

How an analysis of reviewers' reports can enhance the quality of submissions to a journal of education

Philip C van der Westhuizen, J L van der Walt and C C Wolhuter
philip.vanderwesthuizen@nwu.ac.za

Not only has the number of scholarly journals worldwide increased substantially in recent years but also the number of articles published in them. However, closer examination reveals that the percentage of articles actually published has remained in the region of 25%. This implies that much of researchers' time and energy has been wasted because of failure to have their research findings published. This has been occurring despite the availability of a surfeit of publications on the theme of 'How to write and publish a scientific article'. Analysis of the process of article writing and publishing reveals that it consists of four phases: writing and submitting an article, processes followed by the editor, actual review process by the reviewers, and how authors deal with the feedback. A literature survey shows that the last phase has not been discussed in the same detail as the other three. The authors contend that if prospective authors gave greater attention to this phase and learned from the findings outlined in this article, it would lead to an improvement in the quality of future submissions to a journal, of education in this particular case.

'We have read your manuscript with boundless delight. If we are to publish your paper, it would be impossible for us to publish any work of lower standard. And, as it is unthinkable that, in the next thousand years, we shall see its equal, we are, to our regret, compelled to return your divine composition, and to beg you a thousand times to overlook our short sight and timidity.'

Reputedly a rejection slip from a Chinese economics journal (Day, 1983:90).

Introductory remarks

The publication of scholarly articles has grown worldwide in the decade between 1995 and 2005. According to available statistics, the number of articles in peer-reviewed journals has increased in this period from 564,645 in 1995 to 709,541 in 2005 (National Board of Science, USA, as quoted by Cummings, 2010). The number of scholarly journals has also increased: 11,429 journals appear on the list of ISI accredited journals — up from 8,500 in 2002 (De la Rey, 2002). Despite the publication successes attained by scholars according to these figures, there is evidence of considerable failure. The 'mortality' rate as far as ISI accredited journals are concerned is around 90%. The rate in the case of South African SAPSE-accredited journals is around 70%. This implies that if, say, the success rate were pitched at 25% (i.e. in real figures the 709,541 in 2005), more than two million article submissions would have failed the peer review process.

The picture becomes even gloomier when taking into account that there is an abundance of publications on 'How to write and publish a scholarly article' (Fradkov, 2003; Venter, 2001; ASSAf, 2009 for scholarly books). A simple computer search with descriptors: write, publish, scientific article, education, journals, 2006–2009, revealed the following (see Table 1).

Table 1 Number of hits on Google and Google Scholar on writing scholarly articles

Topic / Theme	Google	Google Scholar
How to write and publish a scientific article	28,100,000	178,000
How to write and publish a scientific article in education	1,310,000	130,000
How to write and publish a scientific article in education 2006–2009	173,000	21,000
How to write and publish a scientific article in education journals 2006–2009	88,200	8,530

Despite the availability of all these manuals about writing scholarly articles, the mortality rate of manuscripts has remained high. The acceptance rate of submissions by the ISI- and IBSS-accredited *South African Journal of Education (SAJE)* is a case in point: 2006: 25%; 2007: 28%; 2008: 19%, and 2009: 16% (SAJE Annual Reports: 2006–2009).

While this phenomenon can arguably be related to the fact that South African (and other) academics have in recent years had to cope with the influx of large numbers of students and hence have had less time for devoting themselves to research and publication, there is also the possibility that they have not yet mastered the ‘art’ and/or ‘science’ of writing a scholarly article (Van der Walt, 2001). This state of affairs prompted us to ask whether (a) we would not be able to understand the problem better by analysing reviewers’ reports submitted to a particular journal, and (b) whether certain guidelines could not be developed that might lead to greater acceptance of manuscripts.

In order to find answers to the conundrum as to why submissions to scholarly journals have failed at such a rate, we subjected reviewers’/referees’ reports to the *South African Journal of Education* to analysis. This journal was selected because of the availability of digitalised reviewers’ reports for 2006 to 2009. Based on this analysis, we concluded that the failure of prospective authors to submit publishable scholarly manuscripts can be ascribed to mainly two factors. Firstly, many of the manuscripts are based on unsound underlying research, i.e. a research project that was in itself methodologically and/or otherwise replete with all sorts of shortcomings. Secondly, many of the manuscripts are rejected because of failing to present the findings of the researcher(s) coherently and convincingly, or to substantiate their assertions, claims and/or contentions.

Our purpose in this paper is to provide evidence in support of the contention that manuscripts fail on at least these two counts. The remainder of this paper is, therefore, structured as follows. We commence by outlining the research methodology and the conceptual-theoretical framework against which we performed the empirical investigation. This is followed by a report on our findings. We then discuss the findings, and follow with a number of recommendations and concluding remarks.

Ethical considerations

We received permission from the editorial committee to analyse reviewers’ reports and to report on our findings, on condition that neither the names of the reviewers nor those of the authors of manuscripts be divulged.

Research design and methodology

We followed a mixed methods or multi-analysis design for purposes of naturalistic generalization (Onwegbuezie *et al.*, 2009:*passim*; 117; also refer Ivankova, Creswell & Clark, 2008: 254 *ff*), i.e. rather than the researcher generalizing the findings, it is the reader who generalizes from his or her past experiences (Onwegbuezie *et al.*, 2009:120). This is a form of ‘fuzzy generalization’, in the sense that ‘something (that) happened in one place ... might also happen elsewhere’ (Ekiz, 2006:73).

In the sequential mixed analysis that we followed (Brannen, 2008:53; Onwegbuezie *et al.*, 2009:129), the first set of methods pertained to the development of the conceptual-theoretical framework as well as to the more qualitative part of the empirical work (see Data processing). Here we applied a heuristic or hermeneutic-interpretivist document, text and narrative analysis (Ashley & Orenstein, 2005:36-38) which enabled us to hermeneutically and interpretively analyse the literature and documents, such as peer-review forms, for the purpose of composing a conceptual-theoretical framework for the empirical work. Using the criteria contained in the the *South African Journal of Education*’s current editorial evaluation form as a springboard, we developed a conceptual-theoretical framework to provide us with a series of constructs with which we could approach the empirical work.

For the quantitative empirical investigation (see Data processing) we made use of so-called quasi-statistics which, according to Onwegbuzie *et al.* (2009:126), can enable one to assess the amount of evidence that bears on a particular conclusion or observation (e.g. the frequencies at which reviewers refer to shortcomings in a manuscript). Drawing on the work of Neuman (2000:145-146), we did the empirical analysis and found that it brought to light 17 categories and/or constructs.

Conceptual-theoretical framework

The process of writing an article consists of four phases. In the input phase, the researcher prepares an article and submits it to the editor (Booth *et al.*, 2003; Henning *et al.*, 2002; Leedy & Ormrod, 2005:282 *ff*; Huff, 2009; McMillan & Schumacher, 2010:465 *ff*).

In the process phase, the editor and/or members of the editorial committee do a preliminary evaluation of the article to see whether it complies with editorial policy, and if it passes this examination, the article is sent for review to at least two or three independent reviewers. They evaluate the article according to the editorial board’s guidelines for evaluation of articles (refer Pickar, 2007:17).

In the feedback phase, the reviewers return their reports. Based on the reports of the (majority of the) reviewers as well as on his/her own assessment of the suitability and standard of an article, in terms of the criteria contained in the evaluation sheet, the editor decides on the acceptability of the manuscript. Some authors file unfavourable reports in a bottom drawer (Murray, 2005:194), never to return to them. Others study them and try to learn from mistakes and shortcomings. In cases where only minor corrections are advised, authors compile a change log in which they indicate where they have effected changes and where they did or could not follow the advice and requests of the editor.

There is an abundance of publications on the first three phases, but there appears to be a paucity of literature on the fourth phase. Although in some cases authors discuss the aspect of dealing with reviewers’ reports, they tend to shy away from describing how to do a detailed analysis of reviewers’ reports. Murray (2005:187-203) presents a few examples of reports and provides guidelines to authors for learning from them (p. 197). Although she regards this phase

as a 'critical step' in writing a paper (p. 188), she does not offer a detailed description of how to deal with reviewers' reports. Mullin (1999) does not refer to reviewers' reports but confines himself to dealing with feedback from colleagues and peers. Klingner *et al.* (2005) make use of a few examples of reviewers' reports in their discussion of how to deal with such feedback. The same applies to Uchiyama *et al.*, (1999). Lötter's (2000) and Fradkov's (2003) papers provide guidelines for reviewers for adjudging scientific articles but none for prospective authors.

Pickar (2007) mentions that the actual value of peer review has been 'little studied' but that it is clear that it helps editors decide whether to accept or reject an article. In his opinion, peer review 'has helped both editors and authors to improve the quality of manuscripts'. He does not enter into a detailed analysis of reviewers' reports to show how dealing with them can lead to improvement in the quality of manuscripts. Also Day (1983:80-93) does not find it necessary to give an analysis of reviewers' reports to show how authors can learn from them. He merely provides advice to authors based on his personal experience and wisdom.

The above discussion of literature regarding the review process, although by no means exhaustive, reveals a tendency among experts towards discussing the review process with the aid of a few select extracts from actual reviewers' reports. Since we could find no publication in which the author makes a detailed analysis of actual reviewers' reports to a journal, with specific respect to articles, to show how authors could learn from them, we resorted to two alternatives. Firstly we used the current evaluation form of the *South African Journal of Education* as a starting point, a copy of which can be obtained at nsosaje@nwu.ac.za. This form requires a reviewer to respond to the quality of a submission in terms of the following 11 criteria: 1. the importance, relevance or appeal of the submission to the academic community; 2. originality and independence; 3. presentation and readability (language usage, accuracy of references and bibliography); 4. statement of problem, aim and objectives; 5. theoretical framework (literature review); 6. appropriateness of a number of aspects (research design, data collection and procedure, ethical guidelines, data analysis, data presentation and discussion, conclusion and recommendations); 7. the extent to which the line of argumentation is clear, cohesive and logical; 8. contribution to theory; 9. contribution to practice; and the form concludes with space for a reviewer's recommendations whether it should be published or not, and for critical comments and suggestions for improvement.

Secondly, we checked the relevance and validity of the criteria contained in the standard evaluation form of the *SAJE* against the contents of sections on methodology in textbooks that typically treat the dissemination of research results under headings such as *Form for evaluating a ... research report* (Borg, Gall & Gall, 1993:427 *ff*), *Preparing to draft, drafting and revising* (Booth, Colomb & Williams, 2003: 183 *ff*), *The research report* (Babbie & Mouton, 2004:563 *ff*) and *Preparing the research report* (Leedy & Ormrod, 2005:282 *ff*), to mention only a few. This revealed that the standard evaluation form of the Journal did indeed cover the most salient points of article writing and effective dissemination of research results. Based on this finding, we then used the nine criteria contained in the *SAJE* peer review form as instrument for analysing the reviewers' reports for the period 2006 to the end of 2009, as discussed later. This exercise enabled us to expand the original nine closed items of the Journal's review form to the 17 items reflected in Table 4. This expansion was due to the fact that some of the sub-categories of the *SAJE* peer review form gained such prominence in the analysis of reviewers' reports that they had to be reflected in separate cells in Table 4.

A qualitative analysis of the reviewers' critical comments and suggestions cast more light

on some of the problems that the reviews brought to light.

The findings and guidelines that we report will hopefully fill the lacuna regarding how prospective authors can learn from reviewers' reports. Our investigation is especially significant from a South African perspective. The results of the 2008 Changing Academic Profession international survey put South Africa last in the line of 18 participating countries in terms of research productivity (Cummings, 2010). Since South African scholars are clearly lagging behind it is important to discover the reasons for this and to suggest guidelines for assuaging the situation.

Empirical investigation: analysis of reviewers' reports

Aim of the empirical part of the investigation

The purpose of the analysis was to discover precisely for which reasons manuscripts were deemed unacceptable for publication in the *SAJE*.

Sampling

The editorial committee of the *SAJE* made available all the reviewers' reports of manuscripts for the years from 2006 to the end of 2009 that had initially failed but were published after revision. We chose the *SAJE* because of its prominence in the educational fraternity, not only in South Africa but also worldwide. This Journal is one of only a handful of South African publications that are both ISI and IBSS accredited. All the reports for the years in question were also available in electronic format.

A total of 710 articles was submitted to the *SAJE* in the period in question. Of this number, 154 (21.6%) were published. Only seven (7) were published as originally submitted; 147 were published after revision and, in some cases, reassessment by reviewers. A total of 674 reviewers were enlisted for reviewing these articles. Of this number, 634 were attached to 16 higher education institutions in South Africa. The rest were attached to 18 higher education institutions outside South Africa.

Data processing

As stated earlier under Research design and methodology, we first determined the main themes or topics covered by the reviewers in their reports through the use of coding. We followed the three-step coding procedure outlined by Neuman (2000:420-425), Henning *et al.* (2004:104-106), De Vos *et al.* (2005:334) and Ekiz (2006:72). In the process of constructing and evaluating the different categories of reviewers' remarks, hermeneutic-constructivist strategies were applied, which included establishment of external as well as internal statistical validity (quantitative data used in an interpretivist manner) (Onwuegbuzie *et al.*, 2009:*passim*).

All the reports were independently as well as jointly analysed by three researchers. The salient failures of the reviews were organised into categories (themes or topics), and efforts were made to subsume these categories under broader headings so as to avoid reporting on a multitude of smaller factors.

Findings

Table 2 resembles the format of the review form of *SAJE*, with the following two exceptions: no data available for ethical aspects (refer criterion 6 of the review form); it also expands the 'appropriateness' criterion (6) in the review form by teasing out four 'appropriateness sub-criteria', namely, appropriateness of data collection and procedure (item 7 of the Table), appropriateness of data analysis (item 8), appropriateness of data presentation and discussion

(item 9) and appropriateness of conclusions (item 10). (Table 4 also reflects these and other sub-categories.) The coding of the various aspects of reviewers' reports is given in Table 2.

Table 2 Closed section of reviewers' reports: Frequency distribution of ratings (percentages)

	Excellent	Good	Moderate	Poor
1. Importance of article and appeal to readers of SAJE	6	42	36	16
2. Original and independent research	1	28	48	23
3. Presentation, style, clarity, readability	2	28	48	22
4. Statement of problems/aims/objectives	2	23	43	32
5. Theoretical basis/Theoretical frame/Literature review	1	17	45	37
6. Appropriateness of research plan and design	0	18	43	39
7. Appropriateness of data collection and procedure	1	20	48	31
8. Appropriateness of data analysis	1	14	47	38
9. Appropriateness of data presentation/discussion	1	10	49	40
10. Appropriateness of conclusions/recommendations	0	8	46	46
11. To what extent is the line of argumentation in the article clear, cohesive and logical?	0	8	52	40
12. Contribution to theory	0	3	42	55
13. Contribution to practice	0	10	48	42

In order to facilitate rank-ordering, the above ratings were weighted: excellent ratings were multiplied by 2, good ratings were multiplied by 1, moderate ratings were given a value of zero, and poor ratings were multiplied by -1. The weighted ratings are given in Table 3.

Table 3 Closed section of the reviewers' reports: Weighted aggregate scores

	Score
1. Importance of article and appeal to readers of SAJE	38
2. Original and independent research	7
3. Presentation, style, clarity, readability	10
4. Statement of problems/aims/objectives	-7
5. Theoretical basis/Theoretical frame/Literature review	-18
6. Appropriateness of research plan and design	-21
7. Appropriateness of data collection and procedure	-11
8. Appropriateness of data analysis	-23
9. Appropriateness of data presentation/discussion	-29
10. Appropriateness of conclusions/recommendations	-38
11. To what extent is the line of argumentation in the article clear, cohesive and logical?	-32
12. Contribution to theory	-52
13. Contribution to practice	-32

According to Tables 2 and 3, the most important reason for the rejection of manuscripts was their poor contribution to theory. The scores in **bold** typeface for items 4 to 13 in Table 3 show which other factors led to rejection.

In Table 4, the third and fourth columns reflect criticisms against particular aspects of the manuscripts. A total of 1,748 sub-category responses (third and fourth columns), subsumed under 17 broader categories (columns 1 and 2), emerged from the analysis of the closed section of the reviewers' reports.

The *qualitative* investigation on the basis of open item 11 of the review form revealed that the prospective author of a scholarly article should have mastered the following two aspects of scholarly work. Firstly, s/he should already have become a competent researcher and should possess research findings that are deemed worthwhile for sharing with the academic community. One reviewer wrote,

It is always useful to ask yourself this question: Am I submitting this paper because I want to get something published, or am I submitting this paper because I have some important knowledge to share with other educators? If you have some important knowledge to share, you can structure the paper around questions such as: What is this important knowledge? How did I obtain it? Why do I believe that it is true? Why is it worth sharing? What are the implications of this knowledge for other educators? How could other educators use this knowledge? What do I have to do to convince other educators that this knowledge is useful?

The following comments were made with respect to the ubiquitous problem of inadequate underlying research, especially regarding originality: *'No new insights about analysis, practice or theory are provided by the review'*; *'In my opinion this is not new research — it is a re-invention of the wheel'*; *'Don't people read educational legislation and policies as all the "research" of this article is contained in these documents?'*; *'It is always useful to ask yourself this question: If someone who is already knowledgeable in this field (e.g. technology education) reads my paper, what important thing will they learn? Unless a knowledgeable reader ... will learn something important from your paper, there is not much point having them read it'*.

Secondly, a prospective author of a scholarly article should have mastered the intricacies of article-writing. In their qualitative remarks, reviewers tended to concentrate on a variety of factors regarding this second aspect. Some focused more on technical aspects, some more on the line of argumentation, others more on content. From the many remarks about quality of articles, we selected the following as representative: *'The abstract looks sloppy'*, one reviewer remarked. Another advised,

Always make sure that your paper lives up to the expectations created by the title and the abstract. A simple test is this: show several colleagues the title of your paper and ask them to tell you what they would expect to find in the paper. If what they expect is not what you have written, reconsider the title or rewrite the paper. Do the same thing with the abstract'.

With respect to the introduction to the article one said, *'The introduction is weak'*, the topicality of the research is not explained, and/or the organization or structure of the article is not acceptable (*'it is very poorly organised and lacks both coherence and cohesion'*). Regarding the use of language, one remarked: *'The language is laboured and convoluted; the syntax needs to be clarified'*; *'the author should get the services of an editor'*. Interference by the first language results in *'direct and clumsy translations from the mother tongue'*, according to another.

Table 4 Open section of reviewers' reports (*n* = 674) : Comments (coded)

Crit.	Category	Freq.	Sub-categories
1	Theme	3	Article does not deal with <u>education</u> concerns; of too local concern; not relevant to SAJE readership; topic not justified
2	Title	50	Title incomprehensible/makes no sense/puzzling/clumsy/unclear; words in title unclear; title does not fit content of article; title too long; some words should not be part of title; recommend title change
3	Abstract	34	Abstract incomplete (needs to be complete synthesis of article); discrepancy between abstract and rest of article; no logical flow; abstract replica of introduction rather than synopsis of article; contains unnecessary aspects
4	Introduction	11	Introduction inadequate (needs to be a road-map at the beginning, in which sections and its central argument are clarified; introduction does not give background of study; does not reflect the rationale or need for the study; too long; rest of article does not flow from introduction
5	Aim/ problem	65	Should be formulated more explicitly/clearly/be broken up into secondary, scientifically manageable problems; problem statement too short; needs to be unpacked in more detail; too broad; not sufficient to drive research; article contains no aim, objective; is meaningless and unclear; problem statement at variance with aim, introduction, title, text; inadequate, absent; no motivation of problem or rationale of study; value of research not discussed; aim should not be to prove something but rather to enquire; aims as formulated problematic; problem statement too narrow and raises question whether researcher was open to the unforeseen
6	Conceptual clarification	53	Key concepts not defined/clarified/sufficiently interrogated/unpacked/ casual use of terms without defining them; conceptual definitions problematic/ do not correspond to dictionary definitions/ too vague/broad/inaccurate; key concepts wrongly used
7	Hypothesis	3	No hypothesis; too many hypotheses; hypothesis unnecessary for this kind of research; no grounds (in literature or elsewhere) for hypothesis
8	Literature study/ theoretical framework	254	Context/background to the study/problem not explained; mistakes in theoretical framework/literature survey; theoretical framework/literature study inadequate/absent; part(s) of literature survey/theoretical framework irrelevant; in literature survey/theoretical framework; unsubstantiated, sweeping statements; suspected plagiarism; factual errors; primary sources not consulted, author relies too much on secondary sources; literature study confuses different issues/theories; literature survey based on old/outdated sources/data; literature survey relies on one/too few sources; literature survey: no critical stance, interrogation, own stance, integration and synthesis absent
9	Methodology	263	Methodology inadequately explained; method not adequately justified; methodology contains too many details; assumptions at the basis of the methodology problematic; reliability not accounted for/suspect; validity not accounted for/explained/suspect; author clearly not competent with the research method used; research method employed

Table 4 Continued

Crit.	Category	Freq.	Sub-categories
10	Findings	124	<p>inappropriate/not the best for the problem under investigation; mismatch between problem and empirical study; unclear how method relates to aim/problem of study; method described under the heading research method is not the method employed; under the heading methodology no method is explained</p> <p>Interpretations/analysis of data superficial/ not rigorous enough/ not thorough enough/absent; presence of speculations (author criticized for stating: “This could be...; Tables are not related to the topic; factual errors/flaws in the processing of data/presentation of findings; presentation of findings unclear/inadequate; more detailed presentations of findings needed; qualitative studies: Interviews: need direct quotes from interviewees; unwarranted interpretations; unclear/vague statements in the presentation of findings; (Some of) the reported findings have nothing to do with the topic; (Some of findings) discordant with the literature study</p>
11	Conclusions	129	<p>Conclusions unwarranted from the data/findings presented; conclusion should contain the outcome of the research; conclusion meaningless — does not tell what is not already known; conclusion absent; conclusion too abrupt and short; conclusion meaningless/too vague; implications/recommendations for practice not spelled out/meaningless/not concrete enough; theoretical implications of the study not spelled out; Conclusions: more unpacking/discussion needed; conclusion dwells on aspects/issues other than that which empirical study deals with; conclusion at variance with introduction/stated aims/focus of the study; own insight absent/weak/ not well thought through; need to state extent to which the study has succeeded or failed in answering the research question; not all questions in problem statement answered; conclusion naïve; un-nuanced statements; contains unscientific generalisations; recommendations ignore sensitive issues/unethical; conclusion does not link theory and practice; generalises beyond what the research warrants; author does not take findings beyond the specific case/limited sample/population; recommendations for further research absent; no recommendations; recommendations should be motivated; part(s) of conclusion irrelevant in terms of problem/aim of research; final summative statement of paper absent</p>
12	References	121	<p>Details of some sources incomplete/absent/wrong; reference technique used in text and/or list of references by author differs from that prescribed by the journal; not all sources cited in text are included in list of references and vice versa; reference style/list lacks consistency; discrepancies between citations and reference list (spelling, dates, number of authors); page numbers absent; author needs to cite source of not generally known and accepted information/contestable/controversial statements; references give away identity of the author</p>

Table 4 Continued

Crit.	Category	Freq.	Sub-categories
13	Language	242	Vague statements; too long and cumbersome formulations/sentences; poor choice of words; use words with totally wrong; meaning, nomenclature wrong/outdated; confusing terminology/author conflates terms; consistency of terminology needed; unclear/incomprehensible words/sentences; emotional/bombastic language/harsh adjectives; unwarranted use of certain words; dangerous/controversial/problematic words/statements; sexist terms; disrespectful language/insulting statements; unscientific statements, e.g. political rabble-raising; article needs language editing; vague statements/unsubstantiated statements
14	Style	36	Wrong use of bullets: do not use bullets where an argument is needed; style of writing not reader friendly, e.g. uses bullet or telegram style where narrative is desirable; unnecessary repetitions; write in first person when reporting qualitative research; meaning of figures unclear; inappropriate headings; the narrative does not flow
15	Technical	37	Article needs technical editing; mistakes due to sloppy proof-reading
16	Article as a whole	319	Article too large in scope/too ambitious/too broad sweep; article should be broken into two separate articles; article is too long; article difficult to make sense of; article lacks focus/has no central theme; article is poorly organised/structurally wrong; article has no evolution, no logical flow, appears like a laundry list, article does not reach its stated aim; article lacks coherence/integration; article lacks synthesis; article lacks scholarly rigour/academic depth/critical integration/is clearly below <i>SAGE</i> standard; article lacks substance/is too broad and thin; article yields no new knowledge/meaningful contribution to the scholarly debate/ the article states the obvious; too many confounding variables/factors not controlled/taken account of; contextual background to the study inadequately explained/taken into account; an over-reduction of a very complex phenomenon; assumptions upon which article is based false/problematic; problem much broader than the actual content of the study; the study is dated; the limitations of the study are not spelled out/taken into account; the article assumes too much knowledge of the topic on the part of the reader ; article too specialised for the (general) <i>SAGE</i> readership; contradictions/inconsistencies in article; trustworthiness of the research suspect
17	Criticism not directed at one specific component	55	Flow in narrative/logic broken; sweeping statements , unsubstantiated; un-nuanced statements; unclear what is citation and what is authorial text; Logic: lack of evidence to substantiate statements; (contestable/controversial statements accepted as undisputed truth); article lacks a line of argument; logic faulty; logic unclear; gaps in logic/logical leap; unsubstantiated statements; argument flimsy and needs to be strengthened

Discussion of findings

Researchers must keep in mind that the article itself is not the research project; it is a *report* of research that has been completed and of which the results are now being shared with other interested parties. Researchers should, therefore, resist the ‘publish or perish culture’ until they reach a point where they have substantial findings that should be shared with the academic (in this case, the education) community.

Having the data and the findings to share is only the first half of the publishing enterprise. A prospective author should also know and understand the intricacies of writing a publishable article. Prospective authors would, therefore, find it worthwhile to study comprehensive ‘reject’ reports.

The *qualitative* study of the reviewers’ reports leaves one with the impression that papers presented to the SAJE in the period 2006–2009 have largely failed because of inept presentation. In some cases, the despair of the reviewers was quite obvious; they felt the need for findings and recommendations to be disseminated, but they did not see their way clear to approving a manuscript. In one case, a reviewer remarked that s/he had seen better papers from Honours students than the one s/he had just reviewed.

From the *quantitative* investigation, the **bold** typeface in Tables 2 and 3 shows where the main problems with manuscripts lie, according to the reviewers (as reflected in the closed section of their reports). Failure to state the problem and objectives of the underlying research, absence or inadequacy of a conceptual and theoretical framework, problems with the research design, with data collection and processing, with the discussion of findings, with the presentation of recommendations, with the underlying logic of the argument, with the contribution to theory and practice seem to have been the most serious shortcomings.

Table 4 tells the same story from another perspective. The reviewers appear to have experienced the least problems with authors’ selection of theme, with introductions to their papers, with their statement of hypotheses, and with the technical editing of manuscripts. The frequencies in **bold** typeface show where they found the manuscripts to have fallen short. Of concern here are problems with conceptual-theoretical frameworks and research method, since these are two aspects in which prospective academics (researchers) can be expected to be meticulously trained. The problem of language usage and editing is also a cause for concern. The problems in this respect can be ascribed to the fact that authors are expected to write in English, which in many cases is their second and even third language.

Columns 3 and 4 of Table 4 embody a much sharper instrument. The **bold** typeface (20 was arbitrarily taken as a cut-off point) in the third column shows exactly where the reviewers pinpointed the problems with respect to each of the facets of a manuscript. Of concern here is once again the absence or inadequacy of a conceptual-theoretical framework and problems with the method applied in the underlying research. The problems with the conceptual-theoretical framework and the method are compounded with the shortcomings mentioned in the last column.

Recommendations

Prospective authors should study a number of ‘reject’ reports by competent reviewers. How such reports can be accessed is not clear, but a study of these would be invaluable for an inexperienced author.

Prospective article writers should, furthermore, make a careful study of the data we have presented in Tables 2 to 4, especially the shortcomings highlighted with **bold** typeface. They

should in fact consider keeping Tables 2 to 4 on the desk next to their computer, and constantly refer to them when planning a research project, during its execution and when writing up the findings. Although special attention is required for the problems highlighted, attention should also be paid to all the aspects of article writing contained in these three tables. A comparison between the current review form of the *SAJE* and the criteria reflected in the three tables shows no other constructs, dimensions, or factors in connection with writing articles for the *SAJE* than those already contained in the review form. Put differently, Table 4, although containing 17 categories as opposed to the nine (9) in the peer review form of the *SAJE*, does not contain any new constructs or criteria not already reflected in the peer review form; some of its categories reflect sub-categories or criteria in the peer review form. It is, therefore, recommended that prospective authors keep the criteria embodied in the review form in mind.

Although the findings that we report here are specifically relevant to authors contemplating submitting a manuscript to the *SAJE*, we would argue that following these guidelines would also enhance the standard of article writing for other journals.

The findings of this investigation can also be construed as an indictment against many a faculty of education. Contrary to what one would have expected from the training of educationists, they do not appear to have been well prepared for the construction of a conceptual-theoretical framework or research methodology. Also they appear not to have been exposed to adequate training in how to present their findings in a scholarly paper. For this reason, it is recommended that designers of post-graduate training in education should take cognisance of the problems highlighted in this study. Faculties of education should also consider enlisting the services of more senior researchers to help their less experienced colleagues, not merely to file and/or ignore negative reviews, but to try to learn from them as much as they can.

Finally, the categories enumerated in Table 4 can be useful for editors when designing a questionnaire to be completed by reviewers.

Conclusion

We began the article by stating our contention that the failure of prospective authors to submit publishable scholarly manuscripts can be ascribed to a variety of factors, most notably the failure to do sound research as well as the inability to report their findings to the academic community appropriately and effectively. This contention has been vindicated by the three sets of evidence we have presented. The conceptual-theoretical overview of the process of article writing firstly revealed that not sufficient attention is devoted to the final phase of the process, namely, dealing with the contents of reviewers' reports. Secondly the quantitative investigation demonstrated that much can be learned from a careful study of the lengthy narratives occasionally returned by reviewers. Thirdly the qualitative analysis pinpointed the areas of article writing in which manuscripts submitted to the *SAJE* have so far fallen short.

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Authors

Philip C van der Westhuizen is Professor in Educational Management, Leadership and Organisational Theory at the North-West University, Potchefstroom Campus. He is a rated and extensively published researcher and currently the Editor of the *South African Journal of Education*.

J L (Hannes) van der Walt is a former Dean of the Faculty of Education at the North-West University, Potchefstroom Campus, and previously member of the editorial board of the *South African Journal of Education*. He is widely published and specializes in the field of philosophy of education.

C C (Charl) Wolhuter is Professor in the Department of Comparative Education at the North-West University, Potchefstroom Campus. He has lectured in History of Education and Comparative Education at several universities and has published widely in these fields.