

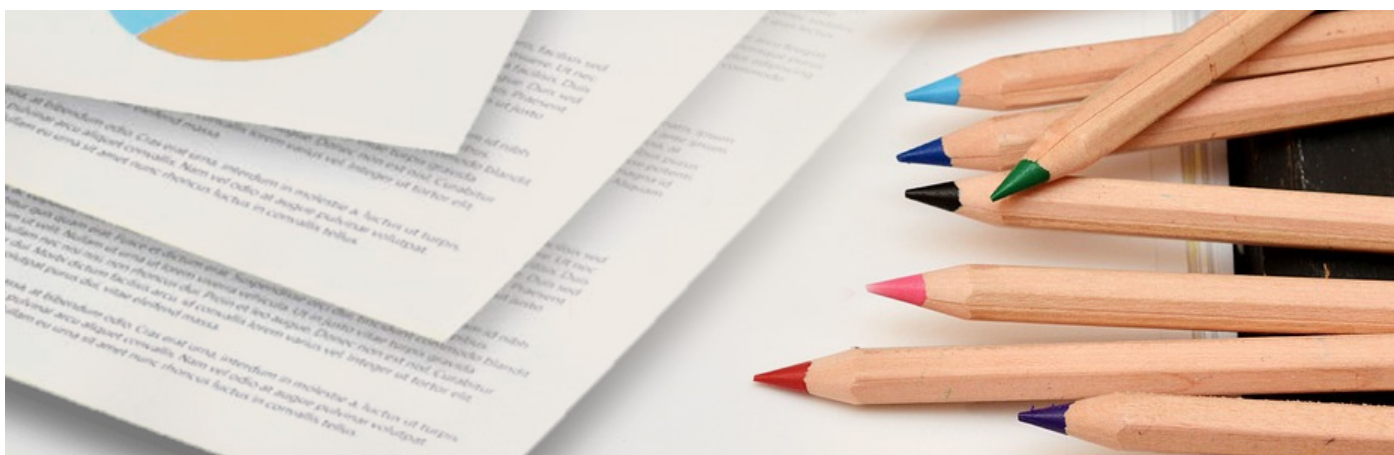
# Does the Length of an Abstract Really Affect the Citation of a Paper?

## Author

Enago Academy

## Post Url

<https://www.enago.com/academy/does-the-length-of-abstract-really-affect-citation-paper/>



In today's scientific landscape, the number of times a study is cited makes considerable difference to the significance of the study and the reputation of authors themselves. The funds and grants given to researchers are distributed/awarded based on their research profile, and the success of one's past research is measured by the quantity and quality of one's citations. Therefore, researchers have begun to explore the most successful strategies for improving [citation metrics](#). Recently, there have been conflicting views on whether the length and content of an abstract affects the number of citations a paper receives.

In the last year itself, two significant papers have quantitatively explored how an abstract's length and writing style affects the number of citations. However, the two papers offered contradictory results. In this blog, we analyze these studies and explore whether abstracts really have an impact on [how often papers are cited](#).

## Do Unique Words and Descriptions Affect Citations?

In April 2015, [PLoS Computational Biology](#) published a study authored by a University of Chicago professor who wanted empirical data to back up the generic writing advice he gave his graduate students. After having conducted many workshops informing

students to keep their abstracts short, simple, and confident, Dr. Allesina decided to test the relationship between ten abstract writing rules and bibliometric realities.

Using one million abstracts from various scientific disciplines, Allesina *et al.* tested the correlation between these rules and citation quantity. Also, in this study, they examined the length of sentences and types of words that were used in comparison to other articles in the same journals.

The results of the study were quite surprising, as they demonstrated, significant correlations between long, redundant, descriptive abstracts, and high numbers of citations, i.e., abstracts with more adjectives, adverbs, unusual words, and “pleasant” words resulted in studies with more subsequent citations. However, larger number of simple, common words, and matching keywords in abstracts correlated with lower citation numbers.

Very few rules met the expected patterns; signaling novelty and importance correlated with strong citation across all disciplines, as was using superlatives to demonstrate boldness.

Based on the analysis, Dr. Allesina was forced to conclude that the rules he had taught to scientific writers that told them to be brief and avoid jargon were in fact harming their chances of a study being cited.

The authors were quick to offer a possible explanation for their findings, suggesting that the use of electronic databases to search for research underpinned their results. The more unique words and description an abstract uses, they argue, the more likely the paper is to appear in a wider range of database searches, and thus it is more likely to be cited. However, a short and simple abstract will appear in a much lower number of keyword searches.

## Keeping it Simple

In August 2015, the [Royal Society](#) published a study authored by [Dr. Letchford](#) of the University of Warwick, UK, which investigated the same question: how does length of abstract impact citation? Dr. Letchford’s focus was on the titles of articles and he concluded that short titles drive higher citations, which is quite obvious; however in 2016, another study by Dr. Letchford, which was published by the [Journal of Infometrics](#), aimed less to explore the applicability of writing advice and more to analyse the flow of online scientific communication, but his methods were similar. Using 200,000 of the most highly cited papers from the Web of Science between 1999 and 2008, Dr. Letchford used word frequency N-diagrams to correlate language use and length with citation numbers.

The results of this analysis were precisely the opposite of Dr. Allesina’s. Letchford *et al.* found a weak but significant statistical correlation between short abstracts that re-use simple words and high numbers of citations; moreover, the shorter the words in the abstract, the lower the chances of citation. In fact, the addition of just one five-letter word to a scientific abstract reduced the chances of citation in this study by 0.02%,

which although does not seem significant, could have an impact.

The same can be said for Dr. Letchford's overall conclusion, which found that doubling the word frequency in an abstract contributed a 0.70% higher chance of citation. The authors offered their own explanation for this result, suggesting that the rules that Dr. Allesina's study appeared to have undermined should in fact be reiterated. There is a need, said Letchford "for scientists to make their work understood" through short, simple, and repetitive language.

## How Should You Write Abstracts?

So, where does this leave scientific researchers who are currently writing their papers? Should their abstracts be short or long? Should they be full of adverbs or simple three-letter words? Should they be highly indexable or easily read?

Currently, the empirical data is mixed mostly because there are so many confounding factors in citations such as impact factors, specific writing conventions, the first language of authors, and journal styles, all of which affect the writing of an abstract and the subsequent citations.

Ultimately, the only factor that will truly impact one's citations is the quality of the research being published. A ground-breaking study will be widely cited no matter how long or short the abstract or how many adjectives are included.

## Cite this article

Enago Academy, Does the Length of an Abstract Really Affect the Citation of a Paper?. Enago Academy. 2016/04/18. <https://www.enago.com/academy/does-the-length-of-abstract-really-affect-citation-paper/>