

There are two distinct sections: by countries and by fields. By default, Section 1 - comparison of countries across all fields - is shown.

Expand the menu panel by clicking on its top bar.

The web tool provides interactive comparisons of research output by scientific discipline in a set of EU countries in three dimensions: 1) number of articles by the scientific influence of journals; 2) number of articles by their citation impact; 3) number of citations by the scientific influence of citing journals.

See detailed information about the app or generate a PDF printout using these buttons.



An EU Comparison of 2015-2016 Academic Publication Output and its Citation Impact

Classification of fields: WoS categories or broader FORD fields can be selected here.

Compare one country with one or more other countries in these dropdown lists.

The average performance of selected countries will be used as a benchmark.

Select one of 3 publication or citation-based measures to visualize the relative performance of selected countries.

Adjust performance measures by applying one of these filters.

Note that these filters apply only to citation-based measures. Only one exclusion can be activated at a time.

Section 1: by Countries Hide options

Field type

WoS

Focus country

Czech Republic

Benchmark countries

Austria x Belgium x Denmark x
Finland x France x Germany x
Greece x Ireland x Italy x
Luxembourg x Netherlands x Portugal x
Spain x Sweden x United Kingdom x

All

Y-axis index

Articles by journal influence - Top decile: the most influential journals

X-axis index

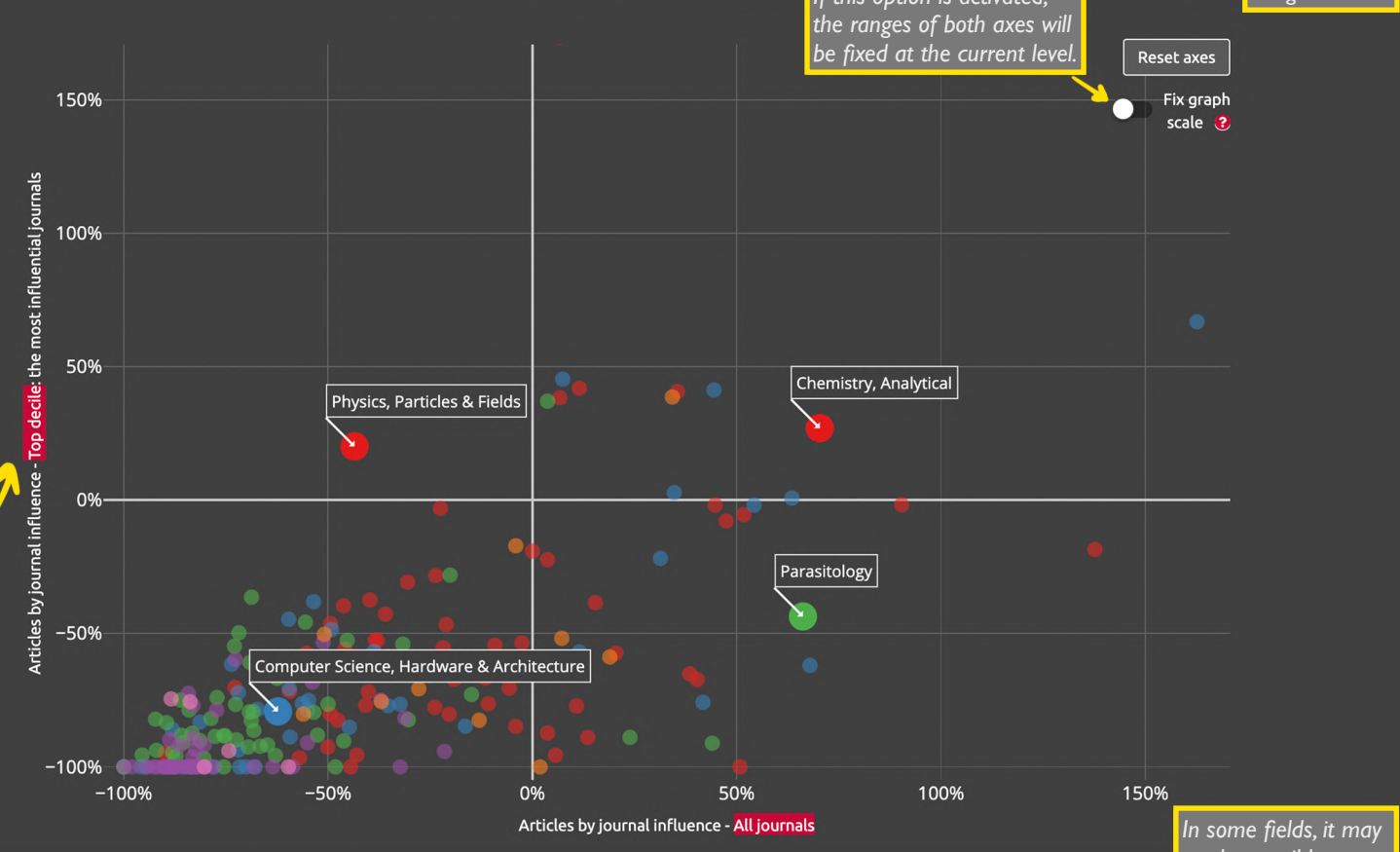
Articles by journal influence - All journals

Filters for Articles

All
 Only in journals published domestically
 Only in journals published abroad

Filters for Citations

Exclude author self-citations
 Exclude citations in the author's country



If this option is activated, the ranges of both axes will be fixed at the current level.

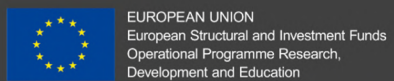
Choose dark or light mode.

X and Y Axes: A chosen measure for the *Focus country* is expressed as a percentage deviation from the mean in *Benchmark countries*.
⚠ Note that the following categories are not displayed in the graph above, because Benchmark countries exhibit zero output in these categories: Andrology.
⚠ Note that 3 categories are currently out of the graph range. Double-click on the graph to display all categories.

In some fields, it may not be possible to calculate the deviation from the benchmark, if the benchmark is equal to zero.

Some dots may fall outside the current range of axes (because the Fix graph scales is activated or because there are outliers).

Scroll down the menu to see more options...



Example: in 'Chemistry, Analytical' Czechia (at least one co-author with Czech affiliation) produced 85 articles per 10 mln inhabitants published in Top decile journals, whereas EU15 countries produced on average 67 articles per 10 mln inhabitants. Thus, Czechia is 27% above the benchmark level in this field.

An EU Comparison of 2015-2016 Academic Publication Output and its Citation Impact



Section 1: by Countries Hide options

Field type
WoS

Focus country
Czech Republic

Benchmark countries

Austria x Belgium x Denmark x
Finland x France x Germany x
Greece x Ireland x Italy x
Luxembourg x Netherlands x Portugal x
Spain x Sweden x United Kingdom x

All

Y-axis index
Articles by journal influence - Top decile: the most influential journals

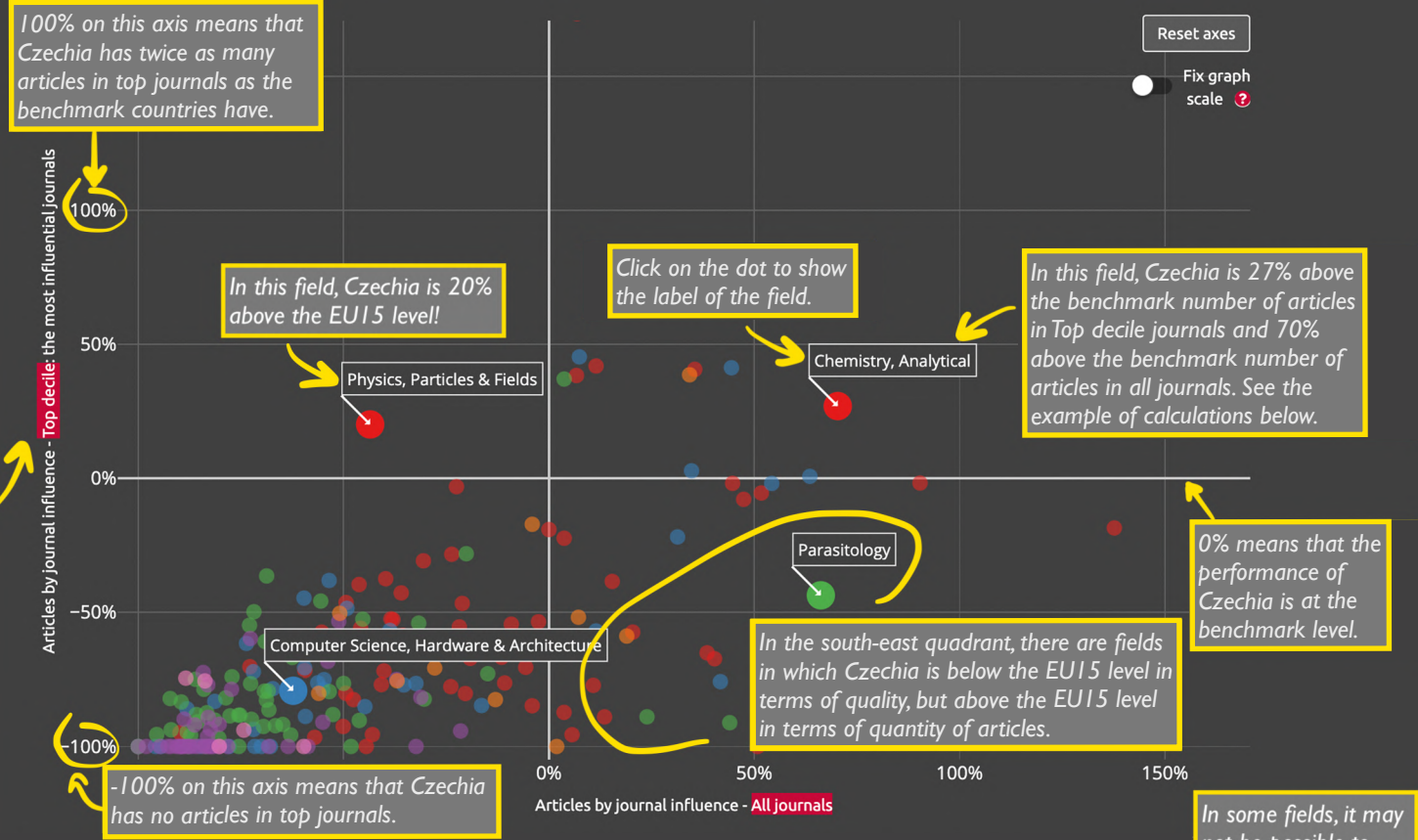
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Articles by journal influence - All journals

Filters for Articles

All
 Only in journals published domestically
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Section 2 - comparison of country profiles within one field - can be activated by clicking on the section header.

Classification of fields: WoS categories or broader FORD fields can be selected here.

Select one field for a cross-country outlook.

Adjust performance measures by applying one of these filters.

Section 1: by Countries Show options

Section 2: by Fields Hide options

Field type
WoS

Field
ECONOMICS

Filters for Articles
All

Filters for Citations

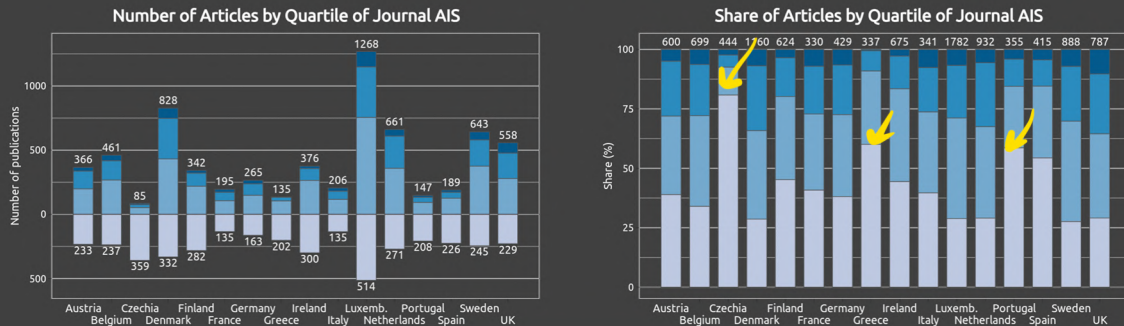
- Exclude author self-citations
- Exclude citations in the author's country

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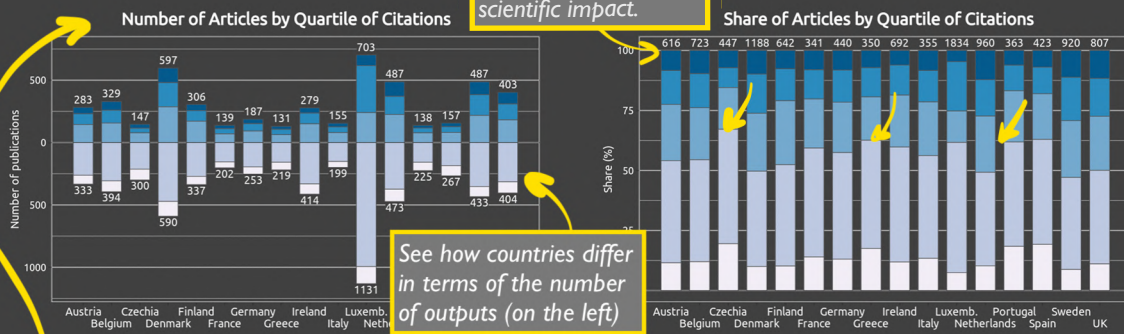
What do the graphs show about the field of Economics?

1) There is an evident correlation between the quantity and quality of outputs - countries with relatively low numbers of publications, such as Czechia, Greece, and Portugal, also exhibit the largest shares of outputs in the bottom half of the impact distribution.

2) There is an evident correlation between three measures of scientific impact - countries with more articles published in Top quartile journals, such as Denmark, Luxembourg, Netherlands, Sweden, and the UK, also attract more citations and exhibit larger shares of citations from Top quartile journals.

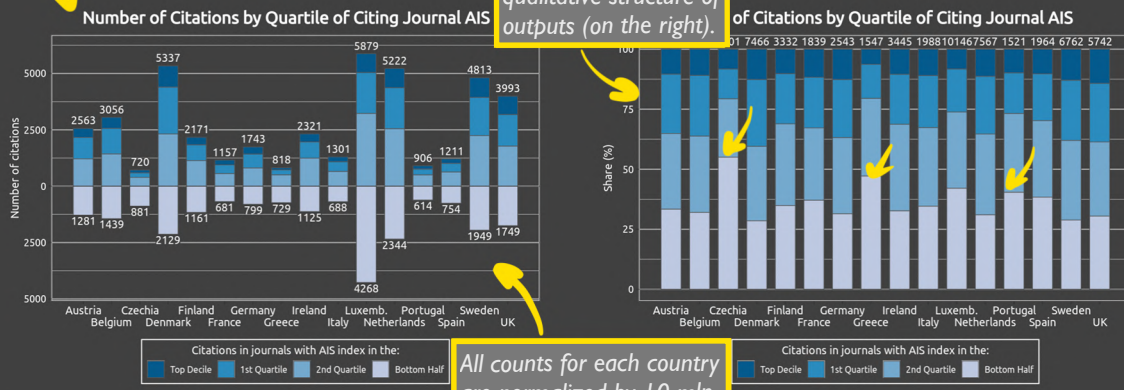


Darker shades indicate higher degrees of scientific impact.



See how countries differ in terms of the number of outputs (on the left)

...or in terms of the qualitative structure of outputs (on the right).



All counts for each country are normalized by 10 mln inhabitants.

Notes:
Top Quartile excludes the Top Decile.
Data includes 2015-2016, publication counts for each country are per 10 million inhabitants.