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de Catalunya

# Mapa de la recerca del Campus de Vilanova i la Geltrú



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2012-2014

Vilanova i la Geltrú  
16/06/2014



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## 1. Definició i objectius

El mapa de la recerca del Campus de Vilanova és un recurs destinat a aprofundir en el coneixement del comportament de les activitats de recerca de la comunitat universitària. Aquesta eina pretén facilitar les dades referents a l'impacte de la producció en la recerca i l'activitat científica de la comunitat docent i investigadora de la universitat per un període concret. Concretament, el present informe té l'objectiu de proveir de dades quantitatives i qualitatives sobre la recerca del personal docent i investigador de l'EPSEVG durant l'any 2012.

## 2. Metodologia

Enguany el procés per la redacció d'aquest mapa s'ha vist marcat per la posada en funcionament del portal futur.upc.edu, el portal de la recerca de la UPC. La utilització d'aquest portal, en funcionament des del propassat 23 d'abril, ha reduït considerablement el temps de cerca de la producció científica i ha facilitat l'extracció de les dades cap a un gestor de referències bibliogràfiques.

La metodologia ha consistit en l'extracció de la producció científica de tot el PDI adscrit a l'EPSEVG mitjançant el portal futur.upc.edu. Un cop extretes les dades, les referències s'han filtrat per dues variables. D'una banda, l'any, perquè s'ha limitat la cerca a l'any 2012, i d'una altra banda, el tipus d'activitat, en aquest cas, articles de revista i treballs presentats a congressos. Posteriorment les referències s'han cercat a les bases de dades Web of Knowledge<sup>i</sup> i Scopus<sup>ii</sup>. Per la generació del llistat bibliogràfic s'ha emprat el gestor de referències bibliogràfiques Mendeley Premium.

Posteriorment, de cada una de les referències s'ha indicat el quartil de la revista en la que ha estat publicada. Si la referència corresponia a un congrés s'ha indicat si aquest era, o no, un congrés reconegut com a notable per la UPC. Per últim s'ha revisat de manera exhaustiva si algun dels congressos no notables complia les condicions per ser declarat notable per fer-hi esment a les conclusions.

## 3. Dades recollides

### 3.1. Total de documents publicats 2012

L'anàlisi del portal de producció científica futur.upc.edu relleva que durant l'any 2012 es van introduir als sistemes d'informació de la Universitat un total de 269 activitats corresponents als professors i investigadors adscrits al Campus de Vilanova i la Geltrú de la UPC. D'aquestes 269 activitats, un total de de 179 correspondrien o bé, a articles de revista, o bé, a presentacions de treballs de congressos. És a dir, activitats susceptibles de poder ser recuperades –i avaluable des d'un punt de vista bibliomètric- a través de les bases de dades WOK i Scopus. Corresponen a 96 articles de revista i 83 presentacions de treball a congrés.

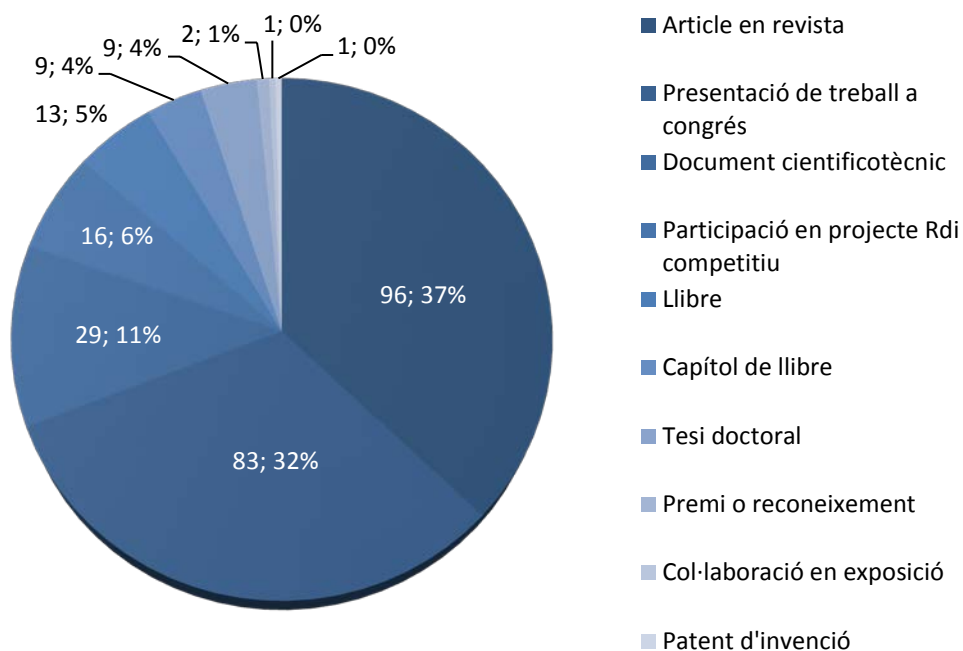


Fig. núm. 1 Activitats introduïdes a DRAC corresponents al PDI adscrit a l'EPSEVG l'any 2012

Així mateix, finalment s'han analitzat 170<sup>iii</sup> articles o presentacions de treballs a congressos i d'aquets, 107 corresponen a referències que es poden localitzar, com a mínim, a una una de les dues bases de dades. És a dir, gairebé un 63% de la producció bibliogràfica del PDI

	Total activitats EPSEVG a Futur	Articles i ponències EPSEVG a Futur	Articles i ponències EPSEVG analitzades	Articles i ponències EPSEVG a WOK i Scopus
Total	269	179	170	107

### 3.2. Articles de revista i treballs presentats a congressos per autors i departament

Els autors amb un o més articles publicats o ponències presentades al 2012 recollits a les bases de dades WOK o Scopus són els següents:

Cognoms i nom	Departament	Articles i treballs a congressos
Del Rio Fernandez, Joaquin	710	15
Angulo Bahón, Cecilio	707	11
Fortuny Sanroma, Agustin	713	10
Andre Sanchez, Michel	930	9
Guardia Rubies, Jordi	743	9
Castilla Fernandez, Miguel	710	7
Andrada Gascon, Pedro	709	6
Matas Alcala, Jose	710	6

Miquel Masalles, Jaume	729	6
Ponsa Asensio, Pedro	707	6
Segalas Coral, Jordi	729	6
Baile Puig, M. Teresa	702	5
Blanqué Molina, Balduino	709	5
Coll Ausio, Maria Teresa	713	5
Garcia de Vicuña Muñoz de la Nava, Jose Luis	710	5
Lopez Martinez, Antonio Miguel	710	5
Marti Colom, Pau	707	5
Masip Bruin, Javier	701	5
Olm Miras, Josep Maria	743	5
Biel Sole, Domingo	710	4
Català Mallofré, Andreu	707	4
Diaz Boladeras, Marta	732	4
Gomez Urgelles, Joan Vicenç	743	4
Marín Tordera, Eva	701	4
Picas Barrachina, Josep Anton	702	4
Ruiz Vegas, Francisco Javier	707	4
Torrent Burgues, Marcel	709	4
Yannuzzi, Marcelo	701	4
Antonijuan Rull, Josefina	743	3
Martinez Piera, Eusebio	709	3
Menargues Muñoz, Sergi	702	3
Muñoz Porcar, Constantino	739	3
Padró Cirera, Lluís	723	3
Parisi Baradad, Vicenç	710	3
Torres Cebrian, Abel	707	3
Baixeries i Juvillà, Jaume	723	2
Batlle Arnau, Carles	743	2
Carbonell Ventura, Montserrat	729	2
Claverol Aguas, Merce	743	2
Gonzalez Rovira, Josep	743	2
Guasch Murillo, Daniel	744	2
Gutierrez Gonzalez, Luis Maria	744	2
Houégnigan, Ludwig	n.d.	2

Martin Fuentes, Enrique	702	2
Ortiz Domenech, Jordi	717	2
Roset Calzada, M. Lourdes	713	2
Roset Juan, Francesc Xavier	710	2
Zaugg, Serge Alain	n.d.	2
Arno Macia, Elisabet	736	1
Buti Papiol, Salvador	713	1
Casacuberta Bago, Judit	732	1
Casas Castillo, M. Del Carmen	721	1
Castell Balaguer, Joan Vicent	739	1
Giroto, Michele	732	1
Hernandez Gomez, Maria de Los Angeles	723	1
Llanas Parra, Francesc Xavier	707	1
Martin Muñoz, Mario	723	1
Muñoz Morgado, Luis Miguel	707	1
Navarro Bosque, Javier	721	1
Pejuan Alcobe, Arcadi	721	1
Perat Benavides, Jose Ignacio	709	1
Raya Giner, Cristobal	707	1
Rodriguez Sola, Raul	721	1
Ruiz Planas, Montserrat	713	1
Sales Zaragoza, Vicente	739	1
Salvado Cabre, Nativitat	713	1
Sanchez Lopez, Jose Antonio	709	1
Sanchez Lopez, Sergio	701	1
Sanchez Marrero, Antonio Miguel	n.d.	1
Segarra Mullerat, Josep	739	1
Tejedor Papell, Gemma	480	1
Zaragoza Monroig, Maria Luisa	743	1

Per departaments, els departaments amb més articles i publicacions de congrés són els següents:

Departament	Articles i treballs a congressos
710 – Departament d'Enginyeria Electrònica	52

707 – Enginyeria de Sistemes, Automàtica i Informàtica Industrial	41
743 – Matemàtica aplicada IV	28
713 – Enginyeria química	15
723 – Llenguatges i sistemes informàtics	10
709 – Enginyeria Elèctrica	8
729 – Enginyeria de mecànica de fluids	8
739 – Teoria del senyal i comunicacions	8
702 – Ciència dels materials i enginyeria metal·lúrgica	6
732 – Organització d'empreses	6
701 – Arquitectura de computadors	5
744 – Enginyeria Telemàtica	4
721 – Física i enginyeria nuclear	3
736 -- Projectes a l'Enginyeria	3

### 3.3 Articles o treballs presentats a congressos citats a WOK i/o Scopus

La producció científica del professorat adscrit a l'EPSEVG durant el 2012 citada com a mínim una vegada a les bases de dades WOK i/o Scopus és la següent:

Article	Cites WOK	Cites Scopus	Total
Mezohegyi, G., van der Zee, F. P., Font Capafons, J., Fortuny Sanroma, A., & Fabregat Llangostera, A. (n.d.). Towards advanced aqueous dye removal processes: a short review on the versatile role of activated carbon. <i>Journal of Environmental Management</i> , 102, 148–164. doi:10.1016/j.jenvman.2012.02.021	28	31	<b>59</b>
JCR: Q1 (Environmental sciences; 39/210) SJR: Q1 (Environmental sciences; 40/284); Q1 Management, Monitoring, Policy and Law; 9/103			
Miret Tomas, J., Castilla Fernandez, M., Camacho Santiago, A., Garcia de Vicuña Muñoz de la Nava, J. L., & Matas Alcala, J. (2012). Control scheme for photovoltaic three-phase inverters to minimize peak currents during unbalanced grid-voltage sags. <i>IEEE Transactions on Power Electronics</i> , 27(10), 4262–4271. doi:10.1109/TPEL.2012.2191306	19	15	<b>34</b>
JCR: Q1 (Engineering, Electrical & Electronic; 6/243) SJR: Q1 (Electrical and Electronic engineering; 15/450)			
Andre Sanchez, M., Adrián-Martínez, S., Al Samarai, I., Albert, A., Anghinolfi, M., Anton, G., ... [et, al]. (n.d.). Measurement of atmospheric neutrino oscillations with the ANTARES neutrino telescope. <i>Physics Letters B</i> , 714(2-5), 224–230. doi:10.1016/j.physletb.2012.07.002	12	19	<b>31</b>
JCR: Q1 (Physics, Multididisciplinary; 8/83) SJR: No indexada			
Ibáñez, M. J., Cadavid, D., Anselmi Tamburini, U., Zamani, R., Gorse, S., Li, W., ... Cabot Codina, A. (n.d.). Colloidal synthesis and thermoelectric properties of Cu <sub>2</sub> SnSe <sub>3</sub> nanocrystals. <i>Journal of</i>	15	15	<b>30</b>

Materials Chemistry A, 1(4), 1421–1426. doi:10.1039/c2ta00419d			
JCR: Q1 (Chemistry, Physical; 18/135); Materials Science, Multidisciplinary; (20/241) SJR: Q1 (Physical and Theoretical Chemistry; 8/123)			
Ibáñez, M., Zamani, R., Li, W., Cadavid, D., Gorsse, S., Katcho, N. A., ... Cabot Codina, A. (n.d.). Crystallographic control at the nanoscale to enhance functionality: polytypic Cu <sub>2</sub> GeSe <sub>3</sub> nanoparticles as thermoelectric materials. Chemistry of Materials, 24(23), 4615–4622. doi:10.1021/cm303252q	14	13	<b>27</b>
JCR: Q1 (Chemistry, Physical; 9/135); Q1 (Materials Science, Multidisciplinary; 13/241) SJR: Q1 (Materials Chemistry; 1/76); Q1 (Materials Science (miscellaneous); 12/289)			
Adrián-Martínez, S., Al Samarai, I., Albert, A., Andre Sanchez, M., Anghinolfi, M., Anton, G., ... Carr, J. (n.d.-a). Search for cosmic neutrino point sources with four years of data from the antares telescope. Astrophysical Journal, 760(1), 1–10. doi:10.1088/0004-637X/760/1/53	9	11	<b>20</b>
JCR: Q1 (Astronomy & Astrophysics; 6/56) SJR: Q1 (Space and Planetary Science; 4/44)			
Meza Benavides, C., Biel Sole, D., Jeltsema, D., & Jacquelin, S. (n.d.). Lyapunov-Based Control Scheme for Single-Phase Grid-Connected PV Central Inverters. IEEE Transactions on Control Systems Technology, 20(2), 520–529. doi:10.1109/TCST.2011.2114348	8	12	<b>20</b>
JCR: Q1 (Automation & Control Systems; 12/59); Q1 (Engineering, Electrical & Electronic; 48/243) SJR: Q1 (Control and Systems Engineering; 20/185); Q1 (Electrical and Electronic Engineering; 35/450)			
Adrián-Martínez, S., Aguilar, J. A., Al Samarai, I., Albert, A., Andre Sanchez, M., Anghinolfi, M., ... Zúñiga Román, J. (n.d.). Search for relativistic magnetic monopoles with the ANTARES neutrino telescope. Astroparticle Physics, 35(10), 634–640. doi:10.1016/j.astropartphys.2012.02.007	8	10	<b>18</b>
JCR: Q1 (Astronomy & Astrophysics; 13/56); Q2 (Physics, Particles & Fields; 7/27) SJR: Q1 (Nuclear and High Energy Physics; 4/35)			
Fan, J., Zamani, R., Fábrega, C., Shavel, A., Flox, C., Ibáñez, M., ... Cabot Codina, A. (n.d.). Solution-growth and optoelectronic performance of ZnO:Cl/TiO <sub>2</sub> and ZnO:Cl/Zn xTiO <sub>2</sub> y/TiO <sub>2</sub> core-shell nanowires with tunable shell thickness. Journal of Physics D: Applied Physics, 45(41), 415301–415310. doi:10.1088/0022-3727/45/41/415301	9	9	<b>18</b>
JCR: Q1 (Physics, Applied; 25/128) SJR: Q1 (Physics and Astronomy (miscellaneous); 51/210)			
Guardia Rubies, J., Montes Peral, J., & Nart, E. (n.d.). Newton polygons of higher order in algebraic number theory. Transactions of the American Mathematical Society, 364(1), 361–416. doi:10.1090/S0002-9947-2011-05442-5	7	8	<b>15</b>
JCR: Q1 (Mathematics; 38/295) SJR: Q1 (Mathematics (miscellaneous); 40/352)			
Adrián-Martínez, S., Ageron, M., Aguilar, J. A., Al Samarai, I., Albert, A., Andre Sanchez, M., ... [et, al]. (n.d.). The positioning system of the ANTARES Neutrino Telescope. Journal of Instrumentation, 1–14. doi:10.1088/1748-0221/7/08/T08002	7	7	<b>14</b>
JCR: Q2 (Instruments & Instrumentation; 15/57) SJR: Q2 (Instrumentation; 27/66); Q3 Mathematical Physics; 26/35)			
Fuentes, D., González Abril, L., Angulo Bahón, C., & Ortega Ramirez, J. A. (2012). Online motion recognition using an accelerometer in a mobile device. Expert Systems with Applications, 39(3), 2461–2465.	5	9	<b>14</b>



doi:10.1016/j.eswa.2011.08.098			
JCR: Q1 (Engineering, Electrical & Electronic; 56/243); Q1 Operations Research & Management Science; 13/79); Q2 (Computer Science, Artificial Intelligence 31/115) SJR: Q1 (Computer Science Applications; 27/231); Q2 (Artificial Intelligence; 37/118)			
Coll Ausio, M. T., Fortuny Sanroma, A., Kedari, C. S., & Sastre Requena, A. M. (n.d.). Studies on the extraction of Co(II) and Ni(II) from aqueous chloride solutions using Primene JMT-Cyanex272 ionic liquid extractant. Hydrometallurgy, 125 -126, 24–28. doi:10.1016/j.hydromet.2012.05.003	6	6	12
JCR: Q1 (Metallurgy & Metallurgical Engineering; 5/76) SJR: Q1 Geochemistry & Petrology (21/86)			
Sicard, M., Mallet, M., Garcia Vizcaino, D., Comeron Tejero, A., Rocadenbosch Burillo, F., Dubuisson, P., & Muñoz Porcar, C. (n.d.). Intense dust and extremely fresh biomass burning outbreak in Barcelona, Spain: Characterization of their optical properties and estimation of their direct radiative forcing. Environmental Research Letters, 7(3), 2–7. doi:10.1088/1748-9326/7/3/034016	4	4	8
JCR: Q1 (Environmental Sciences; 24/210); Q1 Metrology & Atmospheric sciences; 9/74) SJR: Q1 (Public Health, Environmental and Occupational Health; 12/347); Q1 (Renewable Energy, Sustainability and the Environment; 11/62)			
Van Der Pijl, F. F. A., Castilla Fernandez, M., & Bauer, P. T. (n.d.). Adaptive sliding-mode control for a multiple-user inductive power transfer system without need for communication. IEEE Transactions on Industrial Electronics, 60(1), 271–279. doi:10.1109/TIE.2012.2200209	4	4	8
JCR: Q1 (Instruments & Instrumentation; 1/57); Q1 Automation & Control Systems; 1/59); Q1 Engineering, Electrical & Electronic; 4/243) SJR: Q1 (Electrical and Electronic Engineering; 11/450)			
Arno Macia, E. (n.d.). The Role of Technology in Teaching Languages for Specific Purposes Courses. Modern Language Journal, 96(1), 89–104. doi:10.1111/j.1540-4781.2012.01299.x	3	4	7
JCR: Q1 (Linguistics; 31/162) SJR: Q1 (Language and Linguistics; 31/434)			
Fortuny Sanroma, A., Coll Ausio, M. T., & Sastre Requena, A. M. (n.d.). Use of methyltrioctyl/decylammonium bis 2,4,4-(trimethylpentyl)phosphinate ionic liquid (ALICY IL) on the boron extraction in chloride media. Separation and Purification Technology, 97, 137–141. doi:10.1016/j.seppur.2012.02.037	7	--	7
JCR: Q1 (Engineering, Chemical; 15/133) SJR: Q1 (Filtration and Separation; 3/14)			
Guardia Rubies, J., Nart, E., & Pauli, S. (n.d.). Single-factor lifting and factorization of polynomials over local fields. Journal of Symbolic Computation, 47(11), 1318–1346. doi:10.1016/j.jsc.2012.03.001	3	4	7
JCR: Q4 (Computer Science, Theory & Methods; 86/100); Q4 (Mathematics, Applied; 217/247) SJR: Q1 (Algebra and Number Theory; 15/66); Q2 Computational Mathematics; 23/83)			
Sama Monsonis, A., Perez Lopez, C., Rodriguez Martin, D. M., Romagosa Cabús, J., Català Mallofré, A., Cabestany Moncusi, J., ... Rodríguez Molinero, A. (2013). Dyskinesia and motor state detection in Parkinson's disease patients with a single movement sensor. In IEEE Engineering in Medicine and Biology Society (pp. 1194–1197). doi:10.1109/EMBC.2012.6346150	0	7	7
Congrés notable			
Adrián-Martínez, S., Al Samarai, I., Albert, A., Andre Sanchez, M., Anghinolfi, M., Anton, G., ... Zúñiga Román, J. (n.d.-b). Search for neutrino emission from gamma-ray flaring blazars with the ANTARES telescope. Astroparticle Physics, 36(1), 204–210.	4	5	6

doi:10.1016/j.astropartphys.2012.06.001			
JCR: Q1 (Astronomy & Astrophysics; 13/56) ; Q2 (Physics, Particles & Fields; 7/27) SJ: Q1 (Nuclear and High Energy Physics; 4/35)			
Cadavid, D., Ibáñez, M., Gorse, S., Lopez Martinez, A. M., Cirera, A., Morante, J. R., & Cabot Codina, A. (n.d.). Bottom-up processing of thermoelectric nanocomposites from colloidal nanocrystal building blocks: the case of Ag <sub>2</sub> Te/PbTe. <i>Journal of Nanoparticle Research</i> , 14(1328). doi:10.1007/s11051-012-1328-0	4	2	6
JCR: Q1 (Chemistry, Multidisciplinary; 53/152) ; Q1 (Materials Science, Multidisciplinary; 57/241) ; Q2 (Nanoscience & Nanotechnology; 31/69) SJ: Q2 (Atomic and Molecular Physics, and Optics; 23/79) ; Q1 (Engineering (miscellaneous); 51/388) ; Q1 (Materials Science (miscellaneous); 72/289) ; Q2 (Condensed Matter Physics; 37/118) ; Q1 (Chemistry (miscellaneous); 52/229) ; Q2 (Modeling and Simulation; 28/110) ; Q2 (Bioengineering; 30/90) ; Q2 (Nanoscience and Nanotechnology; 34/86)			
Fan, J., Güell, F., Fàbrega Alsina, C., Fairbrother, A., Andreu, T., Lopez Martinez, A. M., ... Cabot, A. (n.d.). Visible photoluminescence components of solution-grown ZnO nanowires: Influence of the surface depletion layer. <i>The Journal of Physical Chemistry. Part C, Nanomaterials and Interfaces</i> , 116(36), 19496–19502. doi:10.1021/jp302443n	3	3	6
JCR: Q1 (Chemistry, Physical; 28/135) ; Q1 (Materials Science, Multidisciplinary; 27/241) ; Q2 (Nanoscience & Nanotechnology; 19/69) SJ: Q1 (Electronic, Optical and Magnetic Materials; 8/105) ; Q1 (Nanoscience and Nanotechnology; 11/86) ; Q1 (Physical and Theoretical Chemistry; 11/123) ; Q1 (Surfaces, Coatings and Films; 1/31)			
Garcia Benadí, A., Manuel Lazaro, A., Del Rio Fernandez, J., Roset Juan, F. X., Toma, D. M., Carreras Pons, N., & Cadena Muñoz, F. J. (n.d.). Ocean Bottom Seismometer: Design and Test of a Measurement System for Marine Seismology. <i>Sensors</i> , 12(3), 3693–3719. doi:10.3390/s120303693	3	3	6
JCR: Q3 (Chemistry, Analytical; 38/75) ; Q3 (Electrochemistry; 15/26) ; Q1 (Instruments & Instrumentation; 8/57) SJ: Q2 (Analytical Chemistry; 31/72) ; Q2 (Electrical and Electronic Engineering; 140/450) ; Q3 (Electrochemistry; 14/24)			
Segalas Coral, J., Mulder, K. F., & Ferrer Balas, D. (n.d.). What do EESD “experts” think sustainability is? Which pedagogy is suitable to learn it?: Results from interviews and Cmaps analysis gathered at EESD 2008. <i>International Journal of Sustainability in Higher Education</i> , 13(3), 293–304. doi:10.1108/14676371211242599	3	3	6
JCR: Q2 (Education & Educational Research; 88/219) SJ: Q2 (Education; 251/620)			
Baixeries i Juvillà, J., & Ferrer Cancho, R. (2012). The exponent of Zipf’s law in language ontogeny. In <i>The Evolution of Language</i> (pp. 409–410). World Scientific Publishing. doi:10.1142/9789814401500_0055	3	2	5
Congrés no notable			
Camps Carmona, A. J., Font Ferré, J., Corbella Sanahuja, I., Valllossera Ferran, M. M., Portabella, M., BALLABRERA POY, J., ... Ribó Vedrilla, S. (2012). Review of the CALIMAS Team Contributions to European Space Agency’s Soil Moisture and Ocean Salinity Mission Calibration and Validation. <i>Remote Sensing of Environment</i> , 142(5), 1272–1309. doi:10.3390/rs4051272	2	2	4
JCR: Q1 (Environmental Sciences; 9/210) ; Q1 (Imaging Science & Photographic Technology; 1/23) ; Q1 (Remote Sensing; 1/27) SJ: Q1 (Computers in Earth Sciences; 1/18) ; Q1 (Earth-Surface Processes ; 2/59) ; Q1 (Environmental Science (miscellaneous) ; 2/284) ; Q1 (Management, Monitoring, Policy and Law			

; 1/103)			
Condal, F., Aguzzi, J., Sardà Amills, F., Nogueras Cervera, M., Cadena Muñoz, F. J., Costa, C., ... Manuel Lazaro, A. (n.d.). Seasonal rhythm in a Mediterranean coastal fish community as monitored by a cabled observatory. <i>Marine Biology</i> , 159(12), 2809–2817. doi:10.1007/s00227-012-2041-3	1	3	4
JCR: Q1 (Marine & Freshwater Biology; 18/100) SJR: Q1 (Aquatic Science; 20/170)			
Mulder, K. F., Segalas Coral, J., & Ferrer Balas, D. (n.d.). How to educate engineers for/in sustainable development: Ten years of discussion, remaining challenges. <i>International Journal of Sustainability in Higher Education</i> , 13(3), 211–218. doi:10.1108/14676371211242535	4	--	4
JCR: Q2 (Education & Educational Research; 88/219) SJR: Q2 (Education; 251/620)			
Castilla Fernandez, M., Miret Tomas, J., Camacho Santiago, A., Matas Alcala, J., Alarcon Gallo, E., & Garcia de Vicuña Muñoz de la Nava, J. L. (2012). Coordinated reactive power control for static synchronous compensators under unbalanced voltage sags. In <i>IEEE International Symposium on Industrial Electronics</i> (pp. 987–992). doi:10.1109/ISIE.2012.6237223	1	2	3
Congrés notable			
Font Ferré, J., BALLABRERA POY, J., Camps Carmona, A. J., Corbella Sanahuja, I., Duffo Ubeda, N., Duran Martínez, I., ... Villarino, R. (2012). A new space technology for ocean observation: the SMOS mission. <i>Scientia Marina</i> , 76(Supl. 1), 249–259. doi:10.3989/scimar.03621.19K	3	--	3
JCR: Q3 (Marine & Freshwater Biology; 65/100) SJR: Q2 (Aquatic Science; 82/170)			
Hernandez Vela, A., Bautista, M. A., Perez-Sala, X., Ponce, V., Baró, X., Pujol, O., ... Escalera, S. (2012). BoVDW: Bag-of-Visual-and-Depth-Words for gesture recognition. In <i>International Conference on Pattern Recognition</i> (pp. 449–452).	--	3	3
Congrés notable			
Nabarlatz, D., Stüber, F. E., Font Capafons, J., Fortuny Sanroma, A., Fabregat Llangostera, A., & Bengoa, C. J. (n.d.). Extraction and purification of hydrolytic enzymes from activated sludge. <i>Resources, Conservation and Recycling</i> , 59, 9–13. doi:10.1016/j.resconrec.2011.06.017	1	2	3
JCR: Q2 (Engineering, Environmental; 15/42) ; Q2 (Environmental Sciences; 73/210) SJR: Q2 (Renewable Energy, Sustainability and the Environment; 22/62)			
Sanchez, I., Stüber, F. E., Fabregat Llangostera, A., Font Capafons, J., Fortuny Sanroma, A., & Bengoa, C. J. (n.d.). Degradation of model olive mill contaminants of OMW catalysed by zero-valent iron enhanced with a chelant. <i>Journal of Hazardous Materials</i> , 199-200, 328–335. doi:10.1016/j.jhazmat.2011.11.024	1	2	3
JCR: Q1 (Engineering, Civil; 2/122); Q1 (Engineering, Environmental; 5/42) ; Q1 (Environmental Sciences; 12/210) SJR: Q1 (Chemical Health and Safety; 2/19) ; Q1 ( Environmental Engineering ; 3/73) ; Q1 (Process Chemistry and Technology; 5/38) ; Q1 (Safety, Risk, Reliability and Quality ; 4/83)			
Garfias Hernandez, P., Gutierrez Gonzalez, L. M., & Sallent Ribes, S. (2012). Enhanced DBA to provide QoS to coexistent EPON and 10G-EPON networks. <i>Journal of Optical Communications and Networking</i> , 4(12), 978–988. doi:10.1364/JOCN.4.000978	1	1	2
JCR: Q1 (Computer Science, Hardware & Architecture; 12/50); Q2 (Computer Science,			

Information Systems; 40/132) ; Q2 (Optics; 35/80) ; Q2 (Telecommunications; 23/78) SJR: Q1 (Computer Networks and Communications; 33/148)			
Kumar, D., Lange, D., Rocadenbosch Burillo, F., Tomas, S., Sicard, M., Muñoz Porcar, C., & Comeron Tejero, A. (2012). Power budget and performance assessment for the RSLAB multispectral elastic/raman lidar system. In IEEE International Geoscience and Remote Sensing Symposium (pp. 4703–4706). doi:10.1109/IGARSS.2012.6350415	1	1	2
Congrés notable			
Matas Alcala, J., Castilla Fernandez, M., Garcia de Vicuña Muñoz de la Nava, J. L., Miret Tomas, J., Alarcon Gallo, E., & Camacho Santiago, A. (2012). Fast grid synchronization technique based on a multiple cascaded general integrator scheme for distributed generation inverters. In IEEE International Symposium on Industrial Electronics (pp. 1003–1010). doi:10.1109/ISIE.2012.6237226	1	1	2
Congrés notable			
Molino Minero Re, E., Carbonell Ventura, M., Fisac Fuentes, C., Manuel Lazaro, A., & Toma, D. M. (2012). Piezoelectric energy harvesting from induced vortex in water flow. In IEEE International Instrumentation and Measurement Technology Conference (pp. 624–627). IEEE.	1	1	2
Congrés notable			
Pejuan Alcobe, A., Bohigas Janoher, X., Jaen Herbera, J., & Periago Oliver, M. C. (2012). Misconceptions about sound among engineering students. Journal of Science Education and Technology, 21(6), 669–685. doi:10.1007/s10956-011-9356-6	1	1	2
JCR: Q3 (Education, Scientific Disciplines; 18/34) SJR: Q1 (Education; 97/620)			
Ramos, G. A., Costa Castelló, R., & Olm Miras, J. M. (n.d.). Analysis and design of a robust odd-harmonic repetitive controller for an active filter under variable network frequency. Control Engineering Practice, 20(9), 895–903. doi:10.1016/j.conengprac.2012.05.009	1	1	2
JCR: Q2 (Automation & Control Systems; 19/59); Q2 (Engineering, Electrical & Electronic; 74/243) SJR: Q1 (Control and Systems Engineering; 35/185 , Industrial and Manufacturing Engineering; 13/168)			
Rodriguez Martin, D. M., Sama Monsonis, A., Perez Lopez, C., & Català Mallofré, A. (2012). Identification of sit-to-stand and stand-to-sit transitions using a single inertial sensor. Studies in Health Technology and Informatics, 177, 113–117. doi:10.3233/978-1-61499-069-7-113	1	1	2
JCR: No indexada SJR: Q2 (Medicine (miscellaneous); 575/1584)			
Sarlabous Uranga, L., Torres Cebrian, A., Fiz, J. A., Morera Prat, J. M., & Jane Campos, R. (2012). Evaluation and adaptive attenuation of the cardiac vibration interference in mechanomyographic signals. In IEEE Engineering in Medicine and Biology Society (pp. 3400–3403). Institute of Electrical and Electronics Engineers (IEEE). doi:10.1109/EMBC.2012.6346695	1	1	2
Congrés notable			
Zaugg, S. A., van der Schaar, M. C. R. M., Houégnigan, L., & Andre Sanchez, M. (2012). A framework for the automated real-time detection of short tonal sounds from ocean observatories. Applied Acoustics, 73(3), 281–290. doi:10.1016/j.apacoust.2011.09.009	1	1	2
JCR: Q3 (Acoustics; 16/31) SJR: Q1 (Acoustics and Ultrasonics; 5/29); Q1 (Mechanical Engineering; 49/249)			
Adrián-Martínez, S., Al Samarai, I., Albert, A., Andre Sanchez, M.,	0	1	1

Anghinolfi, M., Anton, G., ... Zúñiga Román, J. (n.d.). Measurement of the group velocity of light in sea water at the ANTARES site. <i>Astroparticle Physics</i> , 35(9), 552–557. doi:10.1016/j.astropartphys.2011.12.003			
JCR: Q1 (Astronomy & Astrophysics; 13/56); Q2 (Physics, Particles & Fields; 7/27) SJR: Q1 (Nuclear and High Energy Physics); 4/35			
Alarcon Gallo, E., Garcia de Vicuña Muñoz de la Nava, J. L., Castilla Fernandez, M., Miret Tomas, J., Matas Alcala, J., & Camacho Santiago, A. (2012). Decoupled sliding mode control for three-phase LCL VSI operating at fixed switching frequency. In <i>IEEE International Symposium on Industrial Electronics</i> (pp. 1572–1578). doi:10.1109/ISIE.2012.6237326	0	1	1
Congrés notable			
Andrada Gascon, P., Blanqué Molina, B., Martinez Piera, E., & Torrent Burgues, M. (2012). New hybrid reluctance motor drive. In <i>International Conference on Electrical Machines</i> (pp. 2689–2694). doi:10.1109/ICEIMach.2012.6350266	--	1	1
Congrés notable			
Castro Soriano, J., Andrada Gascon, P., & Blanqué Molina, B. (2012a). Minimization of torque ripple in switched reluctance motor drives using an enhanced direct instantaneous control. In <i>International Conference on Electrical Machines</i> (pp. 1021–1026). doi:10.1109/ICEIMach.2012.6350001	--	1	1
Congrés notable			
Fortuny Sanroma, A., Coll Ausio, M. T., & Sastre Requena, A. M. (2012). Boron removal from seawater by supported liquid membranes using cyphos IL 104 as a carrier. In <i>Euromembrane Conference</i> (pp. P1.057–P1.057).	--	1	1
Congrés notable			
Gabarro Prats, C., Gonzalez Gambau, V., Martínez, J., Guimbard, S. A., Gourrion, J., Piles Guillem, M., ... Font, J. (2012). Impact of the local oscillator calibration on the SMOS sea surface salinity maps. In <i>IEEE International Geoscience and Remote Sensing Symposium</i> (pp. 2613–2616). Institute of Electrical and Electronics Engineers (IEEE). doi:10.1109/IGARSS.2012.6350940	0	1	1
Congrés notable			
Gonzalez Rovira, J., & Jimenez Urroz, J. (2012). The Sato-Tate Distribution and the Values of Fourier Coefficients of Modular Newforms. <i>Experimental Mathematics</i> , 21(1), 84–102. doi:10.1080/10586458.2011.611747	1	--	1
JCR: Q2 (Mathematics; 86/295) SJR: Q2 (Mathematics (miscellaneous); 124/352)			
Takac, B., Català Mallofré, A., Cabestany Moncusi, J., Chen, W., & Rauterberg, M. (2012). A system for inference of spatial context of Parkinson's disease patients. <i>Studies in Health Technology and Informatics</i> , 177, 126–131.	0	1	1
JCR: No indexada SJR: Q2 (Medicine (miscellaneous); 575/1584)			

### 3.4 Articles o treballs presentats a congressos indexats a WOK i/o Scopus no citats<sup>iv</sup>

La producció científica del professorat adscrit a l'EPSEVG durant el 2012 indexada, però no citada, a les bases de dades WOK i/o Scopus és la següent:

Abellanas, M., Bajuelos, A. L., Canales, S., Claverol Aguas, M., Hernández, G., & Pereira de

Matos, I. (n.d.). Connecting Red Cells in a Bicolour Voronoi Diagram. Lecture Notes in Computer Science, (LNCS 7579), 210–219. doi:10.1007/978-3-642-34191-5
Congrés no notable
Ahvar, E., Marín Tordera, E., Yannuzzi, M., Masip Bruin, J., & Ahvar, S. (2012). FRA: A new fuzzy-based routing approach for optical transport networks. In European Conference on Networks and Optical Communications (pp. 1–6). doi:10.1109/NOC.2012.6249944
Congrés notable
Ahvar, E., Serral Gracia, R., Marín Tordera, E., Masip Bruin, J., & Yannuzzi, M. (2012). EQR: a new energy-aware query-based routing protocol for wireless sensor networks. Lecture Notes in Computer Science, 7277, 102–113. doi:10.1007/978-3-642-30630-3_9
Congrés no notable
Alvarez Napagao, S., Gomez Sebastia, I., Panagiotidi, S., Tejeda Gomez, J. A., Oliva Felipe, L. J., & Vazquez Salceda, J. (2012). Socially-aware emergent narrative. In International Workshop on Agents for Educational Games and Simulations (pp. 139–150). doi:10.1007/978-3-642-32326-3_9
Congrés no notable
Andrada Gascon, P., Blanqué Molina, B., Martinez Piera, E., Perat Benavides, J. I., Sanchez Lopez, J. A., & Torrent Burgues, M. (n.d.). Environmental and life cycle cost analysis of one switched reluctance motor drive and two inverter-fed induction motor drives. IET Electric Power Applications, 6(7), 390–398. doi:10.1049/iet-epa.2011.0320
JCR: Q2 (Engineering, Electrical & Electronic; 82/243) SJR: Q1 (Electrical and Electronic Engineering; 68/450)
Andre Sanchez, M., van der Schaar, M. C. R. M., Zaugg, S. A., Houégnigan, L., Sanchez Marrero, A. M., Mas, A., & Castell Balaguer, J. V. (2012). Real-time monitoring of noise in cetacean acoustic niches. Advances in Experimental Medicine and Biology, 730, 593–596. doi:10.1007/978-1-4419-7311-5_134
JCR: Q2 (Biology; 30/83); Q3 (Medicine, Research & Experimental; 75/121) SJR: Q2 (Biochemistry, Genetics and Molecular Biology (miscellaneous); 80/193)
Angulo Bahón, C., Cabestany Moncusi, J., Rodríguez, P., Batlle, M., González, A., & de Campos, S. (2012). Fuzzy expert system for the detection of episodes of poor water quality through continuous measurement. Expert Systems with Applications, 39(1), 1011–1020. doi:10.1016/j.eswa.2011.07.102
JCR: Q1 (Engineering, Electrical & Electronic; 56/243); Q1 (Operations Research & Management Science; 13/79); Q2 (Computer Science, Artificial Intelligence; 31/115) SJR: Q1 (Computer Science Applications; 27/231); Q2 (Artificial Intelligence; 37/118)
Antonijuan Rull, J., Guillén Aranda, J., López, L., & Simarro Grande, G. (2012a). Near bottom sediment dynamics on highly protected beaches. In IEEE International Instrumentation and Measurement Technology Conference (pp. 403–406).
Congrés notable
Ashagre Messele, S., Stuber, F. E., Bengoa, C. J., Fortuny Sanroma, A., Fabregat Llangotera, A., & Font Capafons, J. (2012). Phenol degradation by heterogeneous Fenton-like reaction using Fe supported over activated carbon. Procedia Engineering, 42, 1373–1377. doi:10.1016/j.proeng.2012.07.529
JCR: No indexada SJR: Q3 (Engineering (miscellaneous); 242/388)
Bautista, M. A., Hernandez Vela, A., Ponce, V., Perez-Sala, X., Baró, X., Pujol, O., ... Escalera, S. (2012). Probability-based dynamic time warping for gesture recognition on RGB-D data. In International workshop on depth image analysis.
Congrés no notable
Camacho Santiago, A., Castilla Fernandez, M., Miret Tomas, J., Matas Alcalá, J., Alarcon Cot, E. J., Garcia de Vicuña Muñoz de la Nava, J. L., & Marti Colom, P. (2012). Reactive power control for voltage support during type C voltage-sags. In Annual Conference of the IEEE Industrial Electronics Society (pp. 3462–3467). doi:10.1109/IECON.2012.6389343
Congrés notable
Campillo Betbesé, M., Baile Puig, M. T., Menargues Muñoz, S., Martin Fuentes, E., & Forn

Alonso, A. (2012). A357 Aluminium cast alloys for extrusion processes. In International Conference on Semi-Solid Processing of Alloys and Composites. Retrieved from <a href="http://cataleg.upc.edu/record=b1419993~S1*cat">http://cataleg.upc.edu/record=b1419993~S1*cat</a>
Congrés no notable
Carreras Pons, N., Artero Delgado, C., Roset Juan, F. X., Shariat-Panahi Ghaderinejad, S., Manuel Lazaro, A., Owen, T., & Antonijuan Rull, J. (2012). The Unit control of an acquisition system for ocean bottom seismometer (OBS). In IEEE International Instrumentation and Measurement Technology Conference (pp. 637–640). IEEE. Retrieved from <a href="http://hdl.handle.net/2117/15915">http://hdl.handle.net/2117/15915</a>
Congrés notable
Carrero Candelas, N. A., Batlle Arnau, C., & Fossas Colet, E. (2013). Modeling a coupled-inductor boost converter in the complementarity framework. In European Symposium on Computer Modeling and Simulation (pp. 471–476). doi:10.1109/EMS.2012.45
Congrés no notable
Chamania, M., González De Dios, O., López, V., Cuaresma, M., Drogon, M., Jukan, A., ... Yannuzzi, M. (2012). Coordinated Computation of Multi-layer Paths via Inter-layer PCE Communication: Standards, Interoperability and Deployment. In IEEE International Conference on Communications.
Congrés notable
Claverol Aguas, M., Hernández Peñalver, G., Hurtado Diaz, F. A., Sacristán Adinolfi, V., Saumell, M., Silveira, R. I., & Abellanas, M. (2012). Improving shortest paths in the Delaunay triangulation. <i>International Journal of Computational Geometry and Applications</i> , 22(6), 559–576. doi:10.1142/S0218195912500161
JCR: No indexada SJR: Q3 (Applied Mathematics; 164/283); Q3 (Computational Mathematics; 42/83); Q3 (Computational theory and Mathematics; 79/135); Q3 (Geometry and Topology; 24/44); Q3 (Theoretical Computer Science; 56/84)
Corrêa Alegria, F., Molino Minero Re, E., & Shariat-Panahi Ghaderinejad, S. (n.d.). Evaluation of a four-point sine wave frequency estimator for portable DSP based instrumentation. <i>Measurement</i> , 45(7), 1866–1871. doi:10.1016/j.measurement.2012.03.029
JCR: Q2 (Engineering, multidisciplinary; 28/90); Q3 Instruments & Instrumentation (32/57) SJR: No indexada
Costa Castelló, R., Olm Miras, J. M., Vargas, H., & Ramos, G. A. (n.d.). An educational approach to the internal model principle for periodic signals. <i>International Journal of Innovative Computing Information and Control</i> , 8(8), 5591–5606.
JCR: No indexada SJR: No indexada
Costa Castelló, R., Ramos Fuentes, G. A., & Olm Miras, J. M. (n.d.). Control repetitivo digital de sistemas con frecuencia incierta o variante en el tiempo. <i>Revista Iberoamericana de Automática E Informática Industrial</i> , 9(3), 219–230. doi:10.1016/j.riai.2012.05.012
JCR: Q4 (Automation & Control Systems; 52/59); Q4 (Robotics; 4) SJR: Q3 (Computer Science (miscellaneous)); 126/192); Q4 (Control and Systems Engineering; 147/185)
Cuadros Oller, M., Padró Cirera, L., & Rigau Claramunt, G. (2012). Highlighting relevant concepts from Topic Signatures. In International Conference on Language Resources and Evaluation.
Congrés no notable
De la Hoz Casas, J., Martín Cañadas, M. E., Martins Rodriguez, B. M., Matas Alcalá, J., & Guerrero Zapata, J. M. (n.d.). Comments on ¿Economic analysis of different supporting policies for the production of electrical energy by solar photovoltaics in western European Union countries¿ by Luigi Dusonchet and Enrico Telaretti. <i>Energy Policy</i> , 48, 846–849. doi:10.1016/j.enpol.2012.06.003
JCR: Q2 (Energy & Fuels; 25/81); Q1 (Environmental Sciences; 51/210) SJR: Q1 (Energy (miscellaneous); 7/189); Q1 (Management; Monitoring, Policy and Law; 7/103)
Escalona, I., Stuber, F. E., Fortuny Sanroma, A., Bengoa, C. J., Fabregat Llangotera, A., & Font

Capafons, J. (2012). Fenton coupled with nanofiltration for elimination of tartrazine. <i>Procedia Engineering</i> , 44, 1781–1782. doi:10.1016/j.proeng.2012.08.948
JCR: No indexada SJR: Q3 (Engineering (miscellaneous)); 242/388)
Forn Alonso, A., da Silva, M., Baile Puig, M. T., Picas Barrachina, J. A., & Fauria, A. (n.d.). Effect of ultrasounds during the solidification process of the A357 aluminium alloy. <i>Solid State Phenomena</i> , 192 - 193, 428–432. doi:10.4028/www.scientific.net/SSP.192-193.428
JCR: No indexada SJR: No indexada
Fuertes Armengol, J. M., Villa Millaruelo, R., Ayza Graells, J., Mares Marti, P., Marti Colom, P., Velasco Garcia, M., ... Perello, M. (2012). Hands-on course in networked control systems. In <i>Mediterranean Conference on Control and Automation</i> (pp. 1468–1473). doi:10.1109/MED.2012.6265846
Congrés notable
Garfias Hernandez, P., Sallent Ribes, S., Gutierrez Gonzalez, L. M., & Camps Mur, D. (2012). Real-time services in EPON. In <i>Optical Fiber Communication Conference and Exposition and National Fiber Optic Engineers Conference</i> (p. 135).
Congrés notable
Gonzalez Agudelo, J., Masmitja Rusiñol, I., Gomariz Castro, S., Molino, E., Del Rio Fernandez, J., Manuel Lazaro, A., ... Gilabert Cervera, J. (2012). AUV based multi-vehicle collaboration: Salinity studies in Mar Menor coastal lagoon. In <i>IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles</i> (pp. 287–292).
Congrés no notable
Gonzalez Rovira, J. (n.d.). Equations of bielliptic modular curves. <i>JP Journal of Algebra, Number Theory and Applications</i> , 27(1), 45–60.
JCR: No indexada SJR: Q4 (Algebra and Number Theory; 60/66)
Heerink, M., Diaz Boladeras, M., Albo Canals, J., Angulo Bahón, C., Barco, A., Casacuberta Bagó, J., & Garriga Berga, C. (2012). A field study with primary school children on perception of social presence and interactive behavior with a pet robot. In <i>IEEE International Symposium on Robot and Human Interactive Communication</i> .
Congrés no notable
Lozoya Gámez, R. C., Marti Colom, P., Velasco Garcia, M., Fuertes Armengol, J. M., & Martin Rull, E. X. (n.d.). Resource and performance trade-offs in real-time embedded control systems. <i>Real-Time Systems</i> , 49(3), 267–307. doi:10.1007/s11241-012-9174-9
JCR: Q3 (Computer Science, Theory & Methods; 73/100) SJR: Q2 (Computational Theory and Mathematics; 45/135) ; Q2 (Theoretical Computer Science; 39/84)
manresa-Yee, cristina, Ponsa Asensio, P., Arellano, D., & Larrea, M. (n.d.). An avatar acceptance study for home automation scenarios. <i>Lecture Notes in Computer Science</i> , 7378, 230–238. doi:10.1007/978-3-642-31567-1
Congrés no notable
manresa-Yee, cristina, Ponsa Asensio, P., Vilanova, R., & Pérez, À. (n.d.). Information technologies based questionnaire tool in human-automation systems. <i>Studies in Informatics and Control: With Emphasis on Useful Applications of Advanced Technology</i> , 21(3), 283–292.
JCR: Q4 (Automation & Control Systems; 46/59) ; Q4 (Operations Research & Management Science; 65/79) SJR: Q4 (Control and Optimization; 23/26) ; Q3 (Electrical and Electronic Engineering; 296/450)
Marimon, M., & Padró Cirera, L. (n.d.). A hybrid approach to treebank construction. <i>Procesamiento Del Lenguaje Natural</i> , 49, 139–146.
JCR: No indexada SJR: Q4 (Computer Science Applications; 172/231) ; Q2 (Language and Linguistics; 170/434)
Marti Colom, P., Velasco Garcia, M., Castilla Fernandez, M., Miret Tomas, J., & Camacho Santiago, A. (2012). On the use of communication infrastructure in distributed power generation: a preliminary case study. In <i>IEEE International Conference on Emerging Technologies and Factory Automation</i> (pp. 1–4). doi:10.1109/ETFA.2012.6489730



Congrés notable
Muñoz Morgado, L. M., & Casals Gelpi, A. (2012). Dynamic scaling interface for assisted teleoperation. In IEEE International Conference on Robotics and Automation (pp. 4288–4293). doi:10.1109/ICRA.2012.6224736
Congrés notable
Olkiewicz, M., Fortuny Sanroma, A., Stuber, F. E., Fabregat Llangotera, A., Font Capafons, J., & Bengoa, C. J. (2012). Evaluation of different sludges from WWTP as a potential source for biodiesel production. <i>Procedia Engineering</i> , 42, 634–643. doi:10.1016/j.proeng.2012.07.456
JCR: No indexada SJR: Q3 (Engineering (miscellaneous)); 242/388)
Olm Miras, J. M., Biel Sole, D., Spinetti Rivera, M. de J., & Fossas Colet, E. (n.d.). Harmonic balance-based control of a boost DC/AC converter. <i>International Journal of Circuit Theory and Applications</i> , 40(8), 777–792. doi:10.1002/cta.755
JCR: Q2 (Engineering, Electrical & Electronic; 102/243) SJR: Q2 (Electrical and Electronic Engineering; 172/450)
Padró Cirera, L., & Stanilovsky, E. (2012). FreeLing 3.0: Towards Wider Multilinguality. In <i>International Conference on Language Resources and Evaluation</i> (pp. 2473–2479).
Congrés no notable
Pardo Ayala, D. E., Franco Genís, O., Sàez Pons, J., Andrés, A., & Angulo Bahón, C. (2012). Human - Humanoid Robot Interaction: The 20Q Game. In <i>Ubiquitous Computing and Ambient Intelligence</i> (pp. 193–199). Springer. doi:10.1007/978-3-642-35377-2_27
Congrés no notable
Perez-Sala, X., Escalera, S., & Angulo Bahón, C. (2012). Survey on 2D and 3D human pose recovery. In <i>Congrés Internacional de l'Associació Catalana d'Intel·ligència Artificial</i> (pp. 101–110). IOS Press.
Congrés no notable
Ponsa Asensio, P., manresa-Yee, cristina, Arellano, D., Gómez, J., & Pérez, À. (n.d.). Human-centred design in engineering curricula. <i>International Journal of Engineering Education</i> , 28(4), 767–777.
JCR: Q4 (Education, Scientific Disciplines; 31/34) ; Q4 (Engineering, Multidisciplinary; 79/90) SJR: Q2 (Education); 189/620) ; Q1 (Engineering (miscellaneous); 81/388)
Ponsa Asensio, P., Pérez, À., Gamiz Caro, J. F., manresa-Yee, cristina, & Vilanova, R. (2012). A study of the human-system interface complexity sources in wastewater treatment plants. In <i>Congreso Internacional de Interacción Persona-Ordenador</i> (pp. 333–336). Universidad de Zaragoza. doi:10.1145/2379636.2379638
Congrés no notable
Puype, B., Marín Tordera, E., Colle, D., Sanchez Lopez, S., Pickavet, M., Masip Bruin, J., & Demeester, P. (n.d.). Prediction-based routing as RWA in multilayer traffic engineering. <i>Photonic Network Communications</i> , 23(2), 172–182. doi:10.1007/s11107-011-0348-5
JCR: Q4 (Computer Science, Information Systems; 108/132) ; Q4 (Optics; 71/80) ; Q4 (Telecommunications; 63/78) SJR: Q2 (Atomic and Molecular Physics, and Optics); 34/79) ; Q3 (Computer Networks and Communications; 75/148) ; Q2 (Electrical and Electronic Engineering; 178/450) ; Q3 (Information Systems; 85/146)
Repecho Del Corral, V., Biel Sole, D., & Arias Pujol, A. (2012). Sensorless sliding mode control of PMSM drives using a high frequency injection algorithm <i>Przegląd Elektrotechniczny</i> , 88(1A), 16–20. Retrieved from <a href="http://hdl.handle.net/2117/15783">http://hdl.handle.net/2117/15783</a>
JCR: No indexada SJR: Q3 (Electrical and Electronic Engineering); 311/450)
Rodriguez Sola, R., Navarro Bosque, J., Casas Castillo, M. D. C., & Redaño Xipell, Á. (n.d.). Rainfall spatial organization and areal reduction factors in the metropolitan area of Barcelona (Spain). <i>Theoretical and Applied Climatology</i> . doi:10.1007/s00704-012-0818-4
JCR: Q2 (Meteorology & Atmospheric Sciences; 34/74) SJR: Q2 (Atmospheric Science); 29/81)
Ruiz Vegas, F. J., Sama Monsonis, A., & Agell Jané, N. (2012). Active learning of actions based on support vector machines. In <i>Congrés Internacional de l'Associació Catalana d'Intel·ligència</i>

Artificial (pp. 37–46). doi:10.3233/978-1-61499-139-7-37
Congrés no notable
Sarmiento Carnevali, M. L., Serra Prat, M., & Batlle Arnau, C. (2012). Distributed parameter model simulation tool for PEM fuel cells. In Congreso Nacional de Pilas de Combustible (pp. 1–4). doi:10.1016/j.ijhydene.2013.04.015
Congrés no notable
Sastre Requena, A. M., & Coll Ausio, M. T. (n.d.). Procedia Engineering. Procedia Engineering, 44, 807–808. doi:10.1016/j.proeng.2012.08.579
JCR: No indexada SJR: Q3 (Engineering (miscellaneous)); 242/388)
Sauri Marchan, S., Morales Fusco, P., Toledano, M., & Martin Fuentes, E. (2012). Empirical analysis of resiliency of terminal operations for roll-on/roll-off vessels. Transportation Research Record, (2273), 96–105. doi:10.3141/2273-12
JCR: Q3 (Engineering, Civil; 90/122) ; Q4 (Transportation Science & Technology; 25/30) SJR: Q2 (Civil and Structural Engineering); 52/155)
Segalas Coral, J., & Benson Murphy, P. (2012a). International design project semester. In International Conference on Engineering & Product Design Education (pp. 585–590).
Congrés no notable
Segalas Coral, J., & Tejedor Papell, G. (2012). Sustainable technology innovation course. Constructive and community-oriented learning postgraduate education. In International Conference on Education and New Learning Technologies (pp. 540–547).
Congrés no notable
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### 3.5 Articles o treballs presentats a congressos no indexats a WOK o Scopus

La producció científica del professorat adscrit a l'EPSEVG durant el 2012 no indexat a les bases de dades WOK i/o Scopus és la següent:

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#### 4. Conclusions

Ateses les dades exposades en aquest informe es pot concloure que:

- 1) Les bases de dades WOK i/o Scopus recullen un total 107 articles o treballs presentats a congressos pel PDI adscrit a l'EPSEVG durant 2012. Això és gairebé un 63% del total d'articles i treballs presentats. D'aquests, 50, és a dir, el 46% han estat referenciats com a mínim una vegada mentre que el 64% restant han estat incorporats a les bases de dades però no han estat referenciats.
- 2) Pel que fa a les edicions anteriors, les dades d'aquest informe no són comparables amb la dels anys 2010 i 2011. Encara que per la realització d'aquest informe no estava prevista una revisió metodològica és evident que la utilització del portal futur.upc.edu ha condicionat l'extracció i tractament de les dades respecte edicions passades on la principal font d'informació havia estat DRAC i la cerca i extracció de la informació de la relativa a la producció científica havia estat manual i basada en el nom del PDI.
- 3) Encara que la utilització de Futur ha suposat una reducció més que considerable dels esforços a l'hora d'identificar la producció científica del PDI adscrit a l'EPSEVG, com en edicions anteriors, es mantenen dues recomanacions per millorar la visibilitat de la producció científica a les bases dades.: D'una banda es recomana als professors i investigadors l'adopció del codi ORCID, d'un nom bibliogràfic universal o l'Author ID. D'una altra banda la selecció del nom institucional adient i el seu manteniment en el temps. En aquest sentit, properament es treballarà una proposta que es farà arribar a l'Equip Directiu amb l'objectiu d'homogeneïtzar les referències del PDI present a les publicacions
- 4) La revisió dels congressos suposa la possibilitat d'incorporar alguns d'aquests al Llistat de Congressos Notables de la UPC perquè a priori compleixen els requisits bibliomètrics. Concretament, es tracta dels congressos:
  - International Conference on Language Resources and Evaluation (LREC)
  - IEEE Symposium on Robot and Human Interactive Communication (Ro-MAN)
  - International Conference on Semi Solid Processing of Alloys and Composites

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<sup>i</sup> Base de dades bibliogràfica i bibliomètrica. Conté: referències i resums d'autor d'articles de revista, ponències de congressos i índexs de citacions. Aglutina al Science Citation Expanded, Social Sciences Citation Index, Conference Proceedings Citation Index i l'Arts & Humanities Citation Index. Recull aproximadament registres de 8.500 revistes. Útil per saber el nombre de cites que rep un article, l'índex h d'un autor determinat i per generar informes d'anàlisi de cites.

<sup>ii</sup> Base de dades produïda per Elsevier que recull gairebé 15.000 publicacions d'unes 4.000 editorials internacionals. Les disciplines que cobreix són: química, física, matemàtiques, enginyeria, ciències de la

salut, ciències socials, psicologia, economia, biologia, agricultura i ciències del medi ambient. Scopus permet conèixer el nombre de vegades que un article ha estat citat d'una manera similar al Web of Science, també permet cercar recursos web i patents a través del motor de cerca Scirus. Utilitza els indicadors SJR, SNIP i calcula l'índex h.

iii Finalment s'analitzen 170 referències atès que es considera que hi ha dues referències duplicades:

D'una banda:

Antonijuan Rull, J., Guillén Aranda, J., López, L., & Simarro Grande, G. (2012). Near bottom sediment dynamics on highly protected beaches. In IEEE International Instrumentation and Measurement Technology Conference (pp. 403–406). Retrieved from <http://hdl.handle.net/2117/16012ç>

Antonijuan Rull, J., Guillén Aranda, J., López, L., & Simarro Grande, G. (2012). Near-bottom sediment dynamics on highly-protected beaches The Coastal Ocean Observatory of Barcelona. In IEEE International Instrumentation and Measurement Technology Conference (pp. 403–406). Retrieved from <http://hdl.handle.net/2117/17640>

D'una altra banda:

Forn Alonso, A., da Silva, M., Baile Puig, M. T., Picas Barrachina, J. A., & Fauria, A. (n.d.). Effect of ultrasounds during the solidification process of the A357 aluminium alloy. *Solid State Phenomena*, 192 - 193, 428–432. doi:10.4028/www.scientific.net/SSP.192-193.428

Forn Alonso, A., da Silva, M., Baile Puig, M. T., Picas Barrachina, J. A., & Fauria, A. (2012). Effect of ultrasounds during the solidification process of the A357 aluminum alloy. In *International Conference on Semi-Solid Processing of Alloys and Composites* (pp. 428–432). Retrieved from [http://cataleg.upc.edu/record=b1419993~S1\\*cat](http://cataleg.upc.edu/record=b1419993~S1*cat)

Així mateix no s'han analitzat set activitats considerades com articles de revista a Futur però que en realitat corresponen a revisions d'articles:

Guardia Rubies, J. (2012a). Review of "A note on the ramification of torsion points lying on curves of genus at least two." *Mathematical Reviews*. Retrieved from <http://www.ams.org/mathscinet-getitem?mr=2769074>

Guardia Rubies, J. (2012b). Review of "Cuspidal class number of the tower of modular curves  $\mathbb{Q}(\zeta_n)$ ." *Mathematical Reviews*. Retrieved from <http://www.ams.org/mathscinet-getitem?mr=2721646>

Guardia Rubies, J. (2012c). Review of "Elliptic curves, modular forms, and their  $L$ -functions." *Mathematical Reviews*. Retrieved from <http://www.ams.org/mathscinet-getitem?mr=2757255>

Guardia Rubies, J. (2012d). Review of "Runge's method and modular curves." *Mathematical Reviews*. Retrieved from <http://www.ams.org/mathscinet-getitem?mr=2806555>

Guardia Rubies, J. (2012e). Review of "Symmetric roots and admissible pairing." *Mathematical Reviews*. Retrieved from <http://www.ams.org/mathscinet-getitem?mr=2792987>

Guardia Rubies, J. (2012f). Review of "The Tate-Shafarevich group for elliptic curves with complex multiplication." *Zentralblatt Für Mathematik Und Ihre Grenzgebiete*. Retrieved from <http://www.zentralblatt-math.org/zblmath/search/?q=an:1239.11069>

Guardia Rubies, J. (2012g). Review of "Torsion anomalous points and families of elliptic curves." *Zentralblatt Für Mathematik Und Ihre Grenzgebiete*. Retrieved from <http://www.zentralblatt-math.org/zblmath/search/?q=an:1225.11078>



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<sup>iv</sup> A 31 de maig de 2014