



Escuela Politécnica Superior

# MEMORIA DE INVESTIGACIÓN 2021



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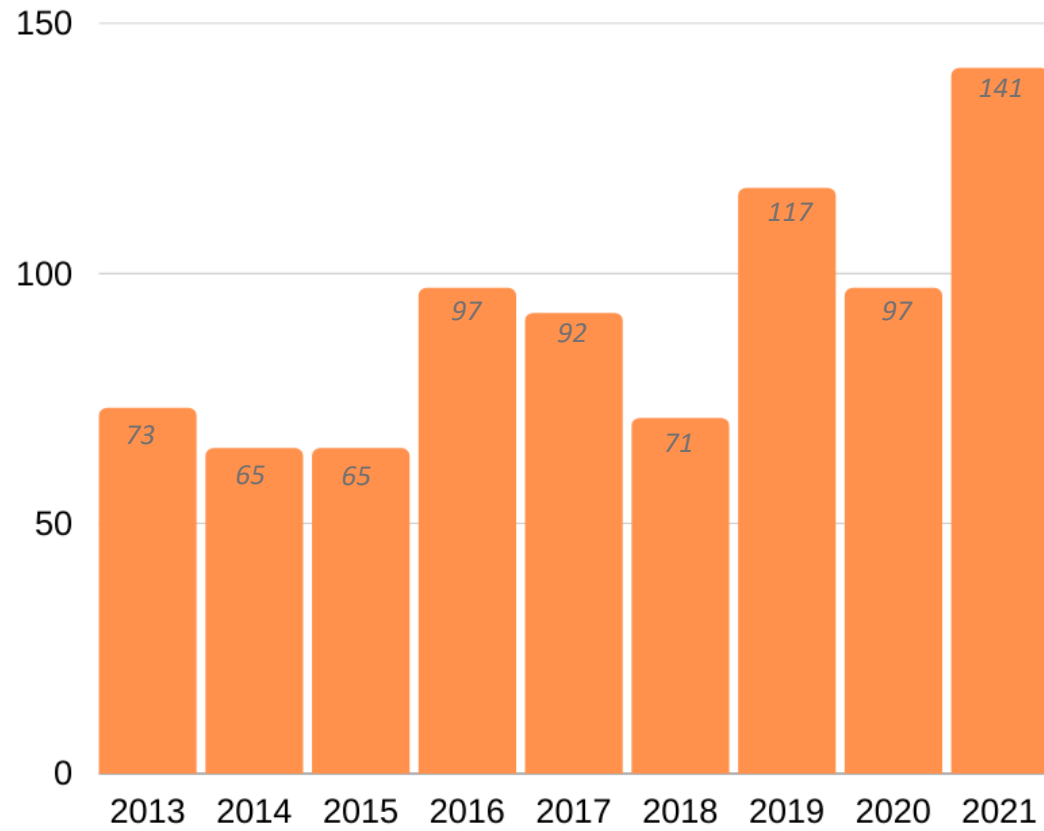
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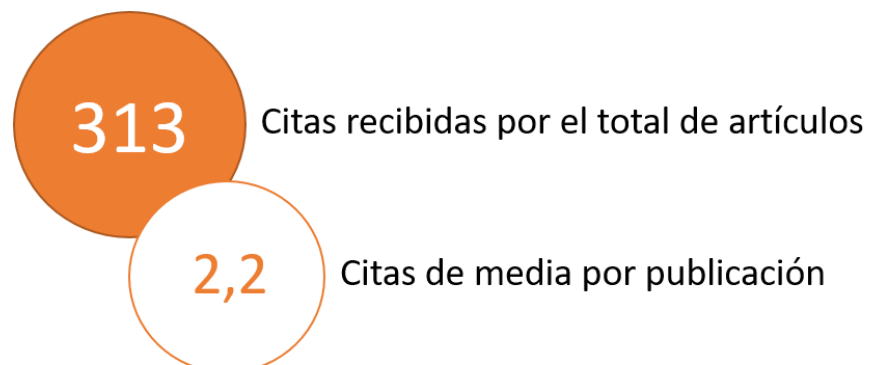
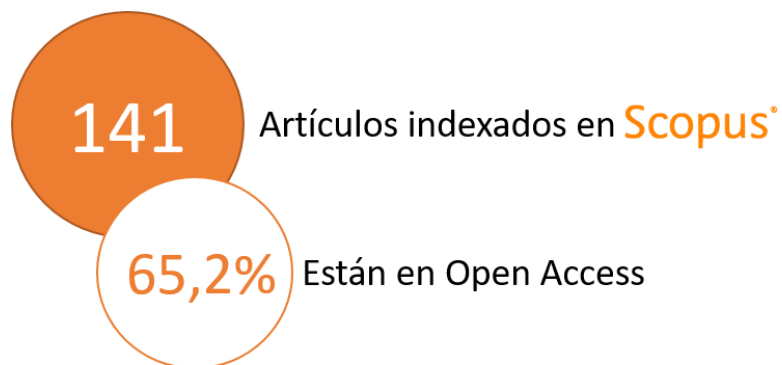
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## COMPARATIVA 2013-2021

Número de artículos recogidos en las memorias por año.





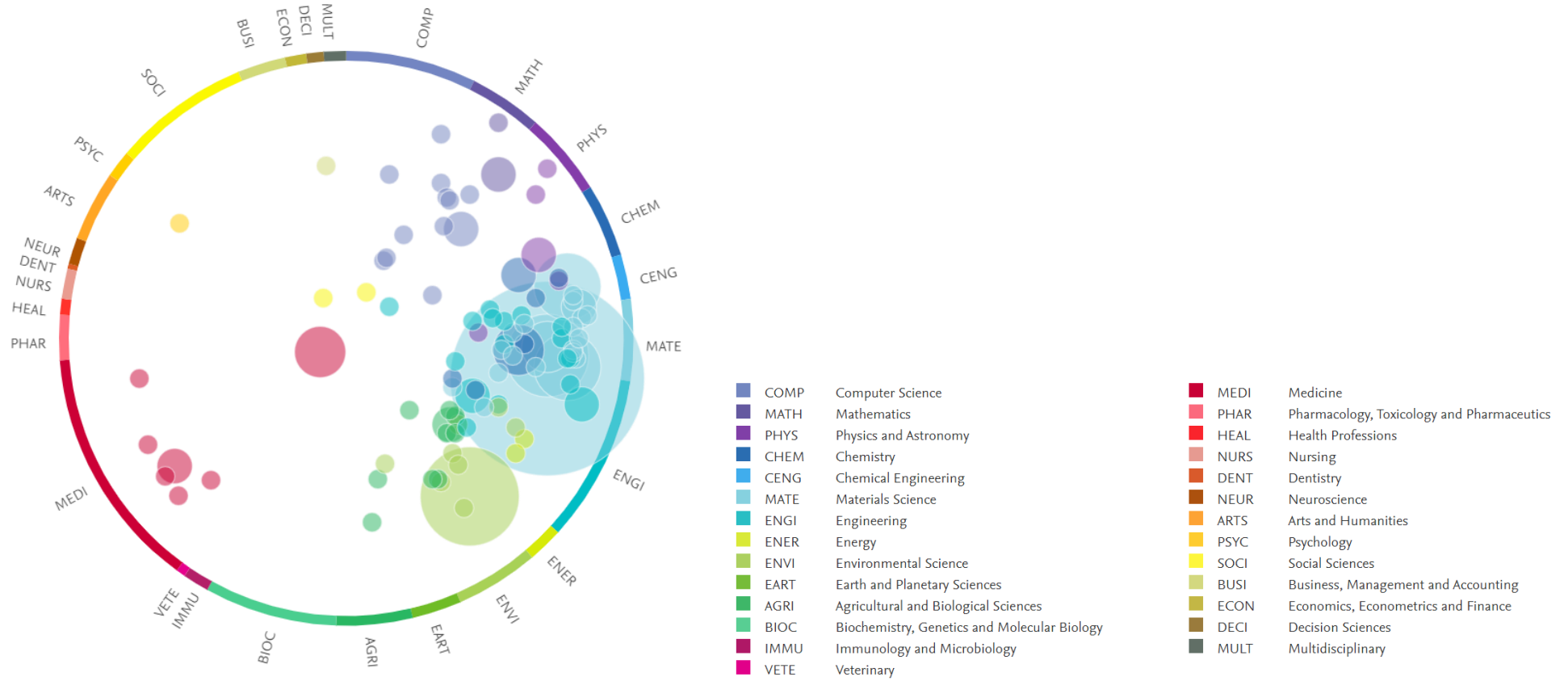
**Field-Weighted Citation Impact (FWCI)** – Impacto de citas ponderado por campo de investigación proporcionado por Scival (Elsevier).

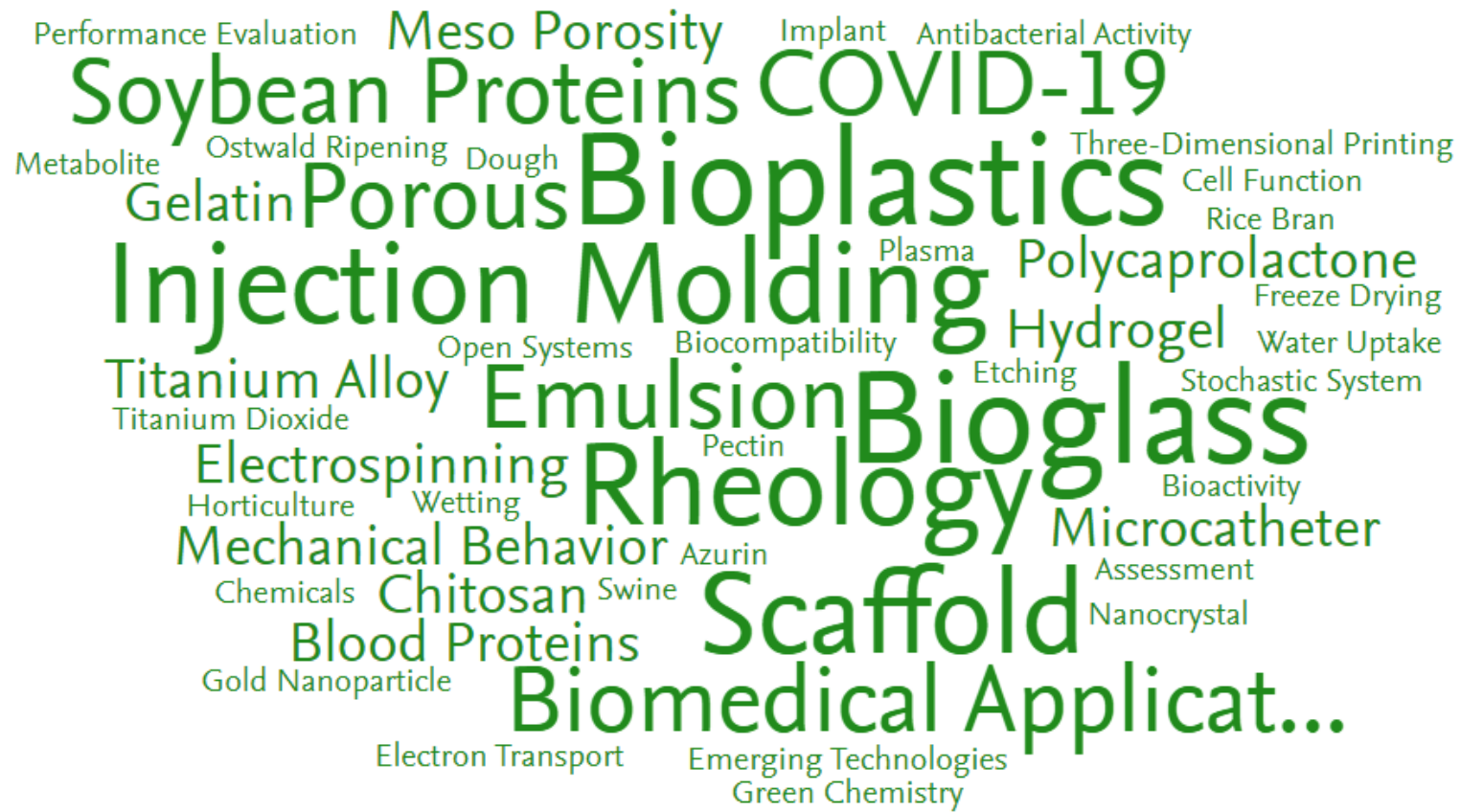
El FWCI indica cómo se compara el número de citas que han recibido las publicaciones de un centro con respecto al número medio recibido por todas las demás publicaciones similares en el universo de datos.

- Un FWCI de 1.00 indica que las publicaciones de este centro se han citado tal y como cabría esperar basándose en la media mundial de las publicaciones similares
- Un FWCI de 1.18 para el periodo 2021 significa que sus publicaciones se citan un **18% más** que la media mundial.

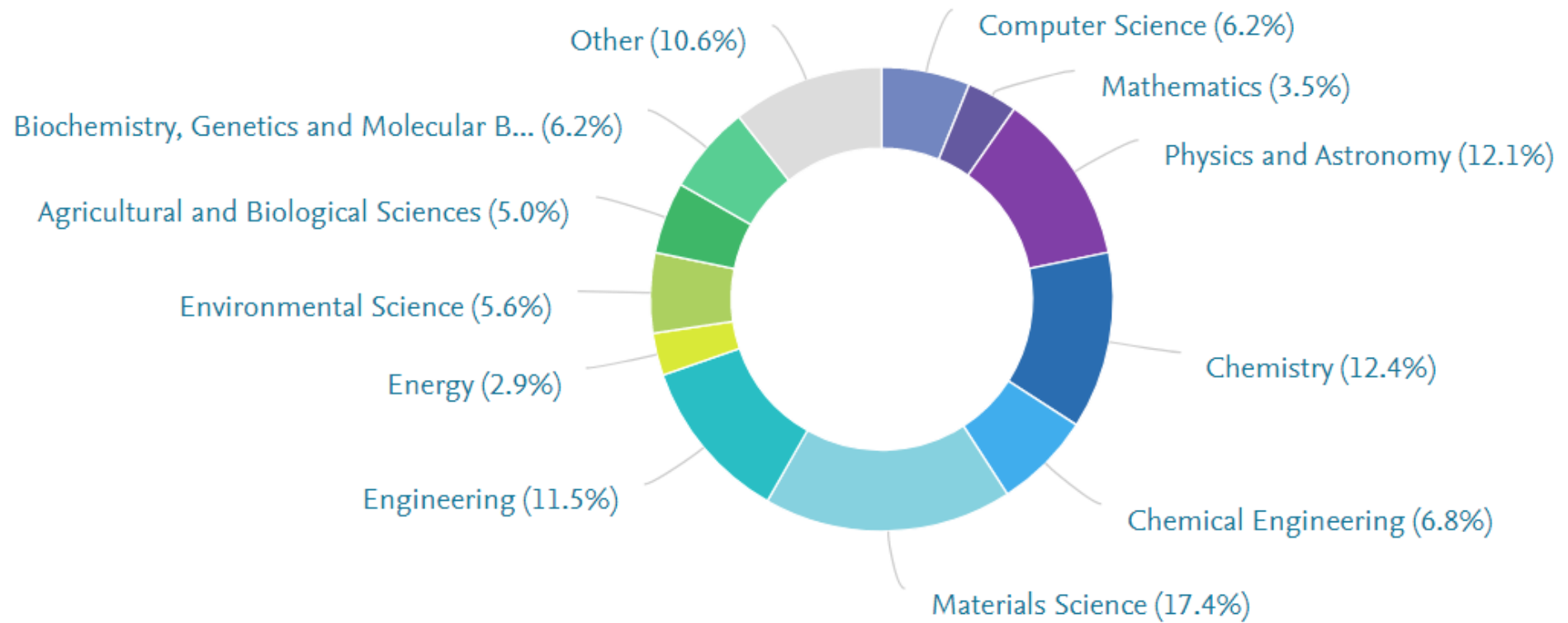
<sup>1</sup> *SciVal* es una herramienta de evaluación del rendimiento de la investigación por suscripción que utiliza datos de **Scopus**. *SciVal* proporciona medidas bibliométricas más avanzadas que las disponibles en *Scopus* y *Web of Science*. *SciVal* también le permite comparar investigadores individuales, grupos de investigadores e instituciones en base a una variedad de métricas diferentes.

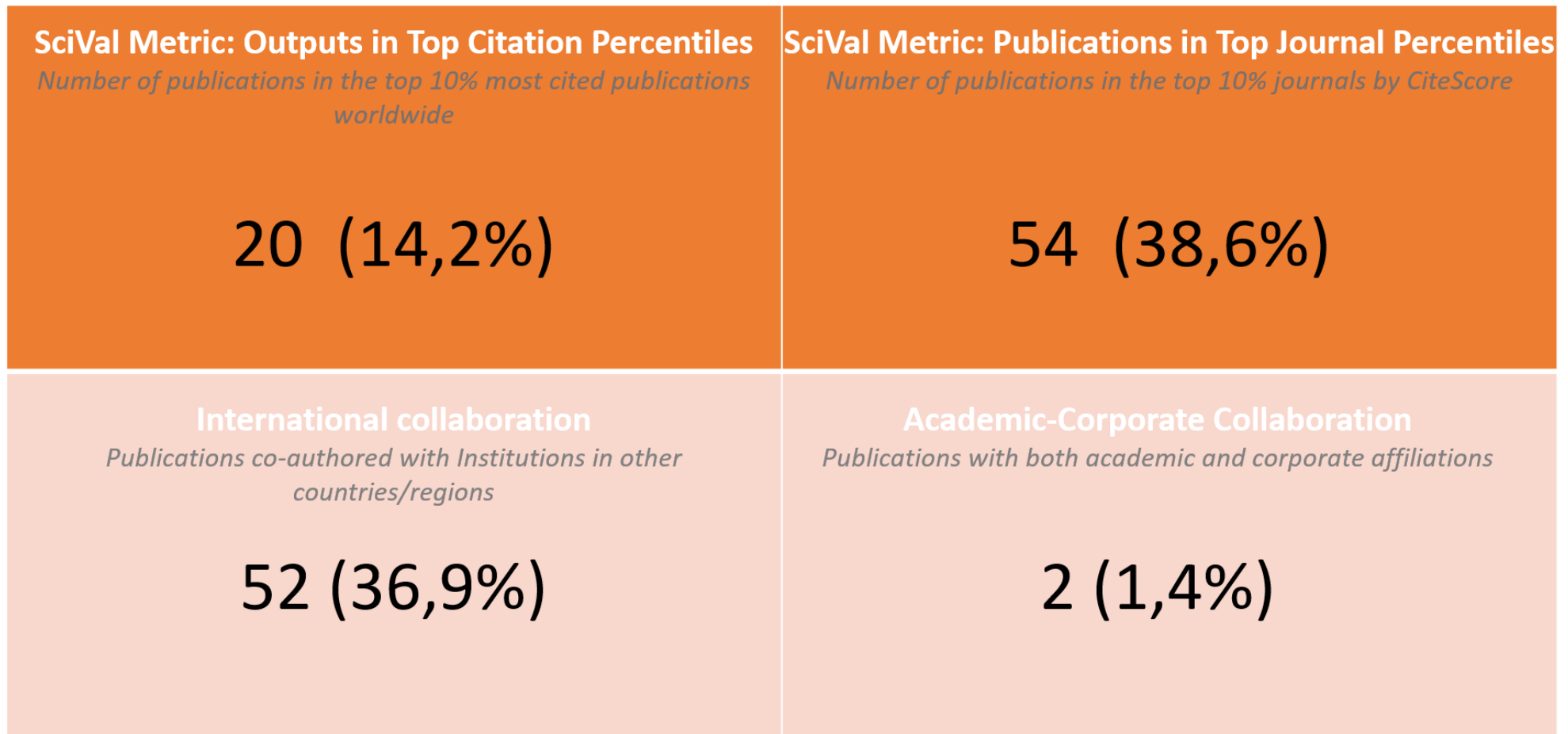
TOPICS (Imagen tomada de Scival)





**MATERIAS** (Imagen tomada de Scival)

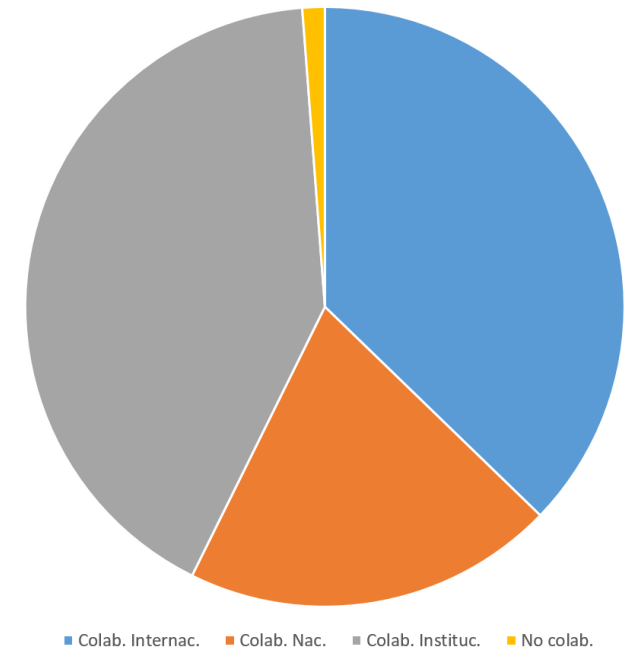






























**COLABORACIONES** (Datos extraídos de Scival)

| Metric                               | %     | Scholarly Output | Citations | Citations per Publication | Field-Weighted Citation Impact |
|--------------------------------------|-------|------------------|-----------|---------------------------|--------------------------------|
| International collaboration          | 36.9% | 52               | 130       | 2,5                       | 1,35                           |
| Only national collaboration          | 19,9% | 28               | 31        | 1,1                       | 0,80                           |
| Only institutional collaboration     | 41,1% | 48               | 151       | 2,6                       | 1,13                           |
| Single authorship (no collaboration) | 2,1%  | 3                | 1         | 0,3                       | 2,48                           |



**COLABORACIONES – TOP 25 INSTITUCIONES** *(Datos extraídos de Scival)*

| Institution  | Sector     | Country/Region  | Scholarly Output | Authors |
|--|------------|---|------------------|---------|
| University of Seville                                      | academic   | Spain          | 133              | 192     |
| CSIC   | academic   | Spain          | 18               | 50      |
| CSIC-USE - Institute of Materials Science of Seville       | government | Spain          | 7                | 13      |
| Friedrich-Alexander University Erlangen-Nürnberg           | academic   | Germany        | 5                | 13      |
| Universidad Autónoma de Madrid                             | academic   | Spain          | 5                | 7       |
| Universidad Nacional Autónoma de México                    | academic   | Mexico         | 5                | 7       |
| University of Extremadura                                  | academic   | Spain          | 4                | 15      |
| Universidad Pablo de Olavide                               | academic   | Spain          | 4                | 2       |
| University of Oxford                                       | academic   | UK             | 4                | 4       |
| University of Basel  | academic   | Switzerland    | 3                | 5       |
| University of Huelva                                       | academic   | Spain          | 3                | 7       |
| University of Illinois at Urbana-Champaign                 | academic   | USA            | 3                | 3       |
| University of Massachusetts                                | academic   | USA            | 3                | 3       |
| Consejo Nacional de Investigaciones Científicas y Técnicas | government | Argentina      | 3                | 9       |
| Universidad de Antioquia                                   | academic   | Colombia       | 3                | 7       |
| Universidad Internacional de La Rioja                      | academic   | Spain          | 3                | 1       |
| Helmholtz-Zentrum Dresden-Rossendorf                       | government | Germany       | 2                | 2       |
| University of A Coruna                                     | academic   | Spain        | 2                | 3       |
| University of Granada                                      | academic   | Spain        | 2                | 2       |
| Newcastle University                                       | academic   | UK           | 2                | 2       |
| Maastricht University                                      | academic   | Netherlands  | 2                | 3       |
| University of Lisbon                                       | academic   | Portugal     | 2                | 5       |
| NOVA University Lisbon                                     | academic   | Portugal     | 2                | 5       |
| University of Aveiro                                       | academic   | Portugal     | 2                | 6       |
| University of Havana                                       | academic   | Cuba         | 2                | 5       |
|  |            |   |                  |         |

## TOP 5 MOST CITED PUBLICATIONS *(Datos extraídos de Scival)*

| Publication  | Citations |
|--|-----------|
| <p>Environmental impact of nanoparticles' application as an emerging technology: A review.<br/><a href="#">Martínez, G., Merinero, M., Pérez-Aranda, M. and 4 more</a><br/>(2021) <i>Materials</i>, 14 (1), pp. 1-26.<br/><a href="#">View in Scopus</a></p>   | 21        |
| <p>A retrospective analysis of the impact of the COVID-19 restrictions on energy consumption at a disaggregated level.<br/><a href="#">García, S., Parejo, A., Personal, E. and 3 more</a><br/>(2021) <i>Applied Energy</i>, 287.<br/><a href="#">View in Scopus</a></p>   | 21        |
| <p>First- and second-order phase transitions in RE<sub>6</sub>Co<sub>2</sub>Ga (RE = Ho, Dy or Gd) cryogenic magnetocaloric materials.<br/><a href="#">Guo, D., Moreno-Ramírez, L.M., Romero-Muñiz, C. and 5 more</a><br/>(2021) <i>Science China Materials</i>, 64 (11), pp. 2846-2857.<br/><a href="#">View in Scopus</a></p>    | 18        |
| <p>A rheological approach to 3D printing of plasma protein based doughs.<br/><a href="#">Álvarez-Castillo, E., Oliveira, S., Bengoechea, C. and 3 more</a><br/>(2021) <i>Journal of Food Engineering</i>, 288.<br/><a href="#">View in Scopus</a></p>  | 14        |
| <p>Occurrence of pharmaceuticals and their metabolites in sewage sludge and soil: A review on their distribution and environmental risk assessment.<br/><a href="#">Mejías, C., Martín, J., Santos, J.L. and 2 more</a><br/>(2021) <i>Trends in Environmental Analytical Chemistry</i>, 30.<br/><a href="#">View in Scopus</a></p> | 13        |

**TOP 10: AUTORES CON MÁS ARTÍCULOS EN LA MEMORIA 2021** *(Datos extraídos de Scival)*

| Name                 | Scholarly Output | h-index |
|----------------------|------------------|---------|
| Guerrero, Antonio    | 22               | 34      |
| Beltrán, Ana M.      | 16               | 15      |
| Bengoechea, Carlos   | 14               | 21      |
| Félix, Manuel        | 12               | 16      |
| Torres, Yadir        | 12               | 26      |
| Martín, Julia        | 10               | 28      |
| Alonso, Esteban      | 9                | 33      |
| Pérez-Puyana, Víctor | 9                | 14      |
| Santos, J. L.        | 9                | 29      |
| Aparicio, Irene      | 8                | 31      |

\*\*\* Artículo añadido con posterioridad a la realización de la Memoria (18/03/2022). Sus datos, por tanto, no se han incluido en los análisis y estadísticas.