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Questionable journals

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MASARYK UNIVERSITY

University Campus Library – Management of the University Campus at Bohunice

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Introduction

In recent years authors of scholarly publications face the risk of publishing their work with a bogus publisher or in an untrustworthy journal. In practice, the term "predatory" is widely used to denote these publishers. However, with regard to the fact that such publishers do not comply with the principles of transparency and best practices in scholarly publishing, the use of terms such as untrustworthy, bogus, and suspicious is increasing. For that reason we use the terms untrustworthy journal and bogus publisher in this study material.

The main aim of bogus publishers and untrustworthy journals is easy financial gain. Therefore, they eschew the usual peer-review process before publishing a text, they create fictitious editorial boards, imitate the names of well-established, credible journals, etc. As a result of this behaviour, the academic community is deluged with a large amount of unverified and even distorted or false information. Now more than ever, there is an urgent need for institutions and researchers to be informed about the vital necessity of evaluating a publisher and journal before submitting their article. For example, already today the *Committee for Evaluation of Research Organisations and Completed Programmes* has information that in the past, even texts published by bogus publishers have been evaluated. For example, in March 2016, the *Student Chamber of the Council of Higher Education Institutions* informed the Council about such a case at a meeting with the members of the Council.

With regard to the above-mentioned facts, informing academics about how to detect untrustworthy journals is the most effective protection against publishing in such journals. Only then will awareness spread through academia about the risks of publishing in untrustworthy journals that were created merely for the purpose of financial gain.

The aim of this study material is to summarize the basic facts about where untrustworthy journals come from and possible ways for detecting them.

1 The origin of untrustworthy journals

Untrustworthy journals sponge on the otherwise noble concept of the Open Access movement, which aims to disseminate credible specialized information freely to the research community. Open Access strives for unrestricted access to literature, limited neither by financial nor by technical barriers, and its aim is to publish research results that underwent a regular peer-review process before being published.

A part of publishing in the Open Access mode is covering the costs for editing and typesetting of the texts, fees for server operation, etc. Therefore, today authors can use two modes of Open Access publishing for submitting their work to a scholarly journal:

Open-Access Journal

Such journals offer full texts of their articles to readers on the internet free of charge while the costs for publication of the article are covered either by the author (so-called Article Processing Charges or APCs), or by the institution which publishes the respective journal (for example Central European Journal of Nursing and Midwifery published by the University of Ostrava).

Hybrid Open-Access Journal

In these journals, access to the journal's content is not free of charge by default, but authors have the possibility to publish their article in the Open Access mode if they pay a fee for it.

The Emergence of Untrustworthy Journals

Untrustworthy journals emerged with the aim to exploit the Open Access mode. While proper journals in the OA mode observe the common practices of scholarly publishing (peer-review, specialists in their international editorial board, etc.), untrustworthy journals not only violate these practices, but they also often try to trick potential authors into publishing their articles with them (e.g. they create fictitious editorial boards, imitate titles of prestigious journals, perform a speedy review process, etc.). The sole aim of all these practices is to make authors publish in their journal in order to collect a fee from these authors.

The year 2008 brought the first mention of untrustworthy journals, although they were not yet termed untrustworthy. At that time, the person who drew attention to them was Tim Hill, the owner of the New Zealand publishing house Dove Medical Press publishing in the Open Access mode. In 2010, Jeffrey Beall, a librarian from the American University of Colorado Denver, published on his (now-defunct) blog *Scholarly Open Access* a list of bogus journals' publishers and a list of untrustworthy journals, the so-called Beall's list. Two years later, he proposed criteria by which untrustworthy publishers could be identified. Beall updated these criteria and lists until mid-January 2017 when he cancelled the blog (therefore only a link to its archived version is provided).

Although Beall's List gained popularity in the academic community because of the possibility of determining quickly and easily whether a journal is listed there or not, its main flaw was a lack of transparency. Jeffrey Beall defined 55 criteria of untrustworthy journals, but many of these criteria proved to be controversial, because they are either difficult to verify or their evaluation is subjective.

The method for journal evaluation that we have provided since 2017 to scholars and PhD students at the University Campus Bohunice has repeatedly undergone critical discussion, which resulted in its current 10 objectively verifiable criteria. In the following parts of this study material, we present these 10 criteria in context with the respective criteria from Beall's list. In this way we want to help you understand that journal evaluation is not just black and white, and a complex approach is necessary.

2 The recommended approach for evaluating a journal

If you want to eliminate the risk of publishing in an untrustworthy journal, it is indispensable that you perform these three steps:

- 1. Check objectively verifiable formal criteria of transparency principles and ethics of scholarly publishing. This step includes checking 10 criteria which are described in detail in the following sections. We recommend recording the resulting number of points for each criterion on an evaluation chart.
- 2. Perform a content analysis of the journal, i.e. read a couple of the journal's volumes and, based on your own expert knowledge or with the help of check lists (see section 2.2)), evaluate the professional quality of the published articles.
- 3. Search on the internet. There are various websites where scholars share experience with publishing. In this way you can gain insight into the quality of the respective journal's editorial work (see section 2.3)). As a part of this evaluation step you should also familiarize yourself with how the databases Web of Science, JCR, and Scopus evaluate the journal.

The following sections describe the individual, above-mentioned steps of the approach for a detailed evaluation of a journal.

2.1 Checking formal criteria

In the first step, you should check ten criteria which can be objectively verified and are based on transparency principles and ethics of scholarly publishing determined by authorities in publication ethics, namely COPE (Committee on Publication Ethics), DOAJ (Directory of Open Access Journals), OASPA (Open Access Scholarly Publishers Association) and WAME (World Association Medical Editors). When evaluating a journal, we recommend using an evaluating chart either in its online version or as an Excel file.

In the following subchapters, it is explained why the respective criteria should be evaluated and how to proceed. We have also included examples of journals that violate the respective criterion. When evaluating these criteria with the help of the evaluation chart, you should proceed as follows. Start by verifying on the journal's website whether a criterion is met or not (e.g. you can verify the presence of an ISSN by looking at the main page of the website or subpages thereof with information about the journal). When the criterion is met, the journal gains 1 point, while when the criterion is not met (even partly) the journal gains 0 points. A journal with 10 points can be considered fully transparent.

However, in real life scholars often learn that some of the criteria are occasionally violated even by well-established journals. This is why the journal evaluation approach recommended in this study material includes two more evaluation steps: an assessment of the professional quality of the journal and an effort to find information about the journal's operation and how it solves possible violations of publication ethics.

2.1.1 Access to full text

The first criterion to check is the free access to full texts as the primary goal of Open Access journals. When validating this criterion you should focus on whether a journal in Open Access mode really provides access to the full texts of its articles. Keep in mind that a number of journals provided access to their full texts on the basis of subscription in the past, and only later did they adopt the Open Access mode. Therefore, it is advisable to focus on availability of full texts in the current issue or volume.

Although evaluating this criterion may seem straightforward, unfortunately cases may appear when you hesitate whether you should deem it fulfilled or not. For example, in the journal JSM Bioavailability and Bioequivalence, this criterion will be clearly evaluated as unfulfilled because, after selecting the current issue in the menu on journal's website, the homepage "About the Journal" loads again instead of the page with articles for download.

SciMedControl JSM Bioavailability and Bioequiva		Submit Manu	ISSN: 2641-781
Home Aims & Scope Early Online Current Issue All Issues	Editorial Board	Special Issues	Submit Manuscript
iMed Central » Bioavailability » index			
About the Journal		Google Custom	Search Q
bioequivalence studies. The journal publishes original research articles, review artic case reports, commentaries, short note, perspectives, and letters to the Editor. As a part JSciMed Central® Open Access platform the articles published in Bioavailability and Bioequivalence are freely accessible to the readers without any thereby supports the scientific innovation and advancement in research community also brings multiple internationally peer reviewed member journals under one roof the knowledge sharing, collaboration and promotion of interdisciplinary science.	the Journal, JSM accession barriers, JSciMed Central® hereby encouraging	traditional conferen Quick Links	sch not only disrupted the icce model but innovatively
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		FAQs	9
		Article Process	ing Chargos

However, the evaluation of the journal Noise & amp; Health may be controversial, because it provides access to its articles in HTML format for free while for a PDF version of articles it charges 20 USD. One person may consider the availability of full text in HTML format to represent a fulfilled criterion while another person might assess the criterion more strictly and expect completely free access to the full text regardless of its format in the open-access mode.

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2.1.2 Article processing charges

In the context of article processing charges (APCs), untrustworthy journals are connected with practices such as non-transparent information about APCs or providing information about them only after the fact (a surprise in the form of unexpected invoices). The amount of APCs may also be very low and therefore cannot cover the costs for publishing an article.

Although it was found that the average cost imposed by western publishers to publish an article is approximately 500 EUR, it cannot be considered a universal guideline which distinguishes untrustworthy journals from the others, because the economies of various countries differ. The amount of APCs as a criterion is disputable for one more reason: today there are many untrustworthy journals that require an APC amount similar to that of traditional publishers (see below the example *Journal of Immunobiology* \times *Immunobiology*).



While the difference in the amount of APCs in *Journal of Immunobiology and Immunobiology* is only 531 USD, the first journal is published by the publisher OMICS that was sentenced to pay a fine of 50 million USD for unfair publication practices.

When assessing the APC criterion you should determine whether the journal states the exact amount of APCs clearly and intelligibly. It is typical of untrustworthy journals that they provide the amount of APCs together with some note – usually on the same page – in which the publisher reserves the right to charge additional fees.

As an example the publishing house Allied Academies may serve (see below). Publishing an article here requires not only paying APCs but also for membership in an unspecified organization with a yearly fee of 75 USD.

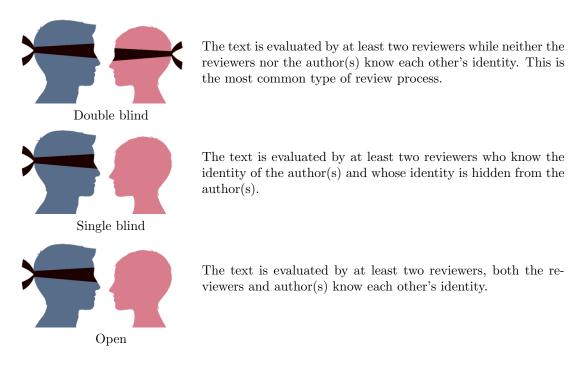


2.1.3 Description of peer-review process

Although it is commonly stated that untrustworthy journals usually have a very short peer-review process (a matter of days), in reality this criterion is questionable as well. On one hand, writing a review may take only a few hours, but on the other hand, the total length of the peer-review process may be influenced by searching for a suitable reviewer or by the reviewers being busy. For example, it follows from the e-mail below that if the editor of the journal had not been on holiday, the review process could have been shorter by a whole month.



When evaluating this criterion, you should find out whether a sample of the peer-review process is provided on the journal's website, so that you have a precise idea about its course. This means finding a page on the journal's website with information for authors or with the journal's ethical principles, and there you should look to see whether the journal describes the course of peer review in detail. There are three types of peer-review process:



The editorial board is one of the key parts of a journal. It is a decision-making body determining both the content and thematic focus of the journal. It also develops strategies and visions which the journal follows in its publishing. The editorial board's prestige reflects the quality of the whole periodical. In the context of untrustworthy journals, the editorial board is connected with the criteria mentioned below, though these criteria are generally problematic.

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Once the decision has been made to peer-review th	e paper, the	
choice of referees is made by the editor who has be manuscript, who will be handling other papers in th	0	
consultation with editors handling submissions in r		
when necessary. Most papers are sent to two or three some are sent to more or, occasionally, just to one.		
chosen for the following reasons:		
• independence from the authors and their insti	itutions	

- ability to evaluate the technical aspects of the paper fully and fairly
- currently or recently assessing related submissions
- availability to assess the manuscript within the requested time.

In this example from the journal *Nature*, a short sample from a comprehensive description of the peer-review process in the instructions for authors is provided.

Peer Review Process

All submissions are initially reviewed by the Editorial team. At this stage, papers may be rejected without peer review if we feel that they are not of high enough priority or quality or not within the scope of the journal. This ensures that authors are given a quick decision if their paper is unsuitable. Papers that are not rejected in the initial review process will be sent out for peer review to a minimum of two independent reviewers. The process is double blinded. Papers will be selected for publication based on peer review feedback, compliance of the author in making the modifications, and Editor's final choice. Articles which fail peer review will be rejected.

More commonly, you will find a briefer yet sufficient description, which includes the most important information, i.e. the fact that the article undergoes a peer-review process and what type of review process it is (here double blind).

Standard Editorial Processing and Peer-Review Policy

Manuscripts are submitted for evaluation at the online portal. The authors are provided with password to access and track their article progress. The manuscript ID is generated and sent to the corresponding author. This is followed by preliminary evaluation of the article where the scope of the manuscript and its conformity with the journal mandate is checked. It also involved checking of non-duplicity and originality. If the manuscript is found out of scope or the content is not comprehensible, then it is sent for re-submission provided significant modifications are made. After screening for suitability and determination of the communication type, the Editor-in-Chief sends the manuscript to the Managing Editor. A minimum of two potential and active Peer-Reviewers are identified and the manuscript is subjected for peer-review. Substantial time of about three weeks is allocated for completion of subject expert evaluation of the manuscript content. Based on the review comments, suggestions and recommendations, the Editor-in-Chief in consultation with the handling Editor and Reviewers arrive at a final decision (Accept/Re-review/Minor revision/Major revision/rejection) and the corresponding author is duly notified. Accepted articles are processed for generation of author proof followed by online web hoisting.

By contrast the journal *Current Issues in Molecular Biology* does not provide any information about the course of the peer-review process. This example also demonstrates that you cannot rely on the fact that databases such as Scopus and JCR list only reliable journals because this journal has an impact factor assigned in Journal Citation Reports, though it clearly lacks a description of the peer-review process.

2.1.4 Affiliation of editorial-board members

The editorial board is one of the key parts of a journal, it is a decision-making body with respect to the content and thematic focus of the journal. It also develops strategies and visions which the journal follows in its publishing. The editorial board's prestige reflects the quality of the whole periodical. In the context of untrustworthy journals, editorial board is connected with the below-mentioned criteria; however, they are mostly problematic.

Criteria

The same editorial board for a whole portfolio of journals

Fictitious members of editorial boards

Well-known and successful researchers are included among the editorial-board members without their knowledge.

The editorial board has only a few members or it is not international and its members come mainly from developing countries

Affiliation of the editorial-board members is not accurate

Questionability of criteria

As there are several thousand journals, it is practically impossible to ascertain whether one editorial board is connected with multiple journals.

This criterion can only be verified by searching for the board members on the websites of their institutions. Besides the time-consuming nature of verifying this criterion, especially when the editorial board has many members, not all institutions provide information about their employees or students due to personal data protection.

Not all scholars provide information about their membership on the website of their institution. Reasons for this may vary (e.g. the design of their institution's website does not allow it, lack of interest on the side of the author, no obligation to provide such information, etc.). Therefore, this criterion can only be verified by contacting the scholar directly. The question remains to what extent are scholars willing to reply to questions regarding their membership on editorial boards.

In terms of the number of editorial-board members, authorities such as COPE, DOAJ, OASPA and WAME do not set out any standard for whether this criterion is violated or fulfilled.

Even the prevalence of people from developing countries on the editorial board and the implied lower quality of editorial work is controversial. Under globalization, an increasing number of representatives from third countries on editorial boards is a natural development. In particular, there are many regional journals whose editorial-board members are mostly from the respective region, yet such journals are not lacking in professional quality.

This is the only criterion associated with the editorial board which we recommend checking, although we are aware that even this criterion may be problematic. As follows from the sample below, even such a prestigious journal as CA: A Cancer Journal for Clinicians with the highest impact factor (223.679 v r. 2018) does not provide the full affiliation (i.e. institution and state/city) of its editorial-board members but only their institutions. In the case of strict control, this would mean that in terms of formal criteria, this journal would be evaluated as untrustworthy. Nevertheless, we recommend checking this criterion, because only with full affiliation can an author or reader identify an editorial-board member unimpeachably. At the same time, this is also a criterion set by the COPE, DOAJ, OASPA and WAME authorities.

Viley Online Library		Se
CA: A Cancer Jouri номе авоит ~ со Editorial Board		
Editor Ted Gansler, MD, MBA, MPH American Cancer Society Associate Editors Durado Brooks, MD, MPH American Cancer Society Keith A. Delman, MD, FACS Winship Cancer Institute of Emory University	Senior Director, Journals and Publishing Esmeralda Galán Buchanan American Cancer Society Managing Editor Jin Hee Kim American Cancer Society	Books Publisher Shawn Morton Wiley Senior Production Editor Rich Nagurka Wiley
Walter J. Curran, Jr., MD Winship Cancer Institute of Emory University Gini Fleming, MD University of Chicago Medici Susan Gapstur, PhD, MPH American Cancer Society Frederick L. Greene, MD	Cathy Meade, PhD, RN, FAAN Moffitt Cancer Center Kevin Oeffinger, MD Duke University School of Medicine William K. Oh, MD Mount Sinai School of Medicine	William Phelps, PhD American Cancer Society Charles R. Thomas, Jr., MD Oregon Health and Science University Andrew J. Vickers, PhD Memorial Sloan-Kettering Cancer Center

2.1.5 The name of the editor-in-chief included

Following the preceding criterion, you should also check whether the journal provides clear information about its editor-in-chief either on its website or in the journal itself. Like in any other normally operating organization, journals must have a person responsible for certain processes. Whether an article is accepted or declined is decided by the editor-in-chief of the journal.

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On the website of the journal *Parkinson's Disease*, only information about the editorial board is available, but no mention of the editor-in-chief can be found.

2.1.6 Unambiguous identification of the publisher

A common practice of untrustworthy journals is that instead of providing unambiguous information about their publisher, they either do not mention the publisher at all or they replace it with the name of the journal. Being able to unambiguously identify the publisher is vital because it helps the reader or potential author learn who owns the journal. In this way authors immediately get an idea about the expected quality of the editorial work, especially when the owner is a traditional publishing house such as Elsevier, Springer, etc.

When verifying this criterion, the publisher can commonly be found in the footer of the website with information about copyright. In the example below, the website footer of the journal *Medicine* includes a statement that the publisher is Wolters Kluwer Health, Inc. The name of the publisher serves also as a link to its website.



By contrast, the website of the journal *Neuropsychiatry* mentions in the footer only the name of the journal and next to it an address without any addressee.

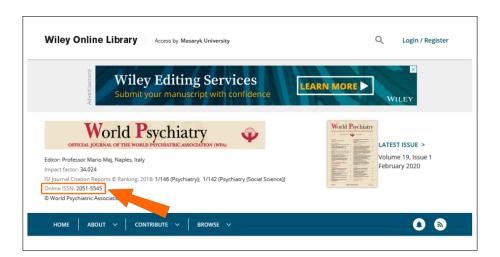


2.1.7 The journal provides an ISSN on its website and the ISSN is valid

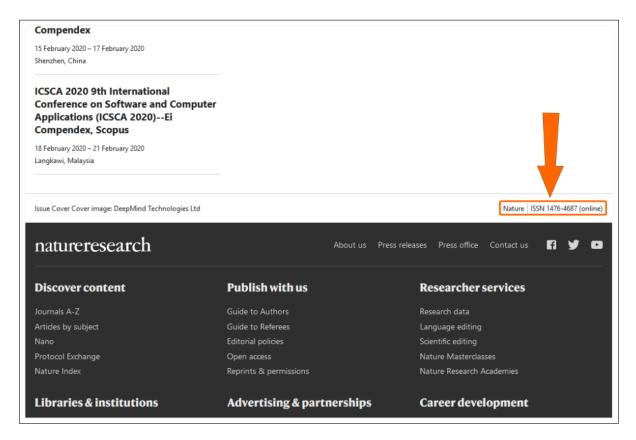
The ISSN (International Standard Serial Number) provides important information about a journal, because it is an unambiguous identifier which prevents readers as well as potential authors from confusing journals with similar titles. When verifying this criterion, first the ISSN of the journal must be found and then checked on the ISSN Portal (https://portal.issn.org/). One should verify whether the journal can be retrieved on this portal according to its ISSN and whether the information recorded in the ISSN corresponds to that included on the website of the journal (e.g. information about the publisher, the frequency of the journal's publication, etc.).

When trying to find the ISSN, you need to inspect the website of the journal very thoroughly, because it may not be easy to find at first sight.

You can see this in the following examples. While the journal *World Psychiatry* provides its ISSN right in the heading of its website...



... the journal *Nature* placed this information just above the footer of its website and only in small print.



Sometimes finding the ISSN may be complicated. For example, the journal *Cell* does not provide its ISSN either on its homepage, or on any subpages in the About section, where the reader would commonly expect such information, but instead only on the page with information about subscriptions.

c≥ Cell	Log in Register Subscribe Claim Q 🗮
Would you recommend that your institution subscribe to this Recommend	journal? Recommend to your librarian today!
Subscription Options Change journal selection: Cel	Go
Cell ISSN: 0092-8674	Subscription 12-months access
\$339.00 USD Add to cart	Choose a Region United States Canada International Subscription Type
	Personal
	Access Online Only Online + Print Feedback \$\mathcal{\mathcal{P}}\$

2.1.8 Accurate information about the journal's citation metrics in the Journal Citation Reports and Scopus

One of the most distinctive features of untrustworthy journals is an effort to deliberately confuse authors by falsely proclaiming metrics that have allegedly been assigned to the journal in the databases Journal Citation Reports (JCR) and Scopus. While the JCR database calculates the impact factor for journals indexed there, Scopus calculates three metrics for their journals – CiteScore, SNIP and SJR (we discuss metrics in a separate study material).

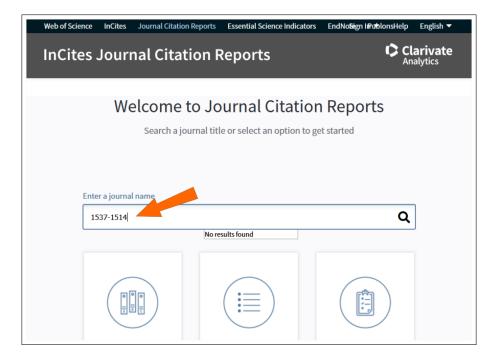
Untrustworthy journals present on their websites the value of certain metrics, the names of which are similar to the above-mentioned metrics (e.g. Global Impact Factor, Journal Impact Factor). The aim is to lure authors into publishing their articles in an untrustworthy journal and collect article processing charges. With regard to evaluation of scholarly achievements and the author's prestige, publishing in a journal with impact factor in particular is a great motivation. Therefore, untrustworthy journals take advantage of this and try to mislead authors by providing metrics with names similar to the metrics provided by JCR and Scopus on their websites.

In this case verifying this criterion is very easy, because any time you encounter a journal providing metrics of a similar name like impact factor, CiteScore, SNIP and SJR, just search for the journal in JCR or Scopus and check whether the journal is listed there and has a current value of the respective metrics. Here you need to remember that the values of the metrics are published with a certain delay. For example, impact factor is commonly published in June or July. Therefore, the most recent value in the first half of 2020 will be for the year 2018, and in the second half for 2019.

Journals commonly provide citation metrics on their website or in the section about indexation in databases. In the below-mentioned example with the journal China-USA Business Review, the metrics are provided in the section Indexing. In this case the metric's name JIFACTOR may indicate either an effort to mislead authors by deliberately providing metrics with a name similar to the official one or providing false metrics (for more information about false metrics, see below).

DAVID PUBLISHING COMPANY From Knowledge to Wisdom								
Home Journals	Books	Conferences	Services	Submission	Subscription	Cont		
Paper Status Tracking >>>	Journals							
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About This Journal Editorial Board Members	~		requency: quarterly olume 18, Number 3,	July-Sept. 2019 (Seri	al Number 185)			
Reviewers								
Guidelines	Index	ting						
Publication Ethics Statement		oogle Scholar						
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Submission		ndex Copernicus, Poland						
Subscription		NVUR (Italian National	Agency for Evaluation	n of University and res	earch Institues), Italy			

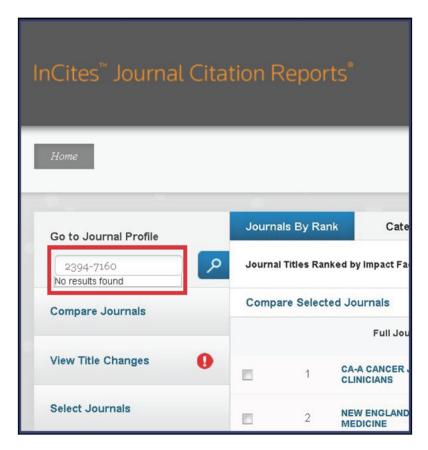
Because the text with the name of the metrics is not a link to a website with more information, we need to make sure whether the journal is listed in JCR and whether these metrics are genuine. From the figure below, it is obvious that the journal is not indexed in JCR and therefore did not meet the criterion, because it is either lying about being indexed in JCR or provides false information about the metrics.



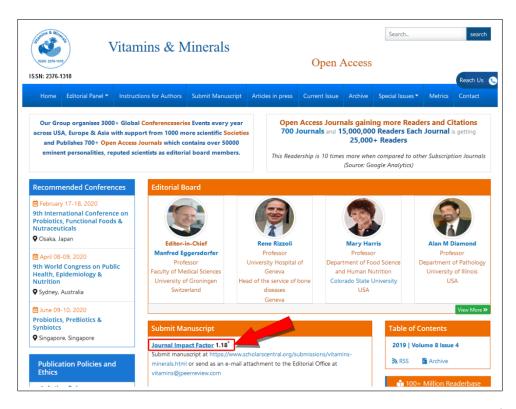
Another example of a journal falsely claiming to have citation metrics is the *Indian Journal of* Advanced Nursing, which declares that it has an impact factor of 2.002 (this is a moving bar where also IBI Factor is provided – see below the section about untrustworthy metrics).



When trying to verify the value of these metrics in JCR, we learnt that this journal is not indexed in this database.



A different situation is shown in the example of the journal *Vitamins & Minerals* with the metric Journal Impact Factor. This may either be an attempt to imitate the name of the real impact factor from JCR with the aim to confuse authors or providing a misleading metric.



Contrary to the preceding example, here the name of the metric is a link to a website (see below) with a description of its calculation method. Although the calculation itself does not differ from the real impact factor, the basis for calculating this metric are citations from Google Scholar Citation Index database according to the information provided (see below). The journal violated the criterion *Accurate information about citation metrics in Journal Citation Reports and Scopus* by the fact that it used the official name of the real impact factor for its own metric, namely Journal Impact Factor. At the same time, the journal also did not comply with the criterion *Providing misleading citation metrics* because basing a metric on a system that uses even citations from presentations is questionable.

5 Year Journal Impact Factor

The 5 year journal impact factor is the average number of times, the articles published in a journal get cited in last 5 years. It is calculated by dividing the number of citations received with the total number of articles published in previous five years. The 5 year journal impact factor is available only for the journals that completed 5 or more volumes.

Aggregate Journal Impact Factor

The aggregate journal impact factor for a subject category is calculated using the same method as the journal impact factor for a journal, but it also includes the number of citations for all journals in the category and the number of articles from all journals in the category. An aggregate journal impact factor of 1.0 implies that the articles in the subject category published in recent two years have been cited once on an average. The median Impact factor is the median value of all journals impact factors in the subject category. The journal impact factor extenuates the significance of absolute citation frequencies. It alleviates the advantage of large journals over small journals because large journals circulate a larger body of citable literature. It also mitigates the benefit of frequently issued journals over less frequently issued ones and of older journals over newer ones. For the reason that the journal impact factor offsets the advantages of size and age and it is a helpful contrivance for journal evaluation.

*2017 Journal Impact Factor was established by dividing the number of articles published in 2015 and 2016 with the number of times they are cited in 2017 based on Google Scholar Citation Index database. If 'X' is the total number of articles published in 2015 and 2016, and 'Y' is the number of times these articles were cited in indexed journals during 2017 then, journal impact factor = Y/X

2.1.9 Accurate information about indexation in Web of Science and Scopus

Authors are motivated to publish in journals indexed in the Web of Science (WoS) and Scopus because their evaluation is based on that. However, one should always check whether a claim about being indexed in one of these databases is true (medical professionals may also consider MEDLINE PubMed).

A journal's claim about being indexed in WoS or Scopus can be verified either in the database directly or according to the content of both databases available publicly. In the case of WoS, you can use the online search engine Master Journal List. The list of Scopus indexed journals can be downloaded on the website Elsevier in the section Solutions > Scopus > How Scopus works > Content coverage > Titles on Scopus, na kterých by je uživatel očekával, ale pouze na stránce s informacemi pro předplatné.

The necessity to carefully check information on journals' websites is shown on the example of *American Journal of Analytical Chemistry*, which gives Web of Science (Clarivate Analytics) at the first place in the section Indexation. This is complemented with data about citation rates and a link to a preview from WoS documenting this indexation.



This text may give you the impression that the journal is indexed in Web of Science, although this is not the case (see below the preview from WoS). In reality, this preview from WoS only proves that the *Journal of Analytical Chemistry* was cited by other journals in WoS.

Web of Science InCit	tes Journal Citatior	Reports Ess	ential Science Ir	ndicators End	dNote Publons	Kopernio	Sign In 👻	Help 🔻
Web of S	Science							C A
				Тос	ols 🔻 Search	es and alerts 👻	 Search His 	tory N
Select a database	Web of Science	Core Collecti	on		•		Learn about ale	rting enha
Basic Search	Author Search ^{BETA}	Cited Referen	ce Search	Advanced S	Search St	ructure Search		
Your search found r Enter full or partial na If the name includes t Unsure if the name di See search rules and	ames using wildcard the word AND, enclosi isplays & or AND? Loo	se the word in a	uotation mar	ks (e.g., Cellula	ar "AND" Tissue	Research).		
American Journ	al of Analytical C	Put	lication Nam	ie	•	Search	Search tips	

2.1.10 Providing misleading citation metrics

Untrustworthy journals try to gain the appearance of being prestigious by providing various citation metrics which have nothing in common with impact factor, CiteScore, SNIP and SJR from JCR and Scopus. Most frequent are metrics combining an adjective with the term impact factor (e.g. Global Impact Factor, General Impact Factor, IBI Factor etc.). The problem of these metrics is their lack of transparency. Their method of evaluation is either not published or is based – even partially – on a subjective evaluation of journals.

This means that if you encounter a different metric than impact factor, CiteScore, SNIP and SJR from JCR and Scopus, you should try to learn more about the metric. In the chapter about citation metrics in JCR and Scopus the journal *Vitamins & Minerals* with the metric Journal Impact Factor served as an example. We also explained the method by which it is calculated, which includes citation data from Google Scholar Citations. With regard to the fact that Google Scholar Citations does not distinguish whether an article is cited by properly published texts or by various other documents such as presentations, drafts, etc., the data about citation rates can be considered questionable and as a result the entire metric is irrelevant.

Another example of a misleading citation metrics is IBI factor provided by the *Indian Journal of* Advanced Nursing on its website which was mentioned in the part about citation metrics in JCR and Scopus.



After searching on the internet the method of calculating IBI factor can be found (see a sample below). However, we find this metric controversial.

A journal can have an IBI factor anywhere between 0 and 5. IBI factor is calculated as follows-
A. QUALITY OF ARTICLES- 10 Points <u>(Total number of Original Research Articles+ Total number of review articles) X 1</u> 0 (Total number of articles in the past one year)
B. STABILITY OF THE JOURNAL- 10 Points 1.Date on which 1st issue of the journal was published- 2.Total number of issues published in the past one year- 3.Has there ever been a delayed issue- 4.If yes duration/ average duration of delay of issue/ issues-
C. TECHNICAL QUALITY- 10 Points 1.Does the journal have an ISSN number- 2.Does the journal have a website- 3.Are full text articles available online- 4.Are abstracts available in English (If the journal is published in a language other than English) 5.Formats in which articles are made available in the website- Format Yes/No HTML PDF XML
6.Tools made available to authors on the website for managing bibliographic information- Tools Yes/No Ref Works
Others If others, please mention which one. 7.Does the journal assign DOI numbers to articles- 8.Does the journal website provide download statistics- 9.Does the journal have both print and online versions-
D. INTERNATIONALIZATION- 10 points 1.Percentage of international editors in the editorial board- 2.Percentage of international reviewers- 3.Percentage of international authors-

The method of calculating IBI factor is as follows: first the journal is awarded points for criteria divided into sections A to E. Then the resulting IBI Factor is calculated according to the equation:

$$\frac{A+B+C+D+E}{10}$$

IBI Factor can be considered a misleading metric for several reasons:

- One question is whether it is possible to evaluate almost 5,000 journals on a yearly basis in the way described above, especially due to personal issues.
- The metric is not transparent. For example, already in the first section A, it is not clear why the sum of journals should be multiplied by 10 and why the number of this year's articles should be divided by the number of articles published the last year. In the other sections, it is not clear whether a journal receives 10 points only if it complies with all criteria, or if the points in the given section are divided by the number of criteria and journals then receive the respective number of points for the given criterion (e.g. if a journal complies with only one criterion out of four in the section B, does it receive 0 points or 2.5 points?).
- The criteria are controversial. For example, because there is no law or norm ordering that a journal should be a weekly, monthly, or yearly periodical, the criterion in section B evaluating the number of issues published last year is irrelevant. Similarly, journals are not obliged to have a website, therefore the criteria 2, 3, 5, 6, and 8 are also irrelevant.

In this way other criteria in the following sections could also be proven wrong or useless. Nevertheless, for the purpose of this material, the notes provided above suffice to demonstrate that it is vital to check metrics other than those from JCR and Scopus thoroughly.

2.1.11 Assessment Table

#	Criterion name	Method of criterion ver- ification	Parameters for criterion	Score	Points
1	Unambiguous determination of article	Does the journal website give the exact amount of article processing charges?	The journal states that it does not collect any article processing charges.	1	
	processing charges		Yes, the journal gives a spe- cific final amount of the charges.	1	
			The amount of charges is un- clear (for example, the jour- nal states the price per ar- ticle, adding that any addi- tional pages will be subject to extra charge without specify- ing the charge).	0	
			The journal does not state the amount of article processing charges.	0	
2	Affiliations of editorial board members	Does the journal website include complete affiliations for all editorial	The affiliation is complete and includes the institution and the city/country.	1	
		board members, i.e. the name of the institution and the city/country?	The affiliation is incom- plete, with either the name of the institution or the city/country missing.	0	
			No affiliation is given.	0	
3	Description of the review	Does the journal website include a detailed	Yes, a description of the re- view process is included.	1	
	process	description of the review process – whether it is a double-blind peer review or open peer review and how many reviewers	The website only says "peer- reviewed" without giving fur- ther information about the process.	0	
		assess the articles?	No, a description of the re- view process is not included.	0	
4	Free and open access to full	Does the journal website allow users to freely	Yes, articles can be freely downloaded or viewed.	1	
	text	download or view full-text articles from the current volume?	No, some or all of the articles cannot be downloaded or viewed.	0	

#	Criterion name	Method of criterion ver- ification	Parameters for criterion	Score	Points
5	Name of the	Does the journal website	Yes, it does.	1	
	editor-in-chief is included	give the name of the editor-in-chief?	No, it does not.	0	
6	Unambiguous	Does the journal website	Yes, it does.	1	
	identification of the publisher	clearly identify the publisher (usually in the website footer in the copyright information), rather than just giving the title of the journal?	No, it does not.	0	
7	Journal states its ISSN on its website and the	Does the journal or publisher website include the journal's ISSN	Yes, it is stated on the jour- nal's website and it is verifi- able via ISSN Portal.	1	
	ISSN is valid	(International Standard Serial Number) and is the ISSN verifiable via https://portal.issn.org/?	Yes, it is stated on the jour- nal's website, but it is not ver- ifiable via ISSN Portal	0	
			No, it does not.	0	
8	Accurate information	If the journal website gives information about	The journal does not give any citation metrics.	1	
	about the journal's citation metrics in Journal	e any of the citation metrics in JCR or in Scopus, this information is verified in data ones in ICR /Scopus		1	
	Citation Reports and Scopus	whether the journal gives the most up-to-date information.	The journal gives metrics from both databases, but some of them are not the most up-to-date ones in one of the databases.	0	
			The journal gives metrics from both databases, but none of them is the most up-to-date in either of the databases.	0	
			The journal only gives met- rics from one database, but none of them is the most up- to-date one.	0	

#	Criterion name	Method of criterion ver- ification	Parameters for criterion	Score	Points
9	Accurate information	If the journal website gives information about indexing in Web of Science or Scopus, this information is verified in the databases to see	The journal does not give any information about indexing.	1	
	about the journal's indexing in Web of Science and		The journal gives accurate in- formation about indexing in both databases.	1	
	Scopus	whether they include the current or previous volume of the journal.	The journal gives information about indexing in one of the databases and the informa- tion is accurate.	1	
			The journal gives informa- tion about indexing in both databases, but the informa- tion is false in the case of one of the databases.	0	
			The journal gives information about indexing in one of the databases and the informa- tion is false.	0	
10	10 Referring to a questionable citation metric or database	Does the journal website include information about any questionable citation	The journal website does not refer to any questionable met- ric or database.	1	
		metrics or databases?	The journal website refers to a questionable metric or database.	0	
	Nu	mber of points needed to	meet all evaluation criteria	10	

2.2 Evaluating the professional quality of a journal

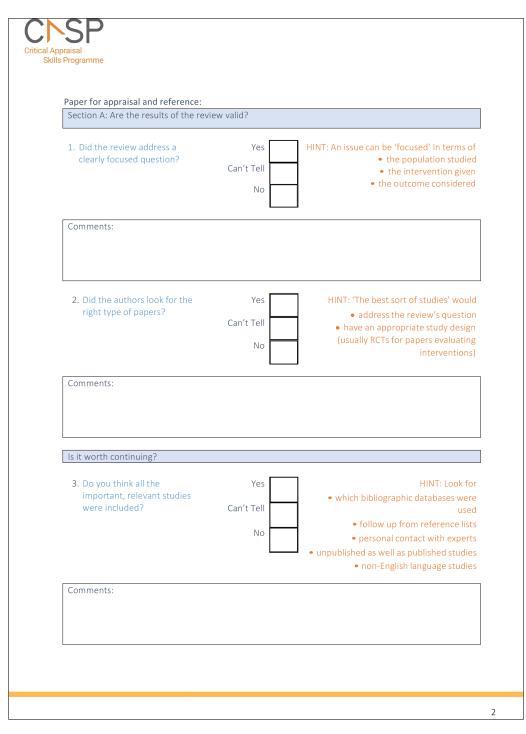
The second step during journal evaluation must be an analysis of the journal's content, one focused mainly on its professional quality rather than on bad grammar or spelling as commonly associated with untrustworthy journals. Many authors have published in untrustworthy journals because they did not assess its professional quality, despite the fact that they can use one of the following tools for examining the quality of text processing besides their professional knowledge.

For example, the Joanna Briggs Institute created critical appraisal tools for various types of studies with questions checking comprehensibility, attention to detail, objectivity, and verifiability of the research results. Each of these questions is also complemented with an explanation of what specifically the question is aiming at in the article.

	iewerDate horYear				
Auti	IGIIGIIGII	Yes	No	Unclear	Not applicabl
1.	Were patient's demographic characteristics clearly described?				
2.	Was the patient's history clearly described and presented as a timeline?				
3.	Was the current clinical condition of the patient on presentation clearly described?				
4.	Were diagnostic tests or assessment methods and the results clearly described?				
5.	Was the intervention(s) or treatment procedure(s) clearly described?				
6.	Was the post-intervention clinical condition clearly described?				
7.	Were adverse events (harms) or unanticipated events identified and described?				
8.	Does the case report provide takeaway lessons?				
Ove	rall appraisal: Include 🗆 Exclude 🗌 Seek fur	ther info			
	rall appraisal: Include 🖵 Exclude 🖵 Seek fur ments (Including reason for exclusion)	ther info			

Sample of critical appraisal checklist for case reports from the Joanna Briggs Institute

Similar aid is provided by checklists from the Critical Appraisal Skills Programme containing questions about the clarity of aims and results of the research, the suitability of the chosen research method and the gathering of results, as well as compliance with ethical principles of research. These checklists help authors to assess the quality of the content of randomly chosen articles not only based on their specialization but also with the help of a standardized method. In this way authors can get an idea about the quality of editorial work and the journal's requirements for the professional quality of the published articles.



Sample from the Critical Appraisal Skills Programme case studies checklist

2.3 Learning about the journal's operating procedures

The third step when evaluating a journal is to try learning about the way the journal operates. In the case of journals with open peer review, it is necessary to read some peer reviews and the communication between the reviewers and the editor, as this provides the most accurate information about the review process and the editor's reasons for accepting an article.

BMC Medicine									
Home About Articles Submission	Guidelines								
	Open Peer Review Reports for:								
	Regulating digital health technologies with transparency: the case for dynamic and multi- stakeholder evaluation								
	< <u>Back to article</u> Pre-publication versions of this article are available by contacting info@biomedcentral.com.								
	Original Submissi	ion							
	4 Sep 2019 Submitted Original manuscript								
	15 Sep 2019	Reviewed	Reviewer Report - Joseph Kvedar						
	24 Sep 2019 Reviewed Reviewer Report - Josip Car								
	1 Oct 2019 Author responded Author comments - Elena Rodriguez-Villa								
	Resubmission - Version 2								
	1 Oct 2019	Submitted	Manuscript version 2						
	2 Oct 2019	Reviewed	Reviewer Report - Josip Car						
	6 Oct 2019	Reviewed	Reviewer Report - Joseph Kvedar						
	10 Oct 2019	Author responded	Author comments - Elena Rodriguez-Villa						

The publishing house BioMed Central opted for an open peer review in many of its journals; reviews together with the authors' reaction to them are publicly available. In this way, a reader can gain a precise idea about the course and quality of the review process and also about the journal or publisher's interest to publish only works of quality.

Since such open peer review is rarely employed by journals, we depend on information from secondary sources in this step. These sources may include platforms such as ResearchGate, Academia.edu, Retractionwatch.com, and Retractiondatabase.org, where researchers share their experience with publishing. Naturally, the information obtained on these platforms needs to be assessed critically. For example, one cannot conclude that the journal as a whole or its publisher are untrustworthy after seeing one article with forged or otherwise manipulated results. Instead, one should check whether, for example, the editorial board of the journal properly retracted the article afterwards. Or in the case that one uses platforms such as ResearchGate, one must pay attention to whether the discussants support their claims with evidence.

Indexation of a journal in Journal Citation Reports (JCR) and Scopus may also indicate how reliable the journal is. This is because if a journal fails to meet JCR's and Scopus's evaluation criteria or exhibits non-standard citation practices, the journal is excluded from their interface accessible to users. Therefore, users should be interested in the reasons why the indexation of a journal was interrupted or terminated. JCR provides these reasons in a brief form in its title suppression list and Scopus in its discontinued titles list. If necessary, one can try to reconstruct their evaluation approach. When evaluating a journal indexed in JCR, one needs to focus on possible non-standard citation practices of the journal (a significant increase or fall in the number of citations, self-citations, and articles, majority of citations from a small group of journals) as well as on compliance with 28 criteria from JCR. In a journal indexed in Scopus, the following data are checked within the journal's field: the self-citation rate, the total citation rate, CiteScore citation metrics, number of articles, number of full-text clicks and abstract usage. For example, in JCR's title suppression list from 2019, the *International Journal of Civic Engi*neering is listed with the note "Self", which indicates that the value of its impact factor is influenced by a high number of self-citations.

Title Suppressions								
Editorial Expression of Concern								
Investigation following on the editorial expression of concern for 2017 data has been completed. Please see the results here.								
Journals Suppressed from 2018 JCR Data (2019 release)								
distortion of the Journal Impact F provides an important and objecti distortion of the Journal Impact F going forward and the titles will be and other Clarivate Analytics proc continue to meet the quality and Expanded and Social Science Ci	are not published due to anomalous citation patterns found in the 2018 citation data. The actor and rank that does not accurately reflect the journal's citation performance in the li ve measure of a journal's contribution to scholarly communication. In the interest of fain actor by an excessive concentration of citations gives rise to the need for suppression. Ja e included in a future edition of JCR when the anomalous patterns are resolved. Coverage fucts is not immediately affected by suppression from the JCR. However, the titles may publication standards necessary for inclusion in Web of Science Core Collection flagship tation Index). For more information, review <u>our suppression policy</u> .	terature. The Journal Impact Factor ess and accuracy for all journals, the ICR staff will monitor these journals o of these journals in Web of Science be subject to review to determine if they						
JCR Title	Full Title	Туре						
ACTA GEOL SIN-ENGL	Acta Geologica Sinica-English Edition	Self						
BONE RES	Bone Research	Expression of Concern						
HISPANIA-J DEV INTER	Hispania-A Journal Devoted to the Teaching of Spanish and Portuguese	Self						
INT J CIV ENG	International Journal of Civil Engineering	Self						
		0011						

If you look at the specific data about this journal in JCR, you will learn that while its impact factor value ranges from 0.372 to 0.695 (average 0.497), its impact factor value without self-citation varies between 0.150 and 0.382 (with an average of 0.254). With regard to the method of calculating the impact factor, this means that approximately half of the citations of articles published in the *International Journal of Civil Engineering* were self-citations. The administrators of JCR considered such a high number of self-citations too significant an influence on the impact factor and therefore excluded the journal from their list.

International Journal of Civil Engineering										Titles ISO: Int. J. Civ. Eng. JCR Abbrev: INT J CIV ENG				
SPRINGER 233 SPRING ST, NEW YORK, NY 10013 RAN											Categories ENGINEERING, CIVIL - SCIE			
io to Jourr	nal Table of	f Contents									Language ENGLISH	es		
											6 Issues/Ye	ar;		
Key In	dicators		Impact											
Key Ind Year 🕶	tdicators Total Cites <u>Graph</u>	Journal Impact Factor <u>Graph</u>	Impact Factor Without Journal Self Cites <u>Graph</u>	5 Year Impact Factor <u>Graph</u>	Immediacy Index <u>Graph</u>	Citable Items <u>Graph</u>	Cited Half-Life <u>Graph</u>	Citing Half-Life <u>Graph</u>	Eigenfactor Score <u>Graph</u>	Article Influence Score <u>Graph</u>	% Articles in Citable Items <u>Graph</u>	Normalized Eigenfactor <u>Graph</u>	JIF	
	Total Cites	Impact Factor	Factor Without Journal Self Cites	Impact Factor	Index	Items	Half-Life	Half-Life	Score	Influence Score	in Citable Items	Eigenfactor	JIF Percenti	
Year 🔻	Total Cites <u>Graph</u>	Impact Factor <u>Graph</u>	Factor Without Journal Self Cites <u>Graph</u>	Impact Factor <u>Graph</u>	Index <u>Graph</u>	Items <u>Graph</u>	Half-Life <u>Graph</u>	Half-Life Graph	Score <u>Graph</u>	Influence Score <u>Graph</u>	in Citable Items <u>Graph</u>	Eigenfactor <u>Graph</u>	JIF Percenti <u>Graph</u>	
Year - 2016	Total Cites <u>Graph</u> 318	Impact Factor <u>Graph</u> 0.624	Factor Without Journal Self Cites <u>Graph</u> 0.340	Impact Factor Graph 0.718	Index Graph 0.120	Items Graph 50	Half-Life Graph 5.1	Half-Life Graph >10.0	Score Graph 0.00050	Influence Score Graph 0.136	in Citable Items Graph 100.00	Eigenfactor Graph 0.05734	JIF Percenti Graph 22.80	
Year - 2016 2015	Total Cites <u>Graph</u> 318 211	Impact Factor Graph 0.624 0.372	Factor Without Journal Self Cites Graph 0.340 0.264	Impact Factor Graph 0.718 0.582	Index Graph 0.120 0.076	Items Graph 50 66	Half-Life Graph 5.1 5.2	Half-Life Graph >10.0 >10.0	Score Graph 0.00050 0.00048	Influence Score Graph 0.136 0.145	in Citable Items Graph 100.00 98.48	Eigenfactor Graph 0.05734 0.05517	JIF Percenti Graph 22.80 15.47	
Year - 2016 2015 2014	Total Cites Graph 318 211 151 94 99	Impact Factor Graph 0.624 0.372 0.468 0.397 0.379	Factor Without Journal Self Cites Graph 0.340 0.264 0.240 0.382 0.196	Impact Factor Graph 0.718 0.582 0.711	Index Graph 0.120 0.076 0.060	Items Graph 50 66 50	Half-Life Graph 5.1 5.2 4.2	Half-Life Graph >10.0 >10.0 >10.0	Score Graph 0.00050 0.00048 0.00053 0.00047 0.00023	Influence Score Graph 0.136 0.145 0.192 0.186 Not	in Citable Items Graph 100.00 98.48 100.00 100.00 100.00	Eigenfactor Graph 0.05734 0.05517 0.05902 0.05203 Not	JIF Percenti Graph 22.80 15.47 17.20 19.75 23.36	
Year - 2016 2015 2014 2013	Total Cites Graph 318 211 151 94	Impact Factor Graph 0.624 0.372 0.468 0.397	Factor Without Journal Self Cites Graph 0.340 0.264 0.240 0.382	Impact Factor Graph 0.718 0.582 0.711 0.487	Index Graph 0.120 0.076 0.060 0.286	Items Graph 50 66 50 7	Half-Life Graph 5.1 5.2 4.2 Not	Half-Life Graph >10.0 >10.0 >10.0 >10.0	Score Graph 0.00050 0.00048 0.00053 0.00047	Influence Score Graph 0.136 0.145 0.192 0.186	in Citable Items Graph 100.00 98.48 100.00 100.00	Eigenfactor Graph 0.05734 0.05517 0.05902 0.05203	JIF Percenti Graph 22.80 15.47 17.20 19.75	

On the other hand, Scopus has the criterion "Number of articles". Here it checks whether a journal published half the number of articles or less than other journals from the same field. However, it does not provide reasons for why the bar was set to half and not a different percentage. Moreover, this criterion ignores the fact that due to the varying publication schedules of journals, the number of articles published may differ as well.

3 Author mills – dubious practices with monographs

Unfair publishing practices have affected even the field of monograph publication. A typical example is the so-called author mill or academic author mill. This term refers to publishers' practices where the business model consists of producing a large number of titles in very small editions – the very opposite of well-established publishing houses which focus on a limited number of good-quality authors and publish their works in thousands of copies. The target group of these publishers are usually postdoctoral researchers whom such publishers actively try to persuade to publish their doctoral theses with them.

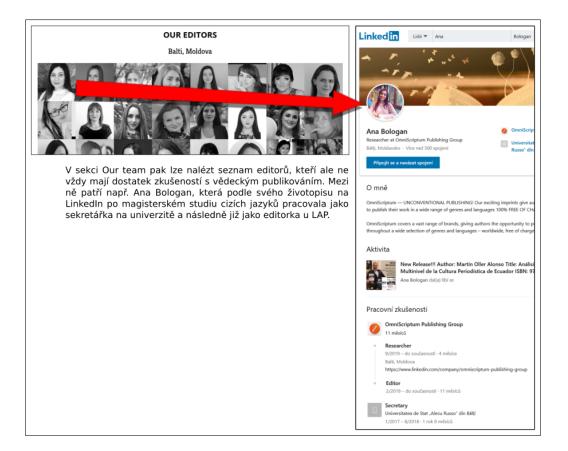
Recognizing bogus publishers is more difficult compared to identification of untrustworthy journals, because publishers of books do not commonly provide detailed information on their websites regarding the description of the review process, editorial board, etc. Therefore, one should pay attention to various details and, above all, consult one's colleagues for what experiences they might have had with the publisher (e.g. whether there was a review process, what care was devoted to final language editing, etc.).

Od e.ardeleanu@lappublishing.com 🛱	Odpovědět	→ Přeposlat	Archivovat	👌 Nevyžádaná pošta	🗊 Smazat	Více 🗸
Předmět Academic Publishing					14.12.2	2010 14:10
Komu Jiří Kratochvíl 🚖						
Dear Jiří Kratochvíl,						^
I am writing on behalf of the International publishing house, LAP	Lambert Ac	ademic Pu	blishing.			
In the course of a research on the Masaryk University, I came acro	ss a refer	rence to y	our work i	in the field of	f Medicin	ne.
We are an International publisher whose aim is to make academic re	search ava	ailable to	a wider a	audience.		
LAP Publishing would be especially interested in publishing your d	issertatio	on in the	form of a	printed book.		
Your reply including an e-mail address to which I can send an e-ma	il with fu	urther inf	ormation i	in an attachmer	nt	
will be greatly appreciated.						
I look forward to hear from you. Kind regards,						
Elena Ardeleanu Acquisition Editor						
LAP LAMBERT Academic Publishing GmbH & Co. KG Dudweiler Landstraße 99						
66123 Saarbrücken Germany						
Fon +49 681 3720-310 Fax +49 681 3720-3109						
e.ardeleanu(at)lap-publishing.com / www.lap-publishing.com						

The publisher Lambert Academic Publishing (LAP) sent to Jiří Kratochvíl, one of the authors of this material, an offer to publish his PhD thesis as a book. The suspicion that LAP is a bogus publisher arises based on two factors. Firstly, the e-mail was sent in December 2010, yet Jiří Kratochvíl did not finish his PhD thesis and defend it until May 2013. Secondly, LAP state in the e-mail that they received a reference to Jiří Kratochvíl in the field of medicine, when in fact Jiří Kratochvíl was studying humanities



If you look at the website of LAP, under the link "Why choose us?" you can find – among other things – the information about the review process shown above. Of course every author can decide for themselves whether publishing a book, especially a scholarly one, without any review represents a real contribution to science. In any case, LAP's justification for publishing PhD theses (or other graduate theses) without any peer-review process on the basis that the thesis underwent a similar process at the PhD student's university, is controversial. This approach completely ignores the fact that even when the defence is successful, theses are of varying quality.



4 Conclusion

As it follows from this material, today it is an absolute must to carefully evaluate the quality of publications by the respective publisher. The ability to identify untrustworthy journals is becoming a natural part of the publication process. Before authors submit their article, they should always consider whether the publisher and its work display characteristics of untrustworthy publishing. When selecting a journal, authors must pay attention to whether all crucial information is provided and in a transparent way (e.g. contact details, clearly set financial policy of the publisher, verifiability of the professional qualification of editorial-board members, clearly set course of peer-review process, provision of only relevant citation metrics, etc.). Moreover, one cannot rely only on checking the formal criteria of a journal, rather one must also focus on its professional quality as well as the way the journal operates.

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