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Legitimacy of citations in predatory publishing:

The case of proliferation of papers by Serbian authors in two Bosnian WoS-indexed journals

Pero Šipka

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Biographical note

Pero Šipka, PhD, is a trained psychologist and psychometrician. He spent most of his career in teaching statistical, methodological and informetric courses at the University of Novi Sad, where he is presently active as PhD advisor. He has been concurrently serving as President at CEON/CEES from 2002 on. His bio-bibliography is available at http://www.linkedin.com/pub/pero-sipka/35/659/120

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Summary

This paper contains the results of an ad hoc action research undertaken within a CEON/CEES broader project on publishing misconduct in journals from Southeast Europe. Its purpose is to urgently communicate the alarming degree of misconduct practiced by two Bosnian WoS/JCR journals, with substantial involvement of a large group of authors from Serbia who publish extensively and increasingly in the two journals. After comparing them with the other two journals from the same country, also indexed in WoS/JCR, it was found that:

- The two journals, HealthMed and TTEM, are published by an organization (DRUNPP) of unclear identity, low transparency and questionable management.
- The general profile of these journals shows a typical "predatory" pattern characterized by the discrepancy between authors publishing charges and investment in journal quality.
- The two journals are bibliometrically isolated, i.e. not being cited by other quality journals including two controls, and even by small non-WoS Bosnian journals of similar background.
- Relatively high Impact Factor of the two journals comes entirely from self-citations, their mutual citations exchange, and citations delivered by Serbian authors.
- A large amount of those citations is illegitimate, i.e. either unjustifiable, or fabricated.
- The proofs exist of direct engagement of both journals' editorial staff in misconduct. Some of
 these malpractices, e.g. appending article reference lists with items citing their own or the
 other DRUNPP journal without informing authors about the change, are to our best knowledge
 unprecedented in international academic publishing.
- Clear indications exist of willing involvement of authors from several Serbian institutions, which makes them members of a "citation cartel".
- Considering the benefits Serbian researchers have from publishing in WoS journals, these authors, along with editors of DRUNPP journals themselves, have to be tagged as "members of a joint unethical enterprise".
- The cross-border spillover of fabricating citations is already taking place in Serbia, where two authors, one of which is a prominent member of the DRUNPP group, established journals of the very same profile and started the very same malpractice.

The results call for urgent international action of all stakeholders involved. Relevant institutions and individuals involved are in the position to take their fair share:

- (1) The Serbian Ministry responsible for science, as both funding and regulatory institution, as well as the National Council for Science and Technological Development, should take best care that the two DRUNPP journals are removed from the list of international publications, that papers published in the two journals at any time in the past are not recognized as such, and that authors heavily involved in misconduct bear ethical consequences.
- (2) Publisher of WoS/JCR should consider withdrawing DRUNPP journals from its lists, based on the conclusions of this study, as well as on raw materials used to arrive at these conclusions, which form an integral part of the study.
- (3) The authors who published valid papers and have not been indulged in unethical activities should withdraw their papers.
- (4) Affiliated institutions of DRUNPP journals editors-in-chiefs should consider appropriate measures against their staff. They are obviously most responsible for both masterminding technologies of manipulation and engineering sociocognitive framework for the project realization.
- (5) The Committee on Publication Ethics (COPE) as an international organization protecting public interest in this field should examine the case and make appropriate recommendations.

In order to assist actions suggested above, CEON/CEES has prepared a database and web application containing critical data gathered within this study, including proofs for all citations suspected of illegitimacy and all papers suspected of plagiarism. The application is available at http://data-scindeks.ceon.rs/. Relevant institutions are provided with login credentials to access the application and check integrity of the data, as well as the validity of analytical assessments made, in order to make sure that the conclusions of this study are warranted. It was assumed that this was a necessary and sufficient condition for their final decisions about possible interventions.

This study was not supported by any organization and has no clashes of interest.

Introduction

As the publisher of evaluation tools [1, 2] CEON/CEES frequently faces the problem of validity of papers and citations it is dealing with. Also, as a R&D observatory and a member of COPE, we are occasionally warned by researchers and journal editors about various forms of misconduct, influencing their status and income. In reacting to tips by such whistle-blowers we cannot avoid dealing with journals published outside Serbia. At last, while screening journals for a demo of our regional citation index [3] we came across unacceptable editorial practices in some journals, which forced us to remove them from the database. This also forced us to extend our criteria of journal selection to indicators and indices of predatory behavior, plagiarism and citation manipulation.

As a result, in October 2012 we launched a large study on misconduct in journals published in the region of Southeast Europe. This study is to be finished in September 2013. After becoming aware of proliferative publishing of some Serbian authors in some regional journals we had already registered as suspicious of predatory behavior, we decided to redesign our study, to gather additional information, and to process them through more rigorous technologies. Our efforts ended in the form of an ad-hoc, in-depth, action research. Within this research, two Bosnian journals (HealthMed and TTEM) of the same publisher (DRUNPP) were comparatively analyzed along with another two journals from the same country, also covered by Thomson Reuters Web of Science [4] and indexed in Thomson Reuters Journal Citation Reports [5].

Apart from the comparison of journals in terms of their general profiles, policy, and editing practices indicating possible "predatory behavior" [6], we concentrated on differences among them regarding possible manipulation with citations aimed at inflating ones impact. We found this problem

important and up-to-date, since Impact Factor of WoS journals, as the key indicator in the Serbian system of evaluation of researchers, was these days being reconsidered, due to the ongoing procedure to innovate the pertinent government regulations. Regardless to that, we considered the problem worth studying because the results were expected to contribute to the validity of citation rate and journal impact factor. As a promoter of these indicators we share concerns that "prevalence of faulty citations impedes the growth of scientific knowledge" [7]. At last, CEON/CEES was professionally interested in technologies for analyzing validity of citations. Right at the time we were testing our new tools (called CiteMatcher and RefFormater) employed for assisting journal editors by automating the process of checking citations and in-text-citations in terms of accuracy and mutual correspondence.

In this context, we developed a concept of "legitimacy of citations", understood as a degree to which a reference is relevant and useful as opposed to instrumental and faulty. This study was an opportunity to check if a variable derived from this concept can be a predictor of unethical, manipulative behavior of journal editors and article authors.

Method

Journals

Journals analyzed include: (1) Bos J Bas Med Sci, ISSN 1512-8601 [8], Med Glasnik, ISSN 1840-0132, [9], HealthMed, ISSN 1840-2291 [10], and TTEM, ISSN 1840-1503 [11]. Some *ad hoc* comparisons were made with other Bosnian as well as regional medical journals. TTEM does not belong to any medical category, but for some reason to became clear only with the results of this study, it publishes relatively large number of medical papers.

Dataset

The analysis covered the period from 2008 on, which corresponds with the beginning of indexing in WoS of most analyzed journals. All papers published in all regular issues were subjected to the analysis. Three journals (Bos J Bas Med Sci, HealthMed and TTEM) had not published all their issues until November 15 when data processing started. In order to ensure full comparability of 2012 volumes with previously published ones, the final results for this year were predicted. The prediction was based on the results obtained for issues published until this date. TTEM and Bos J Bas Med Sci published two out of four issues of 2012 volume, hence their values were doubled. Values for HealthMed were increased 30%, which was rather arbitrary correction, since HealthMed has changed, but has not defined its new periodicity!

Variables

General profile of journals was described by 24 variables reflecting publisher's status, business model, quality of online version, quality of editing, indexing, voluminosity and performance. These variables are listed in Table 1 given in the Results and Discussion section. One indicator was used to assess citations legitimacy and one additional as a measure of plagiarism in papers.

Procedure

Information to generate variables under 1-16 and 21-22 were taken from journals' or publishers' websites. Impact Factor (23) and self-citation rate (24) were taken from JCR 2011, but were also calculated from our own data. Information to generate other variables listed in Table 1 were downloaded from respective databases or services. Finally, citation legitimacy and incidence of plagiarism were analyzed by processing paper full texts downloaded from the journal websites.

Legitimacy was checked and evaluated for all citations exchanged among analyzed journals (N=705) by using CEON/CEES Citation Legitimacy Scale, developed under a previous study [12]. Two trained experts classified each citation into one of the following five categories:

- LC Legitimate (self)citation: a reference listed in the bibliography and clearly cited in the body of the article showing, at the same time, "face validity" and relevancy.
- PF Possible fabrication: a reference listed in the bibliography of a paper lacking all in-text citations.
- DC Disputable (self)citation: a formally valid reference, but of questionable relevance, as judged from its title and the content & context of in-text citation.
- UC Unjustifiable (unwarranted) citation: an irrelevant reference as judged from its title (and if necessary from the content of cited paper) and the content & context of in-text citation.
- Fabrication (ghost citation): a reference listed in the bibliography which is the only one missing among in-text citations.

Each level of (il)legitimacy was additionally operationalized in the Instructions for experts. Criteria for distinguishing between levels were adjusted to the citation styles used in analyzed journals.

For each citation classified as Fabrication (F), the corresponding or the first author was asked for an explanation. In an email the authors were asked to respond to the short web questionnaire to confirm if each of their F citations are genuine, i.e. given by the authors themselves and, if not, how they explain the absence of the citations in the body of the article. The request mail as well as the questionnaire is given in Appendix 1. Both were prepared in two languages: in Serbian for local authors, and in English for all others.

The incidence of plagiarism was checked by iThenticate [13]. Based on the percentage of the text taken, a size of overlapping segments, a section of the analyzed article, whether the original paper was cited or not, and the overlapping of author names in the analyzed and original paper, each article was classified into one of the following categories:

- OK Plagiarism-free paper.
- A Mild self-plagiarism: unacceptable but frequently practiced borrowing of portions of text, such as whole sentences, from author(s) own previous works and used without proper quotations.
- A+ Crude self-plagiarism: duplication, near duplication, or a paper with large portions of text, such as whole paragraphs, taken from previous studies of the author or members of author team and used without proper quotations.
- P Mild plagiarism: unacceptable but frequently practiced borrowing of portions of the text, such as whole sentences, from works published by others and used without proper quotations.
- P+ Crude plagiarism: article lacking originality; large portions of text, such as whole paragraphs, taken literally or with minimal ("cosmetic") changes from the works of others and used without proper quotations.

Each level of plagiarism was described in some more details in the Instructions for analysts prepared during an earlier study [14, 15].

Results and discussion

Publishers and journals profile

HealthMed and TTEM, the two journals of our primary interest, are published by an organization (DRUNPP, http://www.drunpp.ba/) of unclear status, of vague and pretentious mission, unreliable contact data, and questionable management. The two journals are edited by a married couple, while the technical editorial positions are held by other members of the family. HealthMed and TTEM publication charges are high above those of the two control journals. At the same time their production costs seems to be lower, as judged by indicators reflecting quality of editing, reviewing and publishing on the Internet.

The quality of editing is best illustrated by the fact that in HealthMed the same article was published twice in two succeeding years. The content of both DRUNPP journals can be downloaded only as complete issues in PDF, most of which are of gigantic size. The search of papers full texts is not supported. Journals visibility is extremely low. For rough orientation, publisher's Alexa Traffic Rank is 14,821,116, while Linking In is 6. Journals are not properly indexed even by Google and Google Scholar, probably due to the unprofessionally designed and maintained website. With such a website, having eISSN is perceived as fraudulent and even cynical. Unlike the two control journals, in HealthMed and TTEM no metadata is prepared for OA indexing, at least in DOAJ. It is doubtful whether the publisher sincerely wants their contents to be publicly available at all. It is also questionable whether the legal obligation towards authors to publish their papers in Open Access regime is fulfilled. In view of the fact that both journals are paid per view by Ebsco, which is not an

Open Access but a commercial database, effective online unavailability of DRUNPP journals must be regarded as a result of publisher's business policy, rather than technological incapacity.

Obviously, authors who publish in DRUNPP journals pay much more for much less. In spite of this, their voluminosity grew at an immense rate, as did publication charges. In only a few years, the fees were raised from none to the sums of above €1000. Charges are lower for lower-income countries but, interestingly enough, not for the regional countries falling into the same category. Above paradoxes became reconcilable only later, when we looked at the results of bibliometric analysis.

In conclusion, even a quick look at the publisher's website, journals' archive, and publication charges is sufficient to recognize that HealthMed and TTEM are involved in predatory behavior, as defined by most definitions and as operationalized by Beall's criteria [16].

Indexing in WoS/JCR

The general profile of the two DRUNPP publications (Table 1) is strange for the WoS journals, to say the least. It is even more strange how they entered the Thomson Reuters Master Journal List [17] after all. For example, TTEM was accepted for coverage in WoS in 2008 based on only 23 papers published in 2006 and 2007. Almost half of those papers (10) have been authored by the Editor-in-Chief and/or other members of his family.

HealthMed was accepted for indexation in WoS in 2007 and received its first JCR Impact Factor already in 2008 (?!). The value of IF=0.125 suggests that HealthMed received 3 citations in 2007. According to JCR all three were self-citations, while WoS' Cited Reference Search results in only two citations. One of the two citations was in our study classified as Possible fabrication (PF).

It seems that both DRUNPP journals entered WoS too easily, although we fully understand reasons why a massive number of regional journals was accepted for coverage in 2007-2009 period [18]. It should be pointed out here that HealthMed has never been, and is still not, indexed by Medline and that TTEM cannot be found in disciplinary databases practicing quality control.

Table 1. Publishers and journals profile

	1. Tublishers and journals projile	Bos J Bas	Med	Health	
		Med Sci	Glasnik	Med	TTEM
	6.18.1				- · ·
1.	Publisher's status: ownership	Society	Society	Private	Private
2.	Publisher's status: nature	Academic	Academic	Unknown	Unknown
3.	Publisher's status: size/scope	National	National	Local	Local
4.	Publisher's status: management transparency	Yes	Yes	No	No
5.	Business model: subscription policy	OA-Gold	OA-Gold	OA-Gold	OA-Gold
6.	Business model: Publication charges per	150	250	200-800	cca 1000
	paper (for OA-Gold only)				
7.	Business model: Paper form subscription	150-200	N/A	N/A	N/A
	price				
8.	Online version: eISSN	Yes	Yes	Yes	Yes
9.	Online version: downloading	Papers	Papers	Issues	Issues
10.	Online version: full-text searchability	Yes	Yes	No	No
11.	Editing: CrossRef/DOI	No	No	No	No
12.	Editing: CrossCheck	No	No	No	No
13.	Editing: Compliance with an international	Yes	Yes	No	No
	citation style				
14.	Editing: Online management	No	No	No	No
15.	Editing: Date of acceptance	Yes	Yes	No	No
16.	Editing: Publishing reviewers list	No	No	No	No
	Indexing: in Wos from	2007	2007	2007	2008
	Indexing: IF in JCR from	2009	2009	2008	2010
19.	Indexing: in Medline* from	2004	2010	No	No
20.	Indexing: in DOAJ	Yes	Yes	No	No
21.	Voluminosity: Number of papers published	313**	248	1212**	546**
	Voluminosity: Average growth rate in	-4.3**	46.4	90.2**	117.8**
	analyzed period (%)				
23.	Performance: JCR 2011 Impact Factor	0.489	0.056	0.435	0.351
24.	Performance: JCR 2011self-citation rate	17.76	14.29	90.20	65.67

^{*} For TTEM in other disciplinary database practicing quality control; **figures for 2012 predicted based on the data available on Nov 15, 2012

Intercitations

For publications coming from the same small academic community and the same relatively small city all analyzed journals have relatively poor intercitation rate (Table 2). With only two citations received in five years from control journals, HealthMed and TTEM are practically ignored by authors publishing in the other two journals. The citation rate of the two DRUNPP journals seems to be

equally poor in a dozen of Bosnian non-WoS medical journals. At the same time, HealthMed and TTEM exchange mutually unusually high number of citations, considering they belong to distant research areas: general medicine and information technology!

Table 2. Number of citations exchanged among analyzed journals

				<u>, , , , , , , , , , , , , , , , , , , </u>		
	Bos J Bas	Med	HealthMed	TTEM	Other	Total
	Med Sci	Glasnik			in WoS	
Bos J Bas Med Sci	61	9	14	0	467	551
Med glasnik	0	18	0	0	44	62
HealthMed	1	1	385	21	47	455
TTEM	0	0	27	168	57	252

Rows = citations received; Columns = citations given; results obtained on issues published from 2008 to 2012, Nov 15, i.e. data for 2012 were not corrected for missing issues

Citing journals

Two control journals, especially Bos J Bas Med Sci, are cited by journals from all over the world, some of which are quite prominent (Table A8 in Appendix). On the contrary, two DRUNPP journals received their citations mainly from a few journals, some of which are suspicious of predatory

Table 3. Distribution of citing journals

	Total number of citing journals	Total number of citations	Average number of citations per citing journal	share (%) of citations covered by 5 top-ranked citing journals	share (%) of citations covered by 5 top-ranked citing journals (self-citations excluded)
Bos J Bas Med Sci	383	551	1.44	17.24	7.96
Med glasnik	40	62	1.55	41.94	22.73
HealthMed	39	455	11.67	91.87	50.00
TTEM	23	252	10.96	92.46	79.76

behavior. Looking at figures reflecting the journals diffusion as a measure of their influence (Table 3), we can observe huge differences showing that over 90% of citations to HealtMed and TTEM come from themselves and from only a few additional journals. The large differences between them and control journals remain if we remove self-citations from the analysis (far right column), and even if

we fix the citation window in order to control for journals age, which is for Bos J Bas Med Sci somewhat longer (not presented).

Citing authors

Ranking countries of origin of citing authors, generated here based on the first author affiliation (Table 4), reveals a controversial role of authors from neighboring Serbia (not to be confused with Republic of Srpska which is a part of Bosnia & Herzegovina). Share of citations by Serbian authors is absolutely dominant, but only in DRUNPP journals. In these two journals there are practically no citations coming from a developed and/or scientifically advanced country.

Table 4. Distribution of citations by citing authors country of origin*

		<u>, , , , , , , , , , , , , , , , , , , </u>		, ,			
Bos J Bas Med Sci		Med HealthMed TTEM glasnik		HealthMed			
country	Nc	country	Nc	country	Nc	country	Nc
USA	76	Croatia	18	Serbia	154	Serbia	191
Bosnia&Herzeg.	59	Serbia	6	Bosnia&Herzeg.	81	Bosnia&Herzeg.	32
Peoples R China	49	Bosnia&Herzeg.	6	Turkey	60	Turkey	12
Serbia	28	England	5	Brazil	50	Peoples R China	6
Iran	24	Slovenia	4	Iran	26	Slovenia	4
Italy	24	USA	3	Taiwan	25	Croatia	3
Turkey	24	Turkey	2	Malaysia	13	Lithuania	1
Brazil	19	Iran	2	Slovenia	9	Malaysia	1
Germany	17	Peoples R China	2	Peoples R China	7	Iran	1
India	16	Scotland	2	South Korea	4	Taiwan	1

^{*} Results obtained on issues published from 2008 to 2012, Nov 15, i.e. data for 2012 were not corrected for missing issues; Nc = Number of citations given; only first 10 rankings are displayed.

Contribution of the Serbian authors

If we further concentrate on the history of participation of authors from Serbia in analyzed period (Figure 1; the exact numbers are given in Table A1 in Appendix), we can notice the sharp increase of number of papers in all journals except for Bos J Bas Med Sci. Such incremental growth is evident also for citation rate, but only in two DRUNPP journals. The contribution of Serbian authors to the citation rate of these two journals exploded in 2011 and continued to grow enormously in 2012.

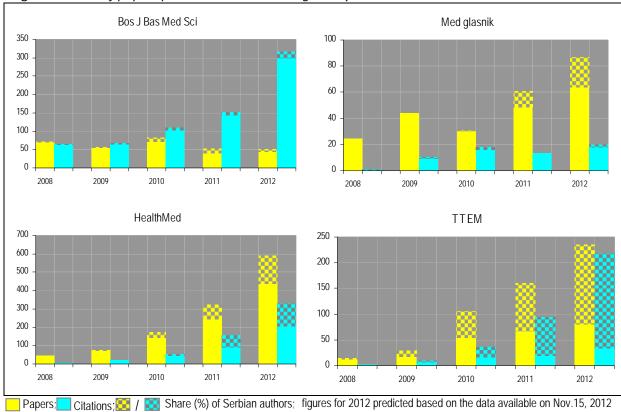


Figure 1. Share of papers published and citations given by Serbian authors

Self-citation rate

Looking at the citations - self-citations dichotomy we find huge differences between DRUNPP and other journals. In the two control journals number of other than self-citations exceeds the number of self-citations four to five times. In DRUNPP journals this relationship is opposite, while the ratio is about the same. With the self-citation rate of 89.8% HealthMed is on the edge of the critical score for deselection from WoS list, while the results of TTEM are equally questionable considering its practically unlimited thematic scope. Both journals have high results in comparison with other regional WoS journals dealing with problems of general medicine, which otherwise are in a good position to attract a sufficient number of other than self-citations (Table 5).

Table 5. Self-citation rate

Table 3. Jelj chatlott fate			
	Publisher	JCR Subject	self-citation
	residence	Category	rate (%)
Bosnian Journal of Basic Medical Science	в&н	Medicine, Res&Exp	17.76
Medicinski Glasnik	В&Н	Medicine, Gen∬	15.38
HealthMed	В&Н	Medicine, Gen∬	89.87
TTEM	В&Н	Engineering, Multi	71.28
Croatian Medical Journal	Croatia	Medicine, Gen∬	9.05
Acta Clinica Croatica	Croatia	Medicine, Gen∬	23.02
Hippokratia	Greece	Medicine, Gen∬	5.00
Experimental and Therapeutic Medicine	Greece	Medicine, Res&Exp	2.08
Balkan Journal of Medical Genetics	Macedonia	Genetics&Heredity	13.64
Revista Romana de Medicina de Laborator	Romania	Medicine, Res&Exp	40.00
Chirurgia	Romania	Surgery	68.73
Vojnosanitetski Pregled	Serbia	Medicine, Gen∬	24.64
Srpski Arhiv za Celokupno Lekarstvo	Serbia	Medicine, Gen∬	20.48
Radiology and Oncology	Slovenia	Oncology	49.19
Zdravniški Vestnik	Slovenia	Medicine, Gen∬	62.25

figures were generated on 2011 volume; for journals not analyzed here data were taken from JCR 2011

Legitimacy of citations

The assessment of citations legitimacy (Figure 2, Table A2 in Appendix) reveals dramatic differences between DRUNPP and the other two journals. Almost all cases of possibly fabricated citations (PF) and all indisputable fabrications (F; ghost citations, the ones cited in bibliography, but not in the body of the article) come from HealthMed or TTEM.

Figure 2. Legitimacy of citations 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% TTEM Bos J Bas Med Sci Med glasnik HealthMed LC = Legitimate (self)citations; PF = Possible fabrications; DC = Disputable (self)citations;

UC = Unjustifiable (unwarranted) citations; F = Fabrications (Ghost citations); results obtained on issues published from 2008 to 2012, Nov. 15, i.e. data for 2012 were not corrected for missing issues

Illegitimate references are not expected in journals indexed in citation databases, where they are most important metadata and where errors are exposed to public view. The huge number of ghost citations in DRUNPP journals clearly suggests that offenders are aware that no control of congruence of citations and in-text-citations is practiced in citation databases, including WoS and Scopus. The picture of the situation is made complete with figures on cross-citations between the two DRUNPP journals. The vast majority of these citations were found to be problematic, while approximately half of them were classified as fabrications (F). A great deal of fabrications in TTEM and especially HealthMed were found among self-citations.

Majority of faulty citations in DRUNPP journals, especially the gravest cases, comes from Serbia and Bosnia (Figure 3; Table A3 in Appendix). For some reason, fabrications (F) of Serbian authors are far more frequent in TTEM, while those of Bosnian authors are dominant in HealthMed. Generally, a non-random distribution of illegitimate citations is indicative of misconduct of journals editorial staff and authors, rather than the sloppy preparation and processing of manuscripts.

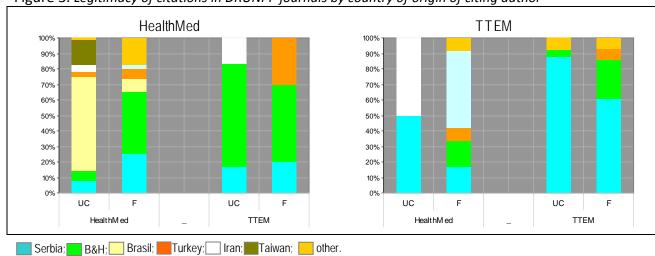


Figure 3. Legitimacy of citations in DRUNPP journals by country of origin of citing author

There are variations in incidence of different types of problematic citations during the analyzed period (Figure 4; Table A4 in Appendix). Fabrications (F) used to be dominant In 2010, while unwarranted (UC) and disputable citations (DC), both reflecting subtle manipulations, became more frequent in 2011.

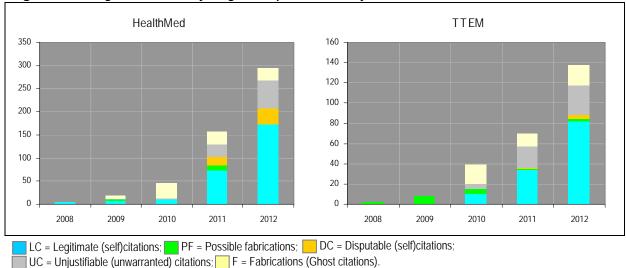


Figure 4. Changes in modes of illegitimacy in DRUNPP journals over time

The growth trend is quite disturbing. As already stated, until the beginning of our data processing DRUNPP journals published barely half of their 2012 volumes. If they kept the same rate of abuse in the rest of 2012 issues, they would reach more than 500 of illegitimate citations. It is comforting that this will probably not happen, but only because their editors got aware of this study, since they received the mail asking them to explain their own illegitimate citations (to which they did not bother to respond).

We also had a look at how old illegitimate references were and at who in such references was typically cited, the author or someone else (Table 6). Results show that young references are far more frequent in DRUNPP journals, but this can almost entirely be attributed to the fact that both the age of journals and their presence in WoS are short. Contrary to expectations, faulty citations seem to be generally older than legitimate references. The proportion of self-citations among young illegitimate citations is lower than among the old ones. Since authors are not interested in citation rate as are editors, this finding observed in isolation indicates that authors in general are more responsible for the illegitimacy of references.

Table 6. The age of citations and author self-citation rate

	legiti	mate	illegitimate citations				
	citations		UC		F		
	aCit	hCit	aCit	hCit	aCit	hCit	
"Young"citations	76	181	32	166	18	88	
"Old"citations	4	27	1	38	0	20	

Young citations = old less than 3 yrs; UC = Unwarranted citations; F = Fabricated citations; aCit = Author self-citations; hCit = Author other than self-citations.

Authors explanations for the fabricated citations

Resolving the controversy about who is to be blamed for illegitimate citing was not quite possible even after analyzing answers to our Internet questionnaire. Only 27 out of 81 authors responded to the request to explain their fabricated citations (N=122; Table 7; Table A7 in Appendix). The general impression is that explanations are inconsistent and apologetic. Almost half of the respondents avoided to answer the questions unequivocally. Along with all those who didn't respond at all (N=84), such authors make the vast majority of problematic citers. Widespread avoidance suggests that those authors either had originally been aware of their offence or got aware of it after receiving our request emails. Based on the answers and accompanying comments, we attributed 8 disputed citations to the authors' error and 13 of them to the journal editors. Hence, even from the authors' perspective, the responsibility for fabrication of citations is shared between them and the editors.

On the other hand, guilt of journal editors seems to be more evident. Several authors attached to the returned questionnaires their manuscripts documenting that they indeed hadn't cited the critical references. In addition, we discovered several cases which, in our opinion, have the power of judicial evidence. These come from the duplicated or translated papers (Examples 1 and 2 in Appendix). One of such papers was originally published in a Serbian journal and reprinted in TTEM. The paper was not changed in the least, except for two references added to the bibliography which were citing HealthMed. Similar "phantom" reference was registered in another paper which was a translation from Serbian. Again, the newly added reference made practically the only difference between two forms of the paper and, again, the citation went to HealthMed. None of the three attached references were embedded in the body of articles to provide at least ostensible credibility.

Table 7. Authors explanations for the fabricated citations

	HealthMed	TTEM
Author(s) error	3	5
Journal editor(s) error	9	4
Don't know	5	0
There is no error	6	1
Don't understand	5	0
Not responded	55	29

What is most alarming, although not surprising, is that the first cases of fabricating citations which are clearly connected to DRUNPP journals have already been registered in Serbia. While carrying on this study we came across two newly established journals, one of which is pure clone of TTEM in all respects including the title, both containing papers which cited TTEM in the reference list, but not in the article body [19, 20]. In one of the journals editor-in-chief is a prolific author in TTEM and prominent member of the DRUNPP sociocognitive network, while one of the editors of the other journal is a prolific author only. For both of them, fabricated citations were found previously in TTEM.

Corrected Impact Factor

Successive introduction of various corrections, based on the incremental contribution of different IF-inflating factors, produced dramatic consequences, but again only on impact of DRUNPP journals (Figure 5; Table A5 in Appendix). Calculating the impact of DRUNPP journals by JCR formula for IF SelfCites, which is more appropriate in their case, decreased their impact heavily. The cumulative introduction of additional correction factors, by previously eliminating illegitimate citations, citations received by the other DRUNPP journal, and citation received by Serbian authors, make the impact of HealthMed and TTEM almost totally disappear. We see that the real, misconduct-free impact of these two journals practically does not exist. On the other hand, the impact of the two control journals, be it relatively high as in Bos J Bas Med Sci or relatively low as for Med Glasnik, remained practically unaffected by the corrections, indicating that their impact is genuine and that corrections make sense.

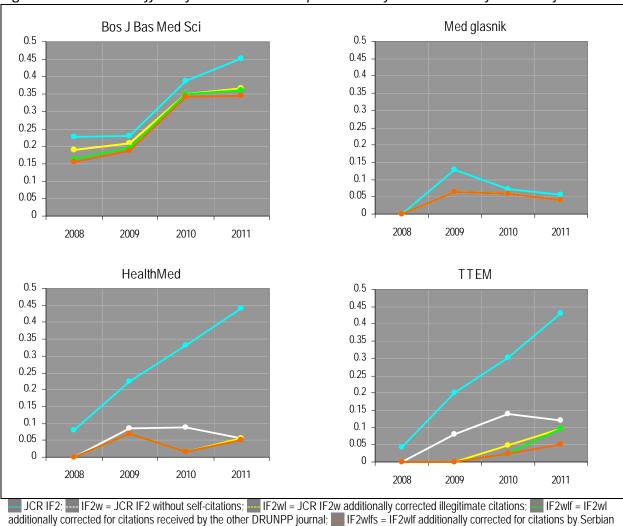
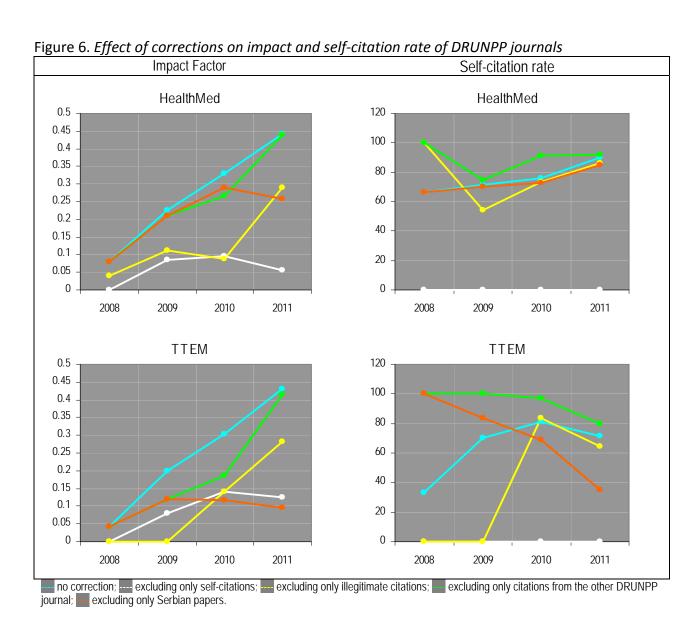


Figure 5. Cumulative effect of corrections on impact and self-citation rate of DRUNPP journals

The contribution of various individual IF-inflating factors cannot be seen from cumulative, but rather from their individual removal from the IF calculations (Figure 6, left column; Table A6 in Appendix). As expected and already shown, self-citations have the biggest effect on IF. They are followed by contribution of illegitimate citations, although the effect of citations coming from Serbian papers became stronger in 2011. The above tendency seems to persist in 2012 volumes of both journals. (These results were not presented here, due to their incompleteness of data and unpredictability of indicators.)

For obvious reasons, the influence of IF-inflating factors on self-citation rate was tested for only three indicators: illegitimacy, Serbian citations, and citations received from the other DRUNPP journal. From the right column in the same Figure/Table one can see that illegitimate citations even in this respect "do their job", i.e. reduce self-citation rate. This is more evident in the case of TTEM. Looking at the variations of IF-inflating factors over time, it is noticeable that in TTEM Serbian authors have distinctive trend indicating a special role. Initially, their contributions had the form of other then self-citations, to be converted after 2010 into self-citations predominantly.



Plagiarism

For practical and economic reasons, plagiarism was checked only in the papers of Serbian authors. For the same reasons, in DRUNPP journals this was done for authors who published more than five papers in analyzed period. This criterion ensured a sufficient number of papers for determining the incidence of plagiarism but, due to the selection of authors publishing in DRUNPP journals, the results obtained for these two and control journals (Table 8) should not be understood as mutually strictly comparable.

Table 8. Plagiarized papers of Serbian authors

	OK	N/A	Α	A+	Р	P+	%
Bos J Bas Med Sci	25		1	1	5		21.88
Med glasnik	31	2	1	1	1		8.82
HealthMed	92	3	3	3	3	1	9.80
TTEM	71		3	5	2	5	17.44

OK = Plagiarism-free paper; N/A = Unavailable articles; A = Mild self-plagiarism; A+ = Crude self-plagiarism; P = Mild plagiarism; P+ = Crude plagiarism

However, even if this restriction is taken into account, it is obvious that plagiarism is more frequent in DRUNPP journals. Cases of crude plagiarism and self-plagiarism (A+ and P+) were found practically only in HealthMed and TTEM. For an orientation, by using the same criteria in 2010 we found about the same level of plagiarism in Serbian non-WoS journals [14, 15], but meanwhile, thanks to CEON/CEES activities, this was reduced to much lower levels.

All in all, the results strongly suggest that two DRUNPP journals and a group of authors from a few Serbian academic institutions are organized into an arrangement that has to be labeled as "joint unethical enterprise". Its rationale seems to be quite simple. Some authors are allowed to publish limitlessly without regular reviewing in journals of formally high international prestige. This brings them quite tangible benefits (so called points) important for their careers and incomes. In return, the editors collect from them a substantial amount of money for fictitious editing job and, on top of this, as a sort of tip, some fictitious citations to help their journals maintaining the status of highly esteemed publications. What this enterprise makes extraordinary and unprecedented, are clear signs of forced collections of this non-monetary fee: if authors in their citing role are not sufficiently generous, editors simply snatch their "deserved" tip forcefully, by adding themselves some impact-

inflating self-citations to the paper reference lists. Being practical people, in order to protect themselves from crossing the self-citation rate limits, they occasionally put citations onto other DRUNPP journal account.

The economic dimensions of the phenomenon are equally impressive. In just a few years DRUNPP journals grew from anonymous to the most popular international journals in neighboring Serbia, attracting a fast-growing number of papers, and collecting even faster-growing publication charges. The spending of Serbian authors on publishing in the two journals in 2012 only was predicted to exceed €200.000 [21], an amount that has to be regarded a serious burden for the national R&D budget in crisis and a fortune for the family of editors. There are many signs that the family business is on the right track. The same publisher created recently two additional medical journals [22, 23], with the same editor on board, and with unveiled intention to bring them to the same official (WoS/JCR) status and price level. Also, the international online "round-a-clock" conference is already here [24] to round up the "production line".

Business strategy of Serbian authors involved might also be a "success". Their costs were substantial, especially if they have been publishing massively. For an orientation, more than 100 Serbian researchers authored 3 or more papers in the two DRUNPP journals during the observed period. (The group was "championed" by a person who published 18 papers, although he is not likely to have paid full price thanks to the special role he played in the whole enterprise.) Still, the investments seems to be profitable, at least for those authors who are participating in the projects supported from government sources and/or are applying for higher positions. And, of course, those project participants who manage to reimburse publication charges are the biggest winners. They were practically making their careers (and money) by direct support from others, they share the State R&D budget with, and indirect support by all members of the national academic community, they are competing with. The number of papers published in HealthMed and TTEM within this extraordinary scheme was not possible to determine in this study, since the information about personnel employed on the state-supported projects and their spending are still not publicly accessible in Serbia.

Conclusion

In this study, two DRUNPP journals were bibliometrically compared with two other Bosnian WoS/JCR journals. In making comparisons and while examining relationships among variables we faced some difficulties. Journals differ in many respects, including voluminosity of issues and timeliness of publication. The nature and amount of data did not allow for using inferential statistical tests. Since this was a typical exploratory study with no hypotheses stated, such tests were hopefully not necessary. In spite of restrictions posed to methodology, results reliably indicate that:

- The two DRUNPP journals are published by an organization of unclear identity, low transparency and questionable management.
- The general profile of these journals shows a typical "predatory" pattern.
- The two journals are bibliometrically isolated, being ignored even by small journals of the same background, from the same country.
- Impact Factor of the two journals comes entirely from self-citations, their mutual citations exchange, and citations delivered by a group of organized Serbian authors.
- A large amount of those citations is illegitimate, i.e. either unjustifiable, or fabricated.
- The proofs exist of direct engagement of both journals' editorial staff in misconduct, including malpractices unprecedented in the literature.
- Clear indications exist of willing involvement of number of authors from a few Serbian institutions, which makes them members of a "citation cartel" [25];
- The cross-border spillover of misconduct originating in Bosnia is already taking place in Serbia.

The results call for urgent international action of all stakeholders involved. We propose that:

- In Serbian government regulations papers to be published or published at any time in the past in the two DRUNPP journals should not be treated as legitimate publications.
- The two DRUNPP journals should be considered for removing from WoS/JCR lists.
- The authors who have published valid papers in TTEM and HealthMed should withdraw their papers, and republish them elsewhere.
- The affiliated institutions of DRUNPP journals editors-in-chiefs should consider appropriate measures against their staff.
- The Committee on Publication Ethics (COPE) should examine the case and take appropriate recommendations.

In order to assist stakeholders in making their decisions about possible actions, CEON/CEES has prepared a database and web application containing critical data gathered within this study. This includes the proofs for all citations suspected of illegitimacy and all papers suspected of plagiarism. The application is available at http://data%2Dscindeks.ceon.rs/. Relevant institutions have already been provided with login credentials.

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[16]

[17]

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Abbreviations

- [1] CEON/CEES Centre for Evaluation in Education and Science
- [2] DRUNPP Institute of research, education and training, also Society for Development of Teaching and Business Processes in New Net Environment in B&H [sic]
- [3] TTEM Technics, Technology, Education, Management [sic]
- [4] Bos J Bas Med Sci Bosnian Journal of Basic Medicine Sciences
- [5] Med Glasnik Medicinski Glasnik
- [6] WoS Web of Science
- [7] JCR Journal Citation Report
- [8] IF Journal Citation Report Impact Factor
- [9] JCR IF2 Journal Citation Report Two years Impact Factor
- [10] COPE The Committee on Publication Ethics

Appendix

1. Request mail

«DS» «Name»,

In the course of our study on research co-author cooperation and citation exchange in South East Europe, we discovered a number of discrepancies among papers in-text citations, citations given in the reference lists, and citations in citation databases indexing some journals. It is necessary for us to determine whether in these cases discrepancies appeared as a result of errors and, if so, how such errors occurred.

One of such citations was found in your work. Would you be so kind to explain it by answering a few quick questions, regarding the status of the following citation:

«Reference»

which appeared in your article published in «CitingJournal»:

«Article»

The questionnaire requires less than five minutes to complete and is located here.

We thank you for your cooperation.

Sincerely,

Centre for Evaluation in Education and Science

Belgrade

www.ceon.rs

President

Professor

Dr. Pero Sipka

2. Tables

Table A1. Share of papers published and citations given by Serbian authors

	2008		2009		2010		2011		201	12*
	other	Serbs								
Papers										
Bos J Bas Med	69	3	54	3	71	11	41	11	45	5
Sci										
Med glasnik	25	0	44	0	30	1	49	12	64	23
HealthMed	46	0	72	6	143	28	244	82	437	154
TTEM	13	1	18	11	55	51	68	93	80	156
Citations										
Bos J Bas Med	63	2	65	2	104	5	144	8	300	16
Sci										
Med glasnik	0	1	9	1	16	2	13	0	18	2
HealthMed	3	0	20	1	48	6	93	65	208	123
TTEM	1	0	6	4	16	21	20	74	34	184

^{*} Predicted based on the share of volume published until Nov 15, 2012, number of papers in a journal, and citation rate of a journal in other analyzed journals

Table A2. Legitimacy of citations

Citing	Cited	LC	PF	DC	UC	F	Σ
	Bos J Bas Med Sci	57		4			61
Bos J Bas Med Sci	Med glasnik						0
DOS J Das IVIEU SCI	HealthMed	1					1
	TTEM						0
	Bos J Bas Med Sci	9					9
Med glasnik	Med glasnik	12	4	2			18
ivieu glasilik	HealthMed	1					1
	TTEM						0
	Bos J Bas Med Sci	12			1	1	14
HealthMed	Med glasnik						0
пеанниеи	HealthMed	192	13	41	64	75	385
	TTEM	7	2	2	6	10	27
	Bos J Bas Med Sci						0
TTEM	Med glasnik						0
IILIVI	HealthMed	3	3	1	2	12	21
	TTEM	84	14	2	40	28	168

LC = Legitimate (self)citations; PF = Possible fabrications; DC = Disputable (self)citations; UC = Unjustifiable (unwarranted) citations; F = Fabrications (Ghost citations); results obtained on issues published from 2008 to 2012, Nov 15, i.e. data for 2012 were not corrected for missing issues

Table A3. Legitimacy of citations in DRUNPP journals by country of origin of citing author

·	gitimacy of cit	Legitimacy	Serbia	B&H	Brazil	Turkey	Iran	Taiwan	other	Σ
	Bos J Bas	UC	0	1	0	0	0	0	0	1
	Med Sci	F	1	0	0	0	0	0	0	1
	Med	UC	0	0	0	0	0	0	0	0
HealthMed	glasnik	F	0	0	0	0	0	0	0	0
Healthivieu	HealthMed	UC	5	4	39	2	3	10	1	64
		F	19	30	6	5	2	0	13	75
	TTEM	UC	1	4	0	0	1	0	0	6
		F	2	5	0	3	0	0	0	10
	Bos J Bas	UC	0	0	0	0	0	0	0	0
	Med Sci	F	0	0	0	0	0	0	0	0
	Med	UC	0	0	0	0	0	0	0	0
TTEM	glasnik	F	0	0	0	0	0	0	0	0
IIEIVI	HealthMed	UC	1	0	0	0	1	0	0	2
	пеанничец	F	2	2	0	1	6	0	1	12
	TT50.4	UC	35	2	0	0	0	0	3	40
	TTEM	F	17	7	0	2	0	0	2	28
	total		83	55	45	13	13	10	20	239

UC = Unjustifiable (unwarranted) citations; F = Fabrications (Ghost citations); results obtained on issues published from 2008 to 2012, Nov 15, i.e. data for 2012 were not corrected for missing issues

Table A4. (II)legitimacy of citations in DRUNPP journals by journal volume

		2008	2009	2010	2011	2012*
	LC	5	7	10	74	172
	DC			1	18	36
HealthMed	UC		2	2	26	60
	PF	1	4		10	
	F		6	33	28	27
	LC			10	35	82
	DC				1	4
TTEM	UC			6	22	30
	PF	2	8	5	1	2
	F			18	11	20

LC = Legitimate (self)citations; DC = Disputable (self)citations; UC = Unjustifiable (unwarranted) citations; PF = Possible fabrications; F = Fabrication (Ghost citations);

^{*}Predicted based on the share of volume published until Nov 15, 2012 and citation rate of a journal in other analyzed journals

Table A5. Cumulative effect of corrections on impact and self-citation

rable his carriaget effect of corrections on impact and self-citation								
		2008	2009	2010	2011			
	JCR IF2	0.227	0.229	0.388	0.453			
Bos J Bas Med	IF2w	0.191	0.208	0.349	0.367			
Sci	IF2wl	0.191	0.208	0.349	0.367			
301	IF2wlf	0.163	0.194	0.349	0.360			
	IF2wlfs	0.156	0.188	0.341	0.345			
	JCR IF2	0	0.128	0.072	0.056			
	IF2w	0	0.064	0.058	0.040			
Med Glasnik	IF2wl	0	0.064	0.058	0.040			
	IF2wlf	0	0.064	0.058	0.040			
	IF2wlfs	0	0.064	0.058	0.040			
	JCR IF2	0.080	0.225	0.331	0.442			
	IF2w	0	0.085	0.089	0.056			
HealthMed	IF2wl	0	0.070	0.016	0.056			
	IF2wlf	0	0.070	0.016	0.052			
	IF2wlfs	0	0.070	0.016	0.052			
	JCR IF2	0.043	0.200	0.302	0.430			
	IF2w	0	0.080	0.140	0.119			
TTEM	IF2wl	0	0	0.047	0.096			
	IF2wlf	0	0	0.023	0.096			
	IF2wlfs	0	0	0.023	0.052			

JCR IF2; IF2w = JCR IF2 without self-citations; IF2wl = JCR IF2w corrected for problematic citations; IF2wlf = IF2wl without citations received by other DRUNPP journal; IF2wlfs = IF2wlf without citation received by Serbian authors

Table A6. Effects of individual corrections on impact and self-citation rate of DRUNPP journals

			Impact	factor		9	Self-citation rate			
		2008	2009	2010	2011	2008	2009	2010	2011	
	No correction	0.080	0.225	0.331	0.442	66.67	71.43	75.93	89.87	
	Excluding self-citation	0	0.085	0.097	0.056	n/a	n/a	n/a	n/a	
	Excluding illegitimate	0.040	0.113	0.089	0.289	100	54.55	73.33	86.27	
HealthMed	citations									
	Excluding papers by other	0.080	0.211	0.266	0.438	100	75.00	91.11	91.61	
	DRUNPP journal									
	Excluding Serbian papers	0.080	0.211	0.290	0.257	66.67	70.00	72.92	84.95	
	No correction	0.043	0.200	0.302	0.43	33.33	70.00	81.08	71.28	
	Excluding self-citation	0	0.080	0.140	0.126	n/a	n/a	n/a	n/a	
	Excluding illegitimate	0	0	0.140	0.281	n/a	n/a	83.33	64.15	
TTEM	citations									
	Excluding papers by other	0.043	0.120	0.186	0.415	100	100	96.77	79.76	
	DRUNPP journal									
	Excluding Serbian papers	0.043	0.120	0.116	0.096	100	83.33	68.75	35	

Table A7. Responses of authors to request questionnaire

Questions	Answers	f
Was your citation, stated in our	yes	24
message, created by mistake?	no	14
	citation was entered by administrative error, which	4
	occurred during my (or my co-authors) preparation	
	of the manuscript	
If your citation was erroneous	citation was entered by editorial mistake, during the	8
	processing of paper for publishing	
	the error occurred otherwise	4
	cannot determine how the error occurred	7
	nobody even noticed	18
	the mistake was detected, but when it was too late	4
If the citation was erroneous, why it has	for a correction	
not been corrected?	the mistake was detected, but it was estimated that	1
not been corrected:	the correction is unnecessary	
	the editorial board was asked to publish a correction,	
	but it did not happen	
	because it was cited in the article body, due to the	9
	relevancy	
	because of the significance of author, paper, or	
	publishing journal	
If citation stated in our message is yours	because it was used in the preparation of my/our	3
or of your co-authors and legitimate,	article, although there was no need to mention it in	
why is it used?	the body of the article	
	citation has been added later, after the article	2
	submission, upon suggestion of a reviewer	
	citation has been added later, after the article	1
	submission, upon suggestion of the editor	

Table A8. Rankings of citing journals

MEDICINSKI GLASNIK CROATIAN MEDICAL JOURNAL PLOS ONE PLANTA MEDICA COLLEGIUM ANTROPOLOGICUM INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES LIFE SCIENCE JOURNAL-ACTA ZHENGZHOU UNIVERSITY OVERSEAS EDITION MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL PEPTIDES HEPATITIS MONTHLY JOURNAL OF GENE MEDICINE JCPSP-JOURNAL OF THE COLLEGE OF PHYSICIANS AND SURGEONS PAKISTAN CENTRAL EUROPEAN JOURNAL OF MEDICINE CHINESE MEDICAL JOURNAL CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	61 14 9 6 5 4 4 3 3 3
MEDICINSKI GLASNIK CROATIAN MEDICAL JOURNAL PLOS ONE PLANTA MEDICA COLLEGIUM ANTROPOLOGICUM INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES LIFE SCIENCE JOURNAL-ACTA ZHENGZHOU UNIVERSITY OVERSEAS EDITION MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL PEPTIDES HEPATITIS MONTHLY JOURNAL OF GENE MEDICINE JCPSP-JOURNAL OF THE COLLEGE OF PHYSICIANS AND SURGEONS PAKISTAN CENTRAL EUROPEAN JOURNAL OF MEDICINE CHINESE MEDICAL JOURNAL CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	14 9 6 5 5 4 4 3 3 3
MEDICINSKI GLASNIK CROATIAN MEDICAL JOURNAL PLOS ONE PLANTA MEDICA COLLEGIUM ANTROPOLOGICUM INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES LIFE SCIENCE JOURNAL-ACTA ZHENGZHOU UNIVERSITY OVERSEAS EDITION MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL PEPTIDES HEPATITIS MONTHLY JOURNAL OF GENE MEDICINE JCPSP-JOURNAL OF THE COLLEGE OF PHYSICIANS AND SURGEONS PAKISTAN CENTRAL EUROPEAN JOURNAL OF MEDICINE CHINESE MEDICAL JOURNAL CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOINOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	9 6 5 4 4 3 3 3
CROATIAN MEDICAL JOURNAL PLOS ONE PLANTA MEDICA COLLEGIUM ANTROPOLOGICUM INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES LIFE SCIENCE JOURNAL-ACTA ZHENGZHOU UNIVERSITY OVERSEAS EDITION MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL PEPTIDES HEPATITIS MONTHLY JOURNAL OF GENE MEDICINE JCPSP-JOURNAL OF THE COLLEGE OF PHYSICIANS AND SURGEONS PAKISTAN CENTRAL EUROPEAN JOURNAL OF MEDICINE CHINESE MEDICAL JOURNAL CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	6 5 5 4 4 3 3 3
PLOS ONE PLANTA MEDICA COLLEGIUM ANTROPOLOGICUM INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES LIFE SCIENCE JOURNAL-ACTA ZHENGZHOU UNIVERSITY OVERSEAS EDITION MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL PEPTIDES HEPATITIS MONTHLY JOURNAL OF GENE MEDICINE JCPSP-JOURNAL OF THE COLLEGE OF PHYSICIANS AND SURGEONS PAKISTAN CENTRAL EUROPEAN JOURNAL OF MEDICINE CHINESE MEDICAL JOURNAL CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	5 5 4 4 3 3 3
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COLLEGIUM ANTROPOLOGICUM INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES LIFE SCIENCE JOURNAL-ACTA ZHENGZHOU UNIVERSITY OVERSEAS EDITION MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL PEPTIDES HEPATITIS MONTHLY JOURNAL OF GENE MEDICINE JCPSP-JOURNAL OF THE COLLEGE OF PHYSICIANS AND SURGEONS PAKISTAN CENTRAL EUROPEAN JOURNAL OF MEDICINE CHINESE MEDICAL JOURNAL CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	4 4 3 3 3 3
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES LIFE SCIENCE JOURNAL-ACTA ZHENGZHOU UNIVERSITY OVERSEAS EDITION MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL PEPTIDES HEPATITIS MONTHLY JOURNAL OF GENE MEDICINE JCPSP-JOURNAL OF THE COLLEGE OF PHYSICIANS AND SURGEONS PAKISTAN CENTRAL EUROPEAN JOURNAL OF MEDICINE CHINESE MEDICAL JOURNAL CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	4 3 3 3 3
LIFE SCIENCE JOURNAL-ACTA ZHENGZHOU UNIVERSITY OVERSEAS EDITION MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL PEPTIDES HEPATITIS MONTHLY JOURNAL OF GENE MEDICINE JCPSP-JOURNAL OF THE COLLEGE OF PHYSICIANS AND SURGEONS PAKISTAN CENTRAL EUROPEAN JOURNAL OF MEDICINE CHINESE MEDICAL JOURNAL CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	3 3 3
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CENTRAL EUROPEAN JOURNAL OF MEDICINE CHINESE MEDICAL JOURNAL CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	
CHINESE MEDICAL JOURNAL CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	3
CURRENT PHARMACEUTICAL DESIGN JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	3
JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH	3
INTERNATIONAL JOURNAL OF MORPHOLOGY VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH 2	3
VOJNOSANITETSKI PREGLED BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH 2	3
BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH 2	3
MOLECULAR VISION PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH 2	3
PSYCHIATRY RESEARCH-NEUROIMAGING JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH 2	2
JOURNAL OF MEDICINAL PLANTS RESEARCH PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH 2	2
PRIMARY CARE RESPIRATORY JOURNAL ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH Z	2
ASIAN PACIFIC JOURNAL OF CANCER PREVENTION JOURNAL OF DENTAL RESEARCH 2	2
JOURNAL OF DENTAL RESEARCH	2
	2
	2
MOLECULAR BIOLOGY REPORTS 2	2
POLISH JOURNAL OF PATHOLOGY 2	2
MILITARY MEDICINE 2	2
MEDICAL SCIENCE MONITOR	2
ACTA DERMATO-VENEREOLOGICA	2
BIOMEDICAL RESEARCH-INDIA	2
PLOS NEGLECTED TROPICAL DISEASES	2
ACTA CIRURGICA BRASILEIRA	2
EUROPEAN REVIEW FOR MEDICAL AND PHARMACOLOGICAL SCIENCES 2	2
NATURAL PRODUCT COMMUNICATIONS 2	2
BREAST CANCER RESEARCH AND TREATMENT	2
JOURNAL OF IMMIGRANT AND MINORITY HEALTH	2
JOURNAL OF MATERNAL-FETAL & NEONATAL MEDICINE	2
NIGERIAN JOURNAL OF CLINICAL PRACTICE	2
EUROPEAN JOURNAL OF ENDOCRINOLOGY 2	2
JOURNAL OF MEDICINAL FOOD	2
	2

Bos J Bas Med Sci (N=383)	
CHIRURGIA	2
INTERNATIONAL ENDODONTIC JOURNAL	2
WORLD JOURNAL OF GASTROENTEROLOGY	2
REGIONAL ANESTHESIA AND PAIN MEDICINE	2
AMERICAN JOURNAL OF DERMATOPATHOLOGY	2
JOURNAL OF PHARMACY AND PHARMACOLOGY	2
CURRENT MEDICINAL CHEMISTRY	2
LATIN AMERICAN JOURNAL OF PHARMACY	2
COCHRANE DATABASE OF SYSTEMATIC REVIEWS	2
APPLIED PHYSIOLOGY NUTRITION AND METABOLISM-PHYSIOLOGIE APPLIQUEE NUTRITION ET	2
METABOLISME	
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY	2
GYNECOLOGICAL ENDOCRINOLOGY	2
MEDIATORS OF INFLAMMATION	2
ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY	2
ARCHIVES OF MEDICAL RESEARCH	2
AFRICAN JOURNAL OF MICROBIOLOGY RESEARCH	2
ADVANCES IN CLINICAL AND EXPERIMENTAL MEDICINE	2
INDIAN JOURNAL OF MEDICAL RESEARCH	2
VACCINE	2
RENAL FAILURE	2
CNS & NEUROLOGICAL DISORDERS-DRUG TARGETS	1
ENCEPHALE-REVUE DE PSYCHIATRIE CLINIQUE BIOLOGIQUE ET THERAPEUTIQUE	1
ENVIRONMENT INTERNATIONAL	1
EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY	1
ENDOCRINE REVIEWS	1
CNS NEUROSCIENCE & THERAPEUTICS	1
CURRENT CANCER DRUG TARGETS	1
CURRENT DRUG METABOLISM	1
CURRENT MEDICAL RESEARCH AND OPINION	1
EKLEM HASTALIKLARI VE CERRAHISI-JOINT DISEASES AND RELATED SURGERY	1
CURRENT OPINION IN CRITICAL CARE	1
ECHOCARDIOGRAPHY-A JOURNAL OF CARDIOVASCULAR ULTRASOUND AND ALLIED	1
TECHNIQUES	
DRUGS OF THE FUTURE	1
DRUGS	1
CURRENT OPINION IN PSYCHIATRY	1
DERMATOLOGIC THERAPY	1
CYTOKINE	1
INTERNATIONAL IMMUNOPHARMACOLOGY	1
CURRENT PAIN AND HEADACHE REPORTS	1
ELECTROMAGNETIC BIOLOGY AND MEDICINE	1
HAEMOPHILIA	1
EXPERIMENTAL AND CLINICAL ENDOCRINOLOGY & DIABETES	1
FORSCHENDE KOMPI EMENTARMEDIZIN	1

Bos J Bas Med Sci (N=383)	
FREE RADICAL BIOLOGY AND MEDICINE	1
FUTURE VIROLOGY	1
GENDER MEDICINE	1
GENETIC TESTING AND MOLECULAR BIOMARKERS	1
GENETIKA-BELGRADE	1
FOOD AND CHEMICAL TOXICOLOGY	1
GIORNALE ITALIANO DI DERMATOLOGIA E VENEREOLOGIA	1
FOOD & FUNCTION	1
HEMODIALYSIS INTERNATIONAL	1
HISTOPATHOLOGY	1
HORMONE RESEARCH	1
HUMAN IMMUNOLOGY	1
HUMAN REPRODUCTION	1
HUMAN REPRODUCTION UPDATE	1
INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY	1
INDUSTRIAL ROBOT-AN INTERNATIONAL JOURNAL	1
GINECO RO	1
EXPERT OPINION ON PHARMACOTHERAPY	1
EUROPEAN JOURNAL OF GYNAECOLOGICAL ONCOLOGY	1
EUROPEAN JOURNAL OF PAEDIATRIC DENTISTRY	1
EUROPEAN NEUROLOGY	1
EUROPEAN REVIEW OF AGING AND PHYSICAL ACTIVITY	1
EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE	1
EXCLI JOURNAL	1
EXPERIMENTAL AND THERAPEUTIC MEDICINE	1
FORENSIC SCIENCE INTERNATIONAL	1
EXPERIMENTAL DIABETES RESEARCH	1
EUROPEAN JOURNAL OF CLINICAL NUTRITION	1
EXPERT REVIEW OF ANTICANCER THERAPY	1
EXPERT REVIEW OF ANTI-INFECTIVE THERAPY	1
EXPERT REVIEW OF MOLECULAR DIAGNOSTICS	1
EXPERT REVIEW OF NEUROTHERAPEUTICS	1
EXPERT REVIEW OF VACCINES	1
EXPERT REVIEWS IN MOLECULAR MEDICINE	1
FEMS IMMUNOLOGY AND MEDICAL MICROBIOLOGY	1
FERTILITY AND STERILITY	1
INTERNAL MEDICINE	1
AUSTRALIAN & NEW ZEALAND JOURNAL OF OBSTETRICS & GYNAECOLOGY	1
CHEMISTRY CENTRAL JOURNAL	1
ARCHIVES OF BIOLOGICAL SCIENCES	1
ARCHIVES OF ENVIRONMENTAL & OCCUPATIONAL HEALTH	1
ARCHIVES OF GERONTOLOGY AND GERIATRICS	1
ARCHIVES OF GYNECOLOGY AND OBSTETRICS	1
ARCHIVES OF MEDICAL SCIENCE	1
ARCHIVES OF ORTHOPAEDIC AND TRAUMA SURGERY	1

Bos J Bas Med Sci (N=383)	
ARCHIVOS LATINOAMERICANOS DE NUTRICION	1
ANNALS OF ONCOLOGY	1
ASIAN NURSING RESEARCH	1
ANNALS OF OCCUPATIONAL HYGIENE	1
AUSTRALIAN JOURNAL OF FORENSIC SCIENCES	1
AUTOIMMUNITY REVIEWS	1
BALKAN MEDICAL JOURNAL	1
BEHAVIOURAL BRAIN RESEARCH	1
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS	1
BIOCHEMICAL JOURNAL	1
BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS	1
BIOLOGY OF SPORT	1
ASIAN JOURNAL OF SURGERY	1
AMERICAN JOURNAL OF HEMATOLOGY	1
ACTA CARDIOLOGICA	1
ACTA DIABETOLOGICA	1
ACTA OBSTETRICIA ET GYNECOLOGICA SCANDINAVICA	1
ACTA PARASITOLOGICA	1
ACTA POLONIAE PHARMACEUTICA	1
ACTA VETERINARIA BRNO	1
ADDICTIVE BEHAVIORS	1
AGE AND AGEING	1
ANTIOXIDANTS & REDOX SIGNALING	1
ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH	1
BIOMEDICAL RESEARCH-TOKYO	1
AMERICAN JOURNAL OF HUMAN BIOLOGY	1
AMERICAN JOURNAL OF NEPHROLOGY	1
AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY	1
ANAESTHESIA	1
ANALYTICAL AND BIOANALYTICAL CHEMISTRY	1
ANESTHESIA AND ANALGESIA	1
ANNALES DE CARDIOLOGIE ET D ANGEIOLOGIE	1
ANNALS OF HUMAN BIOLOGY	1
AIDS PATIENT CARE AND STDS	1
CLINICAL ANATOMY	1
CELL CALCIUM	1
CELLULAR AND MOLECULAR NEUROBIOLOGY	1
CENTRAL EUROPEAN JOURNAL OF CHEMISTRY	1
CEREBROVASCULAR DISEASES	1
CHEMICAL BIOLOGY & DRUG DESIGN	1
IRANIAN RED CRESCENT MEDICAL JOURNAL	1
CHEMICO-BIOLOGICAL INTERACTIONS	1
INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS	1
BIOMARKERS IN MEDICINE	1
CLINICAL & TRANSLATIONAL ONCOLOGY	1

Bos J Bas Med Sci (N=383)	
CARDIOVASCULAR RESEARCH	1
CLINICAL AND EXPERIMENTAL NEPHROLOGY	1
CLINICAL BIOCHEMISTRY	1
CLINICAL BREAST CANCER	1
CLINICAL CANCER RESEARCH	1
CLINICAL ENDOCRINOLOGY	1
CLINICAL MICROBIOLOGY REVIEWS	1
CLINICAL NEPHROLOGY	1
CLINICAL PSYCHOLOGY REVIEW	1
CHILDS NERVOUS SYSTEM	1
BRITISH JOURNAL OF SURGERY	1
CLINICAL RHEUMATOLOGY	1
BIOMOLECULES & THERAPEUTICS	1
BIOORGANIC & MEDICINAL CHEMISTRY	1
BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE	1
BMC GENOMICS	1
BMC NEUROLOGY	1
BRAIN	1
BREAST CANCER RESEARCH	1
CELL BIOLOGY AND TOXICOLOGY	1
BRITISH JOURNAL OF PHARMACOLOGY	1
CELL BIOCHEMISTRY AND FUNCTION	1
BUFFALO BULLETIN	1
BULLETIN OF THE WORLD HEALTH ORGANIZATION	1
BUNDESGESUNDHEITSBLATT-GESUNDHEITSFORSCHUNG-GESUNDHEITSSCHUTZ	1
BURNS	1
CANCER BIOMARKERS	1
CANCER CAUSES & CONTROL	1
CANCER RESEARCH	1
CARDIOVASCULAR JOURNAL OF AFRICA	1
BIOMEDICAL MATERIALS	1
BRITISH JOURNAL OF NEUROSURGERY	1
PHYTOTHERAPY RESEARCH	1
ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTOLOGY	1
PANMINERVA MEDICA	1
PATHOLOGY & ONCOLOGY RESEARCH	1
PATHOLOGY RESEARCH AND PRACTICE	1
PEDIATRIC CRITICAL CARE MEDICINE	1
PEDIATRIC DRUGS	1
PEDIATRIC NEUROSURGERY	1
PEDIATRICS INTERNATIONAL	1
MEDICAL CARE	1
PHYSICAL THERAPY IN SPORT	1
NUTRITION JOURNAL	1
PIGMENT & RESIN TECHNOLOGY	1

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VIROLOGY JOURNAL	1
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REVISTA CHILENA DE INFECTOLOGIA	1
TOHOKU JOURNAL OF EXPERIMENTAL MEDICINE	1
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JOURNAL OF FOOD BIOCHEMISTRY	1
JOURNAL OF CATARACT AND REFRACTIVE SURGERY	1
INTERNATIONAL JOURNAL OF UROLOGICAL NURSING	1
INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL PATHOLOGY	1
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IRANIAN JOURNAL OF REPRODUCTIVE MEDICINE	1
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JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	1
JAPANESE JOURNAL OF INFECTIOUS DISEASES	1
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INTERNATIONAL JOURNAL OF PHARMACEUTICS	1
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JOURNAL OF GENERAL INTERNAL MEDICINE	1
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JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH-PART B-CRITICAL REVIEWS	1
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JOURNAL OF RESEARCH IN MEDICAL SCIENCES	1
JOURNAL OF VIROLOGY	1
JUNDISHAPUR JOURNAL OF MICROBIOLOGY	1
KIDNEY INTERNATIONAL	1
KLEINTIERPRAXIS	1

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LABMEDICINE	1
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JOURNAL OF INFECTIOUS DISEASES	1
JOURNAL OF INVESTIGATIVE DERMATOLOGY	1
JOURNAL OF MEDICAL MICROBIOLOGY	1
JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION	1
JOURNAL OF NERVOUS AND MENTAL DISEASE	1
JOURNAL OF NEUROSCIENCE	1
JOURNAL OF STRENGTH AND CONDITIONING RESEARCH	1
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JOURNAL OF ORTHOPAEDIC SCIENCE	1
JOURNAL OF ORTHOPAEDIC TRAUMA	1
JOURNAL OF PERIODONTOLOGY	1
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS	1
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Med glasnik (N=40)	
MEDICINSKI GLASNIK	18
ACTA CLINICA CROATICA	2
CROATIAN MEDICAL JOURNAL	2
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COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING	2
JOURNAL OF MEDICAL BIOCHEMISTRY	2
BLOOD PRESSURE	1
CURRENT BIOLOGY	1
COLLEGIUM ANTROPOLOGICUM	1
COCHRANE DATABASE OF SYSTEMATIC REVIEWS	1
CANCER CHEMOTHERAPY AND PHARMACOLOGY	1
DISCOURSE & SOCIETY	1
BMC CARDIOVASCULAR DISORDERS	1
EUROPEAN JOURNAL OF CLINICAL PHARMACOLOGY	1

Med glasnik (N=40)	
BIOCHEMIA MEDICA	1
AURIS NASUS LARYNX	1
ANNALS OF PHARMACOTHERAPY	1
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ANAIS BRASILEIROS DE DERMATOLOGIA	1
AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY	1
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TEHNICKI VJESNIK-TECHNICAL GAZETTE	1
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REVISTA ROMANA DE BIOETICA	1
RESEARCH IN DANCE EDUCATION	1
PSYCHIATRIA DANUBINA	1
DRUG METABOLISM AND PHARMACOKINETICS	1
NUCLEAR TECHNOLOGY & RADIATION PROTECTION	1
2012 IEEE SYMPOSIUM ON SECURITY AND PRIVACY (SP)	1
MEDICAL SCIENCE MONITOR	1
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EXPERT REVIEW OF ANTI-INFECTIVE THERAPY	1
EUROSURVEILLANCE	1
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HealthMed (N=39)	
HEALTHMED	385
TTEM	21
METALURGIA INTERNATIONAL	5
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER	4
HIPPOKRATIA	3
DRUG SAFETY	2
PSYCHIATRIA DANUBINA	2
CENTRAL EUROPEAN JOURNAL OF MEDICINE	2
INTERNATIONAL JOURNAL OF NURSING PRACTICE	1
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	1
INTERNATIONAL JOURNAL OF AGRICULTURAL AND STATISTICAL SCIENCES	1
HUMAN REPRODUCTION	1
GENERAL PHYSIOLOGY AND BIOPHYSICS	1
INTERNATIONAL NURSING REVIEW	1
CLINICAL LABORATORY	1

HealthMed (N=39)	
JOURNAL OF RESEARCH IN MEDICAL SCIENCES	1
BOSNIAN JOURNAL OF BASIC MEDICAL SCIENCES	1
BMC MEDICAL GENETICS	1
ANALYTICAL METHODS	1
AFRICAN JOURNAL OF MICROBIOLOGY RESEARCH	1
CURRENT SCIENCE	1
MYCOPATHOLOGIA	1
TURK GOGUS KALP DAMAR CERRAHISI DERGISI-TURKISH JOURNAL OF THORACIC AND	1
CARDIOVASCULAR SURGERY	
TROPICAL JOURNAL OF PHARMACEUTICAL RESEARCH	1
RENAL FAILURE	1
PROBLEMY EKOROZWOJU	1
POLICING-AN INTERNATIONAL JOURNAL OF POLICE STRATEGIES & MANAGEMENT	1
PLOS ONE	1
JOURNAL OF CHROMATOGRAPHY A	1
NEUROENDOCRINOLOGY LETTERS	1
JORNAL BRASILEIRO DE PNEUMOLOGIA	1
MODERN ELECTROCHEMICAL METHODS	1
MEDICINSKI GLASNIK	1
JOURNAL OF VIROLOGY	1
JOURNAL OF SEPARATION SCIENCE	1
TURK PSIKIYATRI DERGISI	1
JOURNAL OF EPIDEMIOLOGY	1
ACTUAL PROBLEMS OF ECONOMICS	1
PERCEPTUAL AND MOTOR SKILLS	1

TTEM (N=23)		
TTEM	168	
METALURGIA INTERNATIONAL	31	
HEALTHMED	27	
AFRICAN JOURNAL OF BUSINESS MANAGEMENT	5	
INDUSTRIA TEXTILA	2	
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH	2	
AFRICAN JOURNAL OF AGRICULTURAL RESEARCH	1	
APPLIED MATERIALS AND ELECTRONICS ENGINEERING, PTS 1-2	1	
BALTIC JOURNAL OF ROAD AND BRIDGE ENGINEERING	1	
DATA & KNOWLEDGE ENGINEERING	1	
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART B-SOCIAL AND EDUCATIONAL STUDIES	1	
HYBRID ARTIFICIAL INTELLIGENT SYSTEMS, PT I	1	
ADVANCED RESEARCH ON INFORMATION SCIENCE, AUTOMATION AND MATERIAL SYSTEM,	1	
PTS 1-6		
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS	1	
INTERNATIONAL JOURNAL OF STRATEGIC PROPERTY MANAGEMENT	1	
INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE	1	

TTEM (N=23)		
JOURNAL OF UNIVERSAL COMPUTER SCIENCE	1	
METALURGIJA	1	
MULTI-FUNCTIONAL MATERIALS AND STRUCTURES ENGINEERING, ICMMSE 2011	1	
RADIATION PROTECTION DOSIMETRY	1	
SCIENTIA IRANICA	1	
SCIENTIFIC WORLD JOURNAL	1	
INTERNATIONAL JOURNAL OF AGRICULTURAL AND STATISTICAL SCIENCES	1	

3. Examples of fabricated citations

Example 1. Fabrication in a reprinted article

a. Original paper

MULTISCIENCE (Volume1 / Number2 / 2010 / pg.3-13)

URL: http://www.multisciencejournal.org/Download/60.pdf

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b. Duplicated paper

Journal: TTEM (Volume 7 / Number 1 / 2012 / pg. 309-316)

URL: http://www.ttem.ba/pdf/ttem 7 1 web.pdf

technics technologies education management

the protection depends on the attack itself, i.e. on the way it is performed, so it is important to understand the essence of one such attack, which can be best achieved by simulating DoS or DDoS attacks.

The aim of carrying out stress testing is to test server endurance to attacks and request flood. The degree of server endurance should be regarded as an important indicator during the taking of precautionary measures against malicious attacks. By testing endurance, the system performances under normal conditions are also being verified, in order that the results according to which the server is further optimized should be obtained. The test results indicate that actions should be taken to reduce damage caused by the attacks. Another also important feature of testing web server endurance is that we are able to test the stability of the server that directly affects users.

The aim of the stress tests carried out on the example of famtic.com is determination of maximal

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Example 2. Fabrication in a translated article

a. Original paper

Journal: Timocki medicinski glasnik (Volume 36 / Number 1 / 2011 / pg. 36-38)

URL: http://tmg.org.rs/v360105.htm

fizičkog napora, diuretike, vazodilatatore, ACE inhibitore i antikoagulantnu terapiju.

Peripartalna kardiomiopatija izaziva maternalni mortalitet u opsegu od 18% do 56 %[13], čak i sa najsavremenijim preporukama za njeno lečenje. Ključni faktor u postavljanju dijagnoze je visok stepen sumnje na ovu peripartalnu komplikaciju i ehokardiografski zapis, u momentu kad je uzrok gušenja nepoznat. Pacijentkinjama kod kojih su i posle perioda od 6 meseci nakon nastanka ovog oboljenja prisutni simptomi i znaci srčane insuficijencije i neophodno intenzivno kardiološko lečenje, trebalo bi savetovati izbegavanje narednih trudnoća, jer postoji značajno povišen rizik od mortaliteta. [12] Praćenje nakon porođaja podrazumeva redovne ehokardiografske i kardiološke

Adresa autora:

Olivera Rankov Novi Sad, Bulevar Kralja Petra I 48/11 Tel: 0611785844

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