Pathology of Scientific Articles Publishing in the Field of Agriculture as Perceived by Faculty Members and Ph.D. Students (The Case of Colleges of Agriculture at Public Universities, Iran)

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ABSTRACT

Scientific publication is considered as one of the basic requirements of scientific community. In this regard, the purpose of this study was analyzing pathology of publishing scientific articles in the field of agriculture from the perspective of faculty members, and PhD. students. The research method was descriptive which was carried out by a survey technique for gathering data. The statistical population consisted of all faculty members and PhD. students of agriculture in the public universities of Iran. The study population was 6,773 people (N= 6773). By using Krejcie and Morgan's Table and multi stage sampling, 363 people were selected as a sample (n= 363). The data collection tool was a questionnaire of which its validity was confirmed by a panel of faculty members of agricultural extension and education. The reliability of the items of the questionnaire was approved with calculating Cronbach's Alpha test ($0.66 \le \alpha \le 0.92$). Injuries of scientific articles publishing were classified in three areas of "publishing background", "publishing structure" and "publishing behavior" by using three branches theory. By taking advantage of factor analysis, three factors entitled "problem statement and research method", "weakness of titles and analysis" and "innovativeness and applicability" could explain 57.68 percent of changes in publication quality of scientific articles. Finally, according to research findings, the status of agricultural education has been explained to improve the quality of the publication of scientific articles.

Keywords: Agriculture, Pathology, Quality, Scientific article, Scientific publication.

INTRODUCTION

The developed number of scientific articles and citations to these papers are now the main factors of science and knowledge production (Sangwal, 2013). In fact, the scientific publication is considered as an integral part of development (Einstein, 2015). In this regard, the researchers and particularly the faculty members and also the postgraduate students try to present a large number of papers at universities and research institutes (Moradi *et al.*, 2011; Sangwal, 2013). According to the importance of publishing such articles, their publication is considered as the only way for creating science in scientific communities; and development of knowledge depends on writing such articles. In other words, the existence of such publications indicates the dynamics, survival and development of training courses and promotion of scientific and academic community levels (Islami-Ardekani, 2013; Christopher, 2015). However, the published scientific articles on agriculture will face damages at various stages of publication process including the idea development, writing, judgment, approval and publication stages (Majidi *et al.*, 2016a).

Despite the fact that publication plays a very important role in any scientific discipline to

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facilitate the exchange of knowledge, the exchange of articles between writers and publications is very complicated because law plays an important role in an exchange; and any publication has its own rules (Namvar and Kousha, 2013). However, the climate of scientific paper production both in terms of economy (Najafi Alamdarlo, 2016) or managerial aspects including the ethics, integrity, sharing scientific interests, moral education among teacher and students indicates the lack of precise regulation (Kazemi, 2008; Cariappa et al., 2016). The most important damages to this field include the "plagiarism", "data manipulation", "data production", "lack of ethics in research", and incoherence of article "dispersion contents", "lack of correct arrangement of research", "superficiality in methodologies of articles", "imposition of meaning to text", "delayed publication" and "lack of support by domestic publications" (Majidi et al., 2016a).

On the other hand, the practical journals and published research papers have been growing in Iran over the past decade. Obviously, this trend is due to the expansion of higher education especially in graduate studies. Despite the undeniable expansion of higher education in Iran, it has been along with an imbalance between quantitative and qualitative expansion. Most of the researchers believe that in Iran a bulk of studies and their do not include innovation or new knowledge. The repetition of numerous studies and saturation of subsequent fields have been criticized during the past two decades. In other words, the quantity is replaced by quality in science production. Based on evidence, most of the thesis and their articles do not have the expected quality and have repeated content (Majidi et al., 2016b; McKenna, 2016).

The theoretical context of this research is derived from "three dimensional model" which includes "context", "content" and "structure" of publication. According to this model, the damages have basic reasons which cause crisis for any structure. These factors can be classified into three categories including "behavioral" (Biswas, 2015; Broeckelman-Post, 2009; Majidi *et al.*, 2016a), "structural" (Krishnan, 2013; Cariappa *et al.*, 2016; Hall, 2011; Majidi *et al.*, 2016a) and "contextual"

(Ibegbulam and Jacintha, 2016; Zakeripour et al., 2011; Majidi et al., 2016a). The behavioral factors refer to all factors related to human resources such as motivation, job morale and satisfaction (Zakeripour *et* al., 2011). Structural factors include the collection of regular relations which govern the internal components of system and make up its body such as the structure of system, rules and regulations. Finally, the contextual factors include the environmental and external conditions which lead to structural and behavioral factors. This model is called threedimensional because due to the relationship among structural, behavioral and contextual factors, none of the phenomena or systematic events can occur outside of interaction among these three dimensions (Ibid).

Given the main objective of this study on identifying pathology of published scientific articles about agriculture from faculty members and PhD. students' perspective, it seeks to find out the pathology of published scientific articles, and then provide the theoretical framework of research through these components (Figure 1).

The theoretical framework of the research is as follows based on the overall objective of research and theoretical literature.

MATERIALS AND METHODS

This research is quantitative from perspective of research paradigm; nonexperimental based on variables control; descriptive in terms of data analysis; and survey is used to collect data. The research population included 6,773 faculty members and PhD. students of the Iranian public agricultural faculties affiliated with the Ministry of Science, Research and Technology (MSRT). As suggested in Krejcie and Morgan's (1970) table, a sample of 363 faculty members and PhD. students were selected in the current study using stratified random sampling method with proportional allocation. A stratification system developed by the MSRT was utilized for the sampling. The researcher-made questionnaire was the data collection tool which was given to a panel of agricultural extension and education experts

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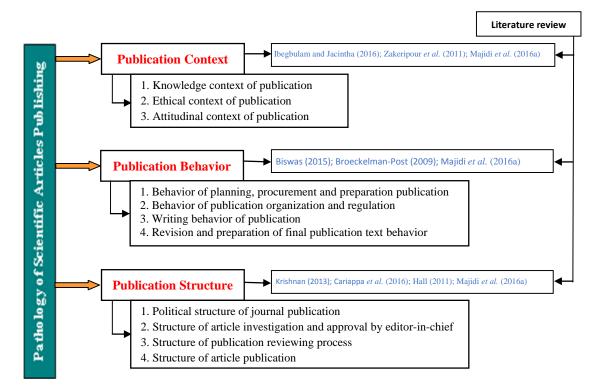


Figure 1. Theoretical framework of the research.

Table 1. Stratification system developed by the MSRT.^a

Scientific center	Province
First center	Tehran, Alborz, Golestan, Semnan, Mazandaran, Qom, Qazvin, Guilan, and Zanjan
Second center	North Khorasan, Razavi Khorasan, South Khorasan, Kerman, and Sistan and Baluchestan
Third center	West Azarbaijan, East Azarbaijan, Ardabil, Kurdistan, Kermanshah, and Hamadan
Fourth center	Isfahan, Yazd, Chaharmahal and Bakhtiari, Lorestan, Khuzestan, and Ilam
Fifth center	Kohgiluyeh and Boyer-Ahmad, Bushehr, Fars, and Hormozgan

^a (Source: Ministry of Science, Research and Technology- Deputy of Research, 2014)

Table 2. Number of calculated samples for each university.

	Selected	population		Selecte	d sample	
College	PhD students	Faculty members	Total	PhD students	Faculty members	Total
College of Agriculture, Tarbiat Modares University (First center)	234	78	312	51	17	68
College of Agriculture, Ferdowsi University of Mashhad (Second center)	197	126	323	43	28	71
College of Agriculture, Razi University of Kermanshah (Third center)	173	65	238	38	14	52
Ramin University of Agriculture and Natural Resources (Fourth center)	374	77	451	81	17	98
College of Agriculture, Shiraz University (Fifth center)	200	139	339	44	30	74
Total	1178	485	1663	257	106	363

and a number of editors-in-chief in reliable research-scientific agricultural journals to confirm the face and content validity.

Furthermore, 30 copies of questionnaire were given to the University of Tehran professors and students (who were outside of the selected sample) at the beginning of research in order to determine the reliability of the questionnaire. Calculated Cronbach's Alpha for parts of Likert scale, Table 3 indicates that the reliability of questionnaire was acceptable for conducting the research. The research variables include the knowledge, ethical and attitudinal context of publication (article), behavior of publication planning and preparation, publication organization, publication writing, publication modification, political structure of journal, structure of reviewed and accepted articles by editor-inchief, the publication judgment structure, structure of paper publication, and quality of scientific publication. These variables are measured by Likert scale ranging from: Strongly disagree (1), disagree (2), no idea (3), agree (4) and strongly agree (5). After responding to the questionnaires, the processes of encoding, data extraction and transfer are done on computer; and the statistical calculations (descriptive and inferential) were performed by SPSS22 software after data processing.

RESULTS AND DISCUSSION

According to results, 81 (69.5%) out of 121 faculty members are men and 40 (30.5%) female. Most of them are at the age range of 30 to 45 years and most of them (45 and 37.2%) have 5 to 15 years of work experience. Their mean work experience is 11.79, the mode is 2 and median is 11 years. Furthermore, 155 out of 223 PhD. students (66.1%) are male and 68 students (33.9%) female.

The respondents' mean age (faculty members and PhD. students) is 34.63 years; the minimum is 24, maximum is 67, mode is 30 and median is 31 years. Moreover, 145 people (65.0%) do not have any work experience. On the other hand, the mean work experience is 2.08 years, and the mode and median are zero for students. 292 respondents (84.9%) do not have any work experience in agricultural journals (Table 4).

Based on the results, in the field of "knowledge context of publication", the item of "inefficient provided education for authors is an obstacle to creation and development of new ideas" has the lowest coefficient of variation and is in the first rank; but the item of "the authors do not know in what issues they need to take effort" has the maximum coefficient of variation and is in the last rank (Table 5). For "ethical context of publication"

No	Macro variable	Micro variable	No of items	Cronbach's Alpha
1		Knowledge context of publication	7	0.74
2	Publication	Ethical context of publication	10	0.76
3	context	Attitudinal context of publication	10	0.81
4		Behavior of publication planning and preparation	8	0.84
5	Publication	Behavior of publication organization	8	0.81
6	behavior	Behavior of publication writing	6	0.83
7	Dellavioi	Behavior of publication modification, review and preparation of final text	8	0.85
8		Political structure of journal	8	0.83
9	Publication	Structure of reviewed and accepted articles by editor- in-chief	5	0.74
10	structure	Publication judgment structure	8	0.81
11		Structure of paper publication	6	0.66
12	Quality of scientific	publication	20	0.92

Table 3. Cronbach's Alpha for studied scales.

	Variable	Class/Category	Frequency	Percentage	Cumulativ percentage
	E	Male	80	69.5	
Gender -	Faculty members	Female	41	30.5	
Gender -	Students	Male	155	66.1	
	Students	Female	68	33.9	
A	ge (Years)	$X_i \leq 30$	107	31.1	31.1
		$30 < X_i \le 45$	190	55.2	86.3
(x = 34	.63, SD= 8.30)	$45 < X_i \le 60$	41	12	98.3
(Min=	24, Max= 67)	$60 < X_i$	6	1.7	100
	ational degree	PhD Student	223	64.8	64.8
Educat		Instructor	10	2.9	67.7
		Assistant Professor	76	22.1	89.8
		Associate Professor	23	6.7	96.5
		Professor	12	3.5	100
Faculty	members' work	0	2	1.7	1.7
-	ience (Years)	$0 < X_i \leq 5$	29	24	25.7
-	$.79, SD = 8.21^{)}$	$5 < X_i \le 15$	45	37.2	62.9
	=0, Max = 35)	$15 < X_i \le 25$	34	28.1	91
(IVIIII-	=0, Max = 55)	$25 < X_i$	11	9.1	100
		0	145	65	65
PhD s	students' work	$0 < X_i \le 5$	39	17.5	82.5
exper	ience (Years)	$5 < X_i \le 15$	31	13.9	96.4
(x = 2.	08, SD= 4.01)	$15 < X_i \le 25$	8	3.6	100
(Min=	= 0, Max= 20)	$25 < X_i$	0	0	100

Table 4. Respondents' descriptive statistics.

variable, the item of "some authors do not report how to inform the respondents of research nature (research methods and study benefits) in their studies" has the lowest coefficient of variation and is in the first rank, but the item of "studies should not humiliate or prejudice people and groups" has the maximum coefficients of variation and is in the last rank.

According to results, in "attitudinal context of publication" variable, the item of "the authors do not enjoy conducting research and only write articles to develop their resumes" has the lowest coefficient of variation and is in the first rank, but the item of "the easygoing author is the obstacle to create new ideas" has the maximum coefficient of variation and is in the last rank.

Based on findings, in "behavior of publication planning and preparation" variable, the item of "there are not facilities needed to conduct papers properly especially among students" has the lowest coefficient of variation and is in the first rank, but the item of " authors do not have necessary expertise to select journals to which they want to submit their articles" has the maximum coefficient of variation and is in the last rank (Table 6).

For "behavior of publication organization" variable, the item of "there is not any logical connection between content of different parts of articles" has the lowest coefficient of variation and is in the first rank, but the item of "tips for guiding the authors are not respected by authors" has the maximum coefficient of dispersion and is in the last rank.

For "behavior of publication writing" variable, the item of "principles and rules of punctuation and Persian language method are not considered in some articles" has the lowest coefficient of variation and is in the first rank, but the item of "an appropriate style is not usually chosen for writing articles" has the

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Variable	Item	Mean ^a	SD	CV ^b	Rank
tion	Inefficient provided education for authors is an obstacle to creation and development of new ideas.	3.49	1.14	0.33	1
ublica	Most of the authors do not have necessary information for operational planning on development and dissemination of idea.	3.36	1.11	0.33	2
kt of p	The authors have limited knowledge about transferring the views and thoughts to audiences.	3.31	1.09	0.33	3
contex	The authors' have low knowledge about organizing the content of articles.	3.20	1.05	0.33	4
edge	The authors' low capacity of problem solving is an obstacle to creativity and innovation of idea.	3.38	1.17	0.34	5
lwon	The authors' do not have necessary information about idea development.	3.15	1.11	0.35	6
X	The authors do not know in what issues they need to take efforts.	authors is an obstacle to creation 3.49 1.14 0.33 1 ave necessary information for nt and dissemination of idea. 3.36 1.11 0.33 2 age about transferring the views 3.31 1.09 0.33 3 about organizing the content of blem solving is an obstacle to 3.20 1.05 0.33 4 blem solving is an obstacle to 3.38 1.17 0.34 5 essary information about idea 3.15 1.11 0.35 6 sues they need to take efforts. 3.08 1.16 0.38 7 τ to inform the respondents of is and study benefits) in their 3.45 0.95 0.27 1 σ intheir papers. 3.19 0.97 0.29 2 in their papers. 3.19 0.95 0.30 3 scientific and ethical norms in 			
	Some authors do not report how to inform the respondents of research nature (research methods and study benefits) in their studies.	3.45	0.95	0.27	1
cal context of publication	The authors do not explain how to introduce their roles, position and objective to respondents.	3.31	0.97	0.29	2
	The authors do not refer to secrecy in their papers.	3.19	0.95	0.30	3
	Some writers do not adhere to scientific and ethical norms in selection of subject.	3.55	1.13	0.32	4
	The standards of direct quote are not respected by authors				
	The authors lack the spirit of criticism. The researchers should tell the respondents that they are able to participate or leave their collaboration in study at any time and without any certain conditions.				
îthi	Studies should have moral commitment forms.	3.51	1.42	0.40	8
Hiting the author Hiting the au	Sometimes the people are mentioned in the article as the authors who have not played any role in conducting the article.	3.54	1.48	0.42	9
	Studies should not humiliate or bias people and groups.	3.47	1.46	0.42	10
	The authors do not enjoy in conducting research and only write articles to develop their resumes.	3.58	1.10	0.31	1
ion	The authors' non-belief in the fact that their violation will be found out by journals and conferences.	3.42	1.12	0.32	2
	The authors do not think that their studies are useful.	3.30	1.10	0.33	3
	The authors do not have a sense of loyalty in research which they are going to conduct.	3.18	1.08	0.34	4
	According to some authors, their articles are not challenging and purposeful.	3.43	1.20	0.35	5
	The instructors and trainers do not feel responsible for authors' learning.	3.39	1.19	0.35	6
nal	The authors do not think about the consequences of their violation.	3.33	1.17	0.35	7
titudi	There are not necessary incentives for motivation and increasing the desire to conduct right research for authors.	3.49	1.27	0.36	8
Attitu	There should be a sense of duty to conduct any research with integrity.	3.40	1.30	0.38	9

 a Mean ranges from 1 to 5. b The coefficient of variation (CV) is used to rank items, and the mean item is used for ranking in the case of equal coefficients of variation.

Variable	Items	Mean ^a	SD	CV ^b	Ran
ning	There are not facilities needed to conduct papers properly especially among students.	3.49	0.99	0.28	1
lan	The appropriate research method is not properly selected.	3.27	0.99	0.30	2
on p ion	The papers do not have preliminary research plans.	3.23	0.99	0.31	3
cati arat	Data collection is not properly done.	3.33	0.09	0.32	4
publi	The statement of problem is not clear and based on rational criteria in most of the articles.	3.05	1.05	0.34	5
r of and	There are not suitable drafts for articles.	3.15	1.17	0.37	6
navio	The authors do not have necessary budgets for preparation of research.	3.33	1.29	0.39	7
Behavior of Behavior of publication Behavior of publication Iblication writing organization and preparation	The authors do not have necessary expertise to select journals to which they want transfer their articles.	3.12	1.26	0.40	8
	There is not any logical connection between content of different parts of articles.	3.15	0.90	0.29	1
ation	The absence of a common organizational system for journals will make the authors confused.	3.39	1.04	0.31	2
ublication	There is not any mutual trust among colleagues to share the existing knowledge.	3.39	1.09	0.32	3
of pi aniza	The authors have less accountability and compliance with working principles.	3.36	1.07	0.32	4
Behavior orga	The authors do not have specialized knowledge and skills needed to set up and organize the contents of article.	3.23	1.02	0.32	5
	The theme is not clearly divided, and its sub-themes are irrelevant.	3.19	1.02	0.32	6
	The contents of articles do not have necessary cohesion.	3.17	1.08	0.34	7
Behavior of publication organization	Tips for guiding the authors are not respected by authors.			0.34	8
	are not considered in some articles.	3.25	0.98	0.30	1
	The articles do not have diversity in wording.		1.05	0.31	2
	Sentences are not correctly and effectively applied.	3.26	1.01	0.31	3
shav	writing the articles.	3.28	1.06	0.32	4
Be	The simplicity and clarity of sentences are not observed in studies.	nts. 3.49 0.599 0.2 h method is not properly selected. 3.27 0.99 0.3 preliminary research plans. 3.23 0.99 0.3 operly done. 3.33 0.09 0.3 lem is not clear and based on rational ticles. 3.15 1.05 0.3 rafts for articles. 3.15 1.17 0.3 ve necessary budgets for preparation of their articles. 3.12 1.26 0.4 connection between content of different articles. 3.12 1.26 0.4 connection between content of different articles. 3.39 1.04 0.3 a trust among colleagues to share the are specialized knowledge and skills needed are contents of article. 3.23 1.02 0.3 early divided, and its sub-themes are are not respected by authors. 3.16 1.06 0.3 ouncutation and Persian language method metricles. 3.25 0.98 0.3 on of article theme are not explained in arity of sentences are not observed in arity of sentences are	0.33	5	
н	An appropriate style is not usually chosen for writing articles.	3.14	1.02	0.34	6
_	There is not any attention to whether there is a need for further explanation or not.	3.33	0.89	0.27	1
r of publication ion and revisior	There is not any attention to whether there are suitable sources or not.	3.34	0.92	0.28	2
	There is not any attention to whether the conclusions of papers are logical.	3.32	1.04	0.31	3
	There is not any attention to whether the facts need greater explanation or not.	3.23	0.99	0.31	4
avior ficati	There is not any investigated consistency of suggestions with conclusions and findings.	3.28	1.05	0.32	5
Beh. modi	There is not any investigated useful and complete content of article.	3.21	1.06	0.33	6
. •	There is not any logical analysis and interpretation of data. Conclusion of papers is not based on data and interpretations.			0.35 0.35	7 8

Table 6. Ranking the items of scientific publication behavior variable.

^{*a*} Mean ranges from 1 to 5. ^{*b*}The coefficient of variation (CV) is used to rank items, and the mean item is used for ranking in the case of equal coefficients of variation.

highest coefficient of variation and is in the last rank.

For "behavior of publication modification and revision" variable, the item of "there is not any attention to whether there is a need for further explanation or not" has the lowest coefficient of variation and is in the first rank, but the item of "conclusion of papers is not based on data and interpretations" has the highest coefficient of variation and is in the last rank.

Based on the results, for "political structure of published scientific journals" variable, the item of "journals allocate the priority of approval to articles in which one of the authors have High distribution of citations (H-Index)" has the lowest coefficient of variation and is in the first rank, but the item of "journals take the advantage of judges for judgment in nonspecialized disciplines" has the highest coefficient of variation and is in the last rank (Table 7).

For "structure of reviewed and accepted articles by editor-in-chief" variable, the item of "Persian-language journals do not have software for coping with plagiarism" has the lowest coefficient of variation and is in the first rank, but the item of "journal authorities accept the incoming papers based on their interest" has the highest coefficient of variation and is in the last rank.

For "publication judgment structure" variable, the item of "the process of paper judgment is long" has the lowest coefficient of variation and is in the first rank, but the item of "specialized authorities are not applied to judge articles" has the greatest coefficient of variation and is in the last rank.

For "structure of paper publication" variable, the item of "publication of papers incurs high cost" has lowest coefficient of variation and is in the first rank, but the item of "journal editors do not care about dictation and grammatical mistakes" has the highest coefficient of variation and is in the last rank.

For "quality of scientific publication" variable, the item of "there are not any novelty and innovation in subjects of articles and new ideas are not presented" is in the first rank with minimum coefficient of variation; and the item of "citation to reputable references such as scientific journals, books and other credible references" has the highest coefficient of variation and is in the last rank (Table 8).

As Shown in Table 9, the mean of variables (pathology of publication in the fields of context, behavior and structure) is from 3.18 to 3.41. In other words, the damage of scientific publication in the field of agriculture is higher than the average (2.5) from respondents' perspective.

The Interval of Standard Deviation from Mean (ISDM) is used to describe the quality of published scientific articles in agriculture. In this method, the scores are converted into four levels according to the following procedure (Ranjbar *et al.*, 2011; Mosavi, 2016). Based on *ISDM*, each of the independent and dependent variables are classified into four levels according to their percentage and frequency.

A< Mean- SD: Negative

Mean-SD< B< Mean: Fairly negative Mean< C< Mean+SD: Fairly positive Mean+SD< D: Positive

According to results, 60 respondents (17.4 percent) have negative views about quality of published scientific articles, 92 respondents (26.7 percent) have fairly negative views, 144 respondents (41.9 percent) have fairly positive views, and 48 (14.0 percent) have positive views. Furthermore, based on Table 4, the scientific publication quality is obtained from fairly negative to fairly positive according to most of the respondents (68.6 percent). This finding is consistent with findings obtained from Table 9 and can be verified (Table 10).

In another part of the results for better understanding factor analysis is used to classify the quality of published scientific articles in agriculture into more limited factors Kaiser-Meyer-Olkin (KMO) (Table 11). coefficient is 0.945 and value of Bartlett's test is 3628.840 which are significant (at the level of 0.01), and showed the items are suitable for factor analysis, considering that a KMO value between 0.8 and 1 indicates that the sampling is adequate (Mansourfar, 2006). Furthermore, the varimax rotation method is utilized to determine the simple structure of "scientific publication quality" component. Moreover, the items are classified into three factors namely the "statement of problem and research methodology" with 12 items, "weak titles and analyses" with four items, and "innovation and

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applicability" with four items (Table 12). These factors could explain 57.68 percent of changes in publication quality of scientific articles (Table 11 and Figure 2).

CONCLUSIONS

In the field of knowledge context of publication by understanding the findings, the authors know in what areas they need to try,

Variable	Items	Mean ^{<i>a</i>}	SD	CV^{b}	Rank
	Journals allocate the priority of approval to articles in which one of the authors have high distribution of citations (H-Index)	3.25	1.13	0.35	1
ation	There not approved rules to accept articles in journals.	3.19	1.11	0.35	2
publica	Articles with descriptive levels are ignored, and instead there is an emphasis on articles with low statistics.	3.25	1.18	0.36	3
oumal	The connection between authors and journal authorities is used as a criterion for acceptance.	3.27	1.21	0.37	4
ure of j	The journal officials do not adhere to approved research priorities of journal.	3.25	1.23	0.38	5
Political structure of journal publication	Journals of any university or scientific institute put the received articles of the same university or scientific institute on the first priority during the acceptance of articles.	3.23	1.24	0.38	6
	Publishers and scientific journals do not embrace the publication of local research results.	3.17	1.24	0.39	7
	Journals take the advantage of judges for judgment in non-specialized disciplines.	2.97	1.20	0.40	8
Structure of reviewed and accepted articles	Persian-language journals do not have software for coping with plagiarism.	3.24	1.29	0.40	1
	The journal editors-in-chief usually take the responsibility of article acceptance to inexpert people due to the high workload.	3.16	1.28	0.40	2
cture o accept	Some of the journals do not use the electronic acceptance system and this makes problems for sending article to these journals.	3.12	1.32	0.42	3
ind	The response to articles is slowly done by editor-in-chief.	3.26	1.44	0.44	4
S @	Journal authorities accept the incoming papers based on their interest.	3.12	1.44	0.46	5
	The process of paper judgment is long.	3.62	1.18	0.33	1
gment ocess	During the judgment process, the journal authorities do not have proper accountability to new authors.	3.23	1.07	0.33	2
judg 1 pr	There is not any approved model to judge the articles.	3.31	1.15	0.35	3
Publication judgment structure and process	Rules of journals are violated by judges.	3.05	1.10	0.35	4
	The paper evaluation is not fair.	3.22	1.17	0.36	5
blid	Judges have not worked with new statistical software.	3.24	1.19	0.37	6
Pu str	The poor judgment is used for judging the papers in some journals.	3.24	1.23	0.38	7
	Specialized authorities are not applied to judge articles.	2.91	1.43	0.49	8
	Publication of papers incurs high cost.	3.29	1.17	0.36	1
paper on	Publication of accepted articles is delayed due to the limited numbers of journals.	3.27	1.29	0.39	2
Structure of paper publication	There is not any integrated system to prevent sending a paper to several journals.	3.24	1.28	0.39	3
nct	Some articles are simultaneously published in two journals.	3.00	1.20	0.40	4
Str	There is bias in prioritization of publishing the accepted articles.	3.24	1.38	0.43	5
•1	Journal editors do not care about dictation and grammatical mistakes.	3.04	1.34	0.44	6

Table 7. Ranking the items of publication structure variable.

Total mean : Political structure of publication (3.20), structure of reviewed and accepted articles (3.18) , publication judgment structure (3.23) and structure of paper publication (3.18)

^{*a*} Mean ranges from 1 to 5. ^{*b*} The coefficient of variation (CV) is used to rank items, and the mean item is used for ranking in the case of equal coefficients of variation.



Table 8. Ranking the items of scientific publication quality variable.

There are not any novelty and innovation in subjects of articles and new ideas are not presented.3.621.030.28The subjects are not taken into account in terms of local scientific needs of country, discipline and expertise field.3.530.980.28The quotations and expert references are not appropriate.3.340.960.29There are not ant scientific and clear analysis of data, information, and opinions and also conclusion of papers.3.581.070.30Articles lack the appropriate eloquence of content.3.221.000.31Data does not have sufficient credit in terms of collection and comprehensiveness.3.221.000.32The dispersed contents are considered in writing articles, and they do not have necessary cohesion.3.291.050.32The titerature review is not well done.3.141.010.32The titles of articles are not transparent and do not refer to research content.3.241.070.33The authors are not familiar with issues related to research subject.3.241.070.33The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	Rank	CV ^b	SD	Mean ^a		Items
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There are not ant scientific and clear analysis of data, information, and opinions and also conclusion of papers.3.581.070.30Articles lack the appropriate eloquence of content.3.231.000.31There are not appropriate research methods.3.221.000.31Data does not have sufficient credit in terms of collection and comprehensiveness.3.311.060.32The dispersed contents are considered in writing articles, and they do not have necessary cohesion.3.291.050.32The footnotes, references and specialized equivalents are not applied.3.141.010.32The titles of articles are not transparent and do not refer to research content.3.141.010.32The authors are not familiar with issues related to research subject. The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	2	0.28	0.98	3.53		
Opinions and also conclusion of papers.3.581.070.30Articles lack the appropriate eloquence of content.3.231.000.31There are not appropriate research methods.3.221.000.31Data does not have sufficient credit in terms of collection and comprehensiveness.3.311.060.32The dispersed contents are considered in writing articles, and they do not have necessary cohesion.3.291.050.32The grammatical principles of writing and language are not applied.3.241.030.32The footnotes, references and specialized equivalents are not consistent with standards of references.3.141.010.32The titles of articles are not transparent and do not refer to research content.3.241.070.33The authors are not familiar with issues related to research subject.3.221.070.33The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	3	0.29	0.96	3.34	The quotations and expert references are not appropriate.	
Upper propriate research methods.3.221.000.31Data does not have sufficient credit in terms of collection and comprehensiveness.3.311.060.32The dispersed contents are considered in writing articles, and they do not have necessary cohesion.3.291.050.32The grammatical principles of writing and language are not applied.3.241.030.32The footnotes, references and specialized equivalents are not consistent with standards of references.3.141.010.32The titles of articles are not transparent and do not refer to research content.3.241.070.33The authors are not familiar with issues related to research subject.3.221.070.33The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	4	0.30	1.07	3.58		
Data does not have sufficient credit in terms of collection and comprehensiveness.3.311.060.32The dispersed contents are considered in writing articles, and they do not have necessary cohesion.3.291.050.32The grammatical principles of writing and language are not applied.3.241.030.32The footnotes, references and specialized equivalents are not consistent with standards of references.3.141.010.32The literature review is not well done.3.141.010.32The titles of articles are not transparent and do not refer to research content.3.241.070.33The authors are not familiar with issues related to research subject.3.221.070.33The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	5	0.31	1.00	3.23		
The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	6	0.31	1.00	3.22		
The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	7	0.32	1.06	3.31		cation
The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	8	0.32	1.05	3.29	not have necessary cohesion. The grammatical principles of writing and language are not applied. The footnotes, references and specialized equivalents are not consistent	
The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	9	0.32	1.03	3.24		
The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	10	0.32	1.02	3.18		
The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	11	0.32	1.01	3.14	The literature review is not well done.	of se
The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	12	0.33	1.07	3.24	-	ılity o
The appropriate figures, tables and charts are not used in writing the papers.3.071.010.33Articles do not have logical and proper theoretical frameworks.3.081.050.34	13	0.33	1.07	3.22	The authors are not familiar with issues related to research subject.	Quality of
	14	0.33	1.01	3.07		0
Articles do not have certain objectives and hypotheses. 3.01 1.07 0.34	15	0.34	1.05	3.08	Articles do not have logical and proper theoretical frameworks.	
	16	0.34	1.07	3.01	Articles do not have certain objectives and hypotheses.	
Articles do not have perfect abstracts and introduction. 3.02 1.07 0.35	17	0.35	1.07	3.02	Articles do not have perfect abstracts and introduction.	
Articles do not have new references associated with research subject. 2.97 1.04 0.35	18	0.35	1.04	2.97	Articles do not have new references associated with research subject.	
The limitations of research are not mentioned in writing articles. 3.23 1.16 0.36	19	0.36	1.16	3.23	The limitations of research are not mentioned in writing articles.	
Citation to reputable references is not done such as scientific journals, 2.97 1.07 0.36 books and other credible references	20	0.36	1.07	2.97		

^{*a*} Mean ranges 1 one to 5. ^{*b*} The coefficient of variation (CV) is used to rank items, and the mean item is used for ranking in the case of equal coefficients of variation.

Table 9. Total mean of variables.

No.	Macro variable	Micro variable	Total mean ^a
1		Knowledge context of publication	3.28
2	Publication context	Ethical context of publication	3.41
3	context	Attitudinal context of publication	3.39
4		Behavior of publication planning and preparation	3.25
5	D-11:	Behavior of publication organization	3.25
6	Publication behavior	Behavior of publication writing	3.25
7	Denavior	Behavior of publication modification and revision and preparation of final text	3.25
8		Political structure of journal	3.20
9	Publication	structure of reviewed and accepted articles by editor-in-chief	3.18
10	Structure	Publication judgment structure,	3.23
11		Structure of paper publication	3.18
12	Scientific publication	on quality	3.22

^{*a*} Mean ranges from one to five.

Variable	Level	Frequency	Percentage	Cumulative percentage	Mode
	Negative	60	17.4	17.4	
Scientific publication quality	Fairly negative	92	26.7	44.1	Fairly
Scientific publication quanty	Fairly positive	144	41.9	86	positive
	Positive	48	14	100	
Total		344	100		

Table 10. Levels of scientific publication quality variable.

Table 11. Factor analysis of scientific publication quality.

Component	КМО	Bartlett's test	Sig	Eigenvalue	Percentage of variance	Cumulative Variance ^{<i>a</i>}
1				9.40	31.29	31.29
2	0.945	3628.840	0.000	1.18	16.58	47.87
3				1.06	9.81	57.68

^{*a*} One of the criteria to determine factors is measuring the cumulative percentage variance. In social studies, analysts usually extracted continue operating as much as 60 percent of the total variance of variables In some cases lower than 60 percent, especially when the main criteria for factor determination is eigenvalue (should be more than 1), we can have a cumulative percentage variance lower than 60 percent (Mansourfar, 2006; Abbasian *et al.*, 2017; Sabzali-Parikhani *et al.*, 2018).

Table 12. Summarized factor analysis results of science	entific publication quality
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Factors				Rotated factor matrix (varimax rotation)		
		Items	Factor and factor loading a			
No	Title		1	2	3	
1	Statement of problem and research methodology	Articles do not have logical and proper theoretical frameworks.	0.782	0.155	0.092	
		Data does not have sufficient credit in terms of collection and comprehensiveness.	0.726	0.280	0.212	
		Research methods of articles are not appropriate.	0.719	0.319	0.067	
		Articles do not have perfect abstracts and introduction.	0.706	0.131	0.235	
		The footnotes, references and specialized equivalents are not consistent with standards of references.	0.666	0.406	0.115	
		The literature review is not well done.	0.658	0.282	0.246	
		The authors are not familiar with issues related to research subject.	0.647	0.255	0.197	
		Citation to reputable references is not done such as scientific journals, books and other credible references.	0.638	0.228	0.281	
		The limitations of research are not mentioned in writing articles.	0.627	0.139	0.260	
		The dispersed contents are considered in writing articles, and they do not have necessary cohesion.	0.622	0.404	0.065	
		Articles do not have certain objectives and hypotheses.	0.621	0.175	0.301	
		The appropriate figures, tables and charts are not used in writing the papers.	0.602	0.348	0.207	
2	Veak titles and analyses u u u	There are not ant scientific and clear analysis of data, information, and opinions and also conclusion of papers.	0.261	0.794	0.30	
		There are not any novelty and innovation in subjects of articles and new ideas are not given.	0.147	0.773	0.124	
		The grammatical principles of writing and language are not applied.	0.443	0.590	0.055	
		The titles of articles are not transparent and do not refer to research content.	0.376	0.540	0.270	
3	Innovation and practicality	Articles do not have new references associated with research subject.	0.146	0.043	0.767	
		The quotations and expert references are not appropriate.	0.324	0.439	0.560	
		Articles lack the appropriate eloquence of content.	0.386	0.391	0.524	
		The subjects are not taken into account in terms of local scientific needs of country, discipline and expertise field.	0.291	0.331	0.521	

^{*a*} Bold items indicate that the item has been loaded and it takes place on this factor.

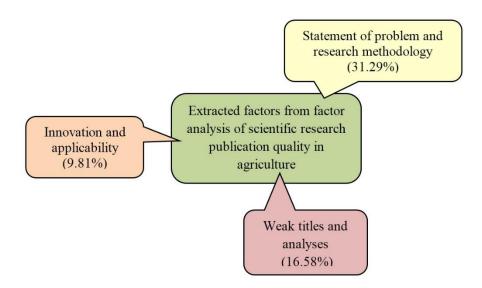


Figure 2. Extracted factors from items of scientific research publication quality.

but they have problems in the field of organizing the content, conveying their views and thoughts to audiences, and operational planning for developing and sharing their ideas (was in agreement with the findings of Ibegbulam and Jacintha (2016); Majidi et al. (2016a)). Therefore, this problem should be solved by revision of contents which are taught to researchers in article-writing courses and classes. Furthermore, the extra courses can be very useful in strengthening the researchers' knowledge.

For ethical context of publication, we can conclude that the researchers and authors do not share enough information with audiences about research topic, but according to respondents' perspective, adding the names of those who have not played any roles in research, is less likely. Furthermore, their studies are usually far from bias and audience humiliation [in agreement with the findings of Majidi et al. (2016a)]. Therefore, it is suggested that the training centers should provide the necessary education for authors and researchers in order to communicate with audiences; and the researchers should give the explanation of research importance to audiences in their first priority.

For attitudinal context of publication, according to the results, we can conclude that the studies by researchers have paid more attention to the need for professional progress, and this apathy will become as the cause of existing damages, and thus the sincerity will disappear [consistent with the results of Ibegbulam and Jacintha (2016)].

One of the main reasons for researchers and authors' disinterest in studies is the nonapplicability of their research results; hence, it is suggested paying attention to the applicability of idea and subject during its selection in order to prevent the loss of capital and conduct the high quality and useful research. Furthermore, the responsible institutions should take necessary measures for utilization of useful and applied studies.

According to results, the authors have minimum problem in selecting the journals to which they want their articles sent, for behavior of publication planning and preparation, but the lack of facilities for conducting the research is their main problem.

The results of behavior of publication organization indicate that the authors have good views about compliance of tips by authors, but the contents of papers do not have proper correlation with content of articles [was in agreement with the results of Biswas (2015); Broeckelman-Post (2009)]. Given the authors' problems in organizing the contents of articles, it is recommended teaching the authors about writing articles during the education and in- service to enhance the scientific richness of articles.

Based on results for behavior of publication modification and revision, the style of writing articles is appropriate from respondents' views, but the papers do not have high quality in terms of rules of punctuation and Persian language style [in agreement with the findings of Majidi *et al.* (2016a)]. Since the rules of punctuation and Persian language style can be easily forgotten, the journals are suggested paying necessary attention to this issue in order to avoid development of such mistakes.

For political structure of publication, the results suggest considering the authors' distribution of citations (H- Index) as an important criterion for acceptance of papers.

There are numerous problems due to the lack of approved laws for journals; hence, it is suggested that the approved rules for judgment, acceptance and publication of scientific articles by responsible agencies should be set for journal and enforce them to implement the rules [consistent with the findings of Krishnan (2013, 2016); Mosavi *et al.*, (2014); Hall (2011)].

For structure of reviewed and accepted articles by editor-in-chief, the research results indicate that the possibility of this damage has been increased due to the lack of Persian software to cope with plagiarism. Furthermore, the journal editors-in-chief do not take their responsibilities for received papers due to their higher workload; however, the bias towards papers is at the lowest level.

For publication judgment structure variable, despite applying the executives for paper judgment, this judgment process is too long. One of the main factors influencing the prolonged process of judgment is the reviewer's lack of motivation due to the unpaid remuneration for reviewing the articles. Despite assuming that during reviewing process the reviewer will find more access to newer ideas and subjects or the reviewer should do free judgment due to the professional and ethical commitment, it seems that all these cases will become diminished and the process of response will become lower after a while. It is suggested approving a certain wage of judgment by the Supreme Article Supervisory Council in accordance with level and type of journals, and enforcing the journals to pay the reviewers.

According to findings for publication structure, the authors pay high paid costs to journals, but the papers are well investigated in terms of literary and dictation.

According to results of ranking for quality of scientific paper publication, despite the fact that the results of published papers utilize creditable references for citation, the main content of papers are in fact the repetition of previous papers and do not add any special information to existing knowledge.

As shown in Table (9), the ethical and attitudinal contexts of publication have the highest values with total mean of 3.41 and 3.39 respectively; and the variables namely the structure of reviewed and accepted articles by editor-in-chief and the publication judgment structure with total mean of 3.18 are put in the last rank. It can be concluded that these damages of scientific publication process is more in context than other sectors, and in general the total mean of all variables is above average.

It is suggested taking necessary measures to create effective connection between scientific and executive agencies in order to make the scientific studies more useful, make them applicable, and investigate the executive problems of agricultural sector. However, most problems of the agricultural sector will be resolved in this way.

On the other hand, the need for professional progress is more taken into account by researchers and this disinterest is a factor for existing problems, and thus the sincerity will fade. One of the main reasons for researchers and authors' disinterest in studies is the nonapplicability of their research results; hence, it is suggested to pay attention to the applicability of idea and subject during its selection in order to prevent the loss of capital and conduct the high quality and useful Furthermore. the research. responsible institutions should take necessary measures for utilization of useful and applied studies.

The improvement of scientific agricultural publication structure needs appropriate information and counseling; and the agricultural training plays a wide role in improving this structure (Kidd et al., 2000). The author is the pillar of ethical principles in publication of external world; and the education of agriculture can play an active role in comprehensive improvement of scientific publication in the field of agriculture by authors this educating the in regard (Sivakumar, 2014). Accordingly, the agricultural education can play a significant role in growing the awareness and focus on different scientific publication sections as an factor. intervening Furthermore, the investigation of reviewing and delay in publishing the articles and other problems, and also making the researchers aware of different aspects of scientific agricultural publication damages can be effective at early stages in terms of clarifying the public views about damages of publication and stages such as plagiarism. The ethics in research is another scientific publication aspect which needs the intervention of agricultural education. In this regard, the agricultural education can be helpful in terms of growing the researchers' awareness, and thus the study on scientific publication is significantly important in terms of agricultural education nature.

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آسیبشناسی نشر مقالههای علمی در عرصه کشاورزی از دیدگاه اعضای هیأت علمی و دانشجویان دکتری (مورد مطالعه: دانشکدههای کشاورزی دانشگاههای دولتی ایران)

ف. مجیدی، م. بیژنی و ع. عباسی

چکیدہ

نشر علمی یکی از نیازهای اساسی جامعه علمی هر کشوری است. در واقع، عدم نشر یافتهها و نتایج پژوهش ها، به ویژه در بخش کشاورزی، باعث بینتیجه ماندن یافتههای پژوهشگران میشود. از طرف دیگر، کیفیت نشر مقالهها دارای اهمیت بسیاری میباشد. در این راستا، هدف این مقاله، آسیب شناسی نشر مقالههای علمی در عرصه کشاورزی از دیدگاه اعضای هیأت علمی و دانشجویان دکتری بود. این تحقیق از نوع توصیفی بوده که از فن پیمایش برای جمع آوری دادهها استفاده گردید. جامعه آماری پژوهش، شامل اعضای هیأت علمی و دانشجویان دکتری کشاورزی دانشگاههای دولتی ایران بودند (N=۶۷۳۳). حجم نمونه بر اساس جدول کرجسی و مورگان برآورد گردید (n=۳۶۳). انتخاب اعضای نمونه نیز با استفاده از روش نمونه گیری چند مرحلهای (سه مرحله) انجام گرفت. ابزار جمع آوری دادهها، پرسشنامهای

