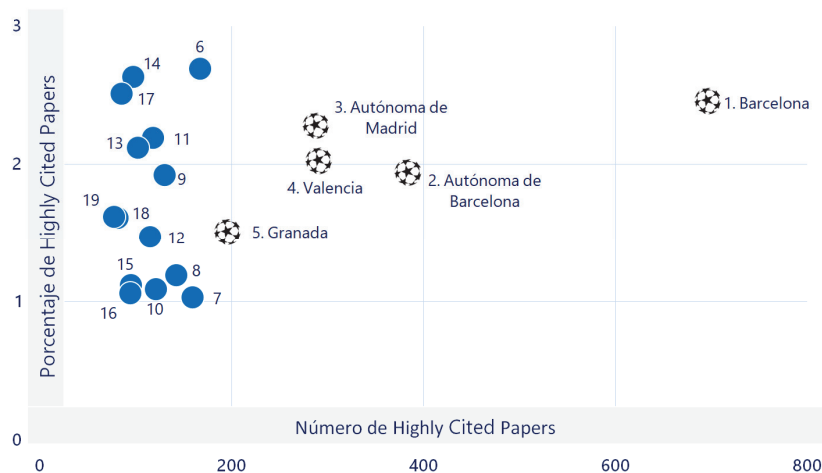


■ Excelencia científica

Tabla 15. Evolución del número y porcentaje de los trabajos altamente citados (Highly Cited Papers) de la UGR en la base de datos Web of Science

	Porcentaje Trabajos TOP1	Porcentaje trabajos TOP10%	Porcentaje Highly Cited Papers	Número Highly Cited Papers
2007	1.21%	11.32%	0.93%	13
2008	1.40%	12.88%	1.21%	19
2009	1.74%	13.30%	1.45%	25
2010	1.42%	14.64%	0.90%	19
2011	1.53%	13.94%	1.28%	31
2012	1.45%	12.64%	1.07%	26
2013	2.30%	13.79%	1.71%	44
2014	1.96%	13.67%	1.40%	37
2015	2.36%	13.68%	2.18%	60
2016	1.65%	10.22%	1.04%	27

Gráfica 4. Mapa estratégico de las universidades españolas según el Nº de Highly Cited Papers y el % de Highly Cited Papers en Web o Science para 2013-2017



University of Barcelona	1	Universidad de la Laguna	11
Autonomous University of Barcelona	2	University of Santiago De Compostela	12
University of Valencia	3	University of Navarra	13
Autonomous University of Madrid	4	Universidad de Cantabria	14
University of Granada	5	Universitat Politècnica de Valencia	15
Pompeu Fabra University	6	University of Zaragoza	16
Complutense University of Madrid	7	Universitat de les Illes Balears	17
University of Basque Country	8	University of Salamanca	18
University of Oviedo	9	Universitat Rovira i Virgili	19
University of Sevilla	10		

Tabla 16. Número y porcentaje de trabajos altamente citados indexados en Web of Science de las universidades españolas en el quinquenio 2013-2017

Universidad española	% trabajos in Top 1%	% Trabajos in Top 10%	% Highly Cited Papers	Highly Cited Papers ▼
University of Barcelona	2.64%	16.26%	2.46%	693
Autonomous University of Barcelona	2.11%	14.62%	1.93%	382
University of Valencia	2.26%	14.28%	2.05%	290
Autonomous University of Madrid	2.48%	15.25%	2.29%	283
University of Granada	1.96%	12.81%	1.49%	194
Pompeu Fabra University	3.35%	20.2%	2.69%	167
Complutense University of Madrid	1.35%	10.9%	1.03%	159
University of Basque Country	1.29%	12.89%	1.19%	142
University of Oviedo	2.43%	13.14%	1.92%	130
University of Sevilla	1.05%	11.03%	1.09%	121
Universidad de la Laguna	2.46%	12.47%	2.19%	118
University of Santiago De Compostela	1.64%	13.11%	1.47%	115
University of Navarra	2.24%	15.96%	2.12%	102
Universidad de Cantabria	3.36%	15.77%	2.63%	97
Universitat Politècnica de Valencia	1.14%	11.06%	1.12%	95
University of Zaragoza	1.17%	11.32%	1.06%	94
Universitat de les Illes Balears	2.48%	14.08%	2.51%	85
University of Salamanca	1.61%	11.21%	1.61%	81
Universitat Rovira i Virgili	1.73%	14.71%	1.62%	77
Polytechnic University of Madrid	1.02%	9.61%	0.83%	67
Polytechnic University of Catalonia	1.09%	11.2%	0.69%	59
Universidad de Málaga	0.94%	10.12%	1.11%	59
Universitat Jaume I	1.90%	13.68%	1.75%	55
Universidad de Córdoba	1.40%	11.53%	1.15%	51
Universitat de Girona	1.54%	14.69%	1.24%	49
University of Murcia	1.21%	10.65%	0.83%	46
University of Vigo	0.89%	10.14%	0.91%	44
Universidad de Alcalá	1.44%	11.27%	1.10%	41
Universitat Ramon Llull	2.77%	14.91%	2.64%	40
Universitat de Lleida	1.52%	14.39%	1.60%	39
Universidad de Castilla-La Mancha	0.58%	9.96%	0.67%	35
Universidad de Extremadura	1.29%	8.80%	0.98%	34
Universitat d'Alacant	0.99%	8.69%	0.76%	32
Universidad Carlos III de Madrid	1.01%	9.49%	0.71%	29
Universidad Miguel Hernández de Elche	1.10%	10.65%	0.81%	25
Universidad de Valladolid	0.61%	8.11%	0.61%	25
Universidad Rey Juan Carlos	0.93%	10.35%	0.80%	24
Universidade da Coruña	0.92%	9.45%	0.61%	22
Universidad de Jaén	0.93%	10.23%	0.82%	21
Universidad de León	0.93%	8.38%	0.97%	20
Universidad Pablo de Olavide	1.54%	10.45%	0.92%	19
Universidad de Las Palmas de Gran Canaria	1.19%	9.22%	0.81%	19
Universidad de Cádiz	0.71%	9.65%	0.54%	16
Universidad Pública de Navarra	1.00%	11.0%	0.70%	14
Universidad CEU Cardenal Herrera	2.70%	9.98%	2.70%	13
Universidad Nacional de Educación a Distancia (UNED)	1.14%	8.17%	0.62%	13
San Pablo CEU University	1.49%	11.66%	1.49%	12
Universidad de La Rioja	1.00%	10.19%	0.93%	12
Universidad de Almería	0.58%	8.69%	0.44%	10

Tabla 17. Evolución del número de trabajos altamente citados (*Highly Cited Papers*) de la UGR en el quinquenio 2013-2017 distribuidos por categoría ESI

Disciplina ESI	Número de <i>Highly Cited Papers</i>				
	2013	2014	2015	2016	2017
Physics	7	8	1---	13	7
Space Science	---	15	4	21	1
Computer Science	4	5	7	4	2
Clinical Medicine	4	---	3	5	4
Agricultural Sciences	---	---	4	6	3
Engineering	3	2	---	2	1
Social Sciences	1	2	2	2	---
Pharmacology & Toxicology	3	1	---	---	2
Geosciences	---	3	1	2	---
Chemistry	1	1	1	1	1
Environment/Ecology	2	---	1	2	---
Mathematics	1	1	---	1	1
Plant & Animal Science	---	2	2	---	---
Economics & Business	---	1	---	---	3
Psychiatry/Psychology	---	1	1	1	---
Biology & Biochemistry	---	1	---	---	1
Neuroscience & Behavior	---	---	1	---	1
Molecular Biology & Genetics	---	1	---	---	---
Multidisciplinary	---	---	---	---	---
Immunology	---	---	---	---	---
Microbiology	---	---	---	---	---
Materials Science	---	---	---	---	---

Tabla 18. Evolución del porcentaje de trabajos altamente citados (*Highly Cited Papers*) de la UGR en el quinquenio 2013-2017 distribuidos por categoría ESI

Disciplina ESI	Porcentaje de <i>Highly Cited Papers</i>				
	2012	2013	2014	2015	2016
Physics	3,57%	3,65%	4,65%	5,35%	3,4%
Space Science	---	23,08%	7,02%	23,33%	2,27%
Computer Science	3,77%	5,32%	6,25%	3,31%	2,35%
Clinical Medicine	1,27%	---	0,81%	1,24%	0,97%
Agricultural Sciences	---	---	2,26%	5,66%	2,34%
Engineering	2,05%	1,22%	---	1,15%	0,68%
Social Sciences	0,52%	0,99%	0,93%	1%	---
Pharmacology & Toxicology	5,36%	2,22%	---	---	2,63%
Geosciences	---	1,64%	0,58%	1,07%	---
Chemistry	0,58%	0,48%	0,48%	0,47%	0,53%
Environment/Ecology	1,82%	---	0,82%	1,98%	---
Mathematics	0,72%	0,77%	---	0,78%	0,83%
Plant & Animal Science	---	1,90%	2,56%	---	---
Economics & Business	---	2,56%	---	---	5,26%
Psychiatry/Psychology	---	0,69%	0,72%	0,79%	---
Biology & Biochemistry	---	1,04%	---	---	1,02%
Neuroscience & Behavior	---	---	1,69%	---	1,43%
Molecular Biology & Genetics	---	1,85%	---	---	---
Multidisciplinary	---	---	---	---	---
Immunology	---	---	---	---	---
Microbiology	---	---	---	---	---
Materials Science	---	---	---	---	---

Tabla 19. Número y porcentaje de trabajos altamente citados (Highly Cited Papers) de la UGR en el quinquenio 2013-2017 por categoría Web of Science

Categoría Web of Science	% Docs in Top 1%	% Docs in Top 10%	% Highly Cited Papers	Nº Highly Cited Papers ▼
ASTRONOMY & ASTROPHYSICS	12.34%	36.1%	10.31%	56
PHYSICS, PARTICLES & FIELDS	7.43%	30.37%	6.3%	39
COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE	4.41%	22.47%	3.3%	15
FOOD SCIENCE & TECHNOLOGY	1.9%	21.74%	3.53%	13
PHYSICS, NUCLEAR	11.8%	42.13%	7.3%	13
NUTRITION & DIETETICS	2.04%	9.59%	2.45%	12
COMPUTER SCIENCE, INFORMATION SYSTEMS	5.82%	32.28%	5.82%	11
CHEMISTRY, APPLIED	3.6%	26.62%	5.04%	7
PHYSICS, MULTIDISCIPLINARY	3.12%	17.19%	3.12%	6
BIOCHEMISTRY & MOLECULAR BIOLOGY	1.58%	11.09%	1.13%	5
ENVIRONMENTAL SCIENCES	0.81%	11.94%	1.01%	5
TOXICOLOGY	6.49%	29.87%	6.49%	5
CARDIAC & CARDIOVASCULAR SYSTEMS	5.36%	14.29%	7.14%	4
CHEMISTRY, MULTIDISCIPLINARY	0.87%	11.95%	1.17%	4
COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS	3.31%	15.44%	1.47%	4
ECOLOGY	1.64%	12.3%	1.64%	4
ONCOLOGY	1.83%	14.61%	1.83%	4
PHARMACOLOGY & PHARMACY	0.93%	10.87%	1.24%	4
PLANT SCIENCES	2.29%	8.0%	2.29%	4
COMPUTER SCIENCE, THEORY & METHODS	6.61%	17.36%	2.48%	3
HEALTH CARE SCIENCES & SERVICES	3.37%	11.24%	3.37%	3
HEALTH POLICY & SERVICES	6.06%	24.24%	9.09%	3
MANAGEMENT	2.34%	15.62%	2.34%	3
MATHEMATICS, APPLIED	1.77%	13.16%	0.76%	3
AGRICULTURE, MULTIDISCIPLINARY	0.0%	26.79%	3.57%	2
AUTOMATION & CONTROL SYSTEMS	5.41%	21.62%	5.41%	2
COMPUTER SCIENCE, CYBERNETICS	8.33%	20.83%	8.33%	2
CRITICAL CARE MEDICINE	5.0%	15.0%	10.0%	2
ECONOMICS	1.33%	10.67%	1.33%	2
ENERGY & FUELS	---	13.76%	1.83%	2
ENGINEERING, ELECTRICAL & ELECTRONIC	1.59%	13.06%	0.64%	2
GASTROENTEROLOGY & HEPATOLOGY	4.35%	15.94%	2.9%	2
GEOCHEMISTRY & GEOPHYSICS	0.83%	13.64%	0.83%	2
GEOSCIENCES, MULTIDISCIPLINARY	1.72%	13.3%	0.49%	2
GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY	---	11.76%	2.35%	2
HEMATOLOGY	5.88%	14.71%	5.88%	2
INSTRUMENTS & INSTRUMENTATION	3.08%	10.0%	1.54%	2
METEOROLOGY & ATMOSPHERIC SCIENCES	1.6%	12.0%	1.6%	2
NEUROSCIENCES	1.92%	12.82%	0.64%	2
OPERATIONS RESEARCH & MANAGEMENT SCIENCE	3.1%	15.5%	1.55%	2
PEDIATRICS	3.12%	16.67%	2.08%	2
PSYCHIATRY	1.73%	9.25%	1.16%	2
ANTHROPOLOGY	1.67%	15.0%	1.67%	1
BIODIVERSITY CONSERVATION	2.56%	10.26%	2.56%	1
BIOPHYSICS	1.9%	8.57%	0.95%	1
BIOTECHNOLOGY & APPLIED MICROBIOLOGY	1.1%	9.89%	0.55%	1
BUSINESS	0.99%	14.85%	0.99%	1
CELL BIOLOGY	2.03%	14.19%	0.68%	1

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Tabla 20. Trabajos publicados por la Universidad de Granada en las revistas científicas SCIENCE y NATURE durante el quinquenio 2012-2017

Título del Trabajo	AÑO	Revista	Autor UGR
Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8×10^{18} eV. By: Aab, A.; Abreu, P.; Aglietta, M.; et al. Group Author(s): Pierre Auger Collaboration. SCIENCE Volume: 357 Issue: 6357 Pages: 1266-1270 Published: SEP 22 2017	2017	SCIENCE	Antonio Bueno Villar Dpt Física Teórica y del Comos
The phylogenetic roots of human lethal violence By: Maria Gomez, Jose; Verdu, Miguel; Gonzalez-Megias, Adela; et al. NATURE Volume: 538 Issue: 7624 Pages: 233-+ Published: OCT 13 2016	2016	nature	María Ruedas-Rama Dept Fisicoquímica
Mars methane detection and variability at Gale crater By: Webster, Christopher R.; Mahaffy, Paul R.; Atreya, Sushil K.; et al. Group Author(s): MSL Sci Team SCIENCE Volume: 347 Issue: 6220 Pages: 415-417 Published: JAN 23 2015	2015	SCIENCE	Javier Martín Torres Universidad Graada CSIC
Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun By: Rotundi, Alessandra; Sierks, Holger; Della Corte, Vincenzo; et al. SCIENCE Volume: 347 Issue: 6220 Article Number: aaa3905 Published: JAN 23 2015	2015	SCIENCE	Daniel Rodríguez Univ Granada
Science Communication: Flawed Citation Indexing By: Lopez-Cozar, Emilio Delgado; Robinson-Garcia, Nicolas; Torres-Salinas, Daniel. SCIENCE Volume: 342 Issue: 6163 Pages: 1169-1169 Published: DEC 6 2013	2013	SCIENCE	Emilio Delgado, Nicolás Robinson y Daniel Torres Dpt. Información
Reorganization of Southern Ocean Plankton Ecosystem at the Onset of Antarctic Glaciation By: Houben, Alexander J. P.; Bijl, Peter K.; Pross, Joerg; et al. Group Author(s): Expedition 318 Scientists. SCIENCE Volume: 340 Issue: 6130 Pages: 341-344 Published: APR 19 2013	2013	SCIENCE	Univ Granada, Lab Estudios Cristallog, Inst Andaluz Ciencias Tierra
Libraries' Social Role in the Information Age By: Herrera-Viedma, Enrique; Lopez-Gijon, Javier SCIENCE Volume: 339 Issue: 6126 Pages: 1382-1382 Published: MAR 22 2013	2013	SCIENCE	Enrique Herrera y Javier López Gijón Dpto Información

Tabla 21. Investigadores de universidades españolas que figuran en los listados de Investigadores Altamente Citados – Highly Cited Researchers (HCR) del año 2016 elaboradores por Clarivate Analytics a partir de los datos de citación de Web of Science

Nombre	Apellidos	Áreas donde el investigador es altamente citado	Universidad de afiliación
Francisco J	García-Vidal	Physics	Univ Autonoma Madrid, Spain
Jordi	Bruix	Clinical Medicine	Univ Barcelona, Spain
Elias	Campo	Clinical Medicine	Univ Barcelona, Spain
Josep	Dalmau	Neuroscience & Behavior	Univ Barcelona, Spain
Francesc	Graus	Neuroscience & Behavior	Univ Barcelona, Spain
Rosa M	Lamuella-Raventos	Agricultural Sciences	Univ Barcelona, Spain
Josep M	Llovet	Clinical Medicine	Univ Barcelona, Spain
Eduardo	Tolosa	Neuroscience & Behavior	Univ Barcelona, Spain
Eduard	Vieta	Psychiatry/Psychology	Univ Barcelona, Spain
Javier	Aizpurua	Physics	Univ Basque Country, Spain
Jose Luis	Zamorano	Clinical Medicine	Univ Clin San Carlos, Spain
Alberto	Fernandez	Computer Science	Univ Granada, Spain
Salvador	García	Computer Science	Univ Granada, Spain
Francisco	Herrera	Computer Science / Engineering	Univ Granada, Spain
Enrique	Herrera-Viedma	Computer Science / Engineering	Univ Granada, Spain
Jaume	Flexas	Plant & Animal Science	Univ Illes Balears, Spain
Hipolito	Medrano	Plant & Animal Science	Univ Illes Balears, Spain
Luis	Martinez	Computer Science	Univ Jaen, Spain
Juan	Bisquert	Chemistry	Univ Jaume I, Spain
Victor	Flors	Plant & Animal Science	Univ Jaume I, Spain
Ivan	Mora-Sero	Chemistry	Univ Jaume I, Spain
Pedro	Rodriguez	Engineering	Univ Loyola Andalucia, Spain
Jose Angel	Perez-Alvarez	Agricultural Sciences	Univ Miguel Hernandez, Spain
Hermenegildo	García	Chemistry	Univ Politec Valencia, Spain
Jordi	Alonso	Psychiatry/Psychology	Univ Pompeu Fabra, Spain
Angel	Lozano	Computer Science	Univ Pompeu Fabra, Spain
Juan J	Nieto	Mathematics	Univ Santiago de Compostela, Spain
Rosana	Rodriguez-Lopez	Mathematics	Univ Santiago de Compostela, Spain
David	Posada	Computer Science	Univ Vigo, Spain