

Screening VABB-SHW version 12 for publications in predatory journals

Report to the Authoritative Panel
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1 Introduction

During the summer of 2018, Flanders, like many other regions and countries, experienced considerable media upheavals around the issue of open access (OA) publishers whose standards and ethics can be questioned. The periodicals that fall under this claim have been called *predatory* journals. For the sake of simplicity, we will use the same ‘predatory’ moniker but note that it has been criticized (Eriksson & Helgesson, 2018). In 2019 the following definition of predatory journals and publishers was proposed: “Predatory journals and publishers are entities that prioritize self-interest at the expense of scholarship and are characterized by false or misleading information, deviation from best editorial and publication practices, a lack of transparency, and/or the use of aggressive and indiscriminate solicitation practices” (Grudniewicz et al., 2019, p. 211).

As a consequence of the appearance of predatory journals, lists of such journals and publishers have been created. These negative lists (also referred to as ‘blacklists’) mention publishers and journals that ought to be avoided because of their questionable standards. This practice, however, has been criticized (e.g., Bloudoff-Indelicato, 2015) and some scholars have argued in favour of listing good journals – ‘whitelisting’ – instead. The Directory of Open Access Journals (henceforth DOAJ), for example, aims to cover all “high quality, open access, peer-reviewed journals.”

A key issue in this debate is the fact that it is not clear-cut which journals and publishers should be considered predatory and which ones should be considered legitimate. “Many OA journals and publishers exist in niches of unknown, uncertain and/or contested legitimacy. [...] Just as there are many different types and degrees of ‘predatory’ publishing, there are numerous ways a journal or publisher could possess ambiguous or borderline legitimacy” (Siler, 2020, p. 1391).

In this report, we study to what extent papers published by social science and humanities (SSH) scholars within Flanders appear in questionable journals or conference proceedings. Since 2013 ECOOM-UAntwerp has organised comparisons of the annual lists of journals submitted to the Flemish Academic Bibliographic database of the Social Sciences and Humanities (VABB-SHW) with both positive and negative lists. For an overview of the design of the VABB-SHW, see Verleysen et al. (2014). The results of these screenings are communicated to the Authoritative Panel (Gezaghebbende Panel or GP), which decides which publications and publication channels adhere to all requirements for inclusion in the VABB-SHW.

Eykens et al. (2019) present a bibliographic analysis of the publications identified as predatory in these previous screenings. The results indicate that growing awareness of the risks of predatory publishing does not lead to a turn away from open access in general. Contrary to what one might expect, both junior and senior authors have published in predatory journals.

The previous screenings used the following lists:

- versions 4 and 5: Beall’s list(s) as blacklist (Rahman et al., 2014; Rahman & Engels, 2015),
- versions 6 and 7: Beall’s list(s) as blacklist, DOAJ as whitelist (Rahman et al., 2015; Sile et al., 2017),
- versions 8 to 11: Cabells Predatory Reports (previously Cabells Journal Blacklist) as blacklist, DOAJ as whitelist (Eykens et al., 2018a, 2018b; Eykens & Guns, 2020; Guns & Vandewalle, 2021).

This report is based on the set of publications submitted for VABB-SHW version 12 (publication years 2011–2020). All journals and proceedings with ISSN were extracted and compared with, firstly, Cabells

Predatory Reports (CPR) and, secondly, the list of journals indexed in DOAJ. Data from CPR dates from the 4th of November 2021. DOAJ was consulted on the 14th of December 2021.

2 Data sources

2.1 Cabells Predatory Reports

Cabells Predatory Reports (CPR) is a commercial service provided by Cabells Scholarly Analytics. The review board working on CPR makes use of a list of pre-specified criteria which are used to identify deceptive, fraudulent, and/or predatory journals. For each listed journal a 'violations report' is available. At the time of consulting, CPR listed 15,539 journals, although it should be mentioned that we encountered a number of duplicate entries. For these, the most recently updated entry was retained.

Cabells distinguish between severe, moderate, and minor violations. The full list of criteria can be found in Appendix A. The 75 criteria range from severe to minor violations and are divided over 8 categories:

- A. **Integrity (13 criteria):** Relates to the journal's ethics. Does the publisher abide by standard publishing or research ethics?
- B. **Peer review (14 criteria):** Does the journal have adequate procedures for editorial control and peer review?
- C. **Website (7 criteria):** Relates to the information displayed on the website. Is it deceptive, wrong or unclear?
- D. **Publication practices (18 criteria):** Closely relates to research and publishing ethics, but focuses on the actual process of publishing, the techniques to attract authors, and statements about the management of the journal and its content.
- E. **Indexing and metrics (2 criteria):** Is the journal using misleading or wrong metrics?
- F. **Fees (6 criteria):** Does the publisher focus on payments and/or not communicate about them clearly prior to manuscript submission?
- G. **Access and copyright (6 criteria):** Does the journal (or its publisher) communicate clearly on the access granted and the copyright policy that is being carried out?
- H. **Business practices (9 criteria):** Relates to the marketing techniques used by the publisher or the journal's editorial team.

The criteria grouped under each category could be characterized as indicators ranging from fraudulent (severe) to vague or questionable practice (minor). When making use of the violation reports of CPR for evaluation purposes, it therefore seems advisable to consider the severity of violations.

2.2 Directory of Open Access Journals (DOAJ)

In 2003 DOAJ was set up "to increase the visibility and ease of use of open access scientific and scholarly journals, thereby promoting their increased usage and impact" (<https://doaj.org/about>). This directory aims to provide full coverage of peer-reviewed OA journals that can warrant the quality of the content. For a journal to be included in DOAJ it has to adhere to the principles of 'Transparency & best practice' (<https://doaj.org/apply/transparency/>). This set of 16 principles is the result of a collaboration between DOAJ, the Committee on Publication Ethics (COPE), the Open Access Scholarly Publishers Association (OASPA), and the World Association of Medical Editors (WAME). The principles

refer to various aspects of publishing (peer review process, publishing schedule, etc.). At the time of consulting, DOAJ listed 17,213 journals.

3 Methods

At the start of the screening, we compiled a list of all journals with ISSN (n = 15,157) and proceedings with ISSN (n = 561) submitted for inclusion in VABB-SHW 12. These are the outlets in which scholars affiliated to an SSH unit at a Flemish university have published during the time period 2011–2020. Within the journal list, 12,004 journals have been previously identified as peer-reviewed, of which 4,887 are selected by the GP and 7,117 are indexed in the Science Citation Index Expanded (SCIE), Social Sciences Citation Index (SSCI), and/or Arts & Humanities Citation Index (AHCI) of Web of Science (WoS). 2,607 journals have been classified by the GP as non-peer-reviewed. Finally, 546 journals appear in the list for the first time, and therefore their peer review status is yet to be decided.

The comparison of the lists was done by cross-checking the set of ISSNs with the ISSNs and e-ISSNs in CPR. The second step consisted of looking up the ISSNs that appeared in both the VABB-SHW 12 data and CPR, in the DOAJ. Only those journals and proceedings whose ISSN matched with the ISSN of a journal on CPR were retained as potentially predatory. As with previous screenings we have checked both journals indexed in WoS and journals not indexed in WoS.¹ Since the screening of VABB-SHW version 10 (Eykens & Guns, 2020), we also check conference proceedings with an ISSN.

For the cases in which a match was found, we consulted the violation report provided by Cabells and listed each journal's violations. A separate Excel file is provided to the Authoritative Panel that lists all details of the journals in question.

4 Findings

The results of our analysis are presented in three parts. In section 4.1, we analyse the number of journals/proceedings (and their publishers) that are found in the CPR. Section 4.2 zooms in on the severity of the violations. In section 4.3, we present a comparison of our findings to last year's results. Finally, section 4.4 zooms in on the relatively new phenomenon of hijacked journals.

4.1 Comparison of VABB-SHW with Cabells Predatory Reports

The comparison of publications submitted for VABB-SHW 12 with CPR yields a set of 156 journals – 153 from the VABB-SHW journal list and 3 from the VABB-SHW proceedings list (Table 1). Some of these are indexed in WoS: 19 in the core WoS indexes (AHCI, SSCI, SCIE, CPCI-S, CPCI-SSH), and 1 in the Emerging Sources Citation Index (ESCI). The majority of non-WoS journals are considered not to be peer-reviewed. The list of these 156 serials is delivered as a separate Excel overview. The list includes the following characteristics: VABB identifier, title, type or status in VABB-SHW, GP ranking, whether or not a severe violation is being reported for the journal, the number of publications in VABB-SHW, the name of its publisher, as well as metadata from CPR, including which violations are reported per journal.

¹ Publications in journals indexed in the SCIE, SSCI, and/or AHCI, as well as proceeding papers indexed in the CPCI-S and/or CPCI-SSH, are counted in the WoS publications parameter of the BOF-key.

Just like the previous two years, none of these journals was indexed in DOAJ. This seems to indicate a growing consensus across lists of which journals exhibit questionable behaviour and which ones don't.

Table 1. Number of VABB-SHW 12 journals identified in Cabells Predatory Reports by peer review status and WoS indexation

	Not in WoS	In core WoS index	In ESCI	Total
Peer-reviewed	28	19	1	48
Non peer-reviewed	99	0	0	99
Peer-review status undecided	9	0	0	9
Total	136	19	1	156

The 156 journals were published by 47 different publishers, with 15 accounting for multiple (up to 30) journals (Table 2). It should be noted that journals published by the same publisher very often exhibit the same violations. Nine journals could not be linked to a publisher ('-' in Table 2).

Table 2. Publishers with two or more predatory journals in VABB-SHW 12

Publisher	Journals	Publications
OMICS International	30	45
Scientific Research Publishing (SCIRP)	27	44
Canadian Center of Science and Education	13	25
-	9	51
Academic Journals	8	13
Sciedu Press	7	15
David Publishing Company	6	7
Macrothink Institute	4	10
Center for Promoting Ideas	3	6
World Research Journals	3	6
World Scientific and Engineering Academy and Society	3	6
MedCrave	3	5
American Scientific Publishers	3	4
American Research Institute for Policy Development	2	5
Premier Publishers	2	3
Fortune Journals	2	2

In comparison to the previous report, there are ten 'newcomers' in the list of publishers. Remarkably, the second publisher in the list (Scientific Research Publishing, with 27 journals) did not appear in last year's list, as well as nine others. Together, the newcomers represent 24% of publications in Table 2. This change seems mostly due to a further expansion of Cabells to cover more publishers.

4.2 Severity of violations

The five most frequent violations are moderate or minor ones (Table 3). Relatively frequent severe violations pertain to false claims of indexation or metrics, surprise fees, and no or missing articles.

The majority of channels (127 out of 156) have a severe violation listed. If we exclude journals and proceedings indexed in WoS, we find 28 journals for which no severe problems are listed. There are no journals with only minor violations: for all 28, a mixture of moderate and minor problems is listed. We advise the GP to examine these 28 journals in more detail before making a final decision on their classification in VABB-SHW.

Table 3. Top-10 most frequent violations

Violation	# journals	Severity
The publisher displays prominent statements that promise rapid publication and/or unusually quick peer review (less than 4 weeks).	99	Moderate
No policies for digital preservation.	92	Moderate
Falsely claims indexing in well-known databases (especially SCOPUS, DOAJ, JCR, and Cabells).	57	Severe
The journal or publisher uses a virtual office or other proxy business as its physical address.	49	Minor
The publisher hides or obscures relationships with for-profit partner companies.	42	Moderate
Authors are published several times in the same journal and/or issue.	31	Moderate
Multiple emails received from a journal in a short amount of time.	27	Moderate
The journal uses misleading metrics (i.e., metrics with the words "impact factor" that are not the Thomson Reuters Impact Factor).	27	Severe
The journal or publisher gives a business address in a Western country but the majority of authors are based in developing countries.	23	Moderate
The journal's website does not have a clearly stated peer review policy.	21	Moderate

4.3 Number of publications in predatory journals per year

We found 156 potentially predatory journals in the data submitted for VABB-SHW 12, which account for 288 publications (Table 4) or 0.3% of all publications with ISSN submitted for VABB-SHW 12.

Table 4. Number of publications in VABB-SHW 12 per year that have appeared in a journal listed in CPR

Year	Non-peer-reviewed	Peer-reviewed	Undecided	Total
2011	14	9	0	23
2012	18	17	0	35
2013	19	16	0	35
2014	17	12	0	29
2015	23	12	0	35
2016	13	23	1	37
2017	14	16	0	30
2018	12	11	0	23
2019	15	8	0	23
2020	1	7	10	18
Total	146	131	11	288

For comparison, for VABB-SHW 11, 114 journals were flagged as potentially predatory, with 175 publications in them (Guns & Vandewalle, 2021). Table 5 presents an overview of the number of

journals identified during each screening and the sources that were used over the years. The increase between editions 11 and 12 is mainly due to the expansion of CPR: 47 potentially predatory journals are new to this report, 38 of which were added to CPR after the data collection for last year's report. Five journals that were listed in the previous report are no longer represented in VABB-SHW 12.

Table 5. Overview of screenings for VABB-SHW and results

VABB edition	Publication time span	# black-listed journals	# articles	# journals in blacklist	Blacklist used	Other sources used
4	2003–2012	62	59	unknown **	Beall's list	WoS
5	2004–2013	109	138	unknown **	Beall's list	WoS
6	2005–2014	128	315	unknown **	Beall's list	DOAJ, WoS
7	2006–2015	185	501	unknown **	Beall's list	DOAJ, WoS
8	2007–2016	65	91	7 601	Cabells Journal Blacklist*	DOAJ, WoS
9	2008–2017	89	145	9 713	Cabells Journal Blacklist*	DOAJ, WoS
10	2009–2018	97	164	14 154	Cabells Journal Blacklist*	DOAJ, WoS
11	2010–2019	114	175	14 183	Cabells Predatory Reports	DOAJ, WoS
12	2011–2020	156	288	15 539	Cabells Predatory Reports	DOAJ, WoS

* Cabells Journal Blacklist has been renamed to Cabells Predatory Reports in 2020.

** Beall's main list worked at the level of publishers, hence it is impossible to retroactively determine the number of journals.

4.4 Hijacked journals

In this section, we zoom in on the issue of hijacked journals – predatory journals that co-opt the name, ISSN, and/or branding of a well-known, legitimate journal, thereby tricking authors into thinking they publish in an established journal (Abalkina, 2021). This is particularly concerning for a system like VABB-SHW, which mainly relies on ISSN as a journal identifier. We note that the duration of such a 'hijack' is variable and can range from just a few hours to multiple years.

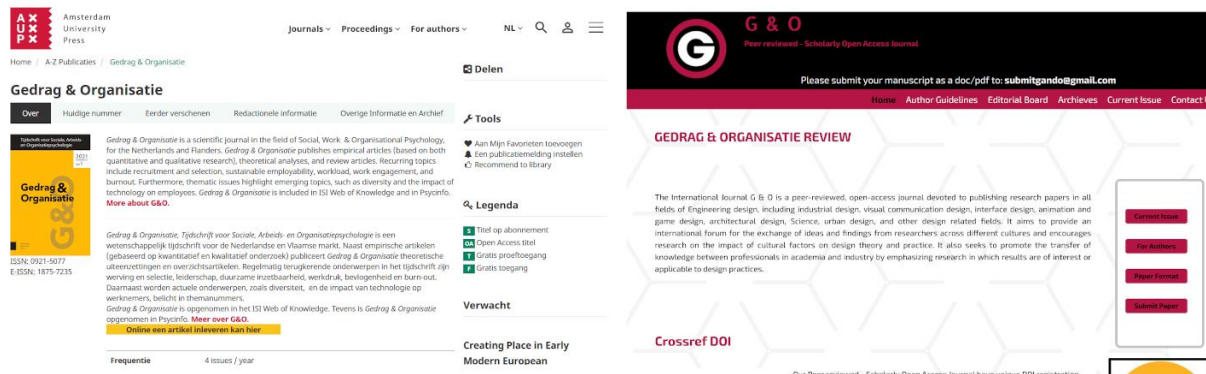


Figure 1. Example of a hijacked journal. Left: official website of Gedrag & Organisatie, right: hijacked website of journal pretending to be Gedrag & Organisatie.

The number of hijacked journals appears to be on the rise: this screening found 7 hijacked ISSNs in VABB-SHW, up from 1 last year, and 0 the years before. These 7 journals contain together 51 VABB-SHW 12 publications. It is important to stress that a publication with a hijacked ISSN is more likely to have appeared in the legitimate journal than in the hijacker. This is, in fact, the case in VABB-SHW: all 51 publications have been checked and appear in the legitimate journal.

Hence, we advise against treating these ISSNs as predatory. At the same time, it seems prudent to check publications with hijacked ISSNs. Since this is time-consuming work, this is a point of concern for the future, especially if the numbers will increase further.

5 Limitations

With regard to the data and our analysis, three limitations should be highlighted. As stated in previous reports, journal lists are not static and often evolve rather quickly (Eykens et al., 2019). Journals may cease to exist, they can be withdrawn from (or added to) the DOAJ, the Web of Science, CPR, and so on. This requires the reader to pay close attention when interpreting the results. The comparison presented in this report only applies to the timeframe of VABB-SHW 12 (period from 2011 to 2020).

The second limitation relates to the data gathered from CPR. Cabells provides detailed violation reports, which can be helpful for decision making. The threshold applied by the in-house experts, however, is not clear. Some of the violations are less severe than others, or allow for the reader's own (subjective) interpretation.

A third limitation is related to the matching procedure used, which relies on the availability and correctness of ISSNs and other metadata in both VABB-SHW and CPR. However, studies have found different kinds of data errors in CPR (Dony et al., 2020), which may also affect the screening results.

6 Conclusion

Our analysis shows that SSH scholars in Flanders continue to publish in journals that are listed as predatory. The total number has increased compared to the previous edition, mainly due to changes in Cabells Predatory Reports, our main data source. The numbers by publication year (Eykens *et al.*, 2019; see also Table 4) suggest that there is a growing awareness of the problem of predatory journals.

7 References

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Appendix A. Full list of blacklist criteria

This list of blacklist criteria is taken from <https://www2.cabells.com/blacklist-criteria>. Some violations are considered more severe than others (moderate to minor).

A. Integrity	SEVERE <ol style="list-style-type: none">1. The same article appears in more than one journal.2. Hijacked journal (defined as a fraudulent website created to look like a legitimate academic journal for the purpose of offering academics the opportunity to rapidly publish their research for a fee).3. Information received from the journal does not match the journal's website.4. The journal or publisher claims to be a non-profit when it is actually a for-profit company.5. The owner/Editor of the journal or publisher falsely claims academic positions or qualifications.6. The journal is associated with a conference that has been identified as predatory.7. The journal gives a fake ISSN. MODERATE <ol style="list-style-type: none">8. The journal/publisher hides or obscures relationships with for-profit partner companies that could result in corporate manipulation of science.9. The name of the journal references a country or demographic that does not relate to the content or origin of the journal.10. The journal uses language that suggests that it is industry leading, but is in fact a new journal.11. The title of the journal is copied or so similar to that of a legitimate journal that it could cause confusion between the two. MINOR <ol style="list-style-type: none">12. Insufficient resources are spent on preventing and eliminating author misconduct (that may result in repeated cases of plagiarism, self-plagiarism, image manipulation, etc.).13. The journal/publisher hides or obscures information regarding associated publishing imprints or parent companies.
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<p>B. Peer Review</p>	<p>SEVERE</p> <ol style="list-style-type: none"> 1. No editor or editorial board listed on the journal's website at all. 2. Editors do not actually exist or are deceased. 3. The journal includes scholars on an editorial board without their knowledge or permission. 4. Evident data that little to no peer review is being done and the journal claims to be “peer reviewed”. <p>MODERATE</p> <ol style="list-style-type: none"> 5. The founder of the publishing company is the editor of all of the journals published by said company. 6. Evident data showing that the editor/review board members do not possess academic expertise to reasonably qualify them to be publication gatekeepers in the journal's field. 7. Have board members who are prominent researchers but exempt them from any contribution to the journal except the use of their names and/or photographs. 8. Gender bias in the editorial board. 9. Little geographical diversity of board members and claim to be international. 10. Inadequate peer review (i.e., a single reader reviews submissions; peer reviewers read papers outside their field of study; etc.). 11. The journal's website does not have a clearly stated peer review policy. 12. The journal has a large editorial board but very few articles are published per year. 13. No affiliations are given for editorial board members and/or editors. 14. Editorial board members (appointed over 2 years ago) have not heard from the journal at all since being appointed to the board.
<p>C. Website</p>	<p>MINOR</p> <ol style="list-style-type: none"> 1. The website does not identify a physical address for the publisher or gives a fake address. 2. The journal or publisher uses a virtual office or other proxy business as its physical address. 3. The website does not identify a physical editorial address for the journal. 4. Dead links. 5. Poor grammar and/or spelling. 6. No way to contact the journal/only has web-form.

	7. The journal's website attempts to download a virus or malware.
D. Publication practices	<p>SEVERE</p> <ol style="list-style-type: none"> 1. The journal publishes papers that are not academic at all, e.g. essays by laypeople or obvious pseudo-science. 2. No articles are published or the archives are missing issues and/or articles. 3. Falsely claims indexing in well-known databases (especially SCOPUS, DOAJ, JCR, and Cabell's). 4. Falsely claims universities or other organizations as partners or sponsors. 5. Machine-generated or other "sting" abstracts or papers are accepted. <p>MODERATE</p> <ol style="list-style-type: none"> 6. No copyediting. 7. The publisher displays prominent statements that promise rapid publication and/or unusually quick peer review (less than 4 weeks). 8. Little geographical diversity of authors and the journal claims to be International. 9. Similarly titled articles published by same author in more than one journal. 10. The Editor publishes research in his own journal. 11. Authors are published several times in the same journal and/or issue. 12. The journal purposefully publishes controversial articles in the interest of boosting citation count. 13. The journal publishes papers presented at conferences without additional peer review. 14. The name of the publisher suggests that it is a society, academy, etc. when it is only a publisher and offers no real benefits to members. 15. The name of the publisher suggests that it is a society, academy, etc. when it is only a solitary proprietary operation and does not meet the definition of the term used or implied non-profit mission. 16. The number of articles has increased by 75% or more in the last year. 17. The number of articles has increased by 50-74% in the last year. <p>MINOR</p>

	18. The number of articles has increased by 25-49% in the last year.
E. Indexing & Metrics	<p>SEVERE</p> <ol style="list-style-type: none"> 1. The journal uses misleading metrics (i.e., metrics with the words “impact factor” that are not the Thomson Reuters Impact Factor). <p>MINOR</p> <ol style="list-style-type: none"> 2. The publisher or its journals are not listed in standard periodical directories or are not widely catalogued in library databases.
F. Fees	<p>SEVERE</p> <ol style="list-style-type: none"> 1. The journal offers options for researchers to prepay APCs for future articles. 2. The journal states there is an APC or other fee but does not give information on the amount or gives conflicting information. 3. The journal or publisher offers membership to receive discounts on APCs but does not give information on how to become a member and/or on the membership fees. 4. The author must pay APC or publication fee before submitting the article (specifically calls the fee a publication fee, not a submission fee). 5. The journal does not indicate that there are any fees associated with publication, review, submission, etc. but the author is charged a fee after submitting a manuscript. <p>MODERATE</p> <ol style="list-style-type: none"> 6. The publisher or journal's website seems too focused on the payment of fees.
G. Access & Copyright	<p>MODERATE</p> <ol style="list-style-type: none"> 1. States the journal is completely open access but not all articles are openly available. 2. No way to access articles (no information on open access or how to subscribe). 3. The journal is open access but no information is given about how the journal is supported financially (i.e. author fees, advertising, sponsorship, etc.) 4. No policies for digital preservation.

5. The journal has a poorly written copyright policy and/or transfer form that does not actually transfer copyright.
6. The journal publishes not in accordance with their copyright or does not operate under a copyright license.

H. Business Practices

MODERATE

1. Emailed solicitations for manuscripts from the journals are received by researchers who are clearly not in the field the journal covers.
2. Emailed invitations for editorial board members or reviewers from the journal are received by researchers who are clearly not in the field the journal covers.
3. Multiple emails received from a journal in a short amount of time.
4. Emails received from a journal do not include the option to unsubscribe to future emails.
5. The journal has been asked to quit sending emails and has not stopped.
6. The journal copy proofs and locks PDFs.
7. The journal or publisher gives a business address in a Western country but the majority of authors are based in developing countries.

MINOR

8. No subscribers / nobody uses the journal.
9. The journal's website does not allow web crawlers.