



ILES Nadia, Lecturer



Applied Sciences and Techniques Institute, Oran 1 University

Outline

1- Attraction laws: the whole story

2- Structuring results into scientific writing

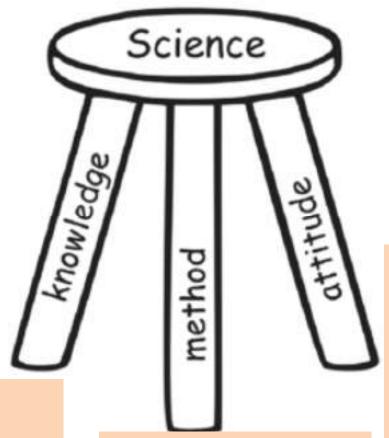
3- The publishing process

1- Attraction laws: the whole story



Start writing a scientific paper, a big challenge!

You need 2 things: science and a language as basic resources

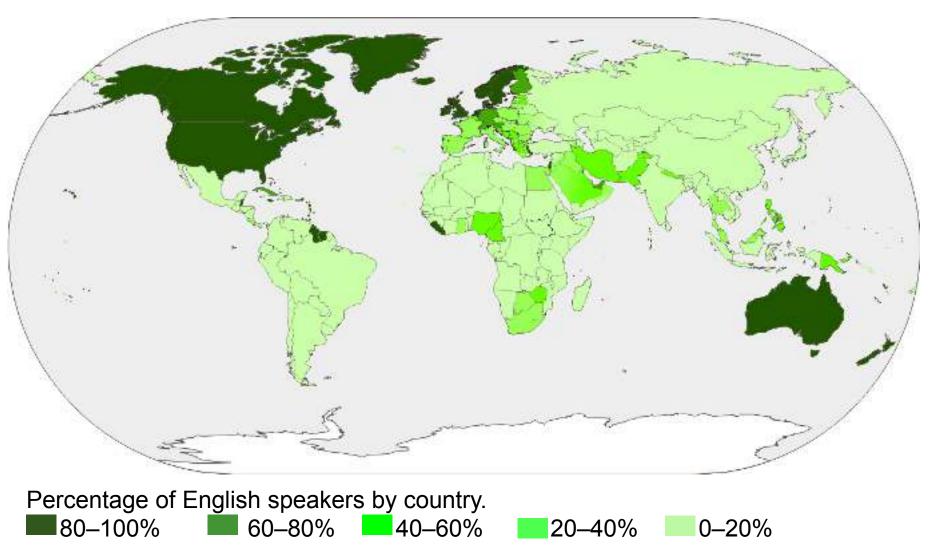


Facts, Data, theories

Evaluating the effectiveness of Theories by comparing predictions to experiment

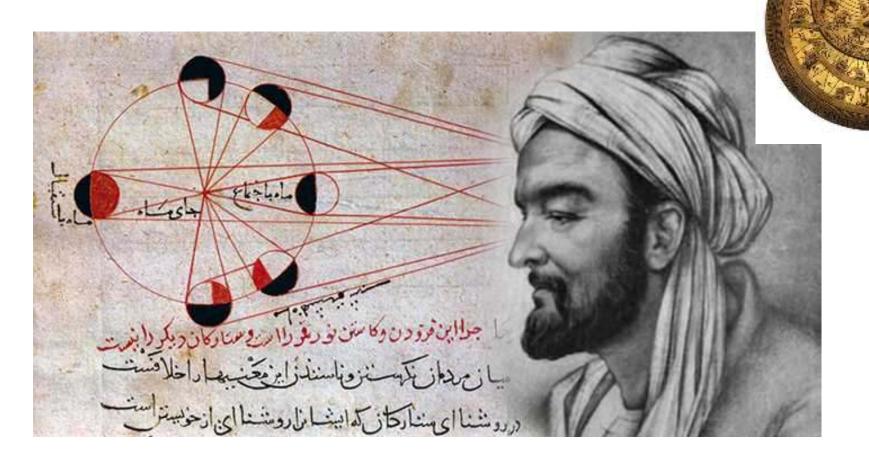
The belief that all scientific knowledge is subject to revision

English is a global language of science



Science and scholars at the arabs golden age

El Beiruni and the story of earth radius calculation:

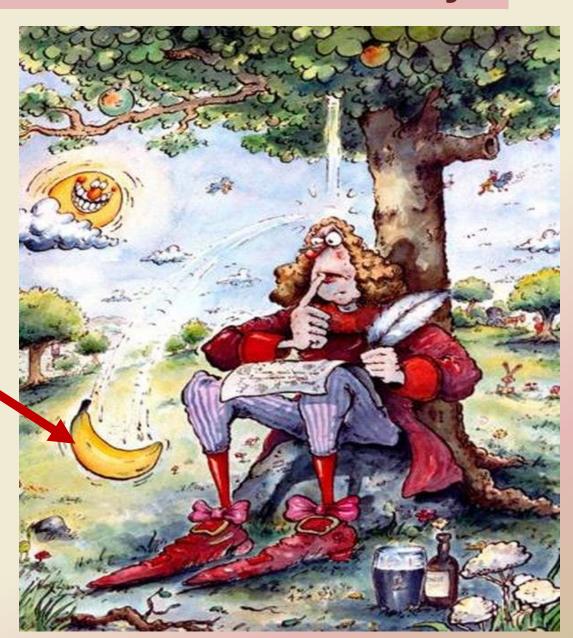


pdf

1- Attraction laws: the whole story

The fall of the banana

$$\Sigma \vec{F} = m \vec{\gamma}$$



Newton I.

Q



Articles

About 3,110,000 results (0.11 sec)

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Sort by relevance

Sort by date

✓ include patents
✓ include citations

Create alert

теооку The mathematical papers of Isaac Newton

1 Newton - 2008 - books.google.com

pooky Newton: philosophical writings

I Newton - 2014 - books.google.com

Sir Isaac Newton (1642-1727) left a voluminous legacy of writings. Despite his influence on the early modern period, his correspondence, manuscripts, and publications in natural philosophy remain scattered throughout many disparate editions. In this volume, Newton's ...

A letter of Mr. Isaac **Newton**, professor of the mathematicks in the University of Cambridge; containing his new theory about light and colors: Sent by the Author to the ...

I Newton - ... Transactions of the Royal Society of London, 2014 - royalsocietypublishing.org
Sit, To perform my late promise to you, I shall without further ceremony acquaint you, that in
the beginning of the Year 1666 (at which time I applyed my self to the grinding of Optick
glasses of other figures than Spherical.) I procured me a Triangular glass-Prisme, to try ...
\$\forall PV\$ Cited by 300 Related articles. All 8 versions

BOOK! Correspondence of sir Isaac **Newton** and professor Cotes:

I Newton, J Edleston, R Cope - 2014 - content taylorfrancis.com

N ew ton's Philosophies Naturalis Principia Mathematica, the most remarkable production of the human intel lect that has yet been seen on the earth, whose mysterious path through space was first explained in its pages, was published about the middle of the year 1687, a ...

© 99 Cited by 74 Related articles All 4 versions

XMM-Newton observatory-I. The spacecraft and operations

F Jansen, D Lumb, <u>B Altieri</u>, J Clavel, M Ehle... - Astronomy & ..., 2001 - sanda.org
The XMM-Newton Observatory is a corneratone mission of the European Space Agency's
Horizon 2000 programme, and is the largest scientific satellite it has launched to date. This
paper summarises the principal characteristics of the Observatory which are pertinent to ...

\$\forall \mathred{PD}\$ Cited by 1742. Related articles. All 4 versions

(CITATION) Population ecology of raptors

I Newton - 2010 - A&C Black

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твоок Isaac Newton: eighteenth century perspectives

AR Hall, I Newton - 1999 - books google.com

For the first time, the early eighteenth century biographical notices of Sir Isaac Newton have been compiled into one convenient volume. Eminent Newtonian scholar Rupert Hall brings together the five biographies on Newton from this period and includes commentary on each ... [PDF] wikimedia.org

IPPR aanda.org

1- Attraction laws: the whole story

A letter of Mr. Isaac Newton, professor of the mathematicks in the University of Cambridge; containing his new theory about light and colors: Sent by the Author to the ...

I Newton - ... Transactions of the Royal Society of London, 2014 - royalsocietypublishing.org Sir, To perform my late promise to you, I shall without further ceremony acquaint you, that in the beginning of the Year 1666 (at which time I applyed my self to the grinding of Optick glasses of other figures than Spherical,) I procured me a Triangular glass-Prisme, to try ...

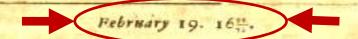


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Colours.

PHILOSOPHICAL TRANSACTIONS.



The CONTENTS.

A Letter of Mr. Ilaac Newton, Mathematick Professor in the University of Cambridge; containing his New Theory about Light and Colors : Where Light is deslared to be not Similar or Homogeneal . but confilting of difform rays, some of which are more refrancible than others : And Colors are offirm'd to be not Qualifications of Light, deriv'd from Refractions of natural Bodies, (as'tis generally believed;) but Original and Connate properties, which in divers rays are divers : Where Jeveral Observations and Experiments are alledged to prove the faid Theory. An Accompt of some Books : I. A Description of the EAST-INDIAN COASTS, MALABAR, CORUMANDEL, CETLON, &c. in Dutch, by Phil. Baldaus, 11. Antonii le Grand INSTITUTIO PHILOSOPHIA, lecundum principia Renati Des-Cartes; nova methodo adornata & explicata. III. An Effay to the Advancement of MUSICK; by Thomas Salmon Al. A. Advertisement about Theon Smyrnaus. An Index for the Trade of the Year 1671.

SIR,

O perform my late promise to you, I shall without further ceremony acquaint you, that in the beginning of the Year 1666 (at which time I applyed my self to the grinding of Optick glasses of other sigures than Spherical,) I procured me a Triangular glass-Prisme, to try therewith the celebrated Phanomena of

A Letter of Mr. Isaac Newton, Professor of the Mathematicks in the University of Cambridge; containing his New Theory about Light and Colors: sent by the Author to the Publisher from Cambridge, Febr. 6. 1623; in order to be communicated to the R. Society.

Red, be intercepted, on defign to try the afferted impossibility of reproducing that Colour out of the others which are pretermitted; 'tis necessary, either that the colours be very well parted before the red be intercepted, or that together with the red the neighbouring colours, into which any red is secretly dispersed, (that is, the yellow, and perhaps green too) be intercepted, or else, that allowance be made for the emerging of so much red out of the yellow green, as may possibly have been disfused, and seatteringly blended in those colours. And if these things be observed, the new Production of Red, or any intercepted colours will be found impossible.

This, I conceive, is enough for an Introduction to Experiments of this kind; which if any of the R. Society shall be so curious as to prosecute, I should be very glad to be informed with what success: That, if any thing seem to be defective, or to thwart this relation, I may have an opportunity of giving surther direction about it, or

of acknowledging my errors, if I have committed any.

So far this Learned and very Ingenious Letter; which having been by that Illustrious Company, before whom it was read, with much applause committed to the consideration of some of their Pellows, well versed in this argument, the Reader may possibly in an other Trast be informed of some report given in upon this Diffeourse.

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PHILOSOPHICAL TRANSACTIONS

Philosophical Transactions is the world's first and longest-running scientific journal. It was launched in March 1665 by Henry Oldenburg (c.1619-1677), the Society's first Secretary, who acted as publisher and editor. Current issue.

Editor-In-Chief

ISSN (Online): 2053-9223 ISSN (Print): 0261-0523

Latest articles from Philosophical Transactions A and B

4 March 2019

A review on computational modelling of phase-transition problems

Hector Gomez, Miguel Bures and Adrian Moure 4 March 2019

Diffusionless (chemically partitionless) crystallization and subsequent ...

Olga V. Gusakova, Peter K. Galenko, Vasiliy G. Shepelevich. ... 4 March 2019

Thermodynamics of rapid solidification and crystal growth kinetics in glass-forming alloys

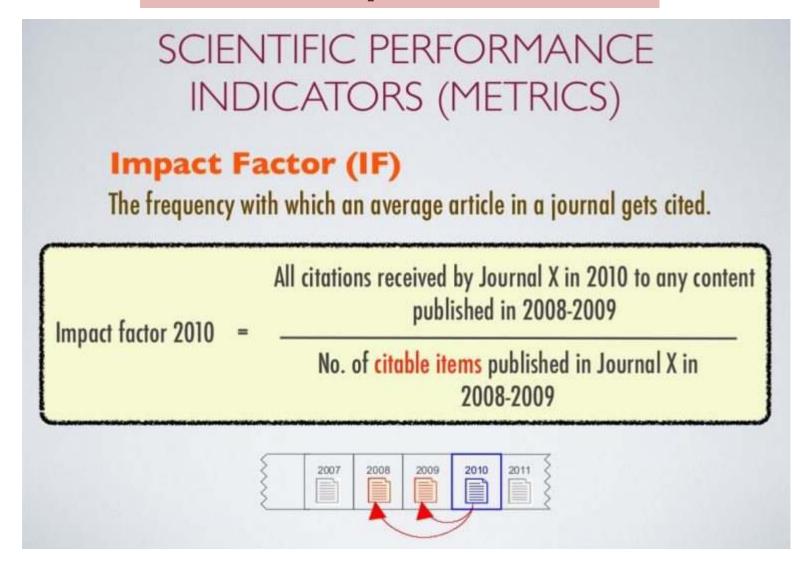
P. K. Galenko, V. Ankudinov, K. Reuther, M. Rettenmeyr, A. Salhoumi and ... 4 March 2019

Thermal dependence of large-scale freckle defect formation

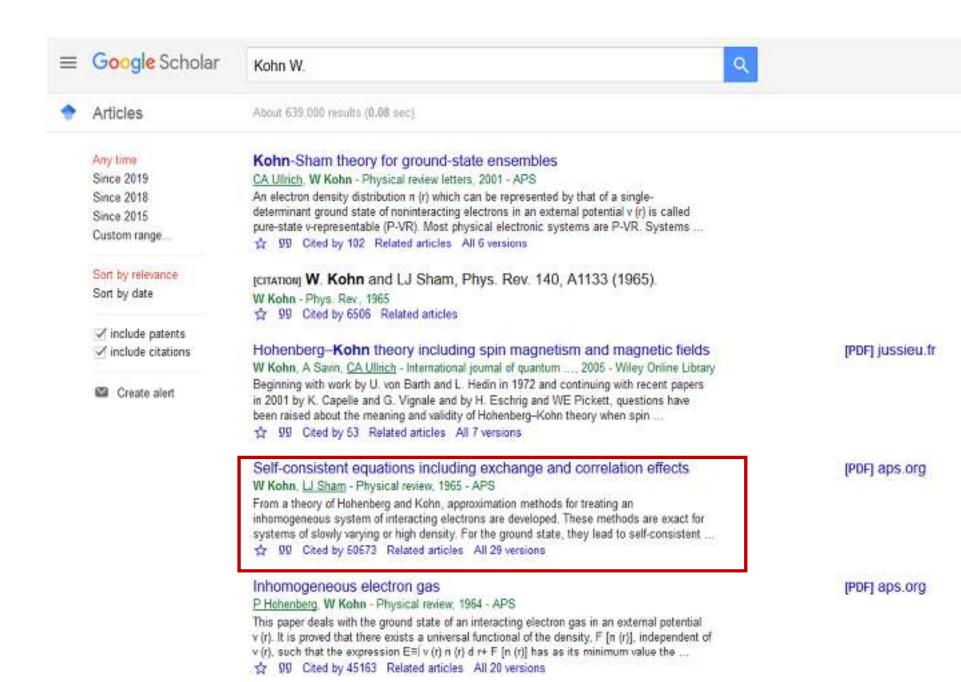
A. Kao, N. Stevchenko, M. Alexandrakis, I. Krastins, ...

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Journal Impact Factor IF



Philosophical Transactions of the Royal Society B/ 2017 Impact factor: IF= 5.666



Motion of electrons and holes in perturbed periodic fields

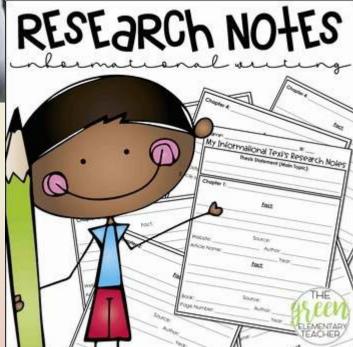
JM Luttinger, W Kohn - Physical Review, 1955 - APS

A new method of developing an" effective-mass" equation for electrons moving in a

[PDF] uni-paderborn.de

Produce a minimum Publishable unit

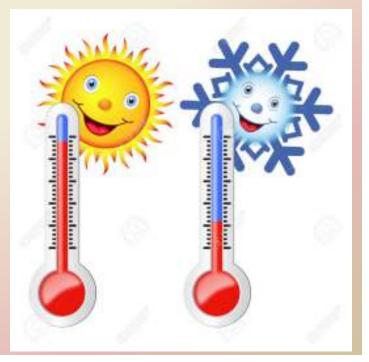




Original results:

When preparing an orginal research paper for publication ensure that you are providing the basic ingredients to constitute what the journal will consider a publishable article!

Not specified by the journal!

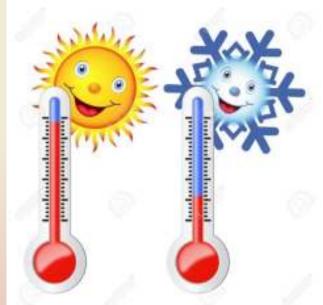


Ask your self first:

- Have I done something new and interesting ?
- Is there any chalenging in my work?
- Is my work related directly to a

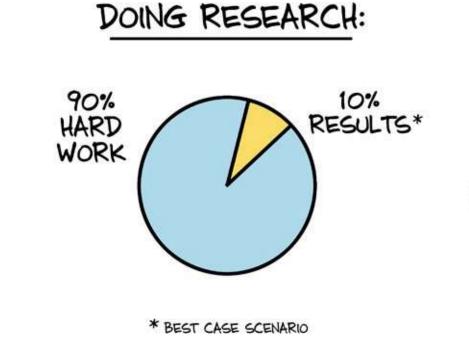
current hot topic?

Have I provided solutions to some

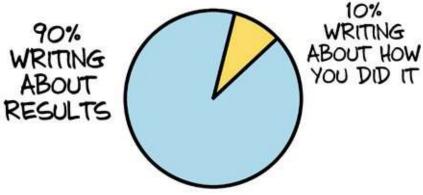


difficult problem ?Then ask your superviser:

Be patient!



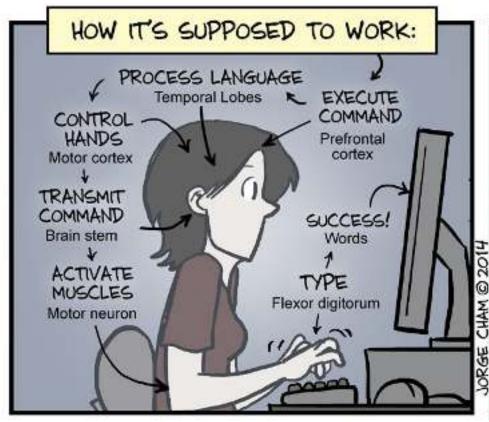
WRITING ABOUT RESEARCH:



WWW. PHDCOMICS. COM

JORGE CHAM @ 2016

The neurobiology of writing





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Choose the length: Types of articles

- Letters and rapid communications: quick communication of significant or original advances, without including too much data or details.
- Review paper: summarize recent development on a specific topic, without introducing new data
- Full article: contain significant data detail, development and outcomes
- Research elements: publish research output, such as data, software, methods, videos and much more citable articles

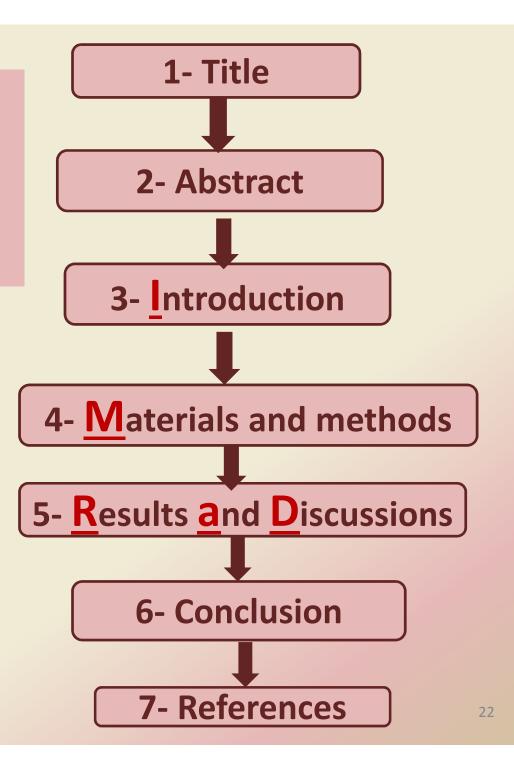
Choose a target journal

Thomson journals list: Category 22 scopus fields

https://www.researchgate.net/publication/330545462 Thomson Reuters This master journal list

https://www.researchgate.net/publication/333238363 Latest Impact Factors Journal List Thomson Reuters based on 2019 Journal Citation Reports

Writing Process:
IMRaD



Components of a paper

1- Title :

Should be short and gives a general idea of the paper contents

2-Abstract:

- -Number of words : $150 \rightarrow 300$
- Must provide a complete summary including: problem to be solved, the approach to the problem, the major findings and short conclusion

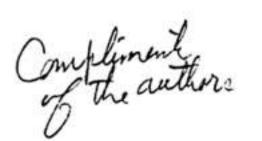
abstract writing: Filling the gaps

Abstract MadLibs!!

This paper p	resents a	method for (sciencey verb)		
	(synony	m for new)	(sciencey verb)	
the		Using	, the	
			, the	
(property)	was measure	ed to be	mber) +/- (number)	
(units)	lesults show _	(sexy adjective	agreement with	
theoretical p	redictions and	significant	improvement over	
here has p	rofound impli and may o	ications for	The work presented future studies of solve the problem of	
(buzzword)				
	(supreme soo	ciological conce	m)	
Keywords: _				
	(buzzword)	(buzzword)	(buzzword)	

abstract example

4. W. betherington





VOLUME 35, NUMBER 21

PHYSICAL REVIEW LETTERS

24 NOVEMBER 1975

Two-, Three-, and Four-Atom Exchange Effects in bcc 3 He

J. H. Hetherington and F. D. C. Willard

Physics Department, Michigan State University, East Lansing, Michigan 48824

(Received 22 September 1975)

We have made mean-field calculations with a Hamiltonian obtained from two-, three-, and four-atom exchange in bcc solid ³He. We are able to fit the high-temperature experiments as well as the phase diagram of Kummer et al. at low temperatures. We find two kinds of antiferromagnetic phases as suggested by Kummer's experiments.

Components of a paper

3- Introduction:

What did you/others do? Why did you do it

- Description of the problem
- Review of relevant literature on the subject: "State of art"
- -Potential solutions to the problem briefly
- Structure or roadmap for the next parts of the paper

2- Components of a paper

3- Materials and methods:

How did you do it? Information on how to accomplish the objective (theories, hypotheses, techniques, experiments, ...).

4- Results and discussions:

What did you do find?

- -Results: Images, figures, tables....
- Explanation and discussion of figures, tables, ... without concluding remarks.

2- Components of a paper

5- Conclusion: should discuss the main results

6- References:

- Bibliography of cited papers carefully referenced in the text of your paper.

7- Sometimes:

- Acknowledgement, Appendices.

Acknowledgement sample

Acknowledgments

The authors wish to thank coffee, coff

AN HONEST ACKNOWLEDGMENT SECTION

JORGE CHAM © 2015

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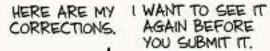
Piece of advice for writing a SP

4 C rule:

when preparing to write your paper, try to be: Correct, Clear, Consistent, and Concise

Add to this:

- Have a well defined objective
- Be self-contained
- Be understandable
- Be informative
- Add to our understanding of the state of art

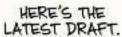






MAKES CORRECTIONS

THE ENDLESS CYCLE?





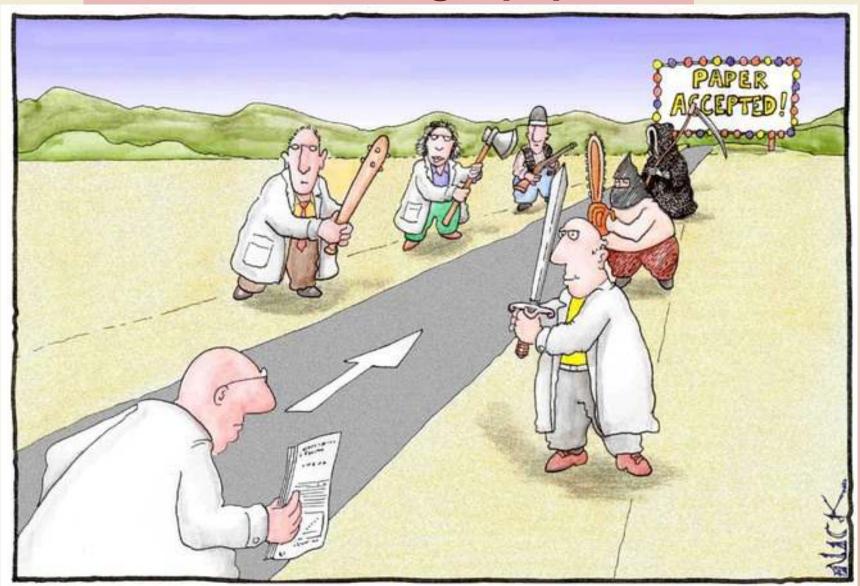


MAKES EDITS

JORGE CHAM @ 2017

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What after writing a paper?



3- Publishing process

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 Not for free!

- Check the references.
- Download and read the guide for authors:
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- Ethics

3- Publishing process

Reviewers consider the following:

- 1) the importance, timeliness, relevance, and prevalence of the problem addressed
- 2) the quality of the writing style (i.e., that it is well-written, clear, straightforward, easy to follow, and logical)
- 3) the study design applied (i.e., that the design was appropriate, rigorous, and comprehensive)
- 4) the degree to which the literature review was thoughtful, focused, and up-to-date
- 5) the use of a sufficiently large sample.

3- Publishing process

- Prepare a cover letter
- Create an account in the journal web site
- Submit your manuscript: filling information (authors, affiliation, potential referees or reviewers, upload manuscript file, compile)

3-Publishing process

- Track your submitted paper
- After acceptance: article in press, proofing, offprints
- Copyright



Journal of Second Language Writing

JOURNAL OF SECOND LANGUAGE WRITING

journal homepage: www.elsevier.com/locate/seclan

Author's editor revisions to manuscripts published in international journals



John Flowerdew, Simon Ho Wang*

City University of Hong Kong, Department of English, 83 Tat Chee Avenue, Kowloon, Hong Kong, PR China

ARTICLE INFO

Article history: Received 30 June 2015 Received in revised form 23 March 2016 Accepted 29 March 2016 Available online xxx

Keywords: Writing for publication Proofreading Revision Scientific editing

ABSTRACT

English as Additional Language (EAL) scholarly writers have to overcome numerous obstacles to meet the expectations of editors and peer reviewers before they can publish their research articles in international journals published in English. A number of shapers (Burrough-Boenisch, 2003) are often involved in revising such articles before their eventual publication. This study focuses on the revision changes made by an author's editor to a corpus of such articles leading up to their eventual publication. Based on textual analysis of the early drafts and published manuscripts of 15 SCI-indexed journal articles by Chinese doctoral students, a double-entry coding scheme was developed to describe 5160 revision changes made to the manuscripts, in terms of five types of revision, i.e., substitution, correction, addition, deletion, and rearrangement, and four different lexico-grammatical levels, i.e., morpheme, word, group and clause/clause complex. With the exception of correction, a category which applies to surface-level errors (which do not affect meaning), and is the second most frequent category of changes, all of the other categories represent changes which often substantially alter the meanings of the texts and which involve negotiation between the editor and the writer. The theoretical and pedagogical implications of the findings are discussed with reference to previous studies focusing on revision changes and to debates concerning English as a Lingua Franca franca and World Englishes.

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Journée Des Doctorants

Campus Taleb Mourad (ex IGMO) Le 23-01-2020 A l'Auditorium B. Talahit

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Le tableau périodique en fete 29-30 Octobre 2019





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