

Open Access Zoology Journals on DOAJ: An analytical Study

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ABSTRACT

The Directory of Open Access Journals (DOAJ) listed open access scientific and scholarly journals, that meet high quality standards by exercising peer-review or editorial quality control and are free to all from the time of publication based on the Budapest Open Access Initiative. Total 105 free online journals on Zoology were accessed through DOAJ and analyzed based on Country, Languages, Subject Headings, keywords, their accessibility and availability of Archives of online journals in Zoology. 9183 journals 4685 journals searchable at article level 119 Countries 1083902 articles 2013-05-12 DOAJ celebrates 10 years at the heart of Open Access 2013-05-02 DOAJ sponsors Accelerating Science Award Program 2013-03-12 DOAJ hits the 1 MILLION mark!

KEYWORDS

Online Journals,
Open Access,
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Zoology,
DOAJ

INTRODUCTION

The proliferation of freely accessible online journals, the development of subject specific pre- and e-print archives and collections of learning objects provides a very valuable supplement of scientific knowledge to the existing types of published scientific information (books, journals, databases etc.). However these valuable collections are difficult to overview and integrate in the library and information services provided by libraries for their user constituency. Open access journals as journals that use a funding model that does not charge readers or their institutions for access (Budapest Open Access Initiative, 2013).

Open Access Journals

Open access means users can read, download, copy, distribute, print, search or link to the full texts of these articles. Open access journals are scholarly journals that are available online to the reader "without financial, legal or technical barriers other than those inseparable from gaining access to the internet itself". Open access journals (gold road to

open access) and self archiving (green road to open access) are the two general methods. The publisher of an open access journal is known as an "open access publisher" and the process "open access publishing" (Ghosh et al., 2007)

DOAJ (Directory of Open Access Journals)

The idea of creating a comprehensive directory of Open Access Journals was discussed in the First Nordic Conference on Scholarly Communication at Lund/Copenhagen (<http://www.lub.lu.se/ncsc2002>) (Jeffery, 2006)¹⁰. The conclusion was that it would be a valuable service for the global research and education community. Available technologies make it possible to collect and organize these resources in a way that allow libraries worldwide to integrate these resources in existing services thus offering added value both for the service providers of these resources and for the global research and education community (Highwire, Stanford University, 2013)⁸. Directory of Open Access Journals is a service that provides access to quality controlled Open Access Journals. The Directory aims to be comprehensive and cover all open access scientific and scholarly journals that use an

appropriate quality control system and it will not be limited to particular languages or subject areas. Directory of Open Access Journals is hosted, maintained and partly funded by Lund University Libraries Head Office. DOAJ is receiving funding from (DOAJ, 2013).

- Open Society Institute <http://www.osi.hu/infoprogram/>
- SPARC <http://www.arl.org/sparc/>
- SPARC Europe <http://www.sparceurope.org/>
- BIBSAM <http://www.kb.se/bibsam/>
- Axiell <http://www.axiell.se/>

OBJECTIVES OF THE PAPER

- To enumerate the Free E-journals on zoology on DOAJ.
- To know the country wise distribution of E-journals on Zoology on DOAJ.
- To find out the Language wise distribution of E-journals on Zoology on DOAJ.
- To know the accessibility of Archives of E-journals on Zoology on DOAJ.
- To know the usefulness and applicability of Zoology E-journals to other disciplines

MATERIALS AND METHODS

DOAJ (Directory of Open Access Journals) website (<http://www.doaj.org>) is browsed for the

present paper. Zoology e-journals were searched out and 105 journals were found on DOAJ. Total 105 Zoology e-journals were analyzed based on Country, Language, Subject Heading and accessibility of Archive of e-journal (OAL, 2007).

LIMITATION OF THE STUDY

The study is limited to Zoology E-journals which is listed on Directory of Open Access Journal. For the present paper DOAJ data is accessible 20/01/2013. It is not possible to show all the online journals access so access of only one e-journal's full text article is shown at last as a screen snapshot.

DATA ANALYSIS AND INTERPRETATIONS

Total 105 Zoology E-journals were analyzed based on Country wise, Languages, Subject Headings and accessibility of Archives of E-journals. The list of journals is annexured in supplementary table: 1 which enumerates the free online journals on Zoology along with their URL so that any user can browse the e-journals directly by entering the URL in its address bar.

The screenshot displays the DOAJ website interface within a Mozilla Firefox browser window. The page features a navigation menu on the left with options like Search, Browse, Suggest a journal, About, Support DOAJ, Statistics, and Contact. The main content area is divided into 'Journals' and 'Articles' sections, each with search input fields and buttons. A 'NEWS' sidebar on the right lists recent updates, such as '15/9 2011: 7000 journals and the DOAJ site in Turkish' and '27/6 2011: Article about OA publishing'. At the bottom, a 'DOAJ AS OF TODAY' section provides statistics: 7097 journals, 3268 journals searchable at article level, and 639626 articles. The browser's taskbar at the bottom shows various open applications and the system clock at 4:45 PM.

Snapshot of DOAJ

Table 1: Analysis of Country wise Distribution of E-Journals on Zoology

Sr. No.	Place of Publication	No. of E-Journals	Rank
1	Argentina	2	7
2	Bolivia	1	8
3	Brazil	10	2
4	Bulgaria	4	5
5	Canada	4	5
6	Chile	1	7
7	China	3	6
8	Colombia	4	5
9	Croatia	1	8
10	Egypt	5	4
11	France	3	6
12	Germany	5	4
13	Hungary	2	7
14	India	1	8
15	Italy	4	5
16	Japan	1	8
17	Kenya	1	8
18	Mexico	2	7
19	Netherlands	2	7
20	New Zealand	1	8
21	Norway	2	7
22	Pakistan	1	8
23	Poland	3	6
24	Portugal	1	8
25	Romania	1	8
26	Russia	3	6
27	Singapore	1	8
28	Slovakia	3	6
29	South Africa	3	6
30	Spain	7	3
31	Switzerland	3	6
32	Turkey	1	8
33	Ukraine	1	8
34	United Kingdom	3	6
35	United States	12	1
36	Uruguay	1	8
37	Venezuela	2	7
	Total	105	

Table 1 depicts the country wise distribution of E-journals on Zoology on DOAJ. United States was in 1st rank due to publication of 12 e-journal followed by Brazil.

Table 2: Analysis of Language wise Distribution of E-Journals on Zoology

S.N.	Languages	No. of E-journals	Rank
1	Bulgarian	01	9
2	Catalan	03	7
3	Chinese	03	7
4	Croatian	01	9
5	Czech	01	9
6	English	105	1
7	French	09	4
8	German	05	5
9	Italian	04	6
10	Japanese	01	9
11	Portuguese	12	3
12	Russian	02	8
13	Slovak	01	9
14	Spanish	26	2
	Total	174	

Table 2 gives the information about the publication language of the E-journals on Zoology. English is the most common communication language to spread the knowledge in all over the world which is used by all 105 E-journals. Out of 105 e-journals on Zoology 26 E-journals is published in Spanish language, 12 published in Portuguese language which was 3rd rank in table. (See supplementary Table in Annexured 2, Available Online)

Table.3.a shows the interdisciplinary scope of the online-journals of Zoology. Zoology E-journals can also be used in, Microbiology, Medicine, Genetics, and Physiology Sciences.

Table 3: Distributions of Subject Headings of E-Journals on Zoology.

S.N.	Name of the E-Journals	Subject Headings
1	Acta Biológica Paranaense	Biology --- Zoology --- Botany
2	Acta Herpetologica	Zoology
3	Acta Zoologica Academiae Scientiarum Hungaricae	Zoology --- Biology
4	Acta Zoologica Mexicana	Zoology --- Biology
5	Acta Zoologica Sinica	Zoology
6	African Primates	Zoology
7	African Zoology	Zoology
8	Alces : a Journal Devoted to the Biology and Management of Moose	Zoology
9	American Museum Novitates	Zoology
10	Amphibian and Reptile Conservation	Zoology
11	Animal Biodiversity and Conservation	Zoology
12	Animals	Zoology
13	Arachnologische Mitteilungen	Zoology
14	Archivos de Zootecnia : Revista Trimestral	Zoology --- Animal Sciences
15	Arquivo Brasileiro de Medicina Veterinária e Zootecnia	Zoology --- Animal Sciences
16	Arthropod Systematics & Phylogeny	Zoology
17	Arxius de Miscel·lània Zoològica	Zoology
18	Avian Conservation and Ecology	Zoology --- Ecology
19	Biawak	Zoology
20	Boletín SAO	Zoology
21	Bonn Zoological Bulletin	Zoology
22	Bonner Zoologische Beiträge	Zoology
23	Bulletin of the American Museum of Natural History	Zoology
24	Chironomus Newsletter on Chironomidae Research	Zoology
25	Chiroptera Neotropical	Zoology
26	Comunicaciones de la Sociedad Malacológica del Uruguay	Biology --- Zoology
27	Contributions to Zoology	Zoology
28	Current Zoology	Zoology
29	Ecotropicos	Zoology --- Ecology
30	Egyptian Academic Journal of Biological Sciences : Entomology	Zoology
31	Egyptian Academic Journal of Biological Sciences : Zoology	Zoology
32	Entomologische Abhandlungen	Zoology
33	Entomotropica	Zoology
34	European Mosquito Bulletin	Zoology
35	Euscorpius	Zoology
36	Fauna Norvegica	Zoology
37	Florida entomologist	Zoology
38	Frontiers in Zoology	Zoology
39	Gayana (Concepción)	Zoology --- Oceanography
40	Graellsia	Zoology
41	HUITZIL : Journal of Mexican Ornithology	Zoology
42	Hystrix : the Italian Journal of Mammalogy	Zoology
43	Iheringia. Série Zoologia	Zoology
44	Illiesia	Zoology
45	Insecta Mundi	Zoology
46	Insects	Zoology
47	International Journal of Biology	Biology --- Zoology
48	International Journal of Insect Science	Zoology
49	International Journal of Myriapodology	Zoology
50	International Journal of Zoological Research	Zoology
51	International Journal of Zoology	Zoology
52	Invertebrate Survival Journal	Zoology
53	ISRN Zoology	Zoology
54	IUCN Otter Specialist Group Bulletin	Zoology
55	Journal of Entomological and Acarological Research	Zoology

56	Journal of Hymenoptera Research	Zoology
57	Journal of Insect Science	Biology --- Zoology
58	Journal of the Acarological Society of Japan	Zoology
59	Journal of the Entomological Society of British Columbia	Zoology
60	Journal of Threatened Taxa	Zoology --- Botany
61	Journal of Venomous Animals and Toxins	Zoology
62	Journal of Venomous Animals and Toxins including Tropical Diseases	Internal medicine --- Zoology
63	Kempffiana	Zoology
64	Koedoe : African Protected Area Conservation and Science	Biology --- Zoology --- Science (General)
65	Latin American Journal of Conservation	Zoology --- Ecology --- Biology
66	MalaCo	Zoology
67	Malacologica Bohemoslovaca	Zoology
68	Marine Ornithology	Zoology
69	Mastozoología Neotropical	Zoology
70	Mollusca	Zoology
71	Neotropical Ichthyology	Zoology
72	North-Western Journal of Zoology	Zoology
73	Open Entomology Journal	Zoology
74	Open Ornithology Journal	Zoology
75	Open Zoology Journal	Zoology
76	Opuscula Zoologica Instituti Zoosystematici et Oecologici Universitatis Budapestinensis	Ecology --- Zoology
77	Ornitología Colombiana	Zoology
78	Pachyderm : Journal of the African Elephant, African Rhino and Asian Rhino Specialist Groups	Zoology
79	Papéis avulsos de zoologia.	Zoology
80	Phyllomedusa : Journal of Herpetology	Zoology
81	Polish Journal of Entomology	Zoology
82	Polish Polar Research	Earth Sciences --- Geology --- Zoology
83	Psyche : A Journal of Entomology	Zoology
84	The Raffles Bulletin of Zoology	Zoology
85	Raptors Conservation	Zoology
86	Revista Brasileira de Zoologia	Zoology
87	Revista Catalana d'Ornitologia	Zoology
88	Revista Colombiana de Entomología	Zoology
89	Revista de la Sociedad Entomológica Argentina	Zoology
90	Revue de Primatologie	Zoology
91	Ribarstvo : Croatian Journal of Fisheries	Aquaculture and Fisheries --- Zoology
92	Ring	Zoology
93	Ruthenica : Russian Malacological Journal	Zoology
94	Serie Zoologica : Publicaciones de Biología de la Universidad de Navarra	Zoology --- Ecology
95	SHILAP Revista de Lepidopterología	Zoology --- Biology
96	Slovak Raptor Journal	Zoology
97	Turkish Journal of Zoology	Zoology
98	Vestnik Zoologii	Zoology
99	Wildlife Biology in Practice	Biology --- Zoology
100	. ZooKeys	Zoology
101	Zoologia (Curitiba)	Zoology
102	Zoological Research	Zoology
103	Zoologische Mededelingen	Zoology
104	ZooNotes	Zoology
105	Zoosystema	Zoology

Table: - 3.a Analysis of Subject Headings of E-Journals on Zoology

S.N.	Subject Headings	No. of E-journals
1	Aquaculture and Fisheries --- Zoology	01
2	Biology --- Zoology	04
3	Biology --- Zoology --- Botany	01
4	Biology --- Zoology --- Science (General)	01
5	Earth Sciences --- Geology --- Zoology	01
6	Ecology --- Zoology	01
7	Internal medicine --- Zoology	01
8	Zoology	84
9	Zoology --- Animal Sciences	02
10	Zoology --- Biology	03
11	Zoology --- Botany	01
12	Zoology --- Ecology	03
13	Zoology --- Ecology --- Biology	01
14	Zoology --- Oceanography	01
Total		105

Screen snapshot of Open Access Journal (Biotechnology and Molecular Biology Review)
FINDINGS

- It is observed that United States was in 1st rank due to publication of 12 e-journal followed by Brazil.
- English is the most common communication language to spread the knowledge in all over the world which is used by all 105 E-journals. Out of 105 e-journals on Zoology 26 E-journals is published in Spanish language, 12 published in Portuguese language which was 3rd rank in table.
- It is observed that Zoology E-journals are interdisciplinary in nature. Out of 105 E-journals, 84 e-journals are useful for purely for Zoology as core subject but Zoology journals can also be useful for Biology, Agriculture, Medicine, Earth Sciences, Ecology, Oceanography, Aquaculture

and Fisheries, Animal Sciences and Therapeutics' research scholars and scientists .

- All of e-journals archives are accessible from year of starting the Journal.

CONCLUSION

DOAJ is comprehensive and cover all open access scientific and scholarly journals that use an appropriate quality control system, and it will not be limited to particular languages or subject areas. DOAJ is to increase the visibility and ease of use of open access scientific and scholarly journals thereby promoting their increased usage and impact. Research scholars, Scientists, Professionals should browse the DOAJ site and access the free online journals on their Subject areas. It is also suggested that Scientists and Research Scholars should publish their research work in online open access journals for wider visibility of their research work and for greater impact factor and citation index (Jeffery, 2013).

All the supplementary data are available Online on IJLSCI website. <http://www.ijlsci.in>

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