



Biblioteca del Campus del Baix Llobregat
UNIVERSITAT POLITÈCNICA DE CATALUNYA



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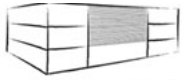
Biblioteca del Campus del Baix Llobregat

Estudi de la producció científica.

MASTEAM

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Juny 2018



INTRODUCCIÓ

Els professors que imparteixen docència al MASTEAM (Master's degree in Applied Telecommunications and Engineering Management¹) a l'EETAC (Escola d'Enginyeria de Telecomunicació i Aeroespacial de Castelldefels² de la UPC), provenen en la seva majoria del camp de les Telecomunicacions. Hem volgut estudiar la seva producció científica, tenint en compte els ítems publicats, anys de publicació, autors, centres col·laboradors en les co-autories, etc. També oferim una taula amb els 20 articles més citats.

MEDODOLOGIA I RESULTAT

Hem fet una cerca a la base de dades Scopus, distribuïda per l'editorial Elsevier, buscant per camp *autor*, el nom de cadascun dels professors. La cerca s'ha realitzat sense limitació cronològica basat en el seu *Scopus-ID*. No hem volgut limitar cronològicament perquè volem estudiar la seva publicació en tota la seva carrera professional. Així, n'hi ha articles publicats des de l'any 1.985. En total, els professors que imparteixen docència al MASTEAM han publicat entre tots **1.314 documents**.

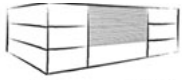
FONTS

A continuació es mostra una relació dels títols de les revistes i congressos on s'ha publicat més de dos articles, següidament del nombre d'ítems totals que s'han publicat.

TITOL DE LA FONT	ITEMS
Lecture Notes In Computer Science Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics	53
IEEE International Symposium on Personal Indoor and Mobile Radio Communications PIMRC	32
IEEE Transactions on Instrumentation and Measurement	30
Conference Record IEEE Instrumentation and Measurement Technology Conference	29
IEEE Vehicular Technology Conference	22
Proceedings of SPIE the International Society for Optical Engineering	22
IEEE Transactions on Applied Superconductivity	18

¹ <http://eetac.upc.edu/en/masteam>

² <https://eetac.upc.edu/ca>



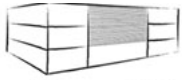
IEEE Transactions on Biomedical Engineering	17
Journal of Optical Communications and Networking	17
Optics Express	17
IEEE Transactions on Microwave Theory and Techniques	15
Computer Networks	14
IEEE Communications Letters	14
AIAA IEEE Digital Avionics Systems Conference Proceedings	13
Journal Of Ambient Intelligence and Smart Environments	13
Annual International Conference of the IEEE Engineering in Medicine and Biology Proceedings	12
Sensors (Switzerland)	12
IEEE Antennas and Propagation Society AP S International Symposium Digest	11
IEEE MTT S International Microwave Symposium Digest	11
Electronics Letters	10
IEEE Communications Magazine	10
Sensors and Actuators A Physical	10
Physiological Measurement	9
IEEE Microwave and Wireless Components Letters	8
Applied Optics	7
Eurasip Journal on Wireless Communications And Networking	7
IEEE International Conference On Communications	7
Journal Of Lightwave Technology	7
Measurement Science And Technology	7
Optics Letters	7
Computer Communications	6
IEEE Sensors Journal	6



Photonic Network Communications	6
Wireless Communications and Mobile Computing	6
Conference Proceedings Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Conference	5
IEEE Antennas And Wireless Propagation Letters	5
PESC Record IEEE Annual Power Electronics Specialists Conference	5
Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society EMBS	5
Proceedings of the Mediterranean Electrotechnical Conference MELECON	5
Wireless Networks	5
Ad Hoc Networks	4
Computing in Cardiology	4
ETRI Journal	4
European Space Agency Special Publication ESA SP	4
IECON Proceedings Industrial Electronics Conference	4
IEEE Transactions on Industrial Electronics	4
IFMBE Proceedings	4
Journal of Industrial Engineering and Management	4
Journal of Network and Computer Applications	4
Measurement (Journal of the International Measurement Confederation)	4
Optical Switching and Networking	4
Proceedings of IEEE Sensors	4
Tecnologia del Agua	4
Transactions on Emerging Telecommunications Technologies	4
Wireless Personal Communications	4



13th IEEE Workshop on Local and Metropolitan Area Networks Lanman 2004	3
Advances in Intelligent Systems and Computing	3
Conference on Optical Fiber Communication Technical Digest Series	3
Computers and electronics in agriculture	3
EPJ Web of Conferences	3
European Transactions on Telecommunications	3
Frequenz	3
IEE Colloquium Digest	3
IEE Conference Publication	3
IEEE Aerospace Conference Proceedings	3
IEEE Journal on Selected Areas in Communications	3
IEEE Latin America Transactions	3
IEEE Network	3
IEEE Transactions on Antennas and Propagation	3
IEEE Wireless Communications	3
International Journal of RF and Microwave Computer Aided Engineering	3
Journal Of Superconductivity and Novel Magnetism	3
Lecture Notes in Electrical Engineering	3
Lecture Notes of The Institute for Computer Sciences Social Informatics And Telecommunications Engineering	3
Medical & Biological Engineering & Computing	3
Microwave And Optical Technology Letters	3
Optical Engineering	3
Parallel Computing	3



A continuació, hem destriat les fonts que son revistes científiques i hem inclòs el millor quartil, si és que la revista es troba indexada a JCR: Journal Citation Reports. S'ha emprat la darrera versió disponible de Journal Citation Reports en el moment de realitzar l'estudi, la del 2016.

TITOL DE LA FONT	ITEMS	QUARTIL
IEEE Transactions on Instrumentation and Measurement	30	Q1
IEEE Transactions on Applied Superconductivity	18	Q3
IEEE Transactions on Biomedical Engineering	17	Q1
Journal of Optical Communications and Networking	17	Q2
Optics Express	17	Q1
IEEE Transactions on Microwave Theory and Techniques	15	Q2
Computer Networks	14	Q1
IEEE Communications Letters	14	Q2
Journal Of Ambient Intelligence and Smart Environments	13	Q4
Sensors (Switzerland)	12	Q1
Electronics Letters	10	Q3
IEEE Communications Magazine	10	Q1
Sensors and Actuators A Physical	10	Q1
Physiological Measurement	9	Q2
IEEE Microwave and Wireless Components Letters	8	Q2
Applied Optics	7	Q3
Eurasip Journal on Wireless Communications And Networking	7	Q3
Journal Of Lightwave Technology	7	Q1
Measurement Science And Technology	7	Q2
Optics Letters	7	Q1
Computer Communications	6	Q1



IEEE Sensors Journal	6	Q1
Photonic Network Communications	6	Q3
Wireless Communications and Mobile Computing	6	Q2
IEEE Antennas And Wireless Propagation Letters	5	Q2
Wireless Networks	5	Q3
Ad Hoc Networks	4	Q1
Computing in Cardiology	4	--
ETRI Journal	4	Q3
European Space Agency Special Publication ESA SP	4	--
IEEE Transactions on Industrial Electronics	4	Q1
Journal of Industrial Engineering and Management	4	--
Journal of Network and Computer Applications	4	Q1
Measurement (Journal of the International Measurement Confederation)	4	Q1
Optical Switching and Networking	4	Q2
Tecnologia del Agua	4	--
Transactions on Emerging Telecommunications Technologies	4	Q3
Wireless Personal Communications	4	Q4
Advances in Intelligent Systems and Computing	3	--
Computers and electronics in agriculture	3	Q1
European Transactions on Telecommunications	3	Q2
Frequenz	3	Q4
IEEE Journal on Selected Areas in Communications	3	Q1
IEEE Latin America Transactions	3	Q4
IEEE Network	3	Q1
IEEE Transactions on Antennas and Propagation	3	Q1
IEEE Wireless Communications	3	Q1



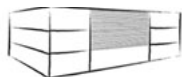
International Journal of RF and Microwave Computer Aided Engineering	3	Q4
Journal Of Superconductivity and Novel Magnetism	3	Q3
Medical & Biological Engineering & Computing	3	Q2
Microwave And Optical Technology Letters	3	Q4
Optical Engineering	3	Q3
Parallel Computing	3	Q2

A continuació hem destriat les fonts que son **congressos**:

TITOL DE LA FONT	ITEMS
Lecture Notes In Computer Science Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics	53
IEEE International Symposium on Personal Indoor and Mobile Radio Communications PIMRC	32
Conference Record IEEE Instrumentation and Measurement Technology Conference	29
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Proceedings of SPIE the International Society for Optical Engineering	22
AIAA IEEE Digital Avionics Systems Conference Proceedings	13
Annual International Conference of the IEEE Engineering in Medicine and Biology Proceedings	12
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IEEE MTT S International Microwave Symposium Digest	11
IEEE International Conference On Communications	7
Conference Proceedings Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Conference	5



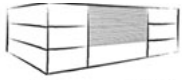
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Proceedings of the Mediterranean Electrotechnical Conference MELECON	5
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13th IEEE Workshop on Local and Metropolitan Area Networks Lanman 2004	3
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IEE Colloquium Digest	3
IEE Conference Publication	3
IEEE Aerospace Conference Proceedings	3
Lecture Notes in Electrical Engineering	3
Lecture Notes of The Institute for Computer Sciences Social Informatics And Telecommunications Engineering	3



AUTORS I AUTORES

Es presenta en aquesta taula el nom dels autors/res que han publicat, seguidament del número d'articles que han publicat. S'enllaça al seu perfil de Futur (portal de la recerca de la UPC), on es poden consultar les seves publicacions, identificador ORCID, àrees d'expertesa, etc... Cal mencionar que el sumatori dels articles és superior al nombre d'articles totals publicats degut a les co-autories.

NOM	NUMERO D'ARTICLES
SPADARO, Salvatore	188
PALLÀS ARENY, Ramon	175
BELMONTE MOLINA, Aniceto	74
RUIZ BOQUÉ, Sílvia	68
COLLADO GOMEZ, Juan Carlos	67
BARRADO MUXÍ, Cristina	65
CASAS PIEDRAFITA, Oscar	65
GÓMEZ MONTENEGRO, Carlos	61
SALLENT RIBES, Sebastià	57
MONTORO LÓPEZ, Gabriel	56
CERVELLÓ PASTOR, Cristina	53
GILABERT PINAL, Pere Lluís	49
OLMOS BONAFE, Juan José	42
MESEGUER PALLARES, Roc	40
GONZALEZ ARBESU, Jose Maria	38
GELONCH BOSCH, Antoni	36
FERNANDEZ ALARCON, Vicenç	35
ZOLA, Enrica Valeria	35
HERNÁNDEZ SERRANO, Juan	30
TARRÉS RUIZ, Francesc	28
LÓPEZ AGUILERA, Elena	27
GARCIA VILLEGAS, Eduard	26



LÓPEZ LAPEÑA, Óscar	24
ROYO VALLÉS, Dolors	24
POLO CANTERO, Josep	23
RINCÓN RIVERA, David	23
MARINESCU, Maria-Cristina	21
ALCOBER SEGURA, Jesús	15
LEÓN ABARCA, Olga	15
ELÍAS FUSTE, Antoni	10
SERRANO FINETTI, Ernesto	7

A continuació oferim la llista dels autors/res ordenada pel seu Factor H, donat per Scopus. Cal explicar que el factor H és un índex bibliomètric que posa en relació papers i cites rebudes. Per exemple, en el cas del professor Ramon Pallàs, tenir un *factor h* de 23 vol dir que té com a mínim 23 articles que han rebut 23 cites.

NOM	FACTOR H
PALLÀS ARENY, Ramon	23
CASAS PIEDRAFITA, Oscar	17
SPADARO, Salvatore	16
BELMONTE MOLINA, Aniceto	13
GÓMEZ MONTENEGRO, Carles	13
COLLADO GOMEZ, Juan Carlos	12
MONTORO LÓPEZ, Gabriel	11
GILABERT PINAL, Pere Lluís	11
GARCIA VILLEGAS, Eduard	11
CERVELLÓ PASTOR, Cristina	10
RUIZ BOQUÉ, Sílvia	9
BARRADO MUXÍ, Cristina	9
SALLENT RIBES, Sebastià	9
HERNÁNDEZ SERRANO, Juan	9
OLMOS BONAFE, Juan José	8
GONZALEZ ARBESU, José Maria	8
FERNANDEZ ALARCON, Vicenç	8
LÓPEZ LAPEÑA, Óscar	8
MESEGUER PALLARES, Roc	7
GELONCH BOSCH, Antoni	7
LÓPEZ AGUILERA, Elena	7
POLO CANTERO, Josep	7
MARINESCU, Maria-Cristina	6



Biblioteca del Campus del Baix Llobregat



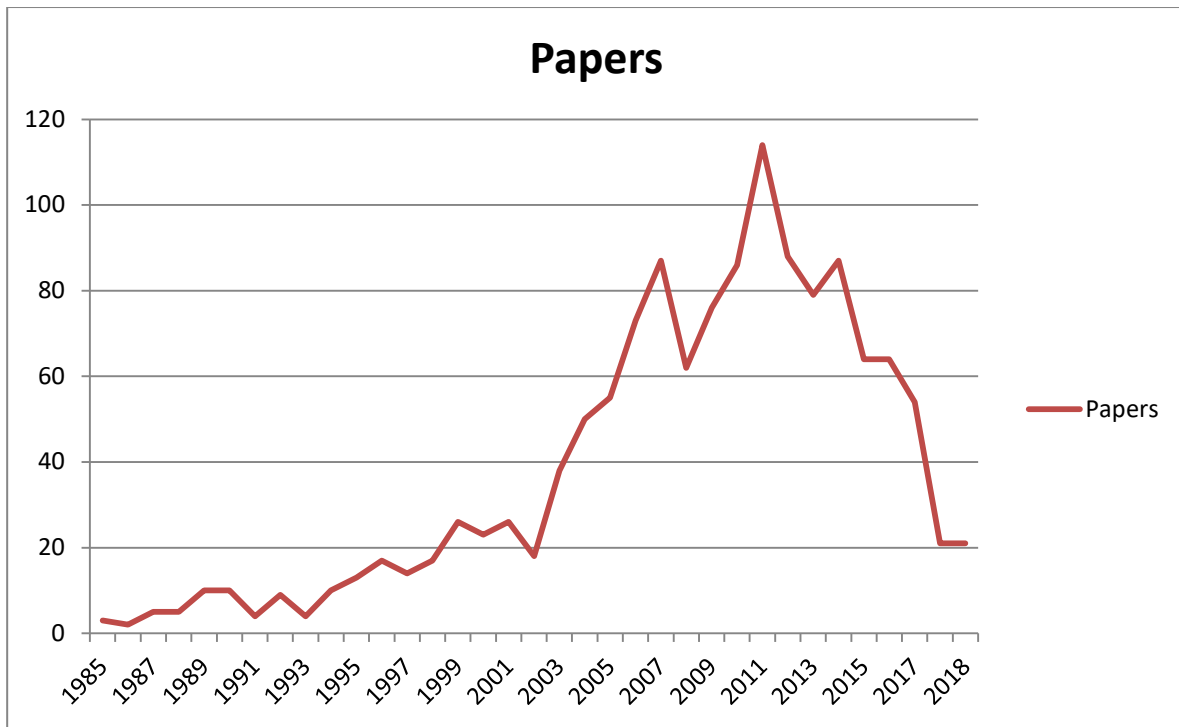
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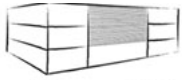
LEÓN ABARCA, Olga	6
ZOLA, Enrica Valeria	5
TARRÉS RUIZ, Francesc	5
ROYO VALLÉS, Dolors	5
RINCÓN RIVERA, David	5
ELÍAS FUSTE, Antoni	5
ALCOBER SEGURA, Jesús	4
SERRANO FINETTI, Ernesto	3



ANY DE PUBLICACIÓ DELS ARTICLES

A continuació oferim un gràfic de línia per veure la data de publicació dels papers. L'any 2011 va ser el més prolífic, amb 114 articles publicats.



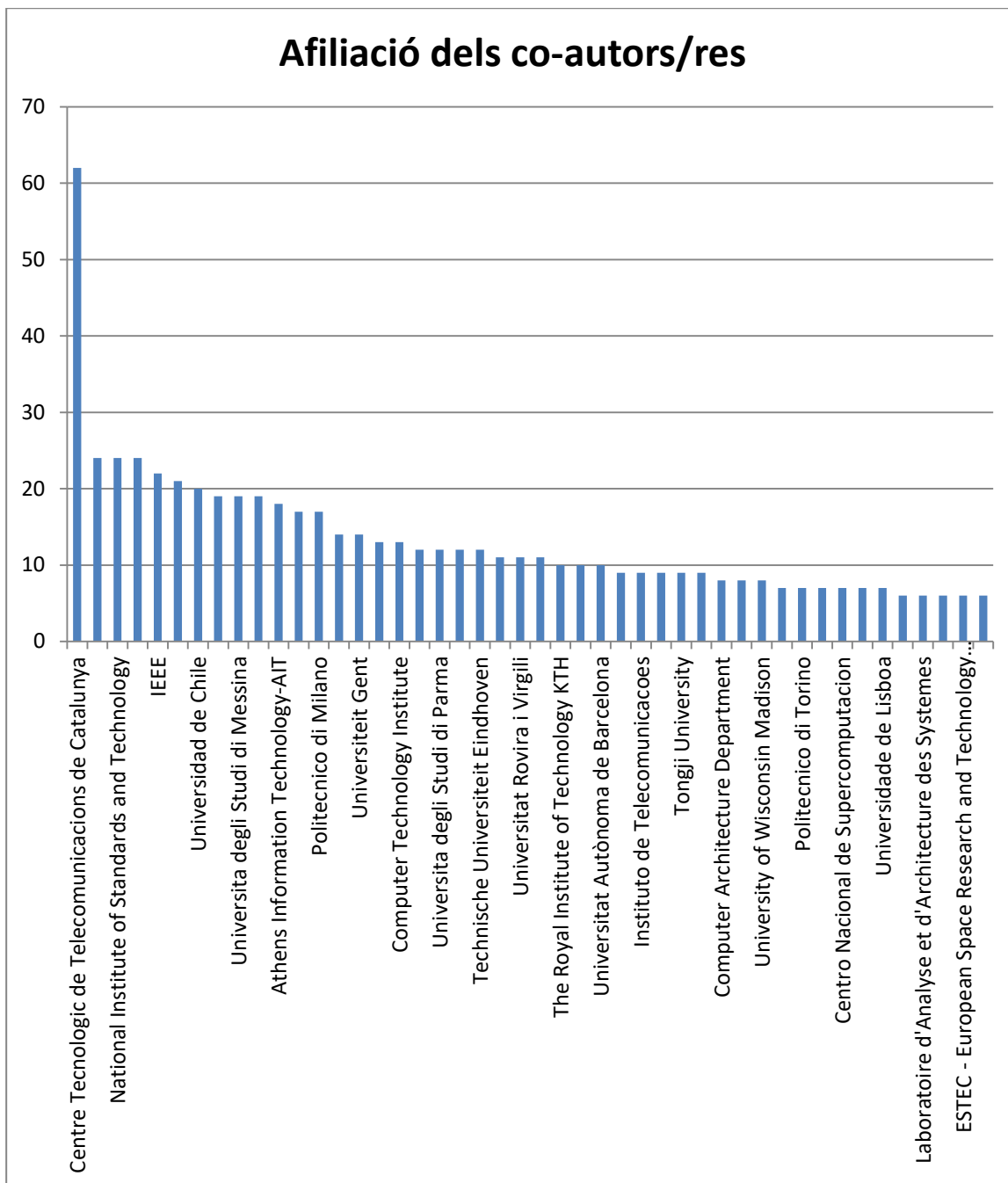
**AFILIACIÓ AUTORS/RES**

A continuació oferim les dades d'afiliació de les autories. Dels 1.314 articles publicats, 1.195 d'ells tenen com a autoria la institució UPC. Pot sorprendre que no siguin tots ells. No obstant hem de recordar que no estem estudiant la producció científica de la UPC sinó dels professors que fan docència al màster MASTTEAM, així doncs poden haver tingut una etapa professional anterior fóra de la UPC. També ens serveix per l'estudi de l'afiliació de les co-autories, ja que la base de dades Scopus inclou cadascuna de les institucions de tots els co-autors que han escrit un article. És a dir, s'inclouen totes les institucions dels participants.

INSTITUCIÓ	NÚM. ARTICLES
Universitat Politècnica de Catalunya	1195
Centre Tecnològic de Telecomunicacions de Catalunya	62
Stanford University	24
National Institute of Standards and Technology	24
Nokia Corporation	24
IEEE	22
University of Essex	21
Universidad de Chile	20
I2CAT Foundation	19
Universita degli Studi di Messina	19
Nokia Bell Labs	19
Athens Information Technology-AIT	18
University of Bristol	17
Politecnico di Milano	17
Universitat Politècnica de València	14
Universiteit Gent	14
Karlstads universitet	13
Computer Technology Institute	13
Universidad Carlos III de Madrid	12
Universita degli Studi di Parma	12
Middlesex University	12
Technische Universiteit Eindhoven	12
Institut de Ciències Fòniques	11
Universitat Rovira i Virgili	11
Universitat Pompeu Fabra	11
The Royal Institute of Technology KTH	10
Universidad de Cantabria	10
Universitat Autònoma de Barcelona	10
Instituto Superior Tecnico	9
Instituto de Telecomunicacoes	9
Technische Universität Wien	9



Tongji University	
NEC Deutschland GmbH	9
Computer Architecture Department	8
Universitat Ramon Llull	8
University of Wisconsin Madison	8
King's College London	7
Politecnico di Torino	7
Consiglio Nazionale delle Ricerche	7
Centro Nacional de Supercomputacion	7
Parc Mediterrani de la Tecnologia	7
Universidade de Lisboa	7
Advanced and Nano Materials Research S.r.l.	6
Laboratoire d'Analyse et d'Architecture des Systemes	6
Centro de Investigacion y de Estudios Avanzados	6
ESTEC - European Space Research and Technology Centre	6
Interuniversity Micro-Electronics Center at Leuven	6

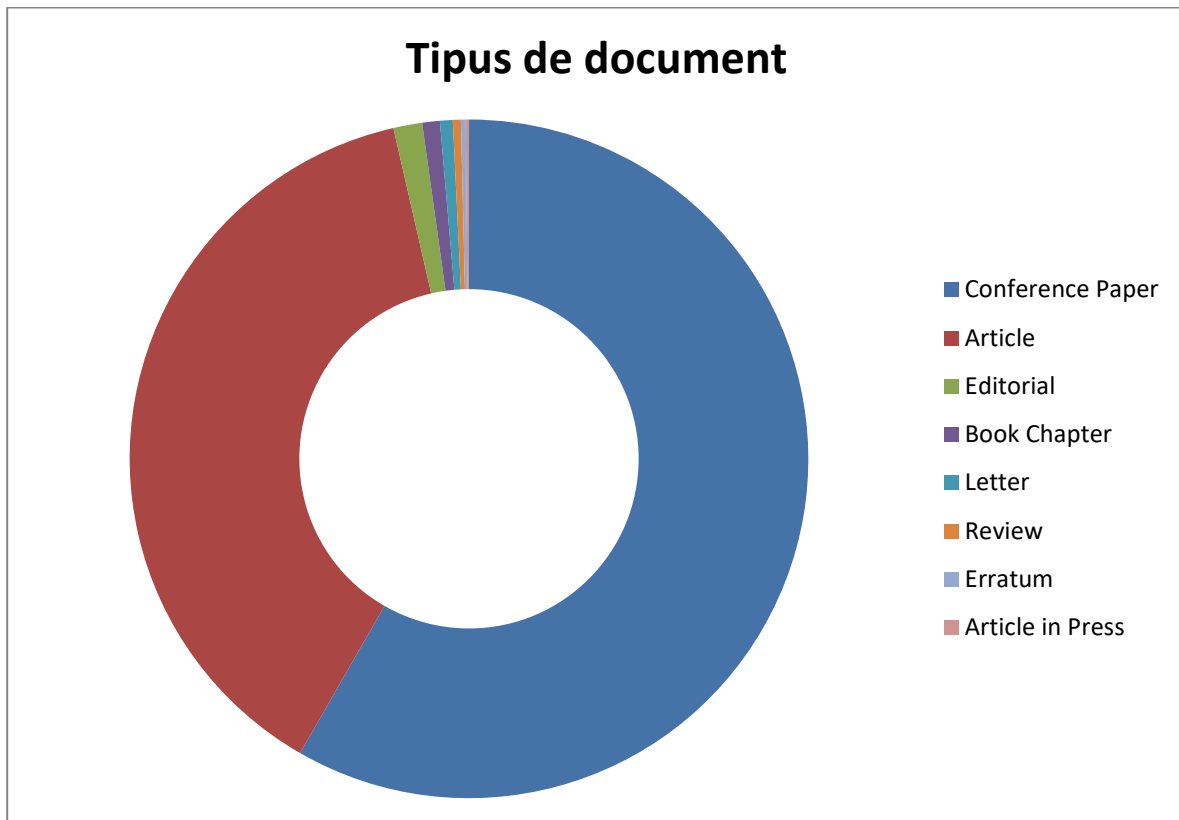


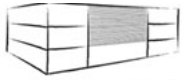


TIPUS DE DOCUMENT

Si distingim segons la seva tipologia documental, els documents publicats es divideixen en:

TIPOLOGIA DOCUMENTAL	ITEMS
Conference Paper	766
Article	501
Editorial	18
Book Chapter	11
Letter	8
Review	5
Erratum	3
Article in Press	2

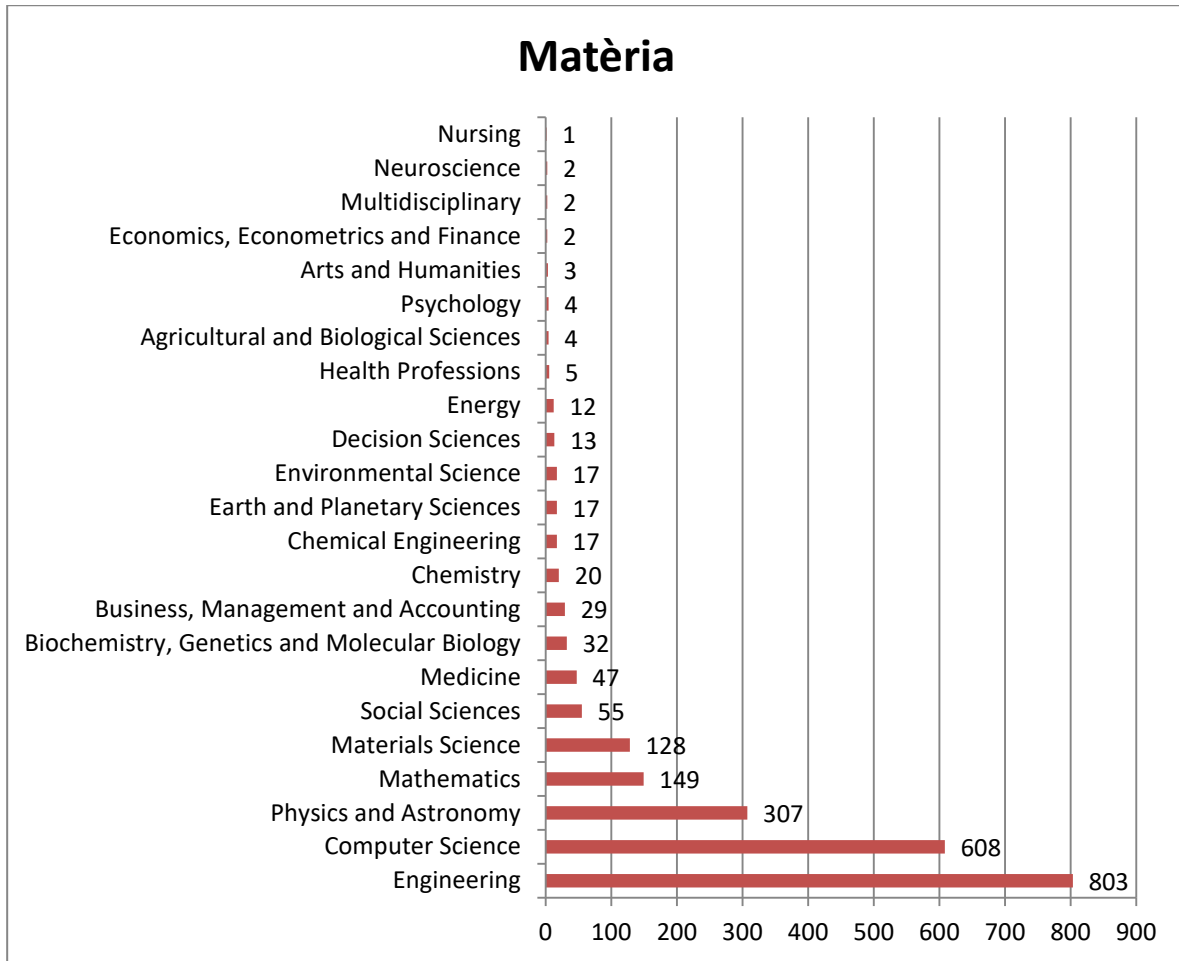


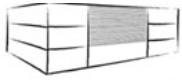


MATÈRIA DE LES FONTS D'INFORMACIÓ

Pel que fa a la classificació de les revistes i congressos on s'ha publicat, la base de dades Scopus els hi assigna una matèria o àmbit d'especialitat.

MATÈRIA	NUM. ÍTEMS
Engineering	803
Computer Science	608
Physics and Astronomy	307
Mathematics	149
Materials Science	128
Social Sciences	55
Medicine	47
Biochemistry, Genetics and Molecular Biology	32
Business, Management and Accounting	29
Chemistry	20
Chemical Engineering	17
Earth and Planetary Sciences	17
Environmental Science	17
Decision Sciences	13
Energy	12
Health Professions	5
Agricultural and Biological Sciences	4
Psychology	4
Arts and Humanities	3
Economics, Econometrics and Finance	2
Multidisciplinary	2
Neuroscience	2
Nursing	1

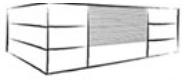




20 PAPERS MÉS CITATS.

A continuació oferim en forma de bibliografia els 20 treballs més citats escrits per professors del MASTEAM. Es presenten ordenats per número de cites i es destaca en negreta l'autor o autors del MASTEAM.

- 1) **Gómez, C.**, Oller, J., Paradells, J. Overview and evaluation of bluetooth low energy: An emerging low-power wireless technology (2012) *Sensors (Switzerland)*, 12 (9), pp. 11734-11753. **Cited 264 times.** DOI: [10.3390/s120911734](https://doi.org/10.3390/s120911734)
- 2) **Gómez, C.**, Paradells, J. Wireless home automation networks: A survey of architectures and technologies (2010) *IEEE Communications Magazine*, 48 (6), art. no. 5473869, pp. 92-101. **Cited 235 times.** DOI: [10.1109/MCOM.2010.5473869](https://doi.org/10.1109/MCOM.2010.5473869)
- 3) Rosell, J., Colominas, J., Riu, P., **Pallàs-Areny, R.**, Webster, J.G. Skin Impedance From 1 Hz to 1 MHz (1988) *IEEE Transactions on Biomedical Engineering*, 35 (8), pp. 649-652. **Cited 193 times.** DOI: [10.1109/10.4599](https://doi.org/10.1109/10.4599)
- 4) Spinelli, E.M., **Pallàs-Areny, R.**, Mayosky, M.A. AC-coupled front-end for biopotential measurements (2003) *IEEE Transactions on Biomedical Engineering*, 50 (3), pp. 391-395. **Cited 137 times.** DOI: [10.1109/TBME.2003.808826](https://doi.org/10.1109/TBME.2003.808826)
- 5) Chen, W., Collins, A., Cummings, R., Ke, T., Liu, Z., **Rincón, D.**, Sun, X., Wang, Y., Wei, W., Yuan, Y. Influence maximization in social networks when negative opinions may emerge and propagate (2011) *Proceedings of the 11th SIAM International Conference on Data Mining, SDM 2011*, pp. 379-390. **Cited 136 times.**
- 6) Papagianni, C., Leivadeas, A., Papavassiliou, S., Maglaris, V., **Cervelló-Pastor, C.**, Monje, A. On the optimal allocation of virtual resources in cloud computing networks (2013) *IEEE Transactions on Computers*, 62 (6), art. no. 6463381, pp. 1060-1071. **Cited 132 times.** DOI: [10.1109/TC.2013.31](https://doi.org/10.1109/TC.2013.31)
- 7) **López, O.**, Penella, M.T., **Gasulla, M.** A new MPPT method for low-power solar energy harvesting (2010) *IEEE Transactions on Industrial Electronics*, 57 (9), art. no. 5345741, pp. 3129-3138. **Cited 113 times.** DOI: [10.1109/TIE.2009.2037653](https://doi.org/10.1109/TIE.2009.2037653)
- 8) Pereira, P.R., Casaca, A., Rodrigues, J.J.P.C., Soares, V.N.G.J., Triay, J., **Cervelló-Pastor, C.** From delay-tolerant networks to vehicular delay-tolerant networks (2012) *IEEE Communications Surveys and Tutorials*, 14 (4), art. no. 6007076, pp. 1166-1182. **Cited 112 times.** DOI: [10.1109/SURV.2011.081611.00102](https://doi.org/10.1109/SURV.2011.081611.00102)
- 9) **Fernández, V.**, Simo, P., Sallan, J.M. Podcasting: A new technological tool to facilitate good practice in higher education (2009) *Computers and Education*, 53 (2), pp. 385-392. **Cited 106 times.** DOI: [10.1016/j.compedu.2009.02.014](https://doi.org/10.1016/j.compedu.2009.02.014)
- 10) Jofre, L., Hawley, M.S., Broquetas, A., De Los Reyes, E., Ferrando, M., **Elias-Fusté, A.R.** Medical Imaging with a Microwave Tomographic Scanner (1990) *IEEE Transactions on Biomedical Engineering*, 37 (3), pp. 303-312. **Cited 93 times.** DOI: [10.1109/10.52331](https://doi.org/10.1109/10.52331)
- 11) **Belmonte, A.** Feasibility study for the simulation of beam propagation: Consideration of coherent lidar performance (2000) *Applied Optics*, 39 (30), pp. 5426-5445. **Cited 89 times.** DOI: [10.1364/AO.39.005426](https://doi.org/10.1364/AO.39.005426)



- 12) **Belmonte, A.**, Kahn, J.M. Performance of synchronous optical receivers using atmospheric compensation techniques (2008) *Optics Express*, 16 (18), pp. 14151-14162. **Cited 88 times**. DOI: [10.1364/OE.16.014151](https://doi.org/10.1364/OE.16.014151)
- 13) Díaz, S.E., Pérez, J.C., Mateos, A.C., **Marinescu, M.-C.**, Guerra, B.B. A novel methodology for the monitoring of the agricultural production process based on wireless sensor networks (2011) *Computers and Electronics in Agriculture*, 76 (2), pp. 252-265. **Cited 73 times**. DOI: [10.1016/j.compag.2011.02.004](https://doi.org/10.1016/j.compag.2011.02.004)
- 14) Broquetas, Antoni, Romeu, Jordi, Rius, Juan M., **Elias-Fuste, Antonio R.**, Cardama, Angel, Jofre, Luis Cylindrical geometry: A further step in active microwave tomography (1991) *IEEE Transactions on Microwave Theory and Techniques*, 39 (5), pp. 836-844. **Cited 71 times**. DOI: [10.1109/22.79111](https://doi.org/10.1109/22.79111)
- 15) **Casas, O.**, Bragós, R., Riu, P.J., Rosell, J., Tresànceh, M., Warren, M., Rodriguez-Sinovas, A., Carreño, A., Cinca, J. In vivo and in situ ischemic tissue characterization using electrical impedance spectroscopy (1999) *Annals of the New York Academy of Sciences*, 873, pp. 51-58. **Cited 70 times**. DOI: [10.1111/j.1749-6632.1999.tb09448.x](https://doi.org/10.1111/j.1749-6632.1999.tb09448.x)
- 16) Sifuentes, E., **Casas, O.**, **Pallas-Areny, R.** Wireless magnetic sensor node for vehicle detection with optical wake-up (2011) *IEEE Sensors Journal*, 11 (8), art. no. 5680571, pp. 1669-1676. **Cited 68 times**. DOI: [10.1109/JSEN.2010.2103937](https://doi.org/10.1109/JSEN.2010.2103937)
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