

Bipublishers Bibliometric Indicators for Publishers

Methodology

This document provides detailed account of the methodology followed for the development of the BiP project. We indicate how fields and disciplines were constructed along with the data normalization process followed with the publishers. Finally, we define the indicators shown.

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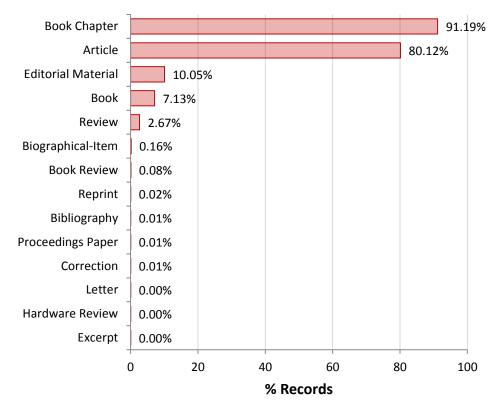
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Description of the Book Citation Index and construction of fields and disciplines

All results shown are based on the web version of the BKCI back in April 2014. The time period covered is 2009-2013. For this period 482,470 records where retrieved, distributed in 14 different document types. As it occurs with the rest of Thomson Reuters' citation indexes, a record may have more than one document type. Among others it includes the types 'book' and 'book chapter'. Only records tagged as 'book' or 'book chapter' were included in the analysis.





Regarding the construction of fields, this was made through the aggregation of Web of Science subject categories as presented in the BKCI. Unlike to what occurs with journals, books are individually assigned to one or more categories, meaning that a single publisher may have (and usually has) their output distributed among different categories. The aggregation of subject categories for fields and disciplines is available in Appendix A.

Data processing and normalization of publishers

For each record we processed the bibliographic fields as shown in table 1. The field PU was processed separately and normalized manually. We identified 342 different publishers although 254 were finally processed.

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Acronym	Name	Information		
AU	Author information	Author and affiliation data		
UT	Accession number	Accession number as identified by Thomson Reuters' Book Citation Index (UT)		
РТ	Publication type	Publication type. Two publication types are identified in the Book Citation Index: S (serials) and B (books). Only records indexed as B were included for the calculation of the indicators.		
BD	Bibliographic data	Title, source and series information for each record.		
DT	Document type	14 document types were found in the Book Citation Index (see figure 1). Only records indexed as books or book chapters were included for the calculation of the indicators.		
AF	Affiliation	Affiliation and reprint address.		
IN	Indicators	Number of pages and citations in Web of Science Core Collection and all Web of Science.		
PU	Publisher	Normalized publisher name, publisher variants and addresses.		
NR	Reference ID	ISSN or ISBN number of each record.		
PY	Publication year	Publication year of each record.		
WC	WoS Category	WoS categories aggregated by disciplines and fields as shown in Appendix A.		

Table 1. Bibliographic fields processed for each record from the Book Citation Index.

Thomson Reuters provides a list of 499 publishers (http://wokinfo.com/mbl/publishers/), however, many errors were detected in this list. For instance, in the case of Elsevier, the following variants were found:

ACADEMIC PRESS LTD-ELSEVIER SCIENCE LTD ELSEVIER ELSEVIER ACADEMIC PRESS INC ELSEVIER BUTTERWORTH-HEINEMANN ELSEVIER NORTH HOLLAND ELSEVIER SCIENCE BV ELSEVIER SCIENCE LTD ELSEVIER SCIENCE PUBLISHERS BV BIOMEDICAL DIVISION ELSEVIER SCIENTIFIC PUBL CO ELSEVIER/NORTH-HOLLAND JAI-ELSEVIER LTD JAI-ELSEVIER SCI BV JAI-ELSEVIER SCIENCE INC NORTH HOLLAND, ELSEVIER SCIENCE PUBL BV PERGAMON-ELSEVIER SCIENCE LTD

To avoid this dispersion, an independent normalization process was conducted manually checking also for further information regarding the publisher (i.e., website). In this process we adopted as a criterion that if a publisher had been acquired by another one, then all its output will be assigned to the latter one. Also, we assigned publisher types, differentiating between

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two types: 1) commercial and academic publishers, and 2) university presses. The user may filter according to publisher type in the results page at the website. Next we show two examples of such normalization:

Example 1: Name variants assigned to Elsevier:
• ACADEMIC PRESS LTD-ELSEVIER SCIENCE LTD
• FLSEVIER
ELSEVIER ACADEMIC PRESS INC
• ELSEVIER BUTTERWORTH-HEINEMANN
ELSEVIER NORTH HOLLAND
• ELSEVIER SCIENCE BV
ELSEVIER SCIENCE LTD
• ELSEVIER SCIENCE PUBLISHERS BV BIOMEDICAL DIVISION
• ELSEVIER SCIENTIFIC PUBL CO
GULF PROFESSIONAL PUBL
GULF PUBL CO
• JAI-ELSEVIER LTD
MORGAN KAUFMANN PUB INC
 NORTH HOLLAND, ELSEVIER SCIENCE PUBL BV
PERGAMON-ELSEVIER SCIENCE LTD
• PICKERING & CHATTO PUBLISHERS
Example 2: name variants assigned to Nottingham University Press
NOTTINGHAM UNIVERSITY PRESS

NOTTINGHAM UNIV PRESS

Publishers are subjected to changes over time, probably more frequently than journal names. In the profile of each publisher all name variants are shown in order to offer a more transparent tool to the user.

Finally a threshold of minimum 5 books or 50 book chapters has been included in order to maintain results stable. Only publishers which surpass such threshold are included in the final tables.

3.3 Definition of indicators

In this first edition six indicators are provided. In table 2 we include a definition for each of them. More indicators are expected to be included in future editions. The criteria followed for selecting these indicators are to show different aspects of the bibliometric performance of each publishers: output, impact and publisher profile (AI and ED).

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	Indicator	Acronym	Definition
Ουτρυτ	Total number of books	РВК	Total number of books published by a given publisher in a certain field or discipline in the last five years. Minimum threshold: 5.
ΟUT	Total number of book chapters	РСН	Total number of book chapters published by a given publisher in a certain field or discipline in the last five years. Minimum threshold: 50.
	Total number of citations	CIT	Total number of citations received by a given publisher in a certain field or discipline at the time of the data retrieval process.
IMPACT	Field normalized citation score	FNCS	Normalized citations received according to the 'Crown' indicator as defined by Moed et al. (1995). It is interpreted as follows. A publisher with a FNCS of 1 has the same impact as the average of the whole population. Values above one mean that it scores above the average, while values under one underperform in comparison with the global average.
PUBLISHER PROFILE	Activity index	AI	Distribution of books in a given field or discipline according to the overall output of a given publisher and in reference to the distribution of the whole Book Citation Index. If the value equals one then, the share of books as of the publisher is the same as the world average. Higher than one means more specialization in the given field.
	Percentage of edited items	ED	Share of book chapters which belong to edited books from the total number of book chapters published by a given publisher in a certain field or discipline in the last five years.

Table 2. Definition of indicators included

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