

Influence of titles of scientific articles on the attention they receive

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January 28, 2019

Hypothesis

Influence of
Scientific
Article Title
Attributes on
the attention
they receive

Hypothesis

Data

Histogram

Trends

Next Steps

- There is a relationship between the attributes of the title and impact of the article, which also depends on the popularity of the journal where it was published.

Data

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- Web of Science
- Scientific papers from 1900 to 2010
- Impact factor - Count of citations the paper has received within 5 years of its publication
- Domain restriction: Applied Physics

Histogram of the Data

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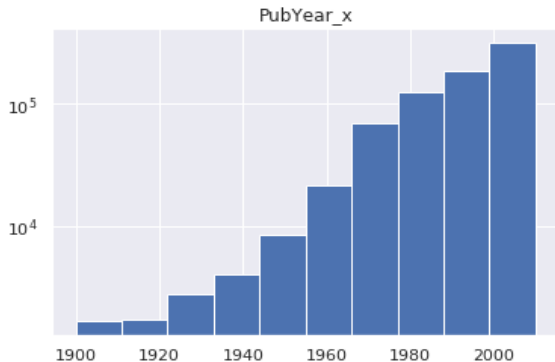
Hypothesis

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log c5 Variations

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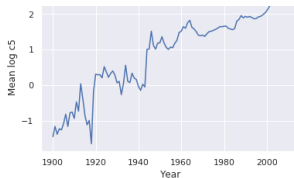


Figure: Average log c5 over the years

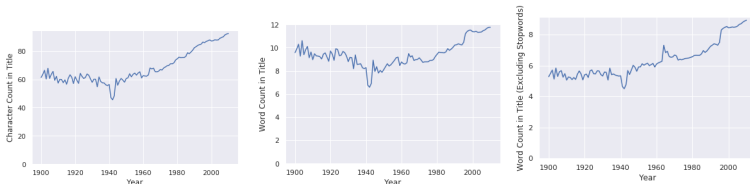


Figure: Variation of average log c5 with length attributes

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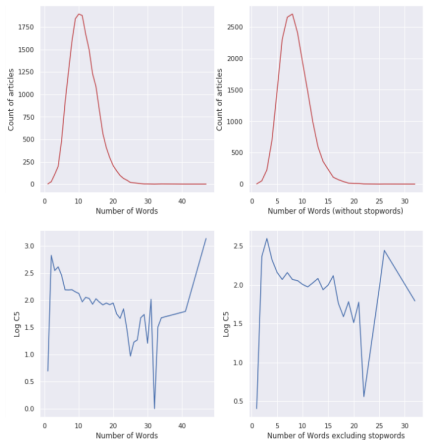


Figure: Variation in the number of publications with changes in number of words in title in 2000

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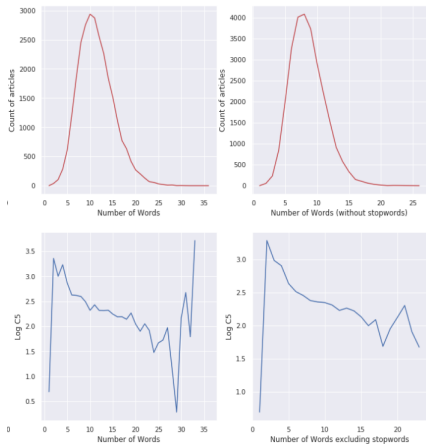


Figure: Variation in the number of publications with changes in number of words in title in 2005

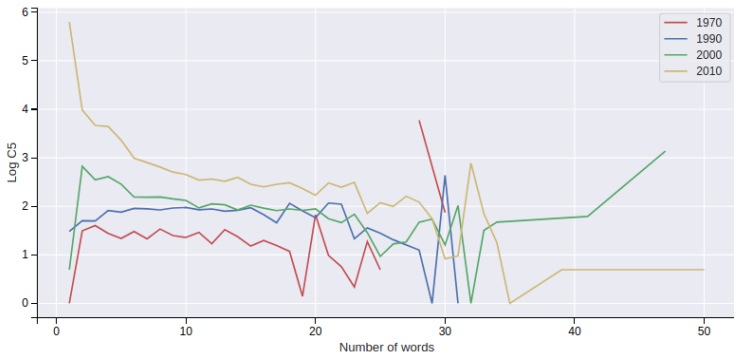


Figure: Variation in log c5 with Word counts for different years

Joint Plots of Distributions

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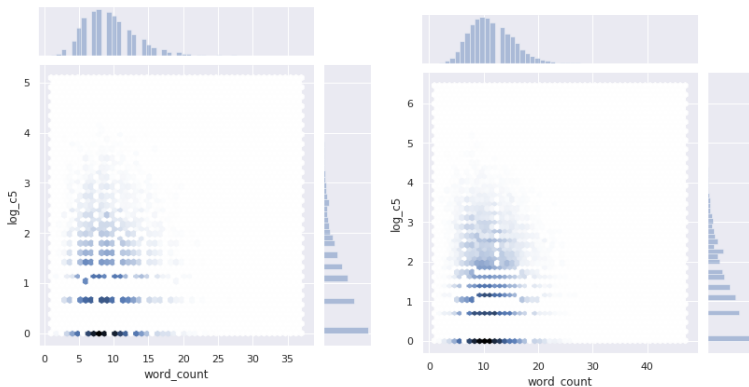


Figure: Distribution of publications with varying word counts and log c5 in 1980 and 2000

Influence of Journals - 90s

Influence of Scientific Article Title Attributes on the attention they receive

Hypothesis

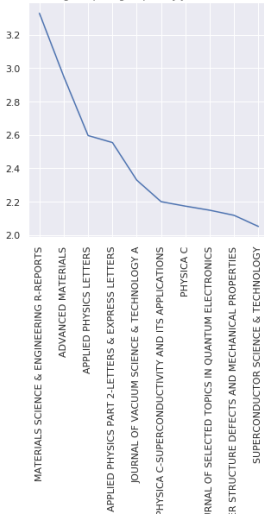
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Average Impact grouped by Journals in 1995



Average Impact grouped by Journals in 1997

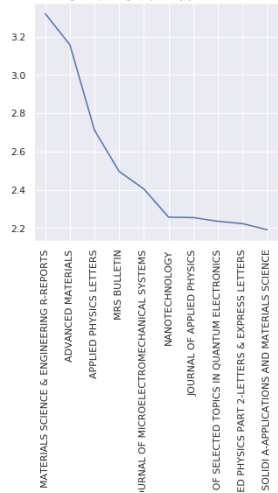


Figure: Variation of average impact with Journal

Influence of Journals - Early 2000s

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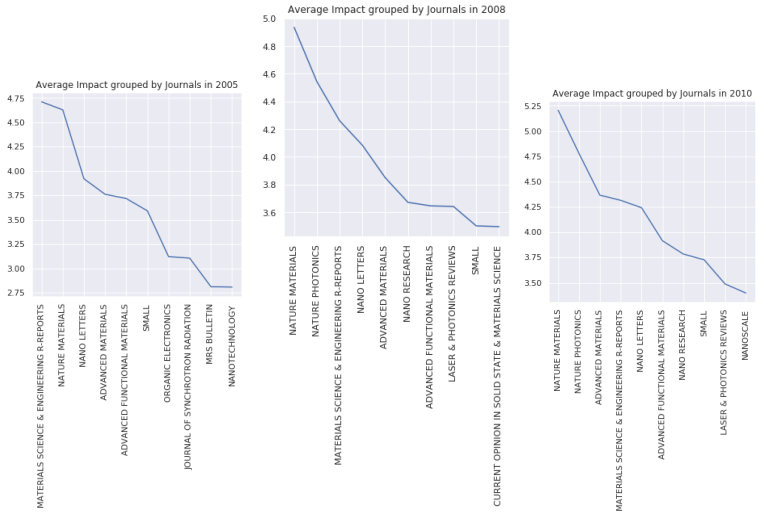


Figure: Variation of average impact with Journal

Journal: Nature Materials

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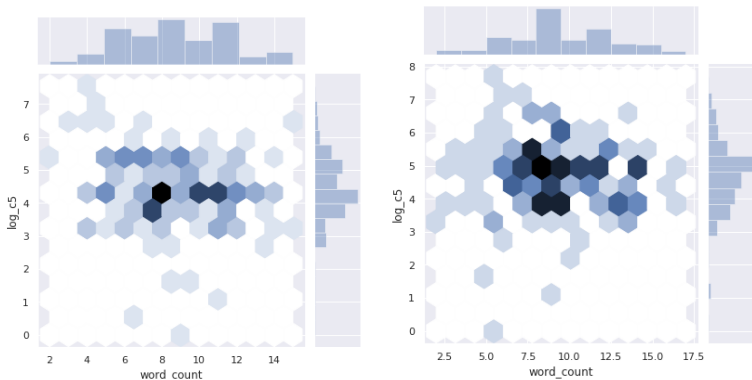


Figure: Variation of log c5 with word count in 2008 and 2010

Journal: Nature Photonics

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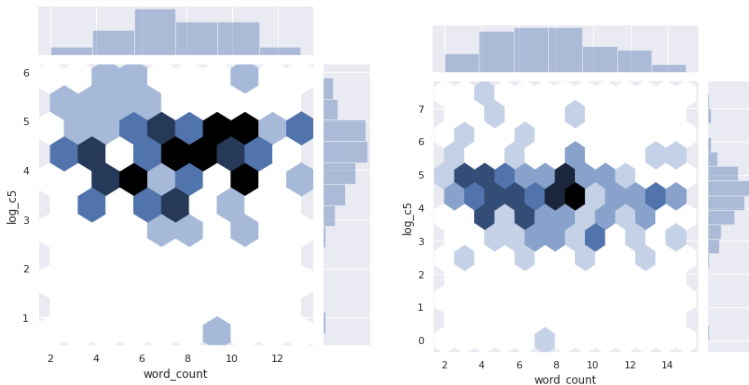


Figure: Variation of log c5 with word count in 2008 and 2010

Journal: Material Science and Engineering R-Reports

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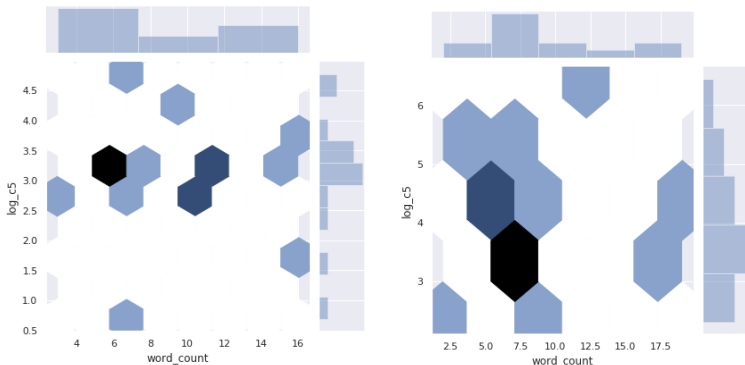


Figure: Variation of log c5 with word count in 1998 and 2000

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- Model the impact as a function of attributes of the title.

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Thank You!