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UNIVERSITAT POLITÈCNICA DE CATALUNYA



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**Biblioteca del Campus del Baix Llobregat**

**Estudi bibliomètric any  
2014. Campus del Baix  
Llobregat: EETAC i ESAB**

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**Gener 2015**



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## Introducció

En el present informe s'analitza la producció científica de les dues escoles del Campus del Baix Llobregat, l'Escola d'Enginyeria de Telecomunicació i Aeroespacial de Castelldefels (EETAC) i l'Escola Superior d'Agricultura de Barcelona (ESAB) durant el 2014.

## Metodologia

La base de dades emprada per a fer l'estudi bibliomètric és Scopus. Es fa una cerca combinada de noms d'autors i data de publicació limitada a 2014. Per a evitar haver de combinar variants de noms, la cerca es fa en base a l'Scopus ID, número únic que Scopus assigna per identificar a cada autor. La BCBL periòdicament revisa tots els noms del PDI i quan es necessari demana la unificació de diferents Scopus ID assignats a la mateixa persona.

La cerca realitzada dona uns resultats de 58 documents per a l'ESAB i 222 per a l'EETAC. Si es combinen els subconjunts de les dues escoles, trobem que 5 documents es troben en ambdues cerques, és a dir, serien co-autories entre autors de l'EETAC i l'ESAB. ([veure annex 3](#))



## ESAB

La cerca està efectuada en base a una cerca de 58 autors, provinent del Directori de l'ESAB i consensuada amb l'Escola.

Durant l'any 2014 s'han publicat 58 documents a la base de dades Scopus signades per algun d'aquests professors. Es pot consultar la llista completa de documents a la Bibliografia de [l'Annex 1](#).

## Autors

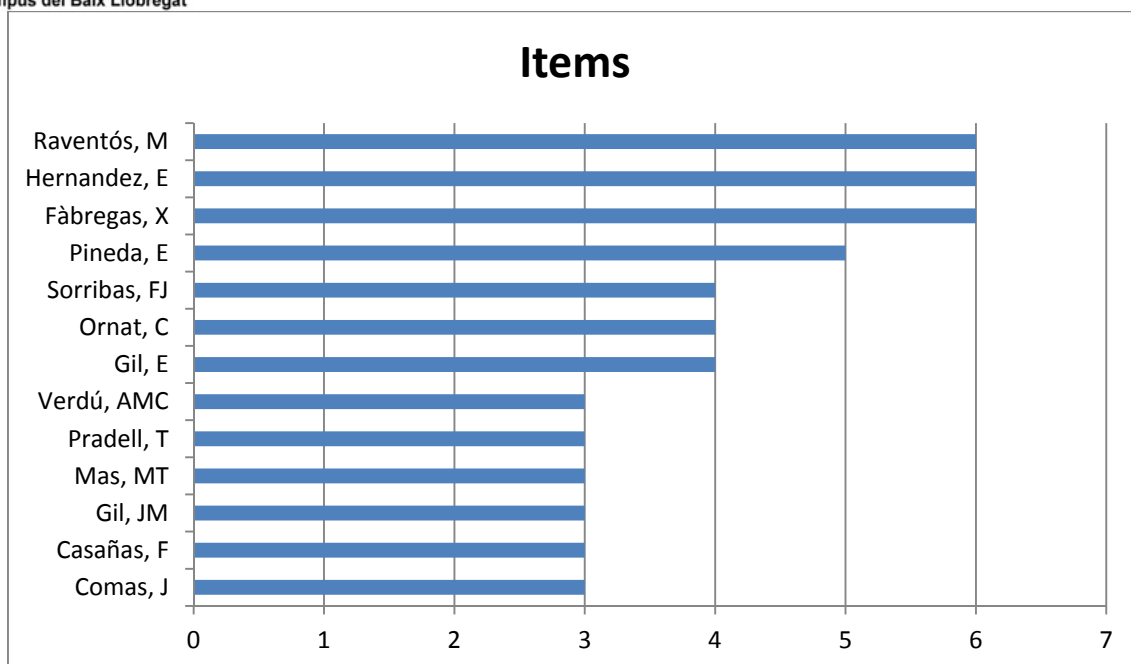
A la taula es mostren els 10 autors<sup>1</sup> que més han publicat, incloent el número d'items i el *factor h*<sup>2</sup> que aquest tenen a Scopus.

AUTOR	ITEMS PUBLICATS	FACTOR H
Fàbregas, X	6	12
Hernandez, E	6	8
Raventós, M	6	9
Pineda, E	5	8
Gil, E	4	9
Ornat, C	4	11
Sorribas, FJ	4	13
Comas, J	3	6
Casañas, F	3	9
Gil, JM	3	9
Mas, MT	3	5
Pradell, T	3	20
Verdú, AMC	3	6

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<sup>1</sup> s'hi inclouen 13 per a posar tots els que tenen 3 articles

<sup>2</sup> Relaciona les publicacions i les cites rebudes, de tal manera que un *factor h* de 3, significa que l'autor té indexats a la base de dades Scopus com a mínim tres articles que han rebut com a mínim 3 cites.



## Revistes

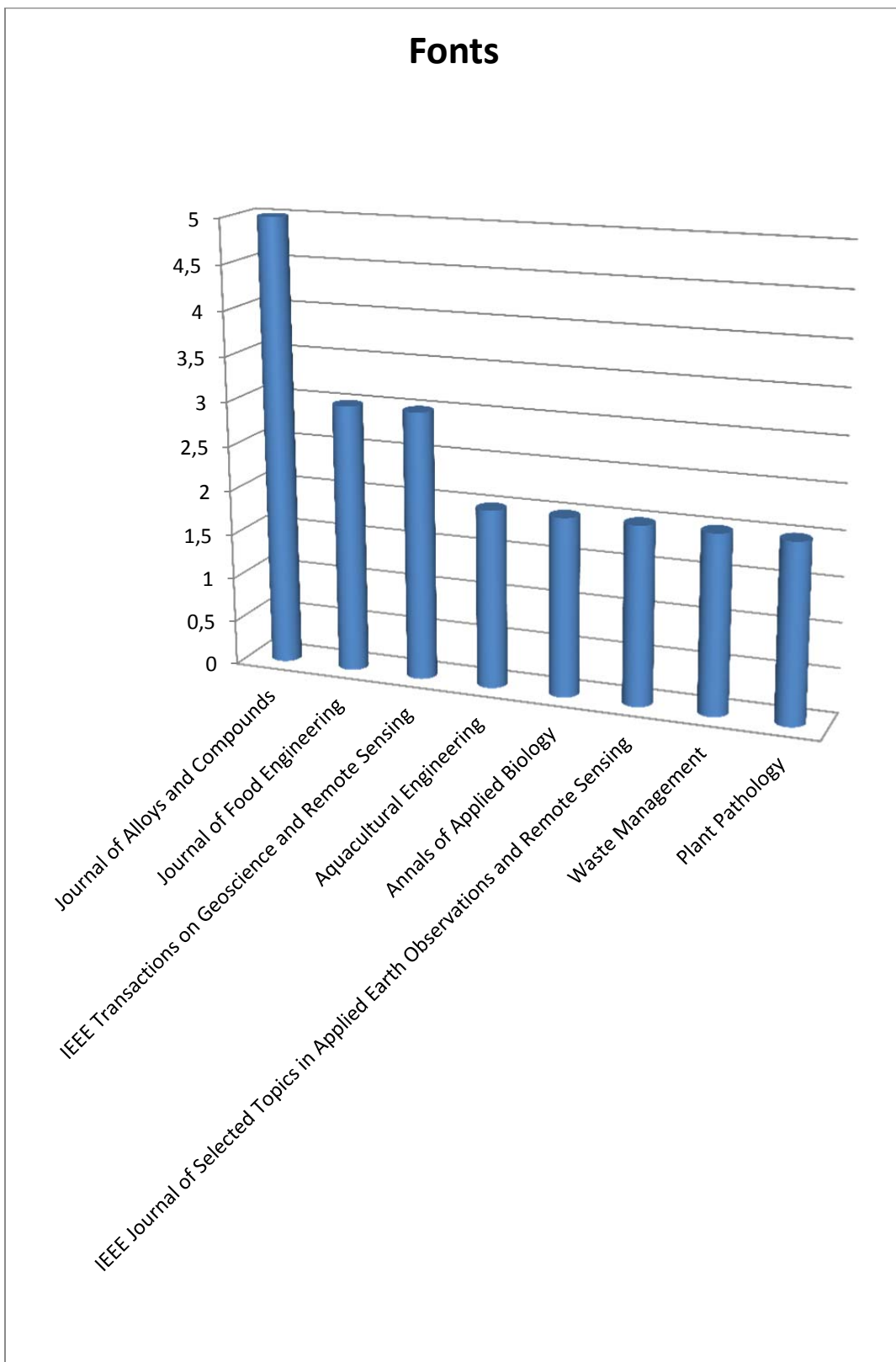
En la taula s'hi inclou el títol de la revista, el número d'items que s'hi han publicat i en el cas que la publicació tingui factor d'impacte<sup>3</sup> a la base de dades *Journal Citation Reports*, el millor quartil i la categoria on es troba indexada.

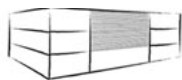
TÍTOL REVISTA	ITEMS PUBLICATS	QUARTIL JCR
Journal of Alloys and Compounds	5	Q1 Materials science, multidisciplinary. Q1 Metallurgy & metallurgical engineering.
IEEE Transactions on Geoscience and Remote Sensing	3	Q1 Engineering, electrical & electronic Q1 Geochemistry & geophysics Q1 Imaging science & photographic technology Q1 Remote sensing
Journal of Food Engineering	3	Q1 Engineering, chemical Q1 Food science & Technology
Aquacultural Engineering	2	Q2 Fisheries
Annals of Applied Biology	2	Q1 Agriculture, multidisciplinary
IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing	2	Q1 Engineering, electrical & electronic Q1 Remote sensing
Waste Management	2	Q1 Engineering, environmental Q1 Environmental sciences

<sup>3</sup> Relaciona el número de cites que ha rebut una revista en funció del número d'articles publicats. Es calcula dividint el número de cites d'un any pel número total d'articles publicats en els 2 anys anteriors.



Plant Pathology	2	Q1 Agronomy Q1 Plant sciences
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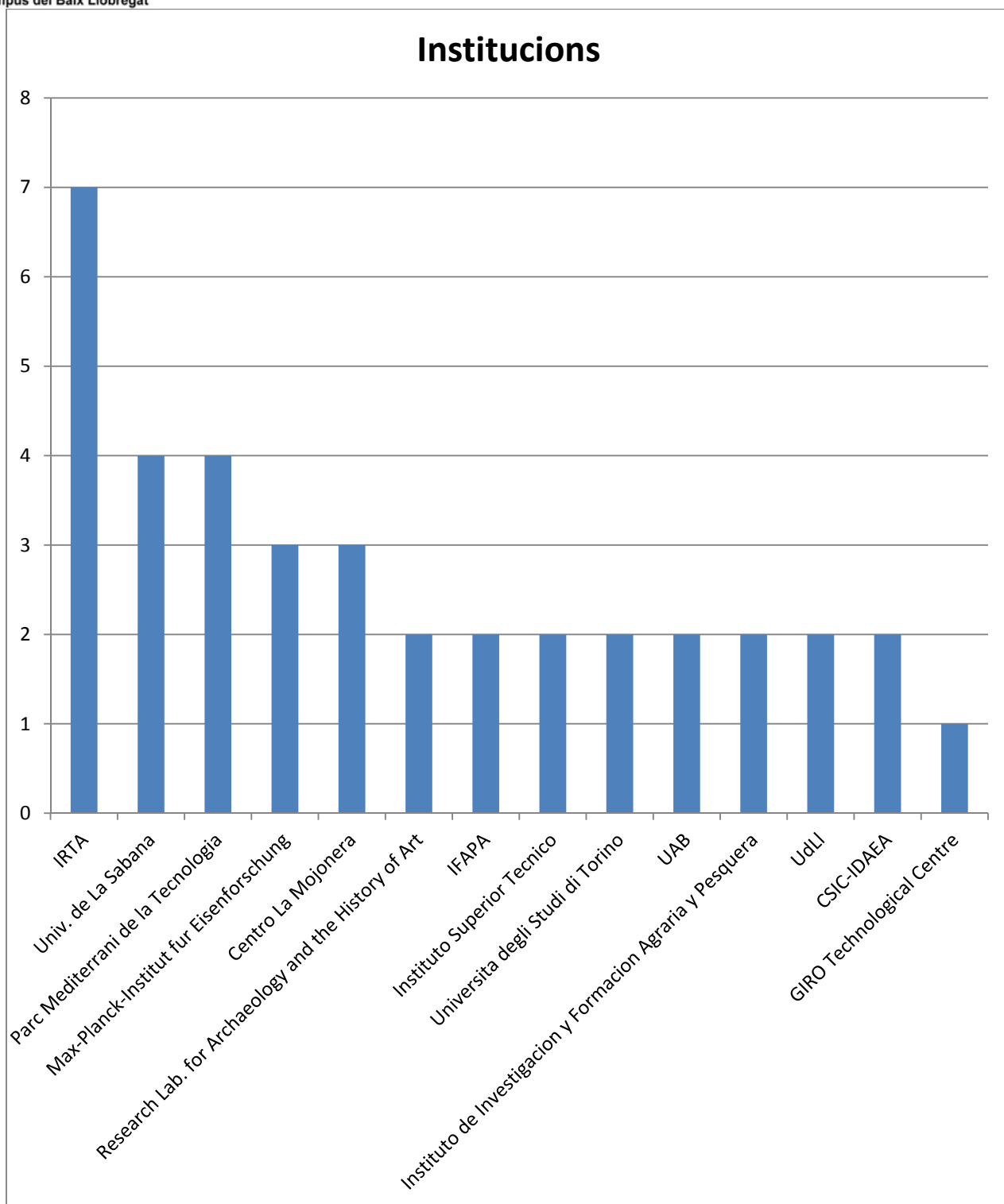
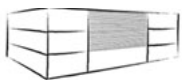




## Institucions d'origen

Scopus detalla la institució provinent de tots els autors que signen un paper. A continuació es detallen les principals afiliacions pels 58 articles (tots ells tenen com a mínim un autor amb afiliació ESAB) per tal de veure'n les co-autories institucionals.

<b>INSTITUCIÓ</b>	<b>ITEMS PUBLICATS</b>
Institut de Recerca i Tecnologia Agroalimentaries (IRTA)	7
Universidad de La Sabana (Colombia)	4
Parc Mediterrani de la Tecnologia	4
Max-Planck-Institut fur Eisenforschung (Düsseldorf)	3
Centro La Mojonera (Almería)	3
Research Laboratory for Archaeology and the History of Art (Oxford)	2
Centro de Chipiona IFAPA Cadiz	2
Instituto Superior Tecnico (Lisboa)	2
Universita degli Studi di Torino	2
Universidad Autonoma de Barcelona	2
Instituto de Investigacion y Formacion Agraria y Pesquera (Sevilla)	2
Universitat de Lleida	2
CSIC-IDAEA: Instituto de Diagnóstico Ambiental y Estudios del Agua (Barcelona)	2
GIRO Technological Centre (Mollet del Vallès)	1



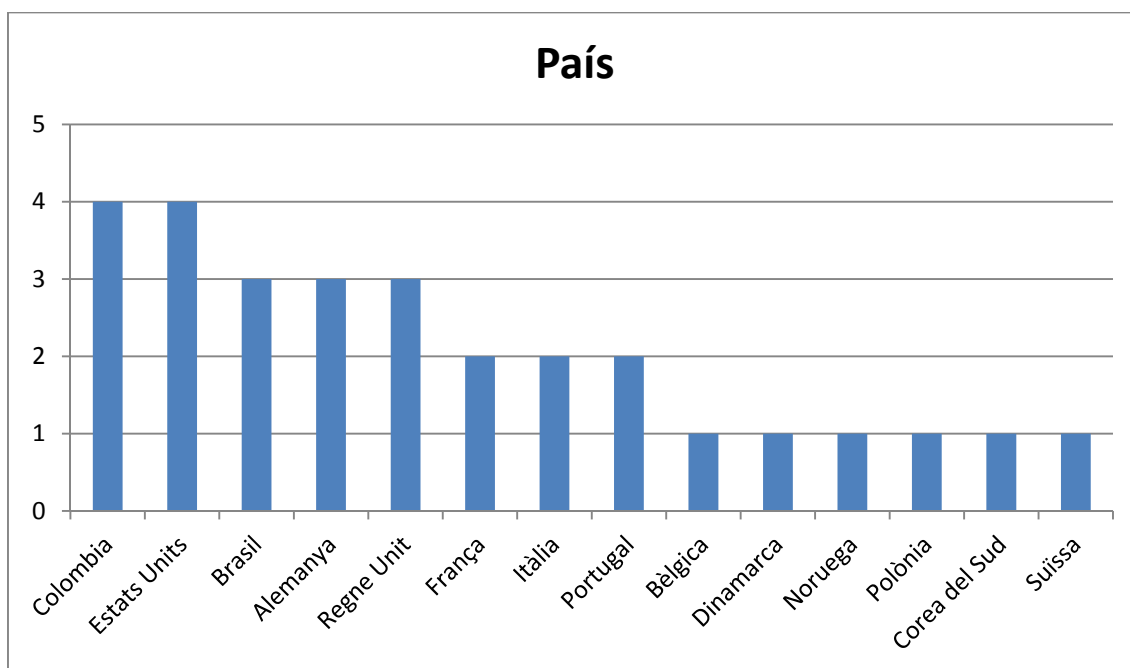




## País

La base de dades Scopus inclou el país de tots els autors d'un paper. Els 58 articles a més a més d'Espanya, tenen referenciats aquestes països:

PAÍS	ITEMS PUBLICATS
Colòmbia	4
Estats Units	4
Brasil	3
Alemanya	3
Regne Unit	3
França	2
Itàlia	2
Portugal	2
Bèlgica	1
Dinamarca	1
Noruega	1
Polònia	1
Corea del Sud	1
Suïssa	1

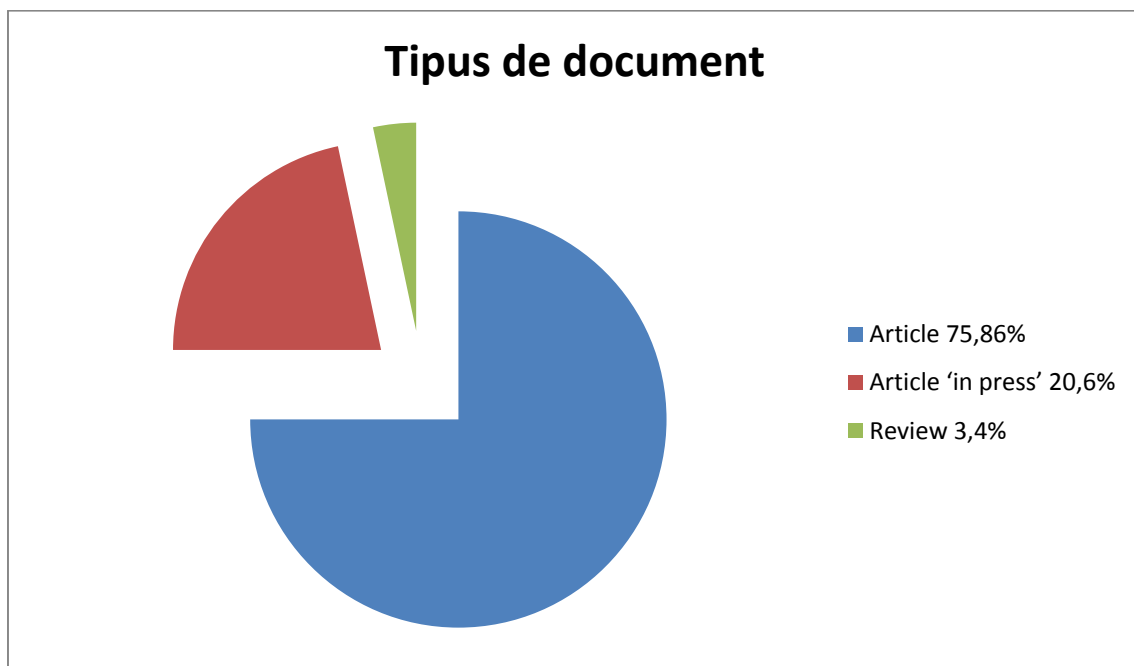




## Tipus de document

Gairebé la totalitat de les publicacions dels autors de l'ESAB que s'han trobat a Scopus, són articles de revista, siguin ja publicats o in press.

TIPOLOGIA DOCUMENTAL	ITEMS PUBLICATS
Article	44
Article 'in press'	12
Review	2

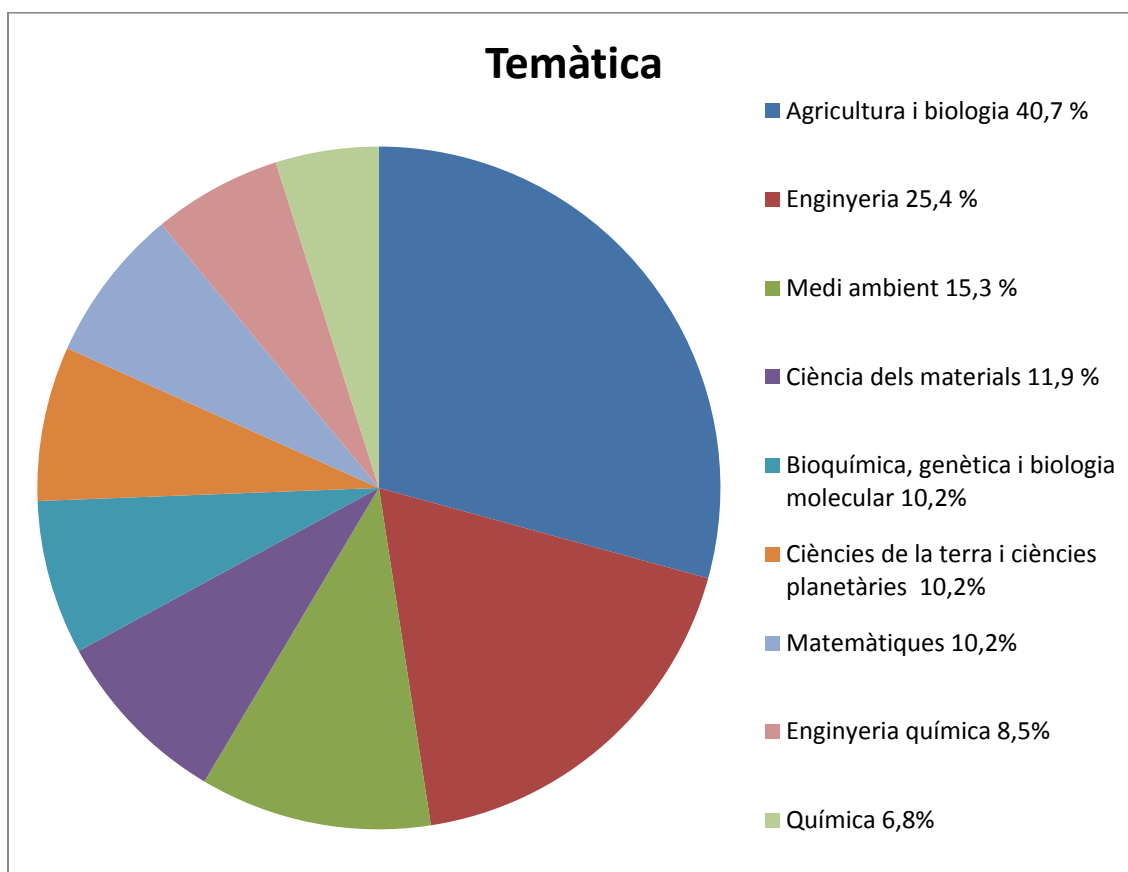




## Temàtica

La base de dades Scopus atorga a les revistes una o vàries categories temàtiques en funció del seu contingut. Les temàtiques de Scopus on n'hi ha més de dos articles analitzats son :

MATÈRIA	ITEMS PUBLICATS
Agricultura i biologia	24
Enginyeria	15
Medi ambient	9
Ciència dels materials	7
Bioquímica, genètica i biologia molecular	6
Ciències de la terra i ciències planetàries	6
Matemàtiques	6
Enginyeria química	5
Química	4





## EETAC

La cerca està efectuada en base a un llistat de 201 autors, provinent del Directori de l'EETAC.

S'utilitza la base de dades Scopus, limitant per any de publicació al 2014.

Durant l'any 2014 s'han publicat 222 documents a la base de dades Scopus signades per algun d'aquests professors. ([veure annex 2](#))

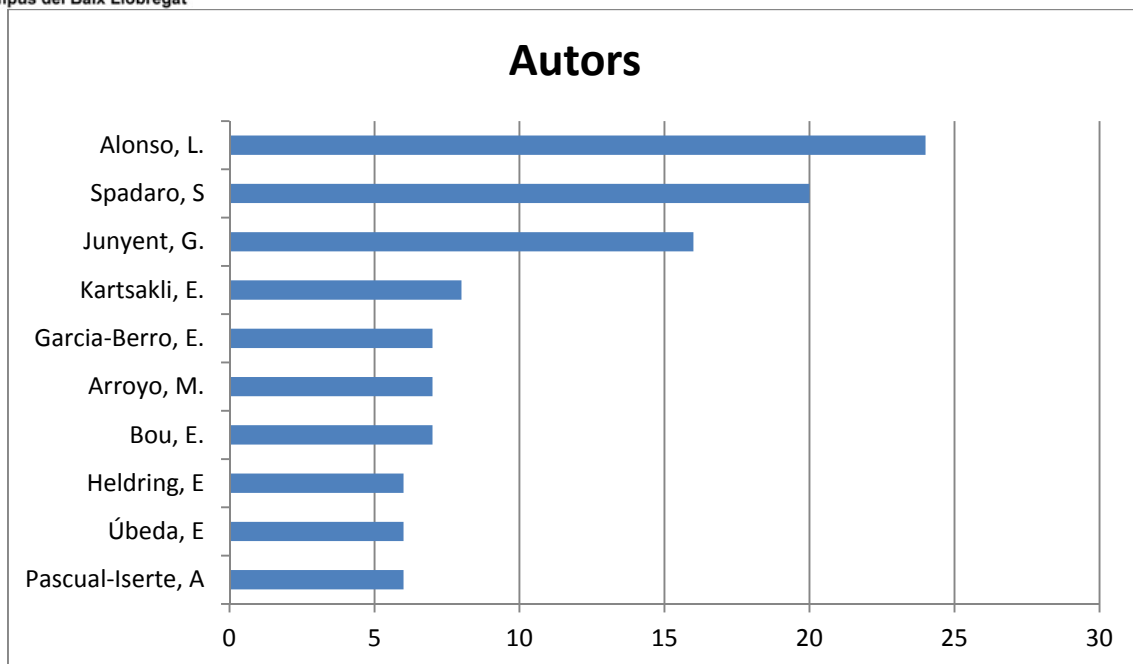
## Autors

A la taula es mostren els 10 autors<sup>4</sup> que més han publicat, incloent el número d'ítems i el *factor h*<sup>5</sup> que aquests tenen a Scopus. Els 10 autors que han publicat més han estat:

AUTOR	ITEMS PUBLICATS	FACTOR H
Alonso, L.	24	9
Spadaro, S	20	9
Junyent, G.	16	11
Kartsakli, E.	8	4
Bou, E.	7	2
Arroyo, M.	7	6
Garcia-Berro, E.	7	29
Pascual-Iserte, A	6	7
Úbeda, E	6	9
Heldring, E	6	9

<sup>4</sup> s'hi inclouen 13 per a posar tots els que tenen 3 articles

<sup>5</sup> Relaciona les publicacions i les cites rebudes, de tal manera que un *factor h* de 3, significa que l'autor té indexats a la base de dades Scopus com a mínim tres articles que han rebut com a mínim 3 cites.





## Revistes

En la taula s'hi inclou el títol de la revista, el número d'items que s'hi han publicat i en el cas que la publicació tingui factor d'impacte<sup>6</sup> a la base de dades *Journal Citation Reports*, el millor quartil i la categoria on es troba indexada. Les 10 revistes<sup>7</sup> on més s'ha publicat son:

TÍTOL REVISTA	ITEMS PUBLICATS	QUARTIL JCR
Sensors Switzerland	7	--
Conference on Optical Fiber Communication Technical Digest Series	5	--
Astronomy and Astrophysics	5	Q1 Astronomy & Astrophysics
IEEE Transactions on Geoscience and Remote Sensing	4	Q1 Engineering, Electrical & electronic Q1 Geochemistry & geophysics Q1 Imaging science & photographic technology Q1 Remote sensing
IEEE Transactions on Instrumentation and Measurement	4	Q2 Engineering, Electrical & electronic Q2 Instruments & instrumentation
Atmospheric Chemistry and Physics	4	Q1 Meteorology & atmospheric sciences
Journal of Alloys and Compounds	4	Q1 Materials science, multidisciplinary. Q1 Metallurgy & metallurgical engineering
Journal of Optical Communications and Networking	3	Q2 Optincs Q2 Telecommunications Q2 Computer science, information systems Q2 Computer Science, hardware & architecture
Lecture Notes in Computer Science <sup>8</sup>	3	--
Ad Hoc Networks	3	Q1 Telecommunications Q1 Computer science, information systems
IEEE Transactions on Antennas and Propagation	3	Q1 Engineering, Electrical & electronic Q1 Telecommunications
IEEE Communications Letters	3	Q2 Telecommunications
Photonic Network Communications	3	Q3 Telecommunications

<sup>6</sup> Relaciona el número de cites que ha rebut una revista en funció del número d'articles publicats. Es calcula dividint el número de cites d'un any pel número total d'articles publicats en els 2 anys anteriors.

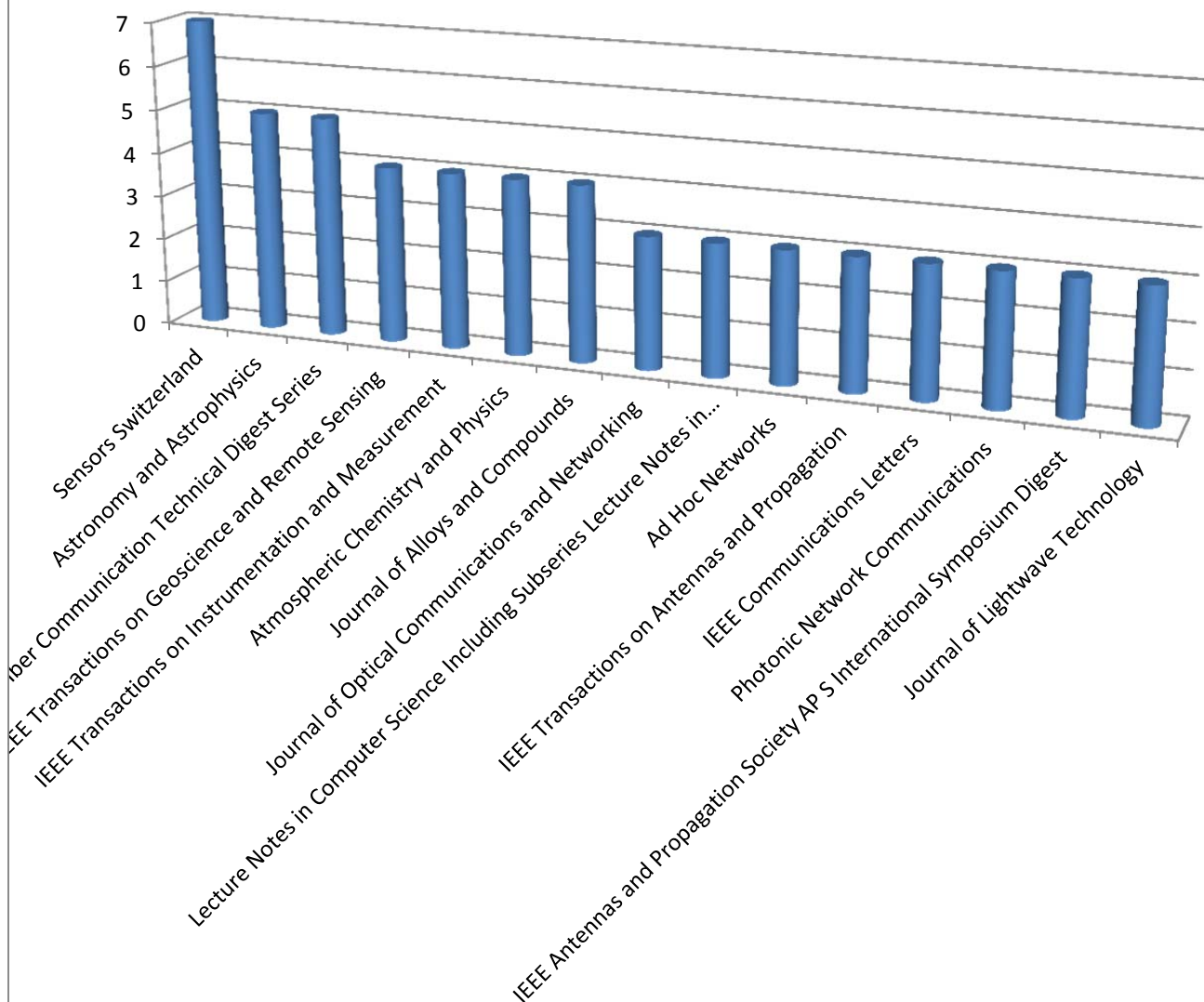
<sup>7</sup> S'hi inclouen 15 per a posar-hi totes les que tenen 3 items

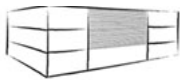
<sup>8</sup> Inclou Lecture Notes in Artificial Intelligence i Lecture Notes in Bioinformatics



		Q3 Computer science, information systems
IEEE Antennas and Propagation Society AP S International Symposium Digest	3	--
Journal of Lightwave Technology	3	Q1 Engineering, Electrical & electronic Q1 Optics Q1 Telecommunications

### Fonts



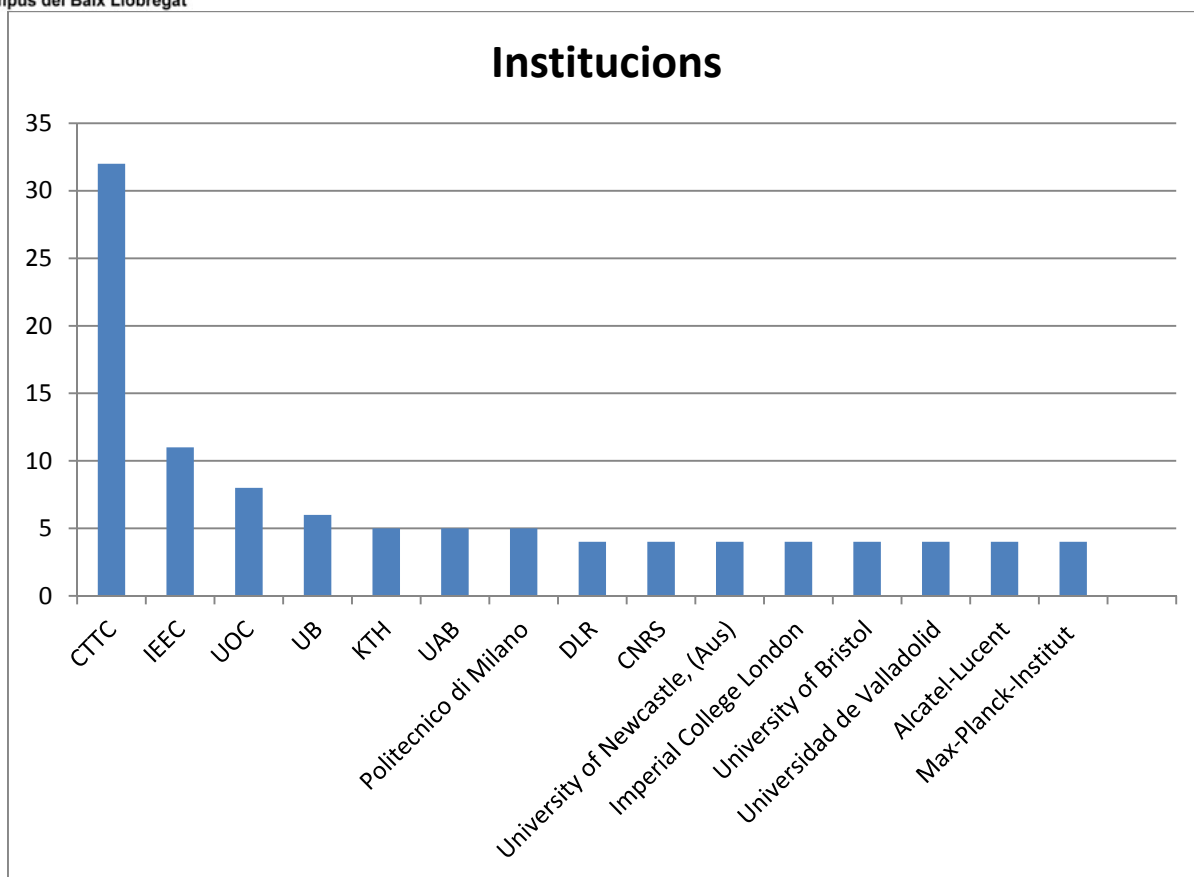


## Institucions d'origen

Scopus detalla la institució provinent de tots els autors que signen un paper. A continuació es detallen les principals afiliacions pels 222 articles (tots ells tenen com a mínim un autor amb afiliació EETAC) per tal de veure'n les co-autories institucionals.

<b>INSTITUCIÓ</b>	<b>ITEMS PUBLICATS</b>
Centre Tecnologic de Telecomunicacions de Catalunya	32
Instituto de Estudios Espaciales de Catalunya	11
Universitat Oberta de Catalunya	8
Universitat de Barcelona	6
The Royal Institute of Technology KTH (Suècia)	5
Universidad Autonoma de Barcelona	5
Politecnico di Milano	5
Deutsches Zentrum fur Luft- Und Raumfahrt (DLR Köln)	4
CNRS Centre National de la Recherche Scientifique (Paris)	4
University of Newcastle, Australia	4
Imperial College London	4
University of Bristol	4
Universidad de Valladolid	4
Alcatel-Lucent	4
Max-Planck-Institut fur Eisenforschung (Düsseldorf)	4



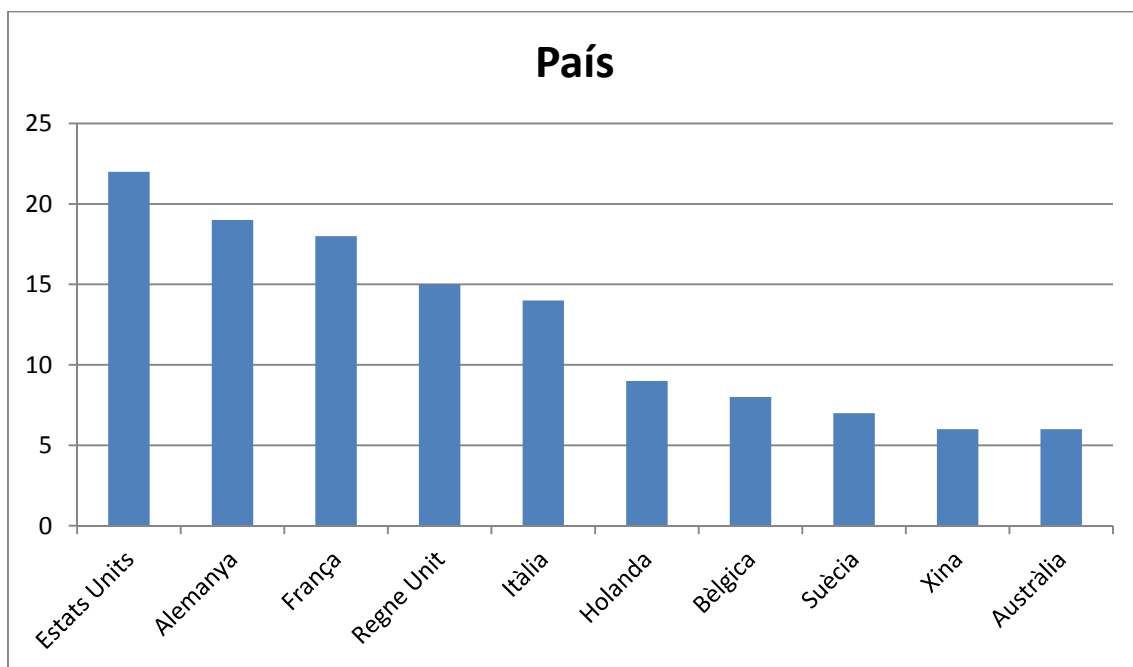




## País

La base de dades Scopus inclou el país de tots els autors d'un paper. Els 222 articles a més a més d'Espanya, tenen referenciats aquestes països:

PAÍS	ITEMS PUBLICATS
Estats Units	22
Alemanya	19
França	18
Regne Unit	15
Itàlia	14
Holanda	9
Bèlgica	8
Suècia	7
Xina	6
Austràlia	6

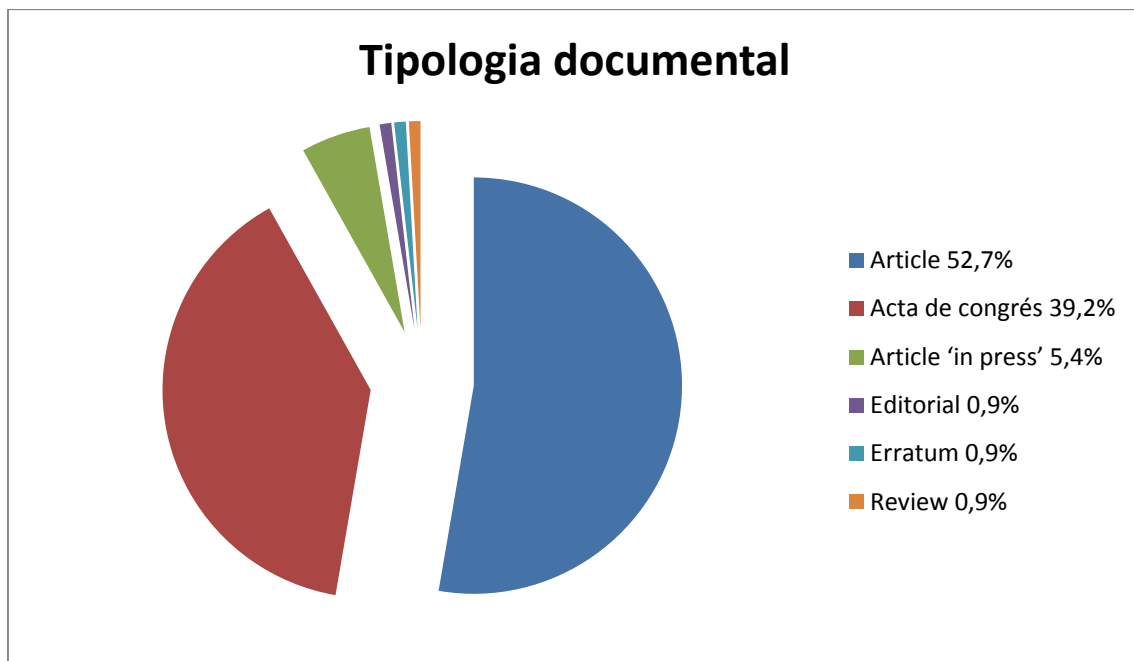




## Tipus de document

Un 52% de les 222 publicacions de l'EETAC són articles de revista i un 40% contribucions a congressos.

TIPOLOGIA DOCUMENTAL	ITEMS PUBLICATS
Article	117
Acta de congrés	87
Article 'in press'	12
Editorial	2
Erratum	2
Review	2





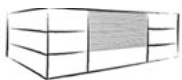
## Temàtica

La base de dades Scopus atorga a les revistes una o varies categories temàtiques en funció del seu contingut. Les 10 primeres temàtiques<sup>9</sup> que tracten els 222 articles analitzats son :

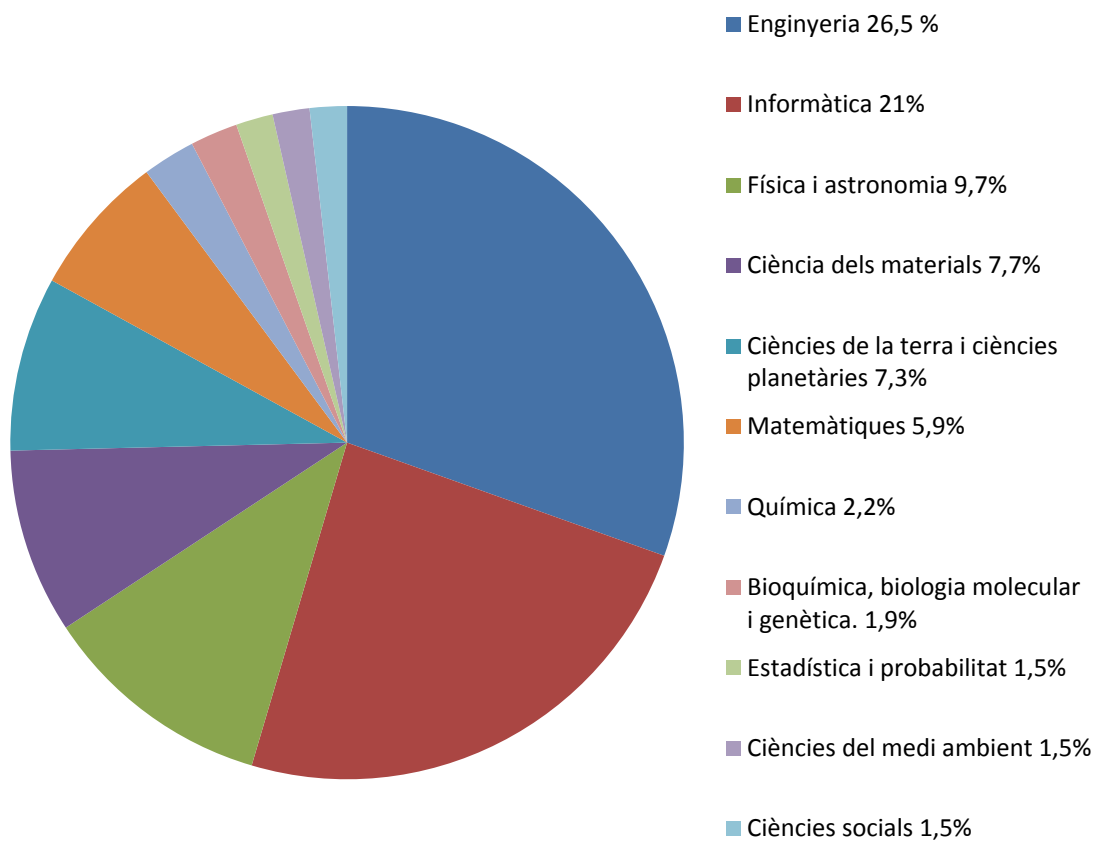
<b>MATÈRIA</b>	<b>ITEMS PUBLICATS</b>
Enginyeria	120
Informàtica	95
Física i astronomia	44
Ciència dels materials	35
Ciències de la terra i ciències planetàries	33
Matemàtiques	27
Química	10
Bioquímica, biologia molecular i genètica.	9
Estadística i probabilitat	7
Ciències del medi ambient	7
Ciències socials	7

---

<sup>9</sup> s'hi inclouen 11 per a posar totes les que en tenen 7



## Matèries





## Conclusions

La dificultat de fer la cerca pel nom de la institució (de vegades pel nom de l'escola, pel nom dels departaments, en diferents idiomes, sigles, etc...) ha fet que s'hagués de fer autor per autor.

També Scopus té mancances a l'hora d'assignar les institucions d'un article, s'han trobat casos on apareix una institució amb el nom en castellà i anglès i el sistema actua com si fossin llocs diferents, o s'assigna com a institució un Departament o ens jerarquicament inferior. Algunes dades s'han hagut de depurar manualment per aquest motiu.

*Pel que fa a la productivitat dels investigadors*, si la posem en relació amb el nombre de PDI de cada escola, l'ESAB amb 58 PDI i 58 documents obtindria una ràtio d'un article per PDI, mentre que la de l'EETAC és una mica més alta, 222 documents per a 201 autors, és a dir, una mitjana de 1,1 paper per professor.

*Pel que fa a co-autories ESAB-EETAC* 5 són els articles signants conjuntament per investigadors de les dues escoles.

*Pel que fa a les co-autories institucionals*, tot i la temàtica tant diferent de les escoles, trobem algunes institucions que co-signen treballs amb ambdues escoles, com per exemple la Universitat Autònoma de Barcelona, que ha publicat 5 articles amb l'EETAC i un amb l'ESAB.

*Pel que fa a les revistes on ambdues escoles publiquen*, destaquem *IEEE Transactions on Geoscience and Remote Sensing*, on s'han publicat 4 articles de l'EETAC i 3 de l'ESAB. També a *Sensors Switzerland*, l'EETAC n'ha publicat 7 i l'ESAB un. *Journal of Alloys and Compounds* també té contribucions de les dues escoles, 4 de l'EETAC i una de l'ESAB.

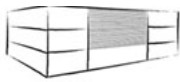
*Pel que fa al tipus de documents* hi ha una diferència significativa entre les dues escoles: el 58% de la producció de l'EETAC son articles (publicats i in press) i aquesta xifra és gairebé del 100% a l'ESAB (96,4%). El 39% de la producció de l'EETAC son actes de congrés i no s'ha trobat cap contribució de congrés per l'ESAB. Això no vol dir que els autors de l'ESAB no publiquin en congressos, sinó que els congressos on es publica no estan indexats a Scopus.

## Millors

En el moment de realitzar les consultes no estava implementada l'opció de fer la cerca per l'ORCID. Per properes edicions es tindrà en compte.

Per a informes futurs, s'examinarà la productivitat dels autors segons Lotka.

Mirar quins son els congressos on publica l'ESAB per tal de que s'indexin a SCOPUS.



## ANNEX 1: BIBLIOGRAFIA ESAB

Akaichi, F., Nayga, R. M., & Gil, J. M. (2014). Demand reduction in multi-unit auctions with varying number of bidders and units. *Economics Letters*, 124(3), 443-445.

Alfranca, O., Voces, R., Herruzo, A. C., & Diaz-Balteiro, L. (2014). Effects of innovation on the european wood industry market structure. *Forest Policy and Economics*, 40, 40-47.

Almansa, C., Masaló, I., Reig, L., Piedrahita, R., & Oca, J. (2014). Influence of tank hydrodynamics on vertical oxygen stratification in flatfish tanks. *Aquacultural Engineering*, 63, 1-8.

Amaral, R. D. A., Benedetti, B. C., Pujola, M., Achaerandio, I., & Bachelli, M. L. B. (2014). Effect of ultrasound on quality of fresh-cut potatoes during refrigerated storage. *Food Engineering Reviews*, [In press].

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Benítez, S., Soro, L., Achaerandio, I., Sepulcre, F., & Pujolá, M. (2014). Combined effect of a low permeable film and edible coatings or calcium dips on the quality of fresh-cut pineapple. *Journal of Food Process Engineering*, 37(2), 91-99.

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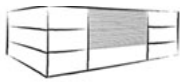
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Domínguez, C., Flores, C., Caixach, J., Mita, L., Piña, B., Comas, J., & Bayona, J. M. (2014). Evaluation of antibiotic mobility in soil associated with swine-slurry soil amendment under cropping conditions. *Environmental Science and Pollution Research*, [In press].

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Gil, E., Arnó, J., Llorens, J., Sanz, R., Llop, J., Rosell-Polo, J. R., . . . Escolà, A. (2014). Advanced technologies for the improvement of spray application techniques in spanish viticulture: An overview. *Sensors (Basel, Switzerland)*, 14(1), 691-708.

Gil, E., Balsari, P., Gallart, M., Llorens, J., Marucco, P., Andersen, P. G., . . . Llop, J. (2014). Determination of drift potential of different flat fan nozzles on a boom sprayer using a test bench. *Crop Protection*, 56, 58-68.

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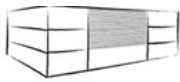
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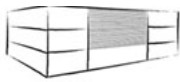
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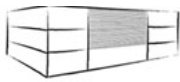
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