INDIA	4,347	7,264	1.67
16	BRAZIL	3,588	8,544	2.38
17	NETHERLANDS	3,578	13,117	3.67
18	TAIWAN	3,04	8,207	2.70
19	BELGIUM	3,028	10,806	3.57
20	SWEDEN	2,71	9,633	3.55

Tabla 13. COUNTRY/TERRITORY RANKINGS IN AGRICULTURAL SCIENCES (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	40,936	314,328	7.68
2	JAPAN	11,717	49,23	4.20
3	GERMANY	10,785	58,578	5.43
4	SPAIN	10,292	65,987	6.41
5	INDIA	9,572	19,595	2.05
6	FRANCE	8,448	63,945	7.57
7	ENGLAND	7,879	71,269	9.05
8	CANADA	7,57	53,927	7.12
9	AUSTRALIA	7,102	46,337	6.52
10	ITALY	6,181	40,005	6.47
11	BRAZIL	5,461	14,465	2.65
12	NETHERLANDS	4,33	40,595	9.38
13	PEOPLES R CHINA	4,184	14,312	3.42
14	TURKEY	3,139	10,669	3.40
15	NEW ZEALAND	2,863	18,073	6.31
16	SOUTH KOREA	2,824	11,599	4.11
17	DENMARK	2,667	23,725	8.90
18	BELGIUM	2,592	19,321	7.45
19	MEXICO	2,368	9,185	3.88
20	RUSSIA	2,16	3,614	1.67

Tabla 14. COUNTRY/TERRITORY RANKINGS IN NEUROSCIENCE & BEHAVIOR (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	122,434	2,797,925	22.85
2	GERMANY	27,421	497,299	18.14
3	JAPAN	26,159	341,304	13.05
4	ENGLAND	23,863	531,591	22.28
5	CANADA	18,337	344,742	18.80
6	ITALY	17,566	238,167	13.56
7	FRANCE	17,19	295,925	17.21
8	NETHERLANDS	8,728	139,258	15.96
9	SPAIN	8,608	114,718	13.33
10	SWEDEN	7,477	138,197	18.48
11	AUSTRALIA	7,188	107,965	15.02
12	SWITZERLAND	6,432	135,242	21.03
13	BRAZIL	5,681	38,316	6.74
14	PEOPLES R CHINA	4,641	36,5	7.86
15	ISRAEL	4,165	72,649	17.44
16	BELGIUM	3,521	59,085	16.78
17	SOUTH KOREA	3,39	32,354	9.54

	Country/Territory	Papers	Citations	Citations Per Paper
18	FINLAND	3,358	56,63	16.86
19	SCOTLAND	3,203	61,106	19.08
20	AUSTRIA	2,861	50,942	17.81

Tabla 15. COUNTRY/TERRITORY RANKINGS IN ENVIRONMENT/ECOLOGY (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	80,018	916,623	11.46
2	CANADA	17,081	177,657	10.40
3	ENGLAND	16,627	207,729	12.49
4	GERMANY	13,69	137,777	10.06
5	AUSTRALIA	10,957	113,371	10.35
6	FRANCE	10,609	103,645	9.77
7	PEOPLES R CHINA	9,692	41,616	4.29
8	JAPAN	8,73	59,559	6.82
9	SPAIN	8,632	69,945	8.10
10	SWEDEN	7,035	88,057	12.52
11	NETHERLANDS	6,756	82,938	12.28
12	ITALY	6,673	50,698	7.60
13	INDIA	5,57	22,072	3.96
14	SWITZERLAND	4,376	57,75	13.20
15	BRAZIL	4,316	28,067	6.50
16	FINLAND	4,134	45,015	10.89
17	SCOTLAND	4,021	51,651	12.85
18	DENMARK	3,903	48,753	12.49
19	NEW ZEALAND	3,501	34,907	9.97
20	BELGIUM	3,454	32,875	9.52

Tabla 16. COUNTRY/TERRITORY RANKINGS IN COMPUTER SCIENCE (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	70,880	335,86	4.74
2	GERMANY	18,984	51,185	2.70
3	PEOPLES R CHINA	17,000	22,113	1.30
4	ENGLAND	15,706	54,71	3.48
5	JAPAN	14,612	31,919	2.18
6	FRANCE	14,282	41,799	2.93
7	SOUTH KOREA	12,018	14,186	1.18
8	ITALY	11,416	31,603	2.77
9	CANADA	10,878	32,7	3.01
10	SPAIN	8,596	16,586	1.93

	Country/Territory	Papers	Citations	Citations Per Paper
11	TAIWAN	7,331	14,67	2.00
12	AUSTRALIA	6,528	18,717	2.87
13	NETHERLANDS	5,822	17,041	2.93
14	ISRAEL	4,291	19,01	4.43
15	SWITZERLAND	3,849	14,452	3.75
16	SINGAPORE	3,604	8,798	2.44
17	INDIA	3,591	7,125	1.98
18	GREECE	3,51	6,38	1.82
19	RUSSIA	3,206	3,558	1.11
20	BELGIUM	3,205	9,277	2.89

Tabla 17. COUNTRY/TERRITORY RANKINGS IN MOLECULAR BIOLOGY & GENETICS (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	120,194	3,983,578	33.14
2	GERMANY	25,827	704,659	27.28
3	JAPAN	25,63	545,904	21.30
4	ENGLAND	23,478	753,135	32.08
5	FRANCE	18,699	481,418	25.75
6	CANADA	13,77	360,635	26.19
7	ITALY	11,422	225,091	19.71
8	NETHERLANDS	7,289	198,414	27.22
9	SPAIN	7,104	132,313	18.63
10	AUSTRALIA	6,741	154,612	22.94
11	SWITZERLAND	6,551	218,675	33.38
12	RUSSIA	6,133	39,197	6.39
13	PEOPLES R CHINA	5,847	52,234	8.93
14	SWEDEN	5,408	134,72	24.91
15	SCOTLAND	4,523	143,093	31.64
16	ISRAEL	3,711	110,414	29.75
17	BRAZIL	3,664	26,28	7.17
18	BELGIUM	3,637	84,182	23.15
19	SOUTH KOREA	3,323	35,693	10.74
20	INDIA	2,961	22,751	7.68

Tabla 18. COUNTRY/TERRITORY RANKINGS IN MICROBIOLOGY (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	52,782	1,073,976	20.35
2	GERMANY	14,969	253,357	16.93
3	JAPAN	13,649	149,085	10.92

	Country/Territory	Papers	Citations	Citations Per Paper
4	ENGLAND	12,255	231,766	18.91
5	FRANCE	11,773	198,056	16.82
6	SPAIN	6,872	80,754	11.75
7	CANADA	6,171	97,662	15.83
8	ITALY	5,081	56,341	11.09
9	NETHERLANDS	4,873	91,813	18.84
10	SOUTH KOREA	4,719	27,925	5.92
11	AUSTRALIA	4,684	71,618	15.29
12	BRAZIL	3,785	24,985	6.60
13	PEOPLES R CHINA	3,595	24,127	6.71
14	RUSSIA	3,595	19,398	5.40
15	SWITZERLAND	3,155	63,896	20.25
16	SCOTLAND	3,152	52,896	16.78
17	SWEDEN	3,05	50,385	16.52
18	BELGIUM	2,961	52,754	17.82
19	INDIA	2,948	18,872	6.40
20	DENMARK	2,228	39,803	17.86

Tabla 19. COUNTRY/TERRITORY RANKINGS IN SPACE SCIENCE (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	54,231	939,285	17.32
2	GERMANY	16,829	264,776	15.73
3	ENGLAND	15,226	256,831	16.87
4	FRANCE	13,518	174,879	12.94
5	ITALY	11,267	162,25	14.40
6	RUSSIA	8,488	53,191	6.27
7	JAPAN	8,377	98,476	11.76
8	SPAIN	6,427	79,583	12.38
9	NETHERLANDS	5,665	98,755	17.43
10	CANADA	5,257	93,231	17.73
11	PEOPLES R CHINA	4,785	26,162	5.47
12	AUSTRALIA	4,754	82,886	17.44
13	CHILE	2,913	50,301	17.27
14	INDIA	2,863	18,15	6.34
15	SWITZERLAND	2,648	40,195	15.18
16	POLAND	2,498	28,182	11.28
17	BRAZIL	2,288	21,237	9.28
18	MEXICO	2,263	25,533	11.28
19	SCOTLAND	2,188	41,977	19.19
20	SWEDEN	2,067	28,836	13.95

Tabla 20. COUNTRY/TERRITORY RANKINGS IN GEOSCIENCES (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	84,867	1,023,398	12.06
2	ENGLAND	23,289	263,083	11.30
3	GERMANY	22,848	247,276	10.82
4	FRANCE	21,562	219,45	10.18
5	RUSSIA	19,196	64,063	3.34
6	CANADA	17,956	164,98	9.19
7	PEOPLES R CHINA	16,003	83,103	5.19
8	JAPAN	14,97	110,671	7.39
9	AUSTRALIA	12,382	131,782	10.64
10	ITALY	11,317	84,516	7.47
11	INDIA	7,51	28,101	3.74
12	SPAIN	6,282	44,142	7.03
13	SWITZERLAND	6,151	74,933	12.18
14	NETHERLANDS	6,115	68,115	11.14
15	SWEDEN	4,5	44,633	9.92
16	NORWAY	4,321	40,357	9.34
17	SCOTLAND	3,757	35,437	9.43
18	BRAZIL	3,225	21,168	6.56
19	DENMARK	3,078	33,696	10.95
20	NEW ZEALAND	3,03	26,783	8.84

Tabla 21. COUNTRY/TERRITORY RANKINGS IN PHARMACOLOGY & TOXICOLOGY (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	49,145	687,121	13.98
2	JAPAN	20,505	166,954	8.14
3	GERMANY	12,226	135,583	11.09
4	ENGLAND	11,177	165,832	14.84
5	FRANCE	8,418	98,281	11.68
6	ITALY	8,096	83,518	10.32
7	PEOPLES R CHINA	7,118	31,117	4.37
8	CANADA	6,141	78,246	12.74
9	SOUTH KOREA	5,493	31,371	5.71
10	INDIA	5,015	26,377	5.26
11	SPAIN	4,68	39,308	8.40
12	NETHERLANDS	3,884	48,535	12.50
13	AUSTRALIA	3,654	40,307	11.03
14	BRAZIL	3,384	20,378	6.02
15	SWEDEN	3,33	45,25	13.59
16	SWITZERLAND	2,925	47,671	16.30
17	TAIWAN	2,86	19,956	6.98

	Country/Territory	Papers	Citations	Citations Per Paper
18	BELGIUM	2,455	28,68	11.68
19	POLAND	2,438	14,664	6.01
20	TURKEY	2,265	12,393	5.47

Tabla 22. COUNTRY/TERRITORY RANKINGS IN PSYCHIATRY/PSYCHOLOGY (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	118,66	1,304,402	10.99
2	ENGLAND	23,065	246,777	10.70
3	CANADA	16,052	164,448	10.24
4	GERMANY	15,407	109,705	7.12
5	AUSTRALIA	9,813	79,612	8.11
6	NETHERLANDS	8,675	84,635	9.76
7	FRANCE	5,258	40,363	7.68
8	SPAIN	4,857	22,721	4.68
9	JAPAN	4,103	19,412	4.73
10	ITALY	4,088	39,018	9.54
11	ISRAEL	3,943	31,465	7.98
12	SWEDEN	3,257	28,765	8.83
13	SWITZERLAND	2,68	18,35	6.85
14	SCOTLAND	2,645	26,784	10.13
15	BELGIUM	2,571	21,064	8.19
16	NEW ZEALAND	2,177	19,947	9.16
17	FINLAND	2,087	19,362	9.28
18	PEOPLES R CHINA	2,01	10,395	5.17
19	NORWAY	1,873	13,793	7.36
20	WALES	1,813	19,292	10.64

Tabla 23. COUNTRY/TERRITORY RANKINGS IN ECONOMICS & BUSINESS (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	64,866	469,351	7.24
2	ENGLAND	16,751	84,832	5.06
3	CANADA	7,709	37,431	4.86
4	GERMANY	5,941	18,92	3.18
5	AUSTRALIA	5,23	17,877	3.42
6	NETHERLANDS	4,933	23,467	4.76
7	FRANCE	4,8	20,838	4.34
8	SPAIN	3,632	11,681	3.22
9	ITALY	3,084	11,079	3.59
10	PEOPLES R CHINA	2,747	9,89	3.60
11	JAPAN	2,421	5,833	2.41

	Country/Territory	Papers	Citations	Citations Per Paper
12	SWEDEN	2,272	12,028	5.29
13	BELGIUM	1,980	9,508	4.80
14	SCOTLAND	1,782	7,954	4.46
15	ISRAEL	1,772	9,924	5.60
16	TAIWAN	1,657	3,788	2.29
17	SWITZERLAND	1,647	8,492	5.16
18	SOUTH KOREA	1,549	5,481	3.54
19	DENMARK	1,400	6,169	4.41
20	NORWAY	1,296	5,005	3.86

Tabla 24. COUNTRY/TERRITORY RANKINGS IN IMMUNOLOGY (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	54,377	1,381,430	25.40
2	ENGLAND	11,301	239,24	21.17
3	JAPAN	10,46	212,166	20.28
4	GERMANY	10,236	221,1	21.60
5	FRANCE	8,594	181,499	21.12
6	ITALY	6,006	115,441	19.22
7	CANADA	5,265	104,297	19.81
8	NETHERLANDS	4,833	98,198	20.32
9	AUSTRALIA	4,654	94,108	20.22
10	SWEDEN	4,566	70,2	15.37
11	SWITZERLAND	3,915	111,503	28.48
12	SPAIN	3,227	47,188	14.62
13	BELGIUM	2,025	40,46	19.98
14	BRAZIL	1,99	18,826	9.46
15	DENMARK	1,955	31,282	16.00
16	PEOPLES R CHINA	1,917	12,167	6.35
17	ISRAEL	1,739	30,663	17.63
18	AUSTRIA	1,595	28,583	17.92
19	SCOTLAND	1,59	31,63	19.89
20	SOUTH KOREA	1,42	13,703	9.65

Tabla 25. COUNTRY/TERRITORY RANKINGS IN SOCIAL SCIENCES, GENERAL (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	188,712	922,578	4.89
2	ENGLAND	40,544	170,653	4.21
3	CANADA	20,161	81,971	4.07
4	AUSTRALIA	14,664	54,838	3.74
5	GERMANY	10,739	26,379	2.46

	Country/Territory	Papers	Citations	Citations Per Paper
6	NETHERLANDS	8,575	39,068	4.56
7	FRANCE	5,437	16,086	2.96
8	SWEDEN	5,360	24,243	4.52
9	SCOTLAND	5,237	21,75	4.15
10	ISRAEL	4,521	14,054	3.11
11	PEOPLES R CHINA	4,151	10,593	2.55
12	SPAIN	3,200	9,468	2.96
13	JAPAN	3,104	8,674	2.79
14	ITALY	3,056	11,43	3.74
15	NEW ZEALAND	2,903	10,335	3.56
16	RUSSIA	2,899	2,612	0.90
17	NORWAY	2,694	11,149	4.14
18	WALES	2,658	13,059	4.91
19	BRAZIL	2,615	5,792	2.21
20	SOUTH AFRICA	2,611	7,869	3.01

Tabla 26. COUNTRY/TERRITORY RANKINGS IN MULTIDISCIPLINARY (Papers)

	Country/Territory	Papers	Citations	Citations Per Paper
1	USA	5,177	49,624	9.59
2	RUSSIA	2,641	1,325	0.50
3	INDIA	2,08	2,745	1.32
4	PEOPLES R CHINA	1,708	3,205	1.88
5	ENGLAND	1,221	6,442	5.28
6	FRANCE	782	4,028	5.15
7	GERMANY	704	5,496	7.81
8	BYELARUS	490	143	0.29
9	JAPAN	489	4,618	9.44
10	SOUTH AFRICA	444	898	2.02
11	CANADA	401	2,566	6.40
12	AUSTRALIA	337	1,689	5.01
13	ITALY	311	1,916	6.16
14	IRAN	215	34	0.16
15	ISRAEL	191	1,28	6.70
16	NETHERLANDS	181	1,463	8.08
17	SPAIN	178	1,394	7.83
18	SWEDEN	174	1,563	8.98
19	SWITZERLAND	172	2,602	15.13
20	BRAZIL	141	229	1.62

I.2 Áreas temáticas utilizadas en los Essential Science Indicators²

Los Essential Science Indicators están clasificados en grandes áreas, cuyo contenido temático se refleja tal cual se expresa en la base de datos. Se corresponde con revistas, aunque no se especifican.

AGRICULTURAL SCIENCES

The AGRICULTURAL SCIENCES category covers journals in general agriculture, agricultural chemistry and agronomy:

- agricultural engineering
- agronomy
- tillage research
- agroforestry
- horticulture
- crop protection and science
- agrochemistry
- phytochemistry
- agricultural biochemistry
- food chemistry
- cereal chemistry
- carbohydrate and lipid research
 - food science and nutrition
 - composition, additives and contaminants
 - microbiology and technology
 - engineering and processing
 - meat and dairy science
 - nutrition science
 - nutrition and metabolism
 - nutritional biochemistry

BIOLOGY & BIOCHEMISTRY

The BIOLOGY & BIOCHEMISTRY category covers journals on a broad range of topics in biology and biochemistry:

- structure and chemistry of biological molecules
- molecular, cellular and clinical studies of the endocrine system
- regulation of cell, organ and system functions by hormones
- experimental research in general biology and biological systems
- regulation of biological functions at the whole organism level
- exploitation of living organisms or their components
- industrial microbiology
- pollution remediation
- industrial chemicals and enzymes
- biosensors
- bioelectronics
- pesticide development
- food, flavor and fragrance industry applications
- waste treatment

² Essential Science Indicators 2006. The Thomson Corporation. <http://www.in-cites.com/a-prod/esi.html> [consulta: 28 dic 2006].

CHEMISTRY

The CHEMISTRY category includes journals that cover a broad spectrum of topics in the chemical sciences. Miscellaneous and applied chemistry journals are also placed in this category.

- analytical chemistry
- spectroscopy
- instrumentation
- inorganic and nuclear chemistry
- organic chemistry
- physical chemistry
- polymer science
- food chemistry
- chemical methods and structures
- natural and laboratory syntheses
- isolation and analysis of clinically significant molecules
- medicinal chemistry
- chemical engineering

CLINICAL MEDICINE

The CLINICAL MEDICINE category covers journals dealing with a wide range of medical and biomedical topics:

- anaesthesia
- cardiovascular medicine
- dentistry
- dermatology
- general & internal medicine
- endocrinology
- environmental medicine
- gastroenterology
- gynecology
- hepatology
- hematology
- nephrology
- nuclear medicine
- obstetrics
- oncology
- ophthalmology
- otolaryngology
- pediatrics
- pharmacology
- radiology
- toxicology
- respiratory medicine
- rheumatology
- surgery
- urology

COMPUTER SCIENCE

The COMPUTER SCIENCE category includes journals on:

- computer hardware and architecture
- computer software
- software engineering and design
- computer graphics
- programming languages
- theoretical computing
- computing methodologies
- broad computing topics
- interdisciplinary computer applications
- information systems and information technology
- acquisition, processing, storage, management, and dissemination of information
- communications via various devices and systems

ENVIRONMENT/ECOLOGY

The ENVIRONMENT/ECOLOGY category covers natural history journals and interrelated disciplines on:

- pure and applied ecology
- ecological modeling and engineering
- ecotoxicology
- evolutionary ecology
- environmental contamination and toxicology
- environmental health
- environmental monitoring and management
- environmental technology
- environmental geology
- soil science and conservation
- water resources research and engineering
- climate change
- biodiversity conservation
- Natural history journals are also included here

ECONOMICS & BUSINESS

The ECONOMICS & BUSINESS category includes journals on:

- theoretical, political, agricultural, and developmental economics
- business
- finance
- management
- organizational science
- strategic planning and decision-making methods
- industrial relations and labor

ENGINEERING

The ENGINEERING category includes publications in a number of engineering disciplines:

- aerospace engineering
- mechanical engineering
- nuclear energy
- electrical and electronics engineering
- civil engineering
 - water resources and supply
 - transportation, and municipal engineering
- effects of humans on the environment
- controls to minimize environmental degradation
- artificial intelligence
- robotics and automatic control
- engineering mathematics
 - mathematical modeling
 - optimization techniques
 - statistical methods in engineering systems
- development, manufacture, and application of instruments

GEOSCIENCES

The GEOSCIENCES category includes journals that deal with all aspects of geoscience:

- geology
- geochemistry
- geophysics
- geotechnics
- economic geology
- petrochemistry
- mineralogy
- meteorology and atmospheric sciences
- hydrology
- oceanography
- petroleum geology
- volcanology
- seismology
- climatology
- paleontology
- remote sensing
- geodesy
- geological, petroleum and mining engineering

IMMUNOLOGY

The IMMUNOLOGY category incorporates journals containing:

- cellular & molecular studies in immunology
- clinical research in immunopathology
- infectious diseases
- autoimmunity and allergy
- host-pathogen interactions in infectious disease
- experimental therapeutic applications of immunomodulating agents

MATERIALS SCIENCE

The MATERIALS SCIENCE category deals with journals covering the admixtures of matter or the basic materials from which products are constructed:

- ceramics
- paper and wood products
- polymers
- textiles
- composites
- coatings & films
- biomaterials
- metals and alloys
- metallurgy
- application of chemistry to materials design and testing
- superconductors and semiconductors
- ferroelectrics
- dielectrics

MATHEMATICS

The MATHEMATICS category is comprises journals dealing with:

- pure mathematics
- applied mathematics
- statistics and probability

MICROBIOLOGY

The MICROBIOLOGY category contains journals dealing with:

- biology & biochemistry of microorganisms (bacterial, viral and parasitic)
- medical implications of the subsets of these organisms known to cause diseases
- biotechnology applications of microorganisms for basic science or clinical use

MOLECULAR BIOLOGY & GENETICS

The MOLECULAR BIOLOGY & GENETICS category covers all aspects of basic and applied genetics, and research that has specific emphasis on cellular functions in eukaryotic systems:

- biochemistry
- molecular biology
- biophysics
- pharmacology
- receptor biology
- signal transduction
- regulation of gene expression
- developmental genetics and biology
- morphogenesis
- cell-environment interactions
- molecular genetics
- mechanisms of mutagenesis
- structure, function and regulation of genetic material
- clinical genetics, patterns of inheritance, genetic causes, and screening and treatment of diseases

MULTIDISCIPLINARY

The MULTIDISCIPLINARY category includes journals of a broad or general character in the sciences and covers the spectrum of major scientific disciplines. It also includes journals devoted to a multidisciplinary approach to the study of particular regions, ecosystems or biological systems, and interdisciplinary journals designed to illuminate significant connections between fields.

NEUROSCIENCE & BEHAVIOR

The NEUROSCIENCE & BEHAVIOR category includes journals which cover:

- cellular and molecular neuroscience
- neuronal development
- basic and clinical neurology
- psychopharmacology
- biobehavioral psychology
- molecular psychology
- neuronal function underlying higher cognitive processes

PHARMACOLOGY

The PHARMACOLOGY category includes journals dealing with:

- pharmacology
- pharmaceutics
- cellular and molecular pharmacology
- drug design and metabolism
- mechanisms of drug action
- drug delivery
- natural products
- xenobiotics
- mechanisms of action for clinical therapeutics.
- toxicology
 - molecular and cellular effects of harmful substances
 - environmental toxicology
 - occupational exposure
 - clinical toxicology

PHYSICS

The PHYSICS category includes journals that contain articles from all areas of physics and the following subfields:

- mathematical physics
- particle and nuclear physics
- physics of fluids and plasmas,
- quantum physics
- theoretical physics
- applied physics
- condensed matter physics
- physics of materials
- optics and acoustics.

PLANT & ANIMAL SCIENCE

PLANT SCIENCE coverage includes general botany journals and research on:

- regional botany
- mycology
- bryology
- plant physiology
- forestry
- weed science
- plant pathology
- economic botany
- aquatic botany and toxicology
- marine ecology
- plant nutrition
- photosynthesis research
- experimental botany
- cellular and molecular biology or physiology of plant cells and plant systems

ANIMAL SCIENCE coverage includes:

- animal behavior
- animal production science
- poultry science
- wildlife research
- lab animal science
- zoology
 - primatology
 - mammalogy
 - herpetology
 - nematology
 - malacology
- entomology and pest control
- veterinary medicine
- animal health
- marine and freshwater biology
- fisheries science
- aquaculture

PSYCHIATRY/PSYCHOLOGY

The PSYCHIATRY/PSYCHOLOGY category covers journals on all areas of psychology:

- applied
- biological
- clinical
- developmental
- educational
- mathematical
- organizational
- personal
- social
- diagnosis and treatment

SOCIAL SCIENCES, GENERAL

The SOCIAL SCIENCES, GENERAL category includes journals on:

- communication
- environmental studies
- library and information sciences
- political science
- public health and administration
- rehabilitation
- social work and social policy
- sociology
- anthropology
- law
- education

SPACE SCIENCES

The SPACE SCIENCES category includes journals dealing with all areas of:

- astronomy and astrophysics
- celestial bodies
- observation and interpretation of radiation from the component parts of the universe