

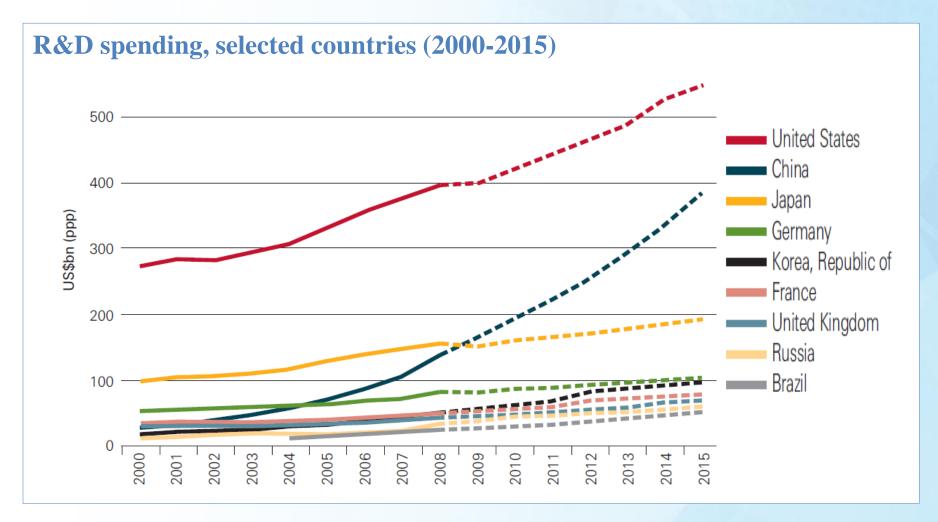
Can pre-submission editing services help expedite peer review of research manuscripts?

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2nd Asian Science Editors' Conference and Workshop 2015

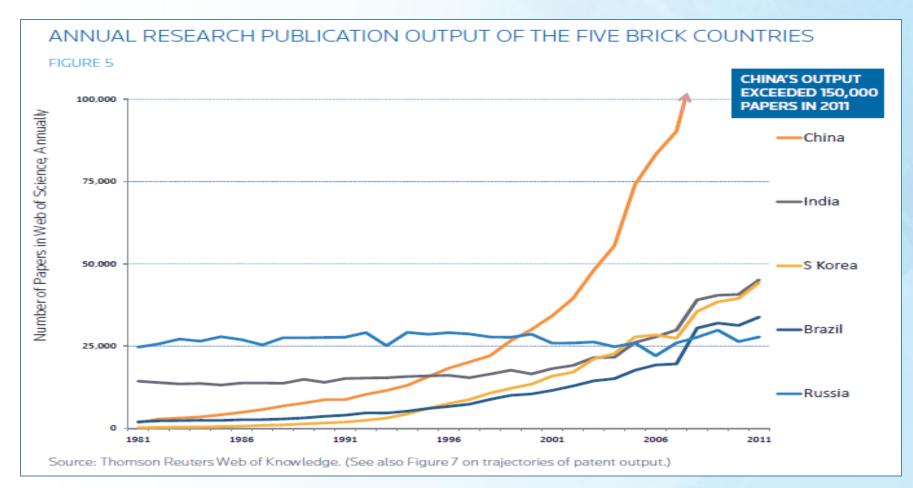
Increasing global expenditure on R&D



From Knowledge, Networks, and Nations, Royal Society of London, 2011



Increasing research output from non-English speaking countries



From J. Adams, D. Pendlebury, B. Stembridge, *Building Bricks: Exploring the Global Research and Innovation Impact of Brazil, Russia, India, China, and South Korea*, Thomson Reuters, 2013



Why is peer review so slow?

Difficulty identifying peer reviewers

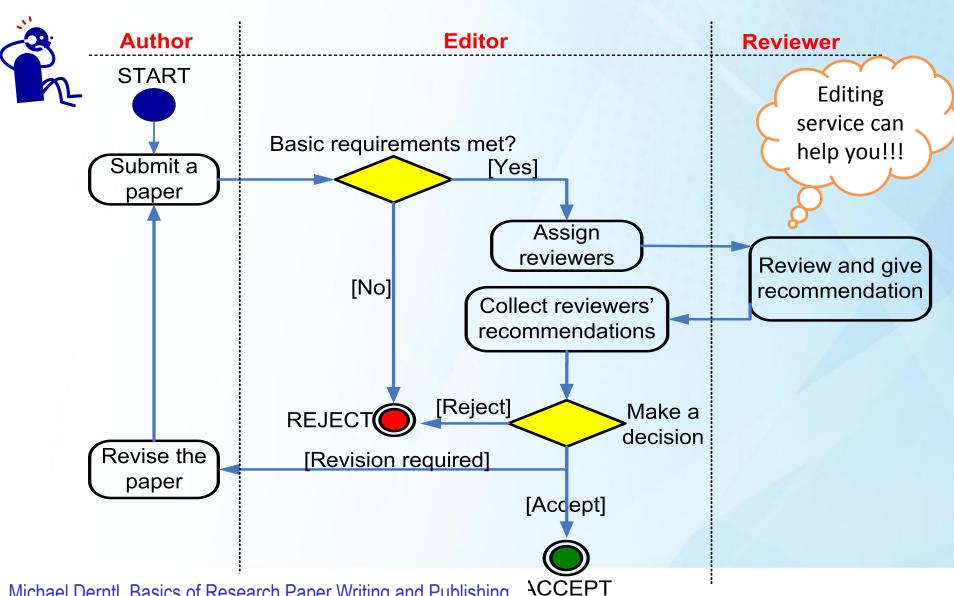
 Difficulty in getting peer reviewers to agree and respond on time

 Reviewers spending too much time commenting on basic language and presentation issues in manuscripts?





A General Peer-Review Process



Michael Derntl. Basics of Research Paper Writing and Publishing. http://www.pri.univie.ac.at/~derntl/papers/meth-se.pdf

Can pre-submission editing reduce the burden on peer-reviewers?

 Are there any specific errors peer reviewers most frequently point out in manuscripts of non-native-English-speaking (NNES) authors?

 Can these errors be fixed before journal submission through editing services?



Analysis of 'Editage' Editing Service: Study design and methods

We analyzed 1035 peer reviewer comments in 72 manuscripts written by NNES authors

All sampled manuscripts

- Were original research articles
- Were sent to Editage, Cactus Communications—a company that offers English editing and publication support services—after receiving peer reviewer comments from the journal.

The following comments were excluded (n = 560):

- Those pertaining to study design
- Those indicating basic oversights or typographical errors
- Those seeking clarification
- Those expressing the reviewer's subjective opinion
- Those where the reviewer's rationale was not clear



The remaining comments related to study reporting (n = 475) were classified according to the error category and manuscript section.

Error categories

- Inappropriate title
- Inadequate literature review
- Inaccurate reporting
- Incomplete reporting
- Inconsistent reporting
- Unclear reporting
- Redundancy and wordiness
- Structural organization
- Inadequate discussion
- Stylistic conventions
- Grammar and writing
- quality

Manuscript sections

- Title
- Abstract
- Introduction
- Methods

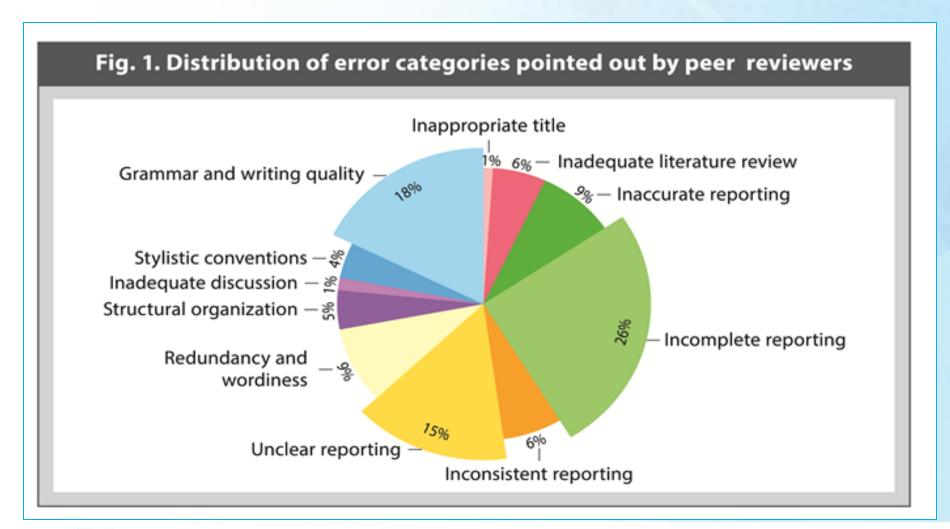
- Results
- Discussion
- Figures and tables
- References



The correlation between specific error categories and manuscript sections was analyzed using Spearman rank correlation analysis, with significance set at p < 0.05.

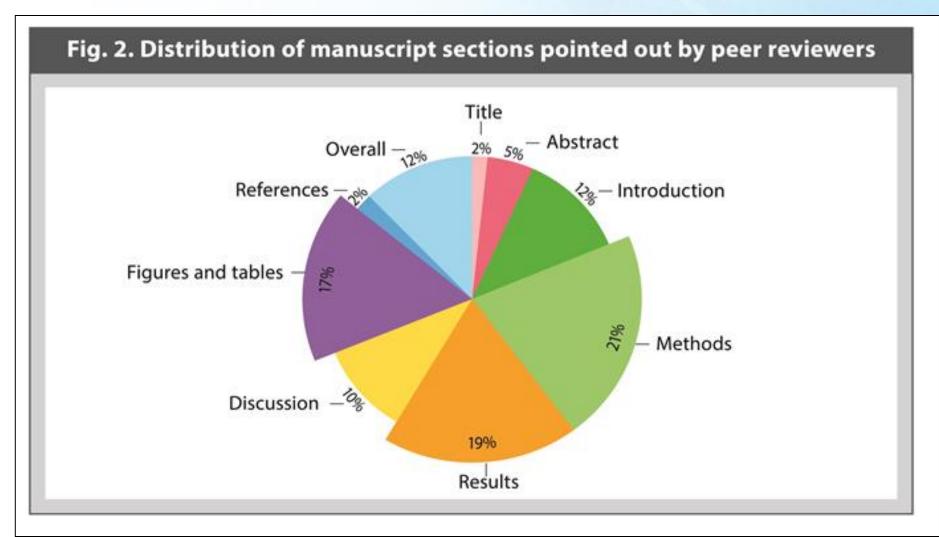


Editage's case analysis: Research results 1/3 – Error Categories





Editage's case analysis: Research results 2/3 - Manuscript





Editage's case analysis: Research results 3/3

Figure 3. Correlation between error categories and manuscript sections

Error category	Title	Abstract	Introduction	Methods	Results	Discussion	Figures & tables	References	Overall	Total
Inappropriate title	5*									5
Inadequate literature review			15*	1	1	3		4	4	28
Inaccurate reporting	1	4	7	5	8	2	4	2	8	41
Incomplete reporting		9	10	33	22	6	38*		4	122
Inconsistent reporting		1	1	2	5	3	10*	2	7	31
Unclear reporting		3	7	24*	21*	5	10		2	72
Redundancy and wordiness			7	8	10	5	13*		3	43
Structural organization				2	8*	7*			5	22
Inadequate discussion						7*				7
Stylistic conventions		1	1	3	2		3	1	9*	20
Grammar and writing quality	2	6	12	22	12	11	3		16*	84
Total	8	24	57	100	89	49	81	9	58	475

Note: Numbers indicate the number of comments; asterisks indicate significance at p < 0.05.



Common issues reported by peer reviewers

- Vague/inadequate method description
- Poor organization
- Too long and verbose
- Failure to communicate clearly
- Poor grammar, syntax, or spelling
- Poorly written abstract
- Repetition of text in the results and tables

All these can be fixed by editing services before submission to a journal!



Conclusions

- In addition to improving the overall grammar and writing quality of manuscripts, editing services should focus on reducing the following errors:
 - ✓ Incomplete reporting, inconsistent reporting, and redundancy in figures and tables
 - ✓ Unclear reporting in the methods and results
 - ✓ Structural organization in the results and discussion
- Thus, editing services can substantially improve manuscripts before journal submission
- This will allow peer reviewers to focus on study design and novelty instead of basic language and presentation
- This will reduce the burden on peer reviewers and may help expedite the peer review process

