



SHORT ANALYSIS

Chemically linked authors

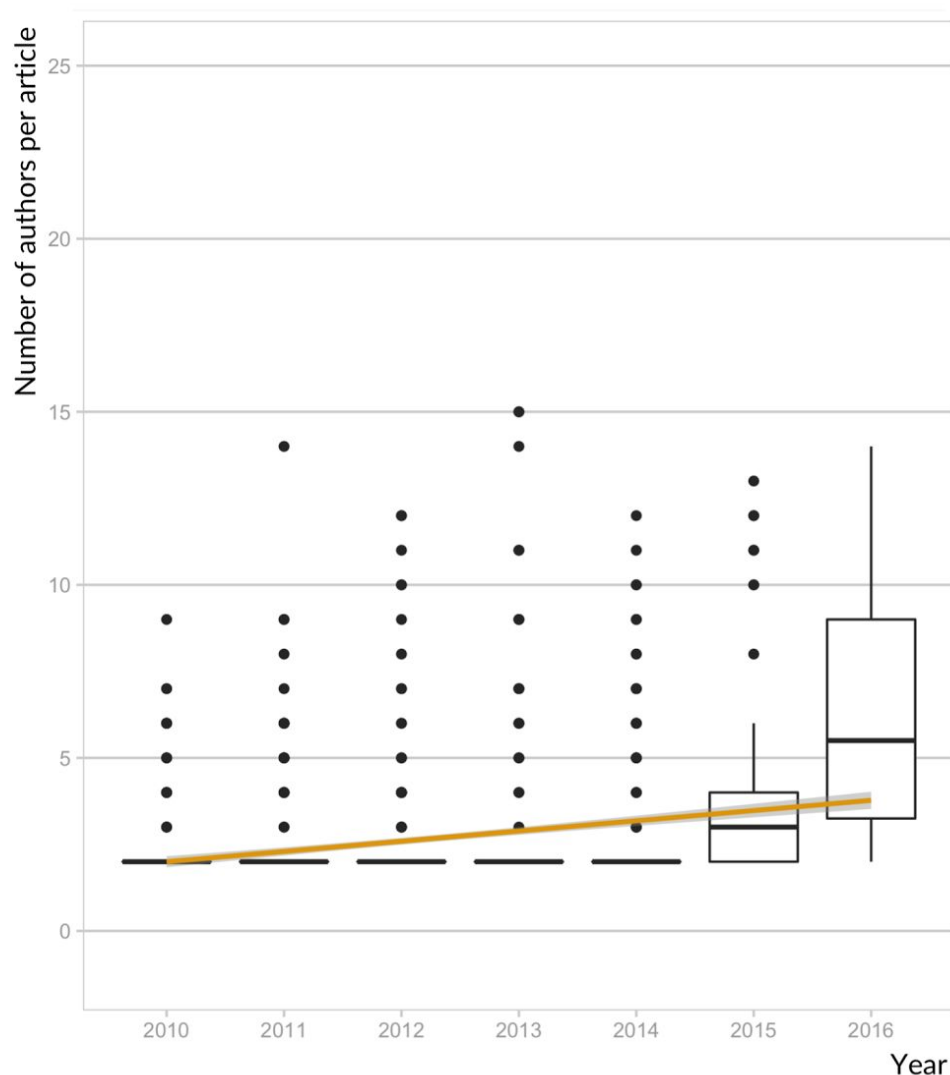
Short title	Chemically linked authors
Long title	Bibliometrics for the Subject Areas Chemical Engineering, Chemistry, as well as Pharmacology, Toxicology, and Pharmaceutics for the 20 Highest Performing Authors
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Description

The number of authors per article in the subject area *Chemical Engineering* is 2.6 on average with a maximum of 15 authors. The mean number of coauthors is increasing by 0.3 per year in the

respective time period (Figure 1). The articles in this analysis ($n = 1303$) were cited 5.9 times on average with a maximum of 112 citations.

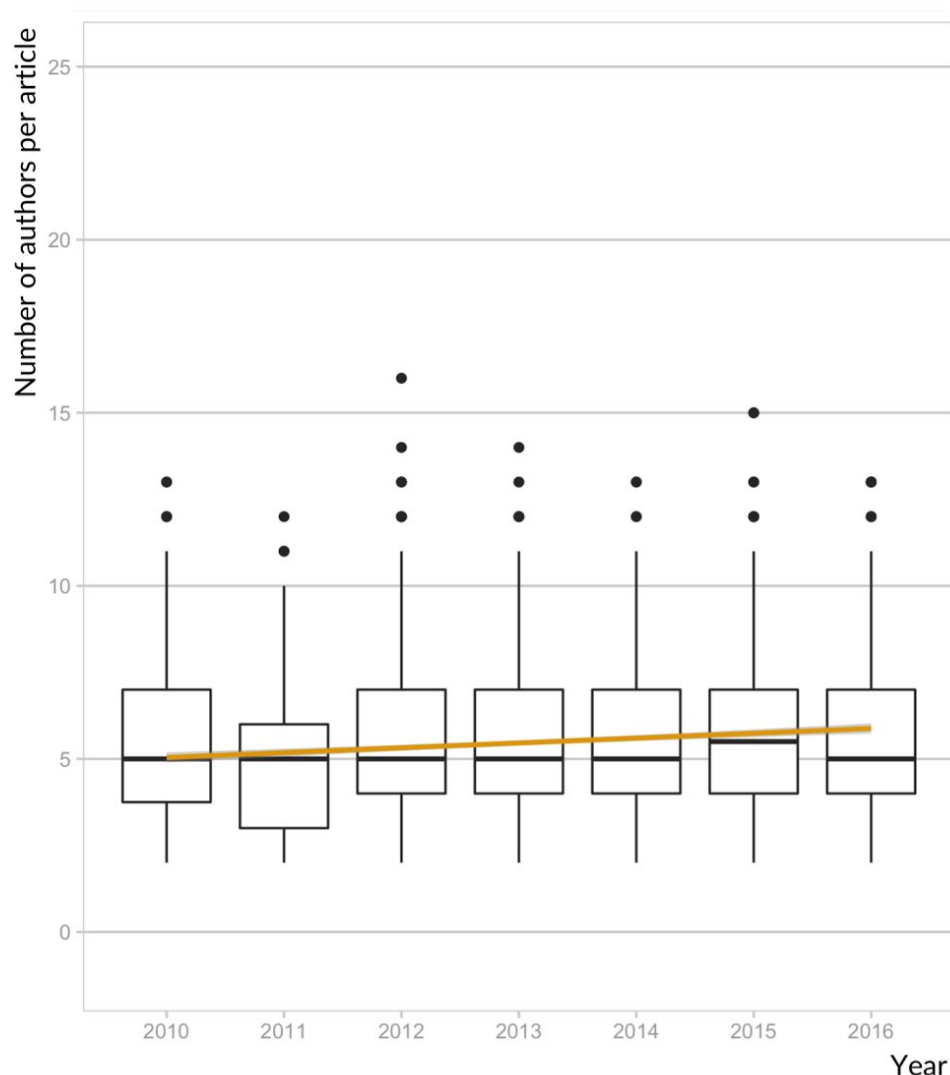
The number of authors per article in the subject area *Chemistry* is 5.5 on average with a maximum of 16 authors (Figure 2). The mean number of coauthors is increasing by 0.1 per year in the respective time period. The articles in this analysis ($n = 3142$) were cited 13 times on average and 562 as maximum.



NUMBER OF AUTHORS PER ARTICLE IN THE SUBJECT AREA CHEMICAL ENGINEERING

Increase of co-authors per year = 0.3
Number of articles = 1303

Figure 1: [Boxplot](#) of the number of authors per paper in the subject area *Chemical Engineering*. The box denotes 25–75% of the values with the median (bold line) in it. The small circles are outliers. Due to a limitation of the y-axis, some outliers might not be visible. The yellow line shows a linear model of the mean number of authors per article with a confidence interval of 0.95 shown in light grey. Data source: Scopus. CC BY 4.0 Schmidt, Fecher, Kobsda.

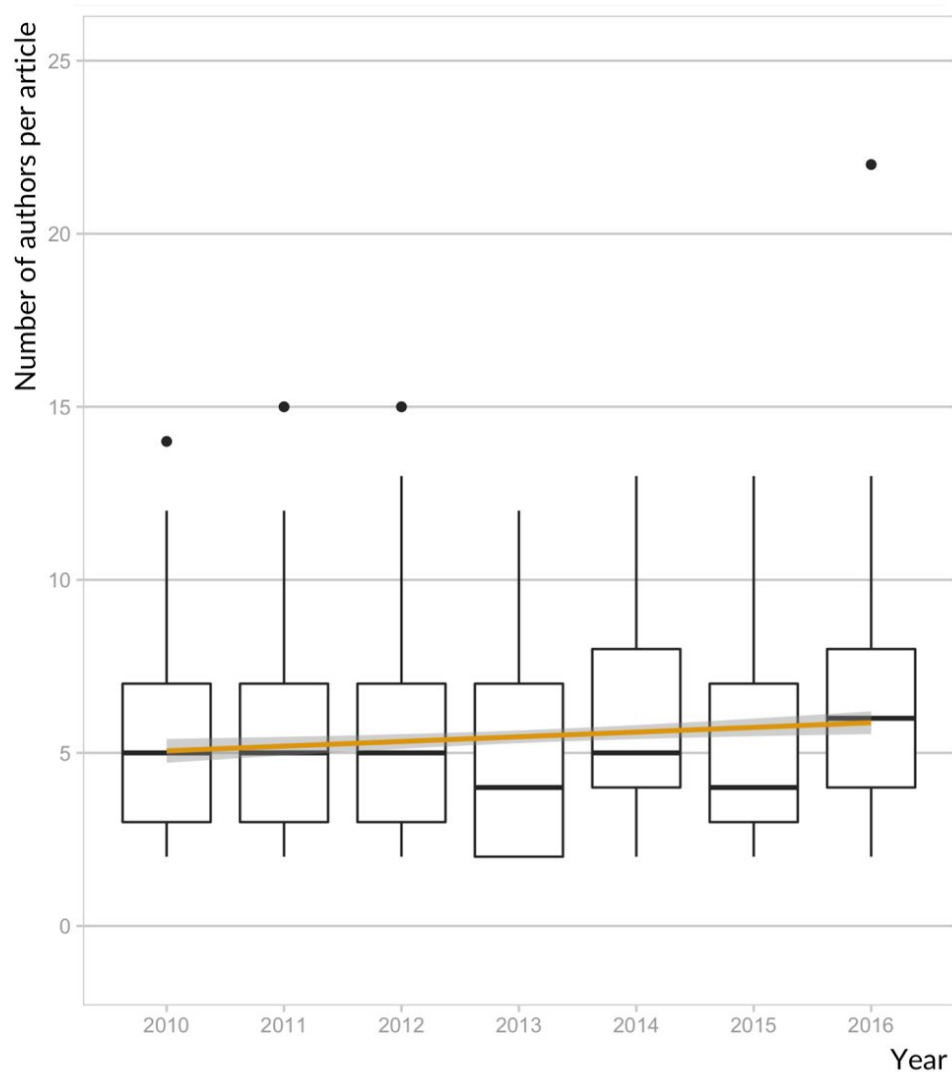


NUMBER OF AUTHORS PER ARTICLE IN THE SUBJECT AREA CHEMISTRY

Increase of co-authors per year = 0.1
Number of articles = 3142

Figure 2: [Boxplot](#) of the number of authors per paper in the subject area *Chemistry*. The box denotes 25–75% of the values with the median (bold line) in it. The small circles are outliers. Due to a limitation of the y-axis, some outliers might not be visible. The yellow line shows a linear model of the mean number of authors per article with a confidence interval of 0.95 shown in light grey. Data source: Scopus. CC BY 4.0 Schmidt, Fecher, Kobsda.

The number of authors per article in the subject area *Pharmacology, Toxicology, and Pharmaceutics* is 5.5 on average with a maximum of 47 authors. The mean number of coauthors is increasing by 0.01 per year in the respective time period (Figure 3). The articles in this analysis ($n = 1165$) were cited 16.8 times on average with a maximum of 526 citations.



NUMBER OF AUTHORS PER ARTICLE IN THE SUBJECT AREA PHARMACOLOGY, TOXICOLOGY, AND PHARMACEUTICS

Increase of co-authors per year = 0.1
Number of articles = 1165

Figure 3: [Boxplot](#) of the number of authors per paper in the subject area *Pharmacology, Toxicology, and Pharmaceutics*. The box denotes 25–75% of the values with the median (bold line) in it. The small circles are outliers. Due to a limitation of the y-axis, some outliers might not be visible. The yellow line shows a linear model of the mean number of authors per article with a confidence interval of 0.95 shown in light grey. Data source: Scopus. CC BY 4.0 Schmidt, Fecher, Kobsda.

Methodology

The results of the Advanced search in Scopus were restricted by an algorithm with

- a time period of publishing (2010 to 2016),
- the document types (articles or reviews),

- and a quantitative limitation regarding the publication output (articles by the 20 highest performing authors with the most Scopus listed articles in every subject area).

For details and code see Schmidt et al. [2017](#).

References

Schmidt, M., Fecher, B., Kobsda, C. (2017). Methodology for the analysis of authors using meta data from Scopus. [*Elephant in the lab*](#). [Link](#).