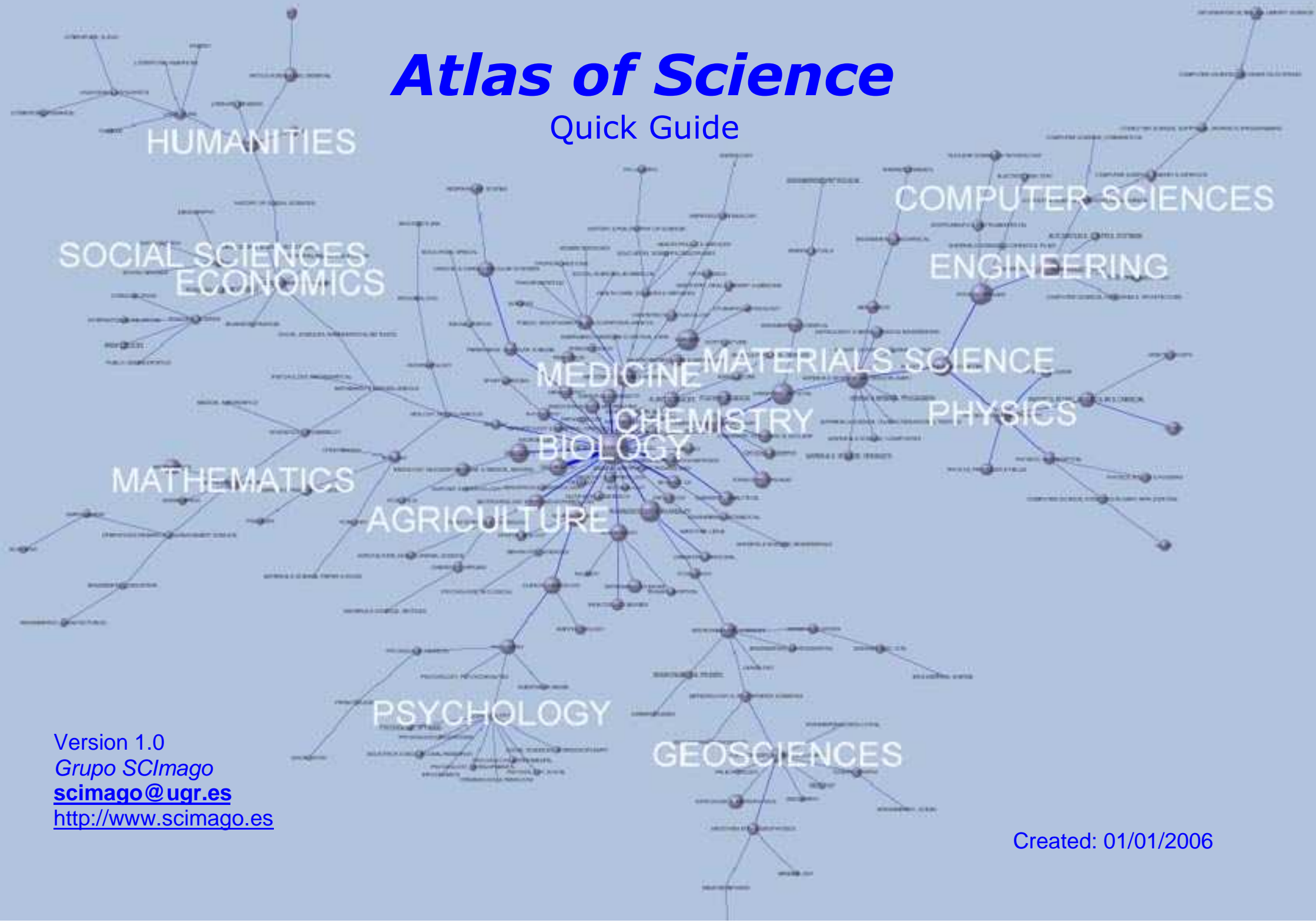


# Atlas of Science

## Quick Guide



Version 1.0  
Grupo SCImago  
[scimago@ugr.es](mailto:scimago@ugr.es)  
<http://www.scimago.es>

Created: 01/01/2006

# Table of Contents

1. Glossary
2. Accessing the Atlas of Science
3. First Level Scientogram of a Domain
4. Browsing and Interacting with the First Level Scientogram
  - 4.1 Domain Analysis
  - 4.2 Bibliometric Information
    - 4.2.1 Institution Output
    - 4.2.2 Foreign Institution Output
    - 4.2.3 Weighted Institution Output
    - 4.2.4 Journal Output
    - 4.2.5 Author Output
    - 4.2.6 Publisher Output
    - 4.2.7 Cited Journals
    - 4.2.8 Cited Authors
    - 4.2.9 Co-authorship
    - 4.2.10 International Collaboration
    - 4.2.11 Document Types
    - 4.2.12 Document List
5. Second Level Scientogram of a Domain
6. Browsing and Interacting with the Second Level Scientogram
7. Third Level Scientogram of a Domain

# 1. Glossary

**Category:** each ISI category, or sphere, that makes up the scientogram. The ISI category size is variable and proportional to the number of documents produced within each category of a domain.

**Citation:** a reference to another document.

**Co-Citation:** when two sources (authors, documents, journals, ISI categories, or thematic areas) are cited in the same publication.

**ISI Category:** the subject categories in which the ISI accepted journals have been categorized.

**Isolated Category:** any category that is not linked to another category in the scientogram.

**Link:** the line that connects each of the ISI Categories. The line represents the co-citation relationship between categories; the thicker the line, the stronger the relationship. Superfluous links have been eliminated with pathfinder networks (PFNET).

**Pathfinder Network Scaling:** a network scaling algorithm which removes links that violate triangle inequality conditions in order to simplify a network by retaining meaningful links and paths only.

**Scientogram:** a science map that is obtained as a result of plotting science by using graphs from bibliometric information.

**Thematic Areas:** each one of the eleven international areas of knowledge in which the ISI categories are grouped.

**Viewfinder:** a reduced version of the scientogram which is shown in the upper right hand corner of the main scientogram. You can move around within the viewfinder to select the area of the scientogram you wish to examine.

**Institution Output:** document production of a specific institution.

**Foreign Institution Output:** document production of foreign institutions.

**Weighted Institution Output:** measured institution production.

**Journal Output:** number of documents produced by a journal.

**Author Output:** number of documents produced by an author.

**Publisher Output:** number of documents produced by a publisher.

**Cited Journals:** journals ranked by total citation.

**Cited Authors:** authors ranked by citation.

**Co-authorship:** documents classified by the number of authors collaborating in the document.

**International Collaboration:** the collaboration of two different geographical domains in a document.

**Document Types:** documents classified according to the type of document.

**Document List:** number of documents listed within a given year.

## 2. Accessing the Atlas of Science

**Atlas of Science**

main project of SCImago Research Group

- About Atlas of Science
- Quick Guide (pdf)
- Request of login and password

At this moment, this is the list of countries available:

Argentina	Brasil	Chile	Colombia
Cuba	Mexico	Spain	Venezuela

Enter your access information:

Login

Password

SCImago is a research group from the University of Granada, Extremadura and Carlos III (Madrid), dedicated to information analysis, representation and retrieval by means of visualisation techniques.

SE.2005-24008-E  
MINISTERIO DE EDUCACIÓN Y CIENCIA  
EE.0004-08398-CX3-01/SOCI

**THOMSON**  
Web of Knowledge

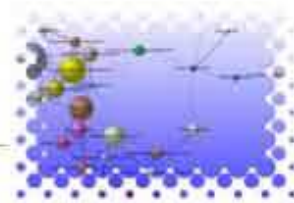
The information used in this project has been downloaded from the ISI Web of Science®. ISI Web of Science® is a product of the Thomson Scientific. This source is used only for research and non-profit purposes.

First, you must register

You will receive a username and password via email

Second, log in by introducing your username and password

# Atlas of Science



Finally, select the domain you wish to analyze

main project of SCImago Research Group

- Latinoamerican scientific indicators

**Argentina**  
(1990-2004)

- Atlas of science
- Authors report

**Brasil**  
(1990-2004)

- Atlas of science
- Authors report

**Chile**  
(1990-2004)

- Atlas of science
- Authors report

**Colombia**  
(1990-2004)

- Atlas of science
- Authors report

**Cuba**  
(1990-2004)

- Atlas of science
- Authors report

**Mexico**  
(1990-2004)

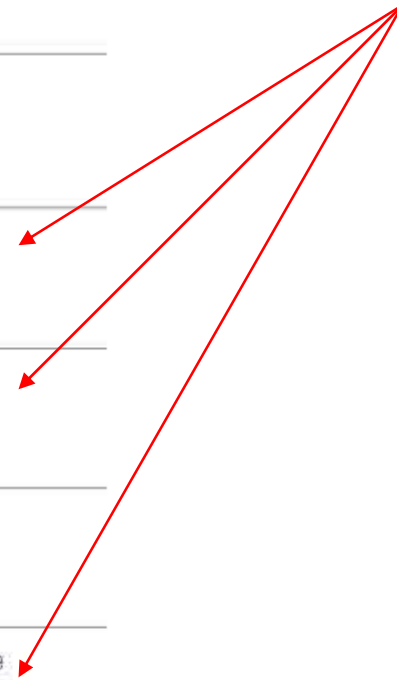
- Atlas of science
- Authors report

**Spain**  
(1990-2004)

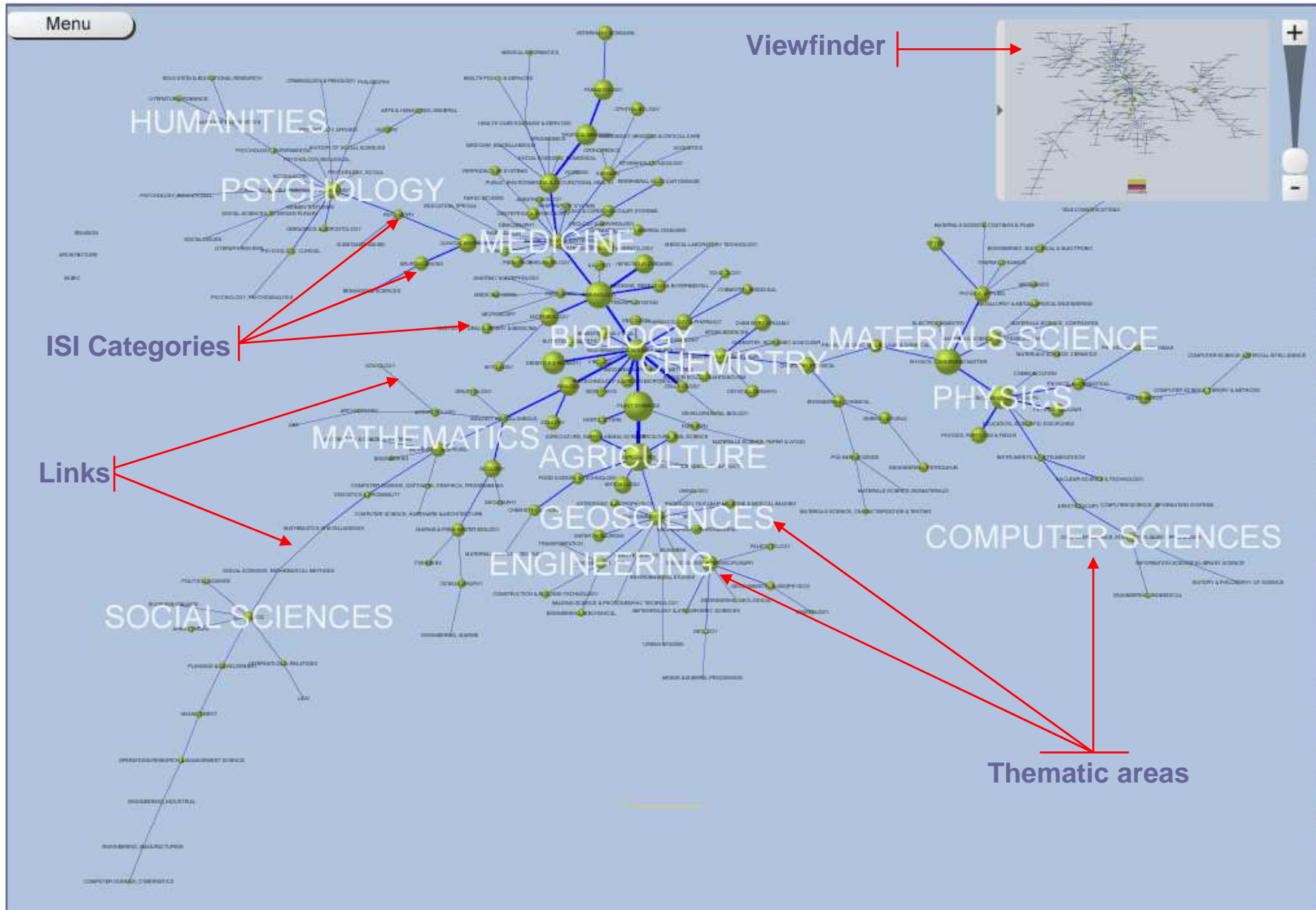
- Atlas of science
- Authors report

**Venezuela**  
(1990-2004)

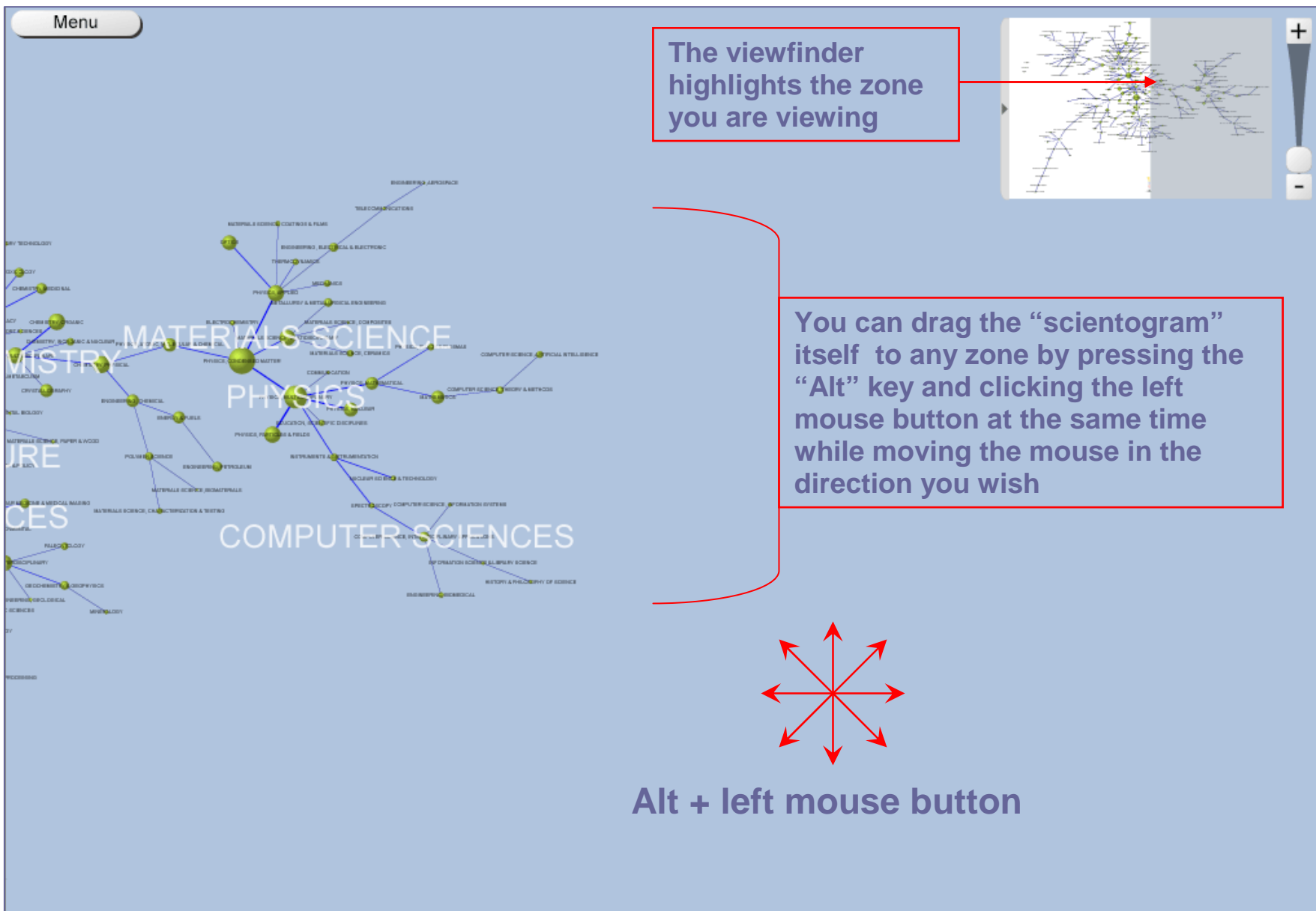
- Atlas of science
- Authors report



### 3. First Level Scientogram of a Domain



## 4. Browsing and Interacting with the First Level Scientogram



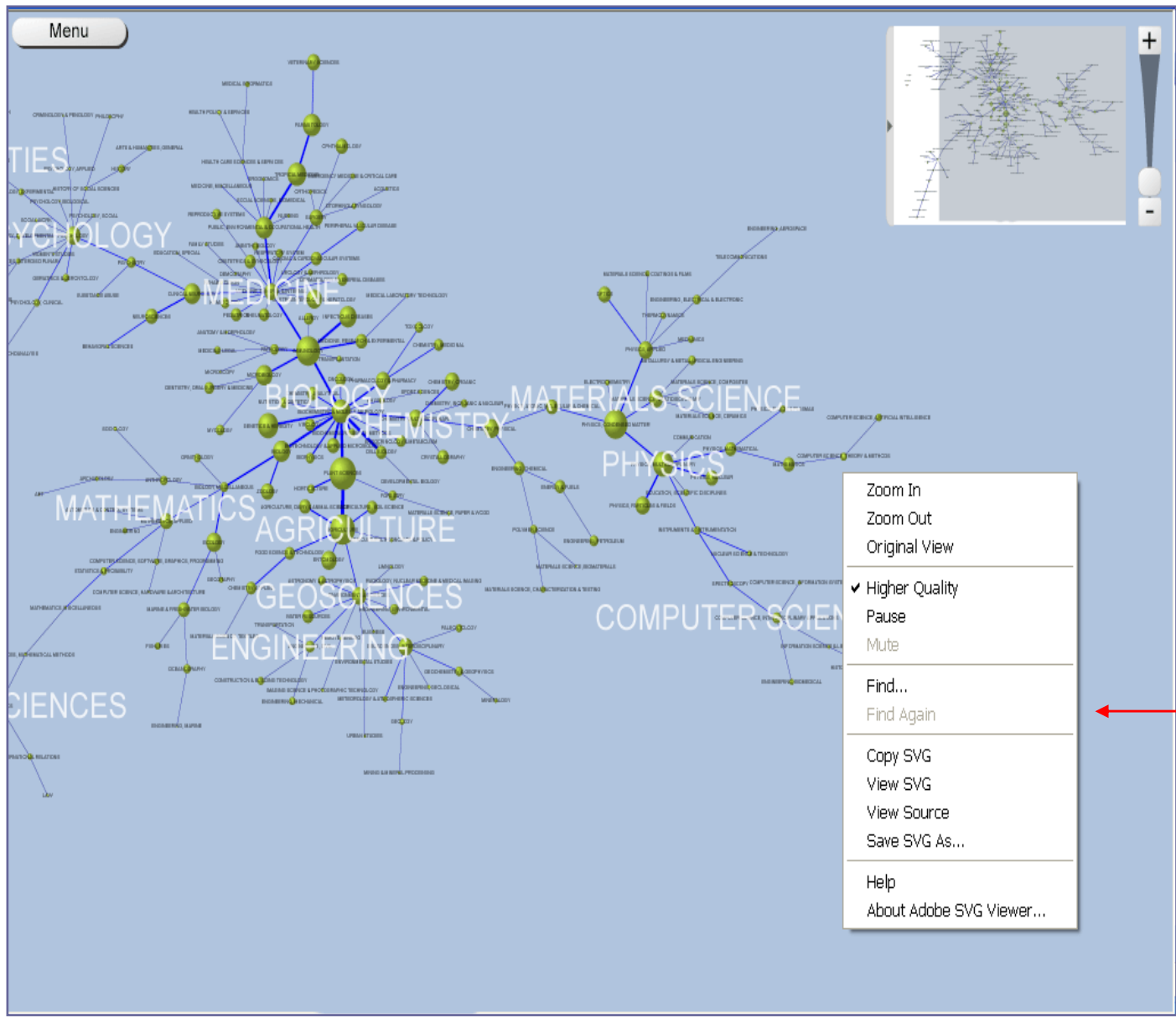
The screenshot shows a complex network graph (scientogram) with nodes and edges. Major clusters are labeled: MATERIALS SCIENCE, PHYSICS, and COMPUTER SCIENCES. A 'Menu' button is in the top left. A viewfinder window in the top right shows a zoomed-in view of a specific area, with a red arrow pointing to it from a text box. A second text box with a red bracket points to the main graph, explaining a drag-and-move interaction. A red starburst icon with eight arrows is positioned below the second text box, with the text 'Alt + left mouse button' underneath it.

Menu

The viewfinder highlights the zone you are viewing

You can drag the “scientogram” itself to any zone by pressing the “Alt” key and clicking the left mouse button at the same time while moving the mouse in the direction you wish

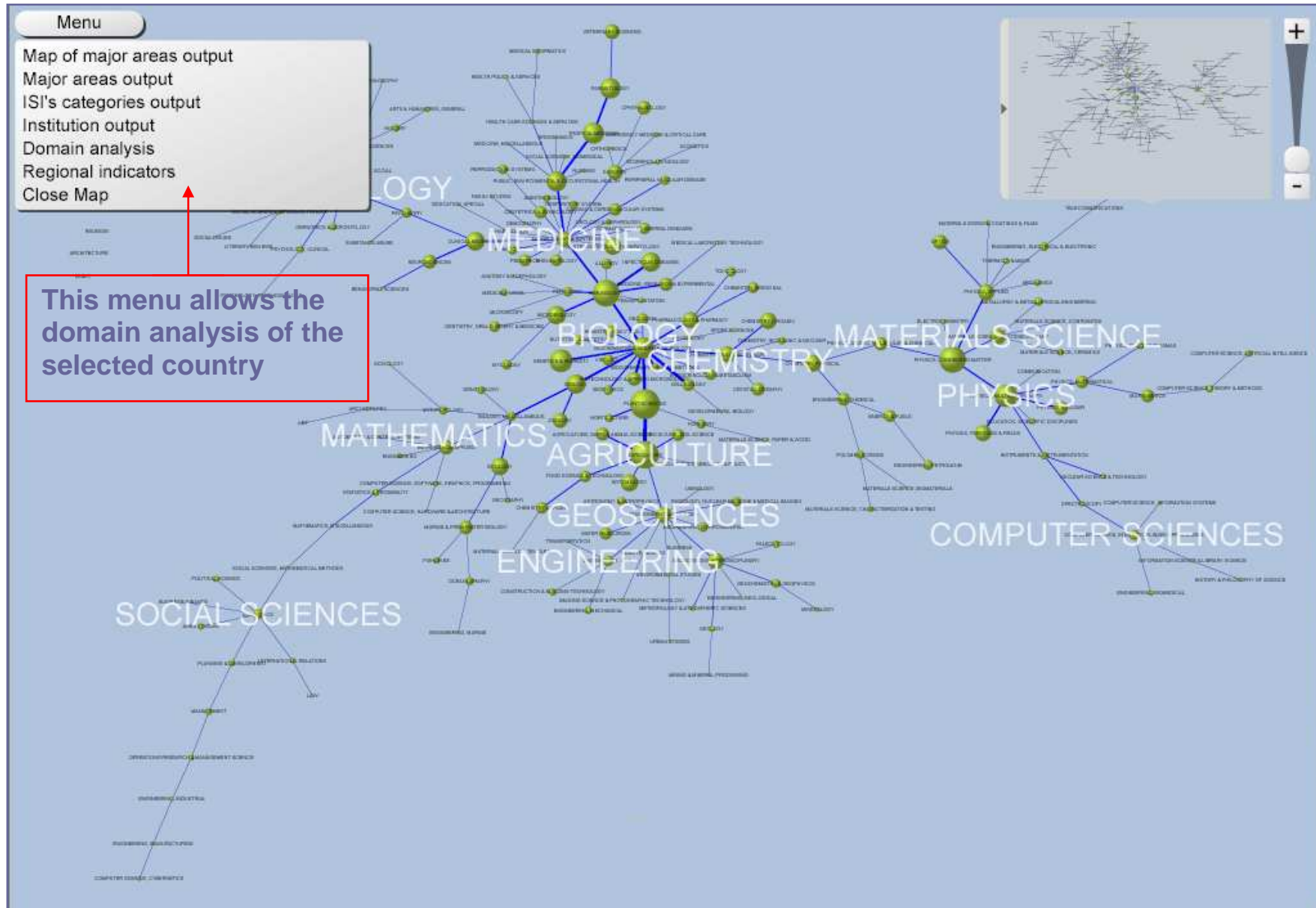
Alt + left mouse button



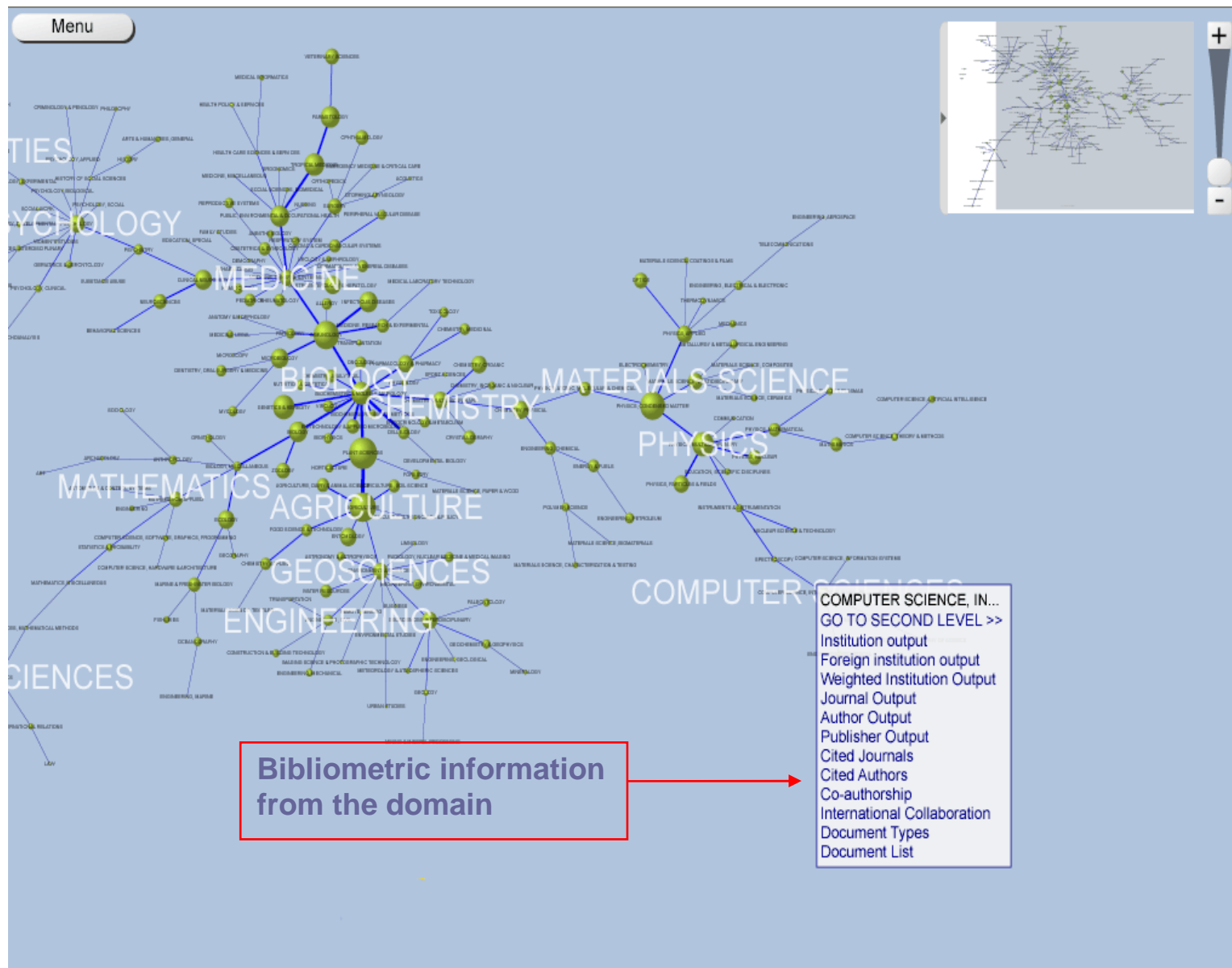
The viewfinder will also let you browse the scientogram. Simply drag the dark rectangle to the specific location you would like to analyze.

By clicking the right mouse button at any place on the scientogram, a drop down menu appears which allows you to zoom in, zoom out, get an original view and/or find text within the scientogram.

## 4.1 Domain Analysis



## 4.2 Bibliometric Information



The categories, or spheres, on the scientogram are proportional to the number of documents produced in those categories.

By clicking the left mouse button over any category, another menu will appear which allows you to access the second level scientogram, as it will be shown in 5.

From this menu you have also access to the indicators of the selected category.

# Institution Output



Domain: Spain Time slicing: 1990-2004 || Subject: ENGINEERING || Institution output

Close

1 de 5 (136) ||

	Total	Institution	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	145	Univ Politecn Catalunya (Barcelona)	2	3	1	4	10	5	10	4	10	15	10	16	12	17	26
2	81	Univ Politecnica Madrid	3	1	1	2	3	10	8	4	5	3	8	6	11	7	9
3	65	Univ Sevilla	1	2	4	3	2	7	7	4	4	3	8	4	7	3	8
4	61	Univ Oviedo	0	0	1	0	1	2	1	5	3	2	5	9	8	7	19
5	44	Univ Zaragoza	2	1	1	1	1	3	2	2	3	3	4	6	3	7	6
6	41	Univ Politecn Valencia	1	0	1	0	2	1	2	4	2	1	3	6	4	4	10
7	36	Univ Complutense (Madrid)	3	1	2	1	6	3	0	0	3	1	2	0	5	6	4
8	34	Univ Carlos III (Madrid)	0	0	0	0	1	1	0	2	0	1	7	3	8	4	7
9	29	Univ Autonoma Madrid (Cantablanco)	0	0	1	1	1	4	0	1	0	0	0	3	8	7	5
10	28	Inst Ciencia Mat (Madrid)	0	1	2	1	0	0	0	1	1	0	1	6	4	6	6
11	24	Univ Pais Vasco	0	0	0	0	0	0	1	1	3	3	1	3	3	3	6
12	21	Univ Valladolid	1	1	0	0	0	1	1	3	1	3	3	2	5	0	0
13	21	Univ Santiago de Compostela	0	1	0	2	0	0	2	2	1	4	2	0	1	4	2
14	21	Univ Vigo	0	0	0	1	0	0	0	0	1	6	3	3	3	3	1
15	20	Univ Malaga	0	0	0	0	1	1	0	1	0	3	1	6	1	3	4
16	20	Univ Granada	0	0	0	0	2	1	1	1	0	0	4	4	1	2	4
17	20	Univ Cantabria	0	0	0	1	2	4	2	2	1	1	0	3	1	1	2
18	18	Ctr Nacl Microelect (Barcelona)	0	0	0	0	1	1	1	0	0	1	0	2	3	5	4
19	18	Univ Autonoma Barcelona (Bellaterra)	0	0	0	0	3	1	1	0	0	1	0	3	3	1	5
20	17	Univ Barcelona (BCN)	0	3	0	1	0	2	1	1	1	1	0	3	2	2	0
21	14	Univ Castilla La Mancha (Talavera De La Reina)	0	0	0	0	0	0	2	0	1	4	0	3	2	1	1
22	14	Univ de Coruna (La Coruna)	0	1	0	1	0	0	1	0	0	1	1	1	1	1	6
23	13	Univ Navarra	0	1	0	0	1	0	2	0	0	3	0	4	0	1	1
24	12	Univ de las Palmas de Gran Canaria (Las Palmas Gran Canaria)	1	0	0	0	3	0	3	0	1	0	2	1	0	0	1
25	12	Univ Salamanca	0	0	0	0	0	0	1	1	0	2	1	1	2	2	2
26	11	Inst Microelect (Madrid)	0	0	0	0	0	0	0	0	0	0	0	3	2	4	2
27	10	UNED (Madrid)	1	0	1	0	1	1	1	0	0	0	2	0	0	2	1
28	10	Univ Valencia	0	0	1	0	0	1	2	0	2	1	0	1	1	0	1
29	9	CIEMAT (Madrid)	0	0	0	0	0	1	0	0	0	0	4	0	2	0	2
30	9	Univ Extremadura	0	0	0	1	0	0	0	0	0	1	0	1	3	2	1



# Weighted Institution Output



Domain: **Brasil** Time slicing: 1980-2004 || Subject: PHYSICS, MATHEMATICAL || Weighted Institution output

Close

1 de 3 (67) | →

Total	Institution	Power research	Weighted impact (Pr/Idoc)	1985	1986	1987	1988	1989	2000	2001	2002	2003	2004	
1	475	Universidade de São Paulo	573.461	1.207	25	27	54	45	53	43	45	62	61	80
2	189	Centro Brasileiro de Pesquisas Físicas	221.357	1.171	12	13	12	27	20	21	18	28	18	20
3	184	Universidade Estadual Paulista "Júlio de Mesquita Filho"	188.898	1.151	5	13	23	9	17	20	18	18	22	19
4	150	Universidade Federal do Rio de Janeiro	170.131	1.134	8	11	3	22	25	17	15	18	13	17
5	138	Universidade Federal de Minas Gerais	172.219	1.248	10	5	2	23	14	11	12	39	19	13
6	129	Universidade Federal Fluminense	144.148	1.117	10	2	13	24	18	14	15	14	6	13
7	125	Universidade Federal do Rio Grande do Sul	181.716	1.294	8	5	6	8	15	13	15	21	14	20
8	71	Universidade Federal de Pernambuco	94.879	1.334	4		2	7	7	11	11	13	8	8
9	68	Universidade Federal de São Carlos	80.661	1.185	1		3	10	14	8	7	11	8	6
10	66	Universidade do Estado do Rio de Janeiro	70.936	1.075	3	1	2	15	11	7	5	10	4	8
11	62	Universidade Federal de Santa Catarina	82.215	1.326	2	2	5	8	10	8	5	9	6	7
12	57	Universidade Federal de Paraíba	57.924	1.016	3	3	4	3	7	6	8	9	8	6
13	55	Universidade Estadual de Maringá	65.14	1.548		4	5	5	6	3	10	11	6	3
14	52	Universidade Estadual de Campinas	56.783	1.092	3	1	2	4	7	11	9	6	4	5
15	50	Universidade de Brasília	55.852	1.137	3	1	5	8	5	6	8	3	3	7
16	47	Universidade Federal do Ceará	61.282	1.304	2	1	3	3	5	5	7	7	8	6
17	46	Instituto Nacional de Matemática Pura e Aplicada	48.094	1.046		1	5	4	4	5	6	6	6	9
18	45	Universidade Federal do Paraná	51.639	1.148	1	1	1	5	6	7	3	6	12	3
19	44	Universidade Federal do Rio Grande do Norte	63.367	1.44		4	5	3	1	10	6	3	8	6
20	34	Instituto Nacional de Pesquisas Espaciais	42.477	1.349	1	2	1	2	5	3	1	9	3	7
21	33	Universidade Federal da Bahia	38.313	1.161	1		2	3	2	7	4	3	6	5
22	30	Universidade Federal de Alagoas	34.79	1.16		1	1	2	2	5	3	6	4	6
23	30	Universidade Estadual de Londrina	37.025	1.234			1	5	6	4	3	2	4	5
24	18	Universidade Federal do Espírito Santo	17.42	0.968	1		1	4	3	3		2	3	1
25	17	Pontifícia Universidade Católica do Rio de Janeiro	18.448	0.968				5		1		5		6
26	16	Universidade Federal de Goiás	11.021	0.689	3	1		4	2	1		2		3
27	15	Universidade Federal de Viçosa	22.901	1.527		1		3	3	1	3	2	1	1
28	14	Conselho Nacional de Desenvolvimento Científico e Tecnológico	12.838	0.917	3	3	1	2	2	3				
29	12	Universidade Federal Rural do Rio de Janeiro	9.168	0.764				6	2	1	2		1	
30	11	Universidade Federal de Ouro Preto	10.371	0.943	1	1	1	4			3		1	



# Author Output



Domain: **Venezuela** Time slicing: 1990-2004 || Subject: ENGINEERING || Author output

This subject category
  All the subject categories

1 de 7 (132) | →

Total	Authors	-	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	7	POYER, H	<input type="checkbox"/>	0	0	3	0	0	0	0	0	0	1	1	1	0	1
2	7	Canscho, O	<input type="checkbox"/>	0	0	0	0	0	1	0	0	2	1	0	1	0	2
3	8	CERROLAZA, M	<input type="checkbox"/>	0	0	0	0	1	1	1	0	1	1	0	0	0	1
4	5	BORIANI, DV	<input type="checkbox"/>	0	0	0	0	3	0	2	0	0	0	0	0	0	0
5	5	Rocco, CM	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	1	1	1	0	2
6	4	Costa-Kramer, JL	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	1	1	2	0
7	4	CHACON, E	<input type="checkbox"/>	0	0	0	0	0	1	0	0	1	0	0	2	0	0
8	3	DIAZ, M	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	1	1	1	0
9	3	MORENO, JA	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	1	1	0	1	0
10	3	Annichiarico, WV	<input type="checkbox"/>	0	0	0	0	0	0	0	0	1	1	0	0	0	1
11	2	APARICIO, N	<input type="checkbox"/>	0	0	0	0	1	1	0	0	0	0	0	0	0	0
12	2	García, VV	<input type="checkbox"/>	0	0	0	0	0	0	0	0	2	0	0	0	0	0
13	2	Rojas, R	<input type="checkbox"/>	0	0	0	0	0	0	0	0	1	0	0	0	0	1
14	2	Rodríguez, JF	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	1	1	0	0
15	2	Renaud, JE	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	1	1	0	0
16	2	RANGEL, R	<input type="checkbox"/>	0	0	0	0	2	0	0	0	0	0	0	0	0	0
17	2	MEDINA, E	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	1	0	1	0
18	2	HASMY, A	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	0	1	0	1	0
19	2	COLMENARES, W	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	1	1	0	0	0
20	2	MILLER, AJ	<input type="checkbox"/>	0	0	0	0	0	0	0	0	0	1	1	0	0	0



## Cited Journal



Domain: Brasil | Time slicing: 1990-2004 | Subject: BEHAVIORAL SCIENCES | Cited journals

Close

1 de 14 (398) |

	Journals	NP of cites
1	BRAIN RES	601
2	PHYSIOL BEHAV	757
3	PSYCHOPHARMACOLOGY	613
4	PHARMACOL BIOCHEM BE	553
5	BEHAV BRAIN RES	429
6	SCIENCE	387
7	BRAZ J MED BIOL RES	332
8	BEHAV NEURAL BIOL	328
9	NATURE	318
10	EUR J PHARMACOL	290
11	AM J PHYSIOL	231
12	J COMP NEUROL	229
13	P NATL ACAD SCI USA	228
14	ANIM BEHAV	199
15	BEHAV NEUROSCI	190
16	NEUROSCI LETT	177
17	LIFE SCI	174
18	BEHAV PHARMACOL	170
19	NEUROSCIENCE	163
20	PHARM BIOCH BEHAV	162
21	NEUROSCI BIOBEHAV R	159
22	J NEUROSCI	157
23	BRAIN RES BULL	146
24	NEUROBIOL LEARN MEM	144
25	ANN NY ACAD SCI	141
26	RAT BRAIN STEREO TAXI	129
27	J COMP PHYSIOL PSYCH	125
28	TRENDS NEUROSCI	123
29	J PHARMACOL EXP THER	116
30	J NEUROSCI METH	114

## Cited Authors



Domain: Argentina Time slicing: 1990-2004 || Subject: OPTICS || Cited authors

Close

1 de 8 (217)

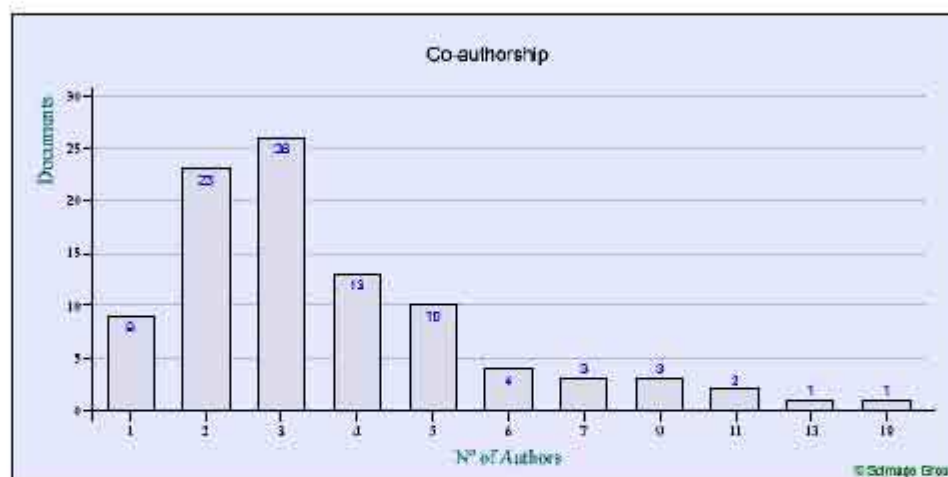
	Authors	Nº of cites
1	CROTHERS, DSF	67
2	GOODMAN, JMY	52
3	BORN, M	45
4	LOHMANN, AYW	43
5	BELKIC, D	41
6	PEITZ, R	36
7	QUEDACASTANEDA, J	36
8	RUDD, ME	37
9	MENDLOVIC, D	30
10	CREATH, K	26
11	HOPKINS, HH	26
12	MAYSTRE, D	25
13	MACEK, J	24
14	CHEN, HC	23
15	TAMIR, T	23
16	KIMURA, K	22
17	LEGER, D	22
18	BRAUNER, M	20
19	ANDREWARTHA, JR	20
20	BERAKDAR, J	19
21	BATES, DR	19
22	FRTSCH, W	19
23	ELSTON, SJ	16
24	MCDONWELL, MRC	17
25	BOTTEN, LC	17
26	BASTIAANS, MJ	17
27	SIROH, RS	17
28	YU, FTS	16
29	JACKSON, JD	16
30	HUTLEY, MC	16

# Co-authorship



Domain: Venezuela Time slicing: 1990-2004 || Subject: GEOCHEMISTRY & GEOPHYSICS || Co-authorship

Close



1 de 2 (11) ||

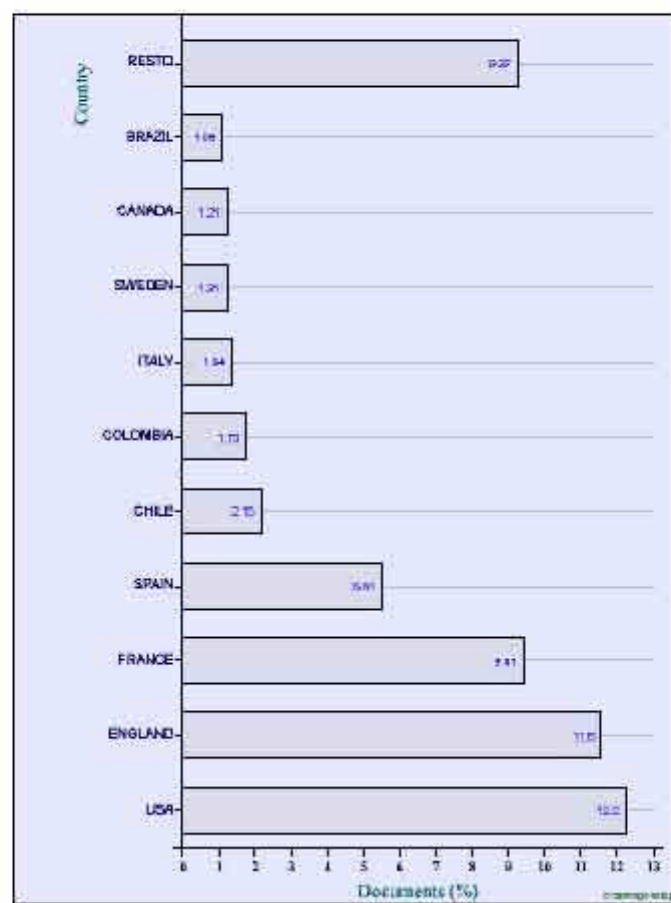
Rank	Total	Authors	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	9	1	0	1	0	0	0	0	1	2	1	2	1	0	0	0	1
2	23	2	1	0	1	8	1	2	1	2	1	1	0	0	4	0	1
3	26	3	0	0	1	0	0	3	4	4	1	5	3	1	3	0	1
4	13	4	1	1	0	0	1	3	1	0	0	0	0	1	1	2	2
5	10	5	1	1	0	0	1	2	0	0	0	1	3	0	1	0	0
6	4	6	0	0	1	0	0	0	0	1	0	0	0	0	1	0	1
7	3	7	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
8	3	9	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
9	2	11	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
10	1	13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

## International Collaboration



Domain: Venezuela Time slicing: 1980-2004 || Subject: CHEMISTRY, PHYSICAL || International collaboration

Close



	Total	Country	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	744	VENEZUELA	27	19	30	45	37	50	50	63	62	68	60	48	70	61	54
2	91	USA	1	2	4	0	1	6	8	5	5	12	8	13	10	7	9
3	86	ENGLAND	0	1	1	3	5	4	4	5	46	5	0	4	4	1	3
4	70	FRANCE	2	2	2	5	3	5	3	12	1	11	6	3	6	5	4
5	41	SPAIN	0	1	2	1	1	3	5	0	0	4	6	4	6	4	4
6	16	CHILE	0	0	0	0	0	0	2	2	3	2	2	1	1	2	1
7	13	COLOMBIA	0	0	1	0	0	0	2	1	1	1	1	1	1	4	0
8	10	ITALY	0	0	1	0	2	0	0	0	0	4	1	0	0	0	2
9	9	SWEDEN	0	1	1	0	0	0	0	0	0	0	1	1	3	2	0
10	9	CANADA	1	0	0	1	0	3	2	0	0	0	0	0	1	0	1

# Document Types



Domain: Mexico Time slicing: 1990-2004 || Subject: BIOCHEMISTRY & MOLECULAR BIOLOGY || Document types

Close

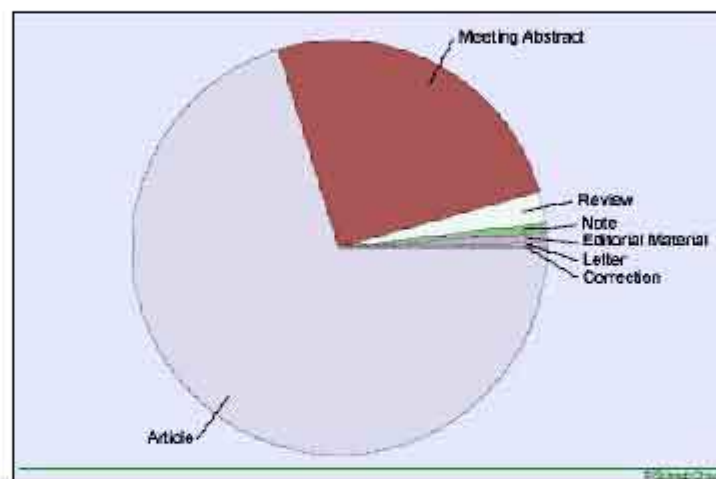


Table 1 (?)

	Total	Document types	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	2306	Article	58	74	86	102	83	149	135	170	186	196	173	213	233	218	230
2	833	Meeting Abstract	0	19	37	37	50	54	63	64	56	65	80	94	64	80	70
3	79	Review	2	4	2	3	1	3	4	2	11	6	9	7	8	10	7
4	38	Note	4	5	3	4	5	5	0	0	0	0	0	0	0	0	0
5	22	Editorial Material	0	0	0	2	1	2	1	3	1	1	3	2	4	1	1
6	11	Letter	1	1	1	0	0	1	0	2	2	1	1	1	0	0	0
7	4	Correction	0	0	0	0	0	0	0	0	0	0	2	1	0	0	1

## Document List



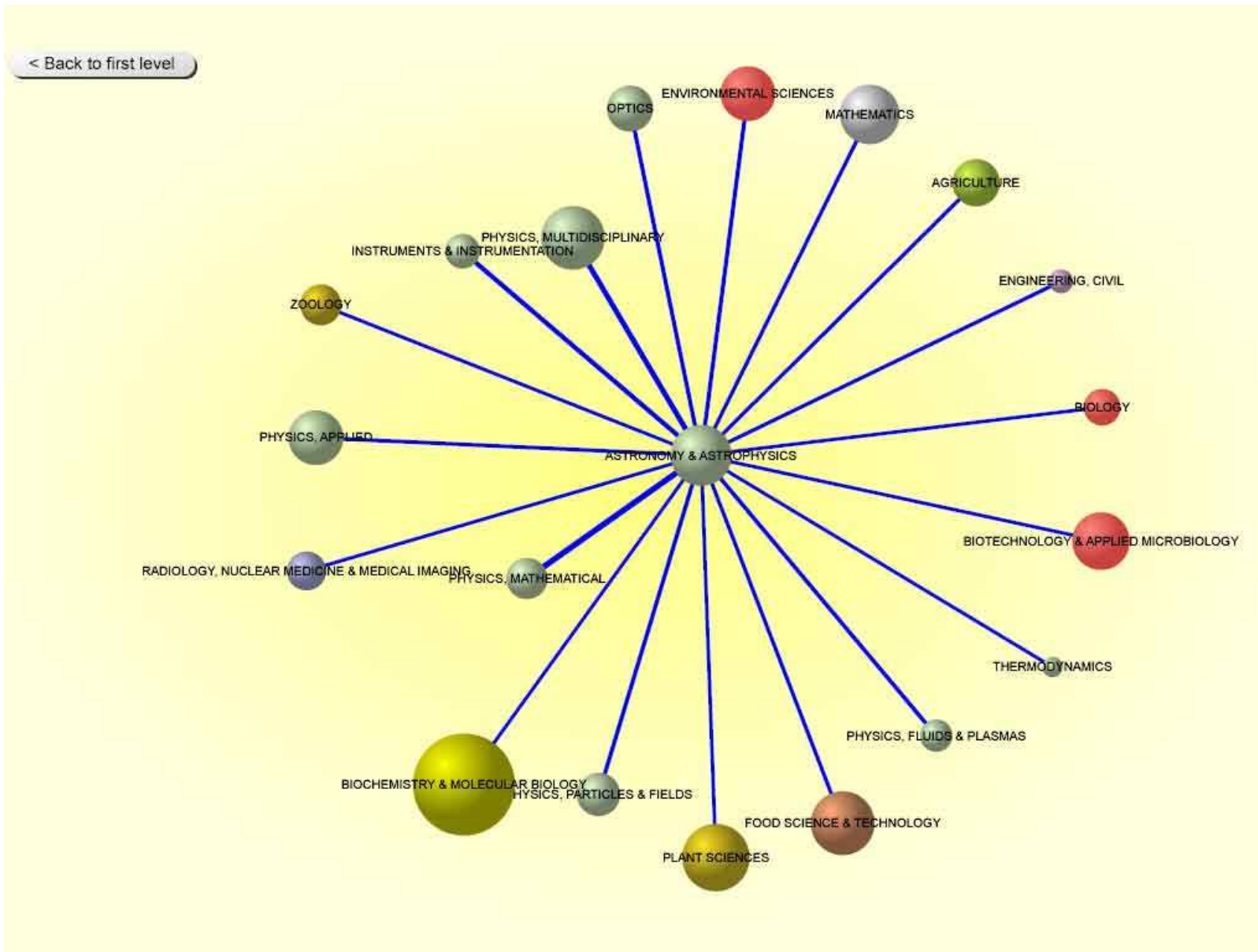
Domain: **Spain** Time slicing: 1990-2004 || Subject: INFECTIOUS DISEASES || Document list

Close

1 de 1 (15) ||

Year	Nº of documents
2004	618
2003	589
2002	527
2001	528
2000	374
1999	239
1998	286
1997	195
1996	261
1995	222
1994	227
1993	151
1992	164
1991	111
1990	73

## 5. Second Level Scientogram of a Domain

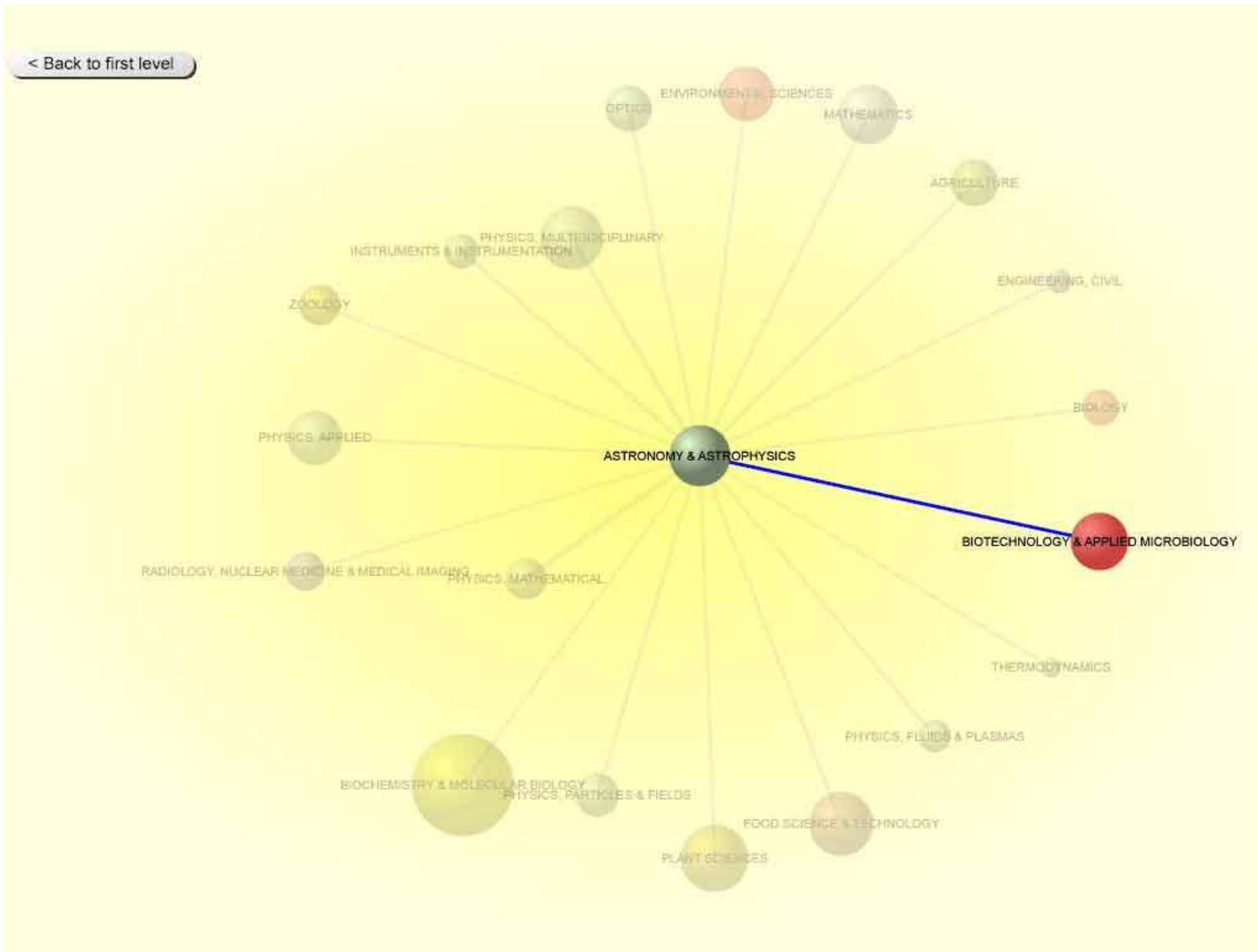


Selecting “GO TO SECOND LEVEL” over any category takes you to a heliocentric scientogram like the one shown here.

The selected category appears in the center of the scientogram with the twenty strongest related categories surrounding it. The shorter the distance from the center, the stronger the relationship.

As in the first level scientogram, the size of a category is proportional to the number of documents produced in that category.

## 6. Browsing and Interacting with the Second Level Scientogram

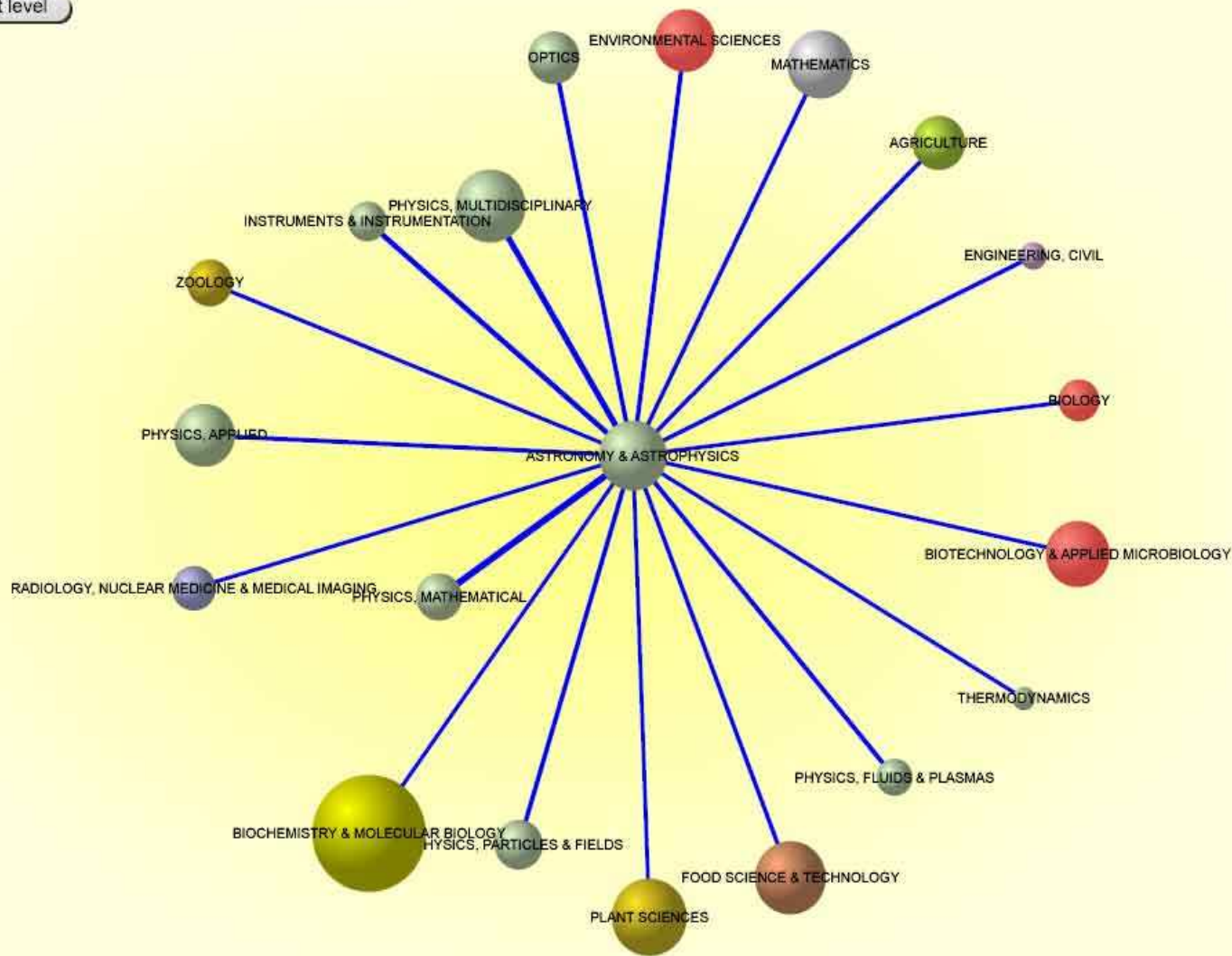


You can zoom in, zoom out and/or find text by right clicking as in the previous level.

You can better analyze the relationship between the selected category and any one of the other twenty surrounding categories. Just place the pointer over any surrounding sphere and the rest of the links and spheres will fade into the background.

When you click on any of the twenty encircling categories, a new scientogram appears.

< Back to first level



The new selected category will now be in the center of the scientogram with its twenty strongest related categories surrounding it, like illustrated here.

If you click on the CENTRAL CATEGORY you will access the Third Level Scientogram.

When you click on any LINK in the scientogram you will access all cociting documents which relate the two linked categories.



Domain: Spain Time slicing: 1990-2004 || Subject: ASTRONOMY & ASTROPHYSICS - BIOLOGY || ISI categories cocitation

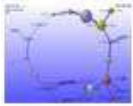
Close

1 de 2 (15) || →

Year	Nº of documents
2004	278
2003	274
2002	370
2001	330
2000	304
1999	352
1998	415
1997	405
1996	385
1995	348
1994	321
1993	287
1992	285
1991	200
1990	192

The system provides all cociting documents, grouped by year.

Now, if you click on the numbers listed under "Nº of documents" from any year you will be able to access all cociting documents from that year.



Close

1 de (11) ||

Title	Journal	Year	Vol.	Nº	Pages	Doc. type
Use of microautoradiography combined with fluorescence in situ hybridization to determine dimethylsulfoniopropionate incorporation by marine bacterioplankton taxa	APPL ENVIRON MICROB	2004	70	8	4648-4657	Article
Thermodynamically controlled synthesis of amide bonds catalyzed by highly organic solvent-resistant penicillin acylase derivatives	BIOTECHNOL PROGR	2004	20	1	117-121	Article
Verticillium disease or "dry bubble" of cultivated mushrooms: the <i>Agaricus bisporus</i> lectin recognizes and binds the <i>Verticillium fungicola</i> cell wall glucogalactomannan	CAN J MICROBIOL	2004	50	9	729-735	Article
Suicide gene therapy conversion of ethanol to acetaldehyde mediated by human beta 2 alcohol dehydrogenase	CANCER GENE THER	2004	11	12	774-781	Article
Structured kinetic model for <i>Xanthomonas campestris</i> growth	ENZYME MICROB TECH	2004	34	6	583-594	Article
Chemical structured kinetic model for xanthan production	ENZYME MICROB TECH	2004	35	4	284-292	Article
Human respiratory syncytial virus matrix protein is an RNA-binding protein: binding properties, location and identity of the RNA contact residues	J GEN VIROL	2004	85		709-719	Article
SNP genotyping with FRET probes. Optimizing the resolution of heterozygotes	MOL CELL PROBE	2004	18	4	211-214	Article
CPT I overexpression protects from fatty acid-induced insulin resistance in I6E9 muscle cells	GENE THER	2004	11		S156-S157	Meeting Abstract
Islet- and stem-cell-based tissue engineering in diabetes	CURR OPIN BIOTECH	2004	15	5	435-440	Review
History, challenges and perspectives of cell microencapsulation	TRENDS BIOTECHNOL	2004	22	2	87-92	Review
The MELISSA pilot plant facility as an integration test-bed for advanced life support systems	ADV SPACE RES	2004	34	7	1483-1493	Article
Radio relics in a cosmological cluster merger simulation	MON NOT R ASTRON SOC	2004	347	2	389-393	Article
Liver disease in heavy drinkers with and without alcohol withdrawal syndrome	ALCOHOL CLIN EXP RES	2004	28	1	131-136	Article
Effects of physical activity on intestinal gas transit and evacuation in healthy subjects	AM J MED	2004	116	8	536-539	Article
Tissue plasminogen activator in murine exocrine pancreas cancer - Selective expression in ductal tumors and	AM J PATHOL	2004	165	4	1129-	Article

The cociting documents with grey backgrounds pertain to the central category.

The cociting documents with yellow backgrounds pertain to the peripheral category.

And the cociting documents with white backgrounds do not pertain to the linked categories.

Clicking on the title of any specific document will allow you to access its bibliographic information and will give you the opportunity to browse previous or following documents.

## 7. Third Level Scientogram of a Domain

