



# INTERNATIONAL JOURNAL OF ACADEMIC RESEARCH IN BUSINESS & SOCIAL SCIENCES



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To Link this Article: <http://dx.doi.org/10.6007/IJARBSS/v12-i11/15572> DOI:10.6007/IJARBSS/v12-i11/15572

Received: 06 September 2022, Revised: 08 October 2022, Accepted: 23 October 2022

Published Online: 02 November 2022

In-Text Citation: (Alshabibi et al., 2022)

To Cite this Article: Alshabibi, K., Marni, N. Bin, Abuhassna, H., Yaarubi, M. Al, & Awae, F. (2022). Understanding the Effects of Values in Teaching and Learning: A Bibliometric Analysis. *International Journal of Academic Research in Business and Social Sciences*, 12(11), 314 – 329.

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Vol. 12, No. 11, 2022, Pg. 314 – 329

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www.hrmars.com

ISSN: 2222-6990

## Understanding the Effects of Values in Teaching and Learning: A Bibliometric Analysis

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### Abstract

There is a close relationship between values and education in various related fields, and this relationship is evident through bibliometric analysis. The study sought to analyze all research from 2017 to 2021 by making use of visualizing similarities Phosphorous program. Analysis of a total of 3,678 publications categorized as Documented in the Scopus database between 2017 and 2021, identifying the most convincing Topics covered by the magazine. The results show several important studies' Interests (values - education - humanity - learning and values). Research provides a roadmap for potential researchers, focusing on critical areas in which success is possible.

**Keywords:** Value, Education, Higher Education, Human, Bibliometrics Analytics.

### Introduction

This research analyzes educational values and distributions published between (2017 - 2021) quantitatively to comprehensively examine the research landscape, especially values and education using bibliometric analysis. Biometrics. Although multivariate analysis is commonly used in value search and education using relationship variables in various fields of research (AlShehhi et al., 2022a; AlShehhi et al., 2022b; Mamman et al., 2017; Mamman et al., 2022; Abuhassna & Yahaya, 2018; Abuhassna et al., 2022b; Abuhassna et al., 2022a; Abuhassna & Awae, 2021; Abuhassna et al., 2022; Cain & Zhiyong, 2017). Contemporary educational theory and practice stress the relationships between values and ethics, education, nurture, community strengthening, and related subject development (Kemman, 2019). The moral relations between the teacher and the student have considered the most important in modeling expected behaviors, promoting a positive school culture climate, controlling behavior, and maintaining ethical educational relations. Values have a great role and impact on education in achieving and keeping pace with the goals and requirements of society to form sound controls and a broad culture of the changes surrounding it (Anu, 2018). Also,

values, opinions, and patterns of behavior that begin in adolescence can persist throughout one's life. Therefore, much research has focused on the importance of values and education that promote the positive development of youth (Curran &Wexler, 2017). This study helps to reveal the relationship between values and education and their interrelationship, as the bibliometric analysis shows the huge number of publications in the field of values and education at the Scopus classification level, which reached 172,418 posts. It also shows the percentage of countries participating in values research and education. This is evidence that the question of values is of interest to researchers. and authors around the world. Bibliometric analysis has been dealt with in the past five years due to the huge number of publications on values and education, and it was limited to the period from (2017 - 2021) and consisted of 3,678 publications in the field of humanities and values, and education, in addition to studies that were in English. For this purpose, the objectives of this study are to analyze the educational values and publications indexed in Scopus using bibliometric measurements, image analysis, and tables contributed by the researcher to the current study, after collecting all data from Scopus, the scientist. Leading abstracts and citation database of peer research. It has included many leading journals and publications in the field of values and pedagogy and aims exclusively to answer the following research questions:

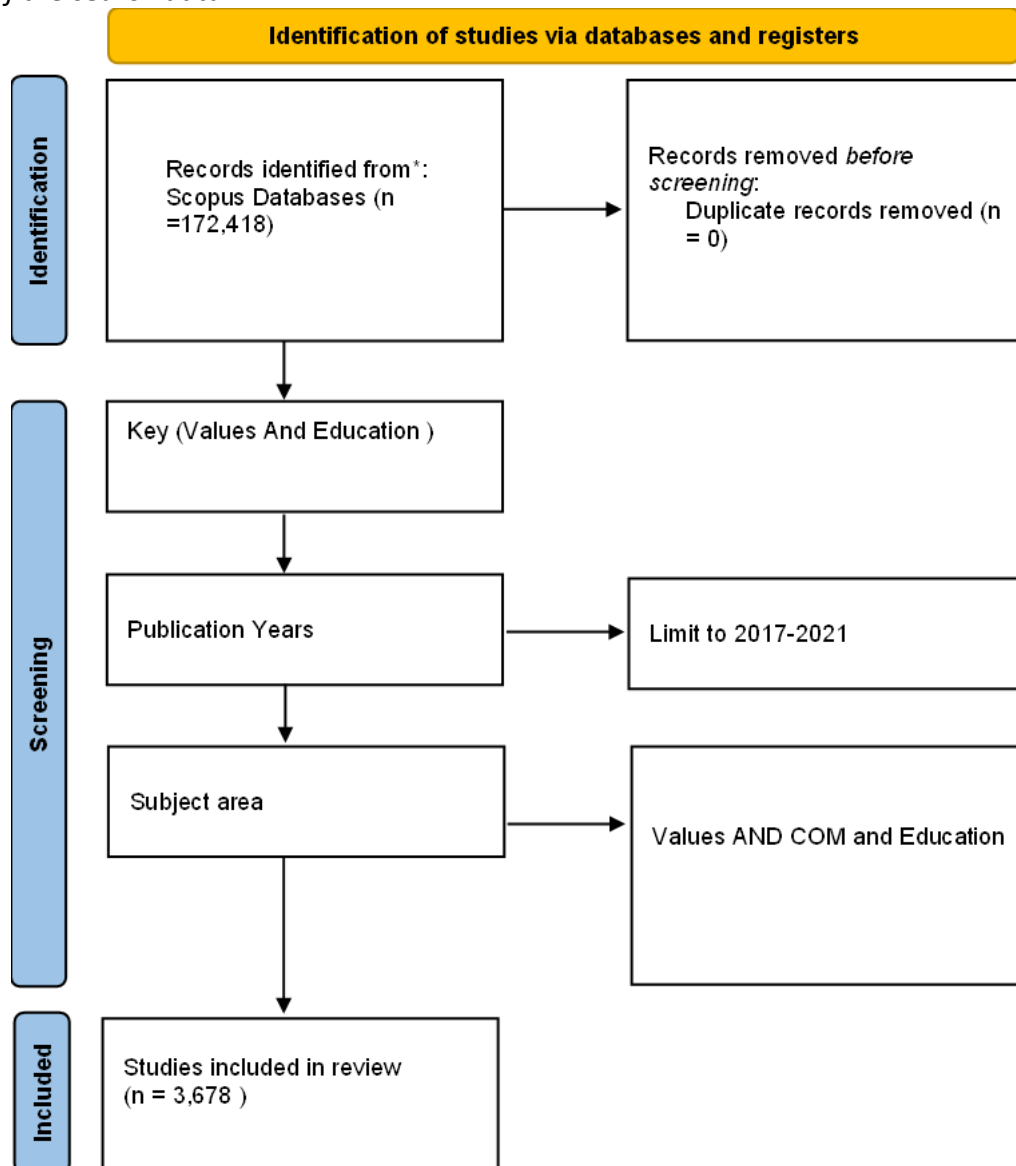
1. What is the distribution of Values and Education area publications by year for the last decade?
2. What are the most relevant Journals and authors in Values and Education area research?
3. What are the most productive countries in the Values and Education research area?
4. What are the primary research keywords for the last decade of Values and Education?

The researcher wrote the topic of articles that dealt with values in the curricula, where he noticed the huge number of articles on the same topic 172,418 thousand articles in values starting in 2017 and until 2021. The articles dealt with by the researcher in my study reached 3,678 articles in the field of literature and human sciences.

### **Material and Methods**

This review aimed to reveal the most prolific studies carried out in the Values and Education area. To achieve this bibliometric analysis review was conducted in this study. This research was conducted on 28th august 2022. Scopus database was used in this search. The initial search revealed 163,020 articles in the Values in Education research area. The keywords that were used were KEY (Values in Education). This research covered the last 5 years from 2017 to 2021. This research included ( SUBJAREA, "SOC" ) OR LIMIT-TO ( SUBJAREA, "COMP" ) OR LIMIT-TO ( SUBJAREA, "ARTS" ). Finally, the research language used only articles published in the English language and excluded any other languages. Moreover, the final articles used in this review were 3,616 articles in the Values in Education research area.

Table [1]  
 Map of the search data.



\*Consider, if feasible to do so, reporting the number of records identified from each database or register searched (rather than the total number across all databases/registers).

\*\*If automation tools were used, indicate how many records were excluded by a human and how many were excluded by automation tools

### Bibliometric Analysis

This research utilized a bibliometric analysis using VOS viewer, one of the most used software in the area of bibliometric analysis. This review is conducted based on the following purposes. First, the evolution of values in online pedagogy into a compelling field of research with very increasing research numbers. Thus, it is necessary to investigate the objective structure of this study area by utilizing an accurate value-analysis method that can automatically examine large and documented literature data. Next, current research is conducted to help provide insights into what has been discussed and trends in the topic of values in education.

Table (2)

*Inclusion and exclusion criteria*

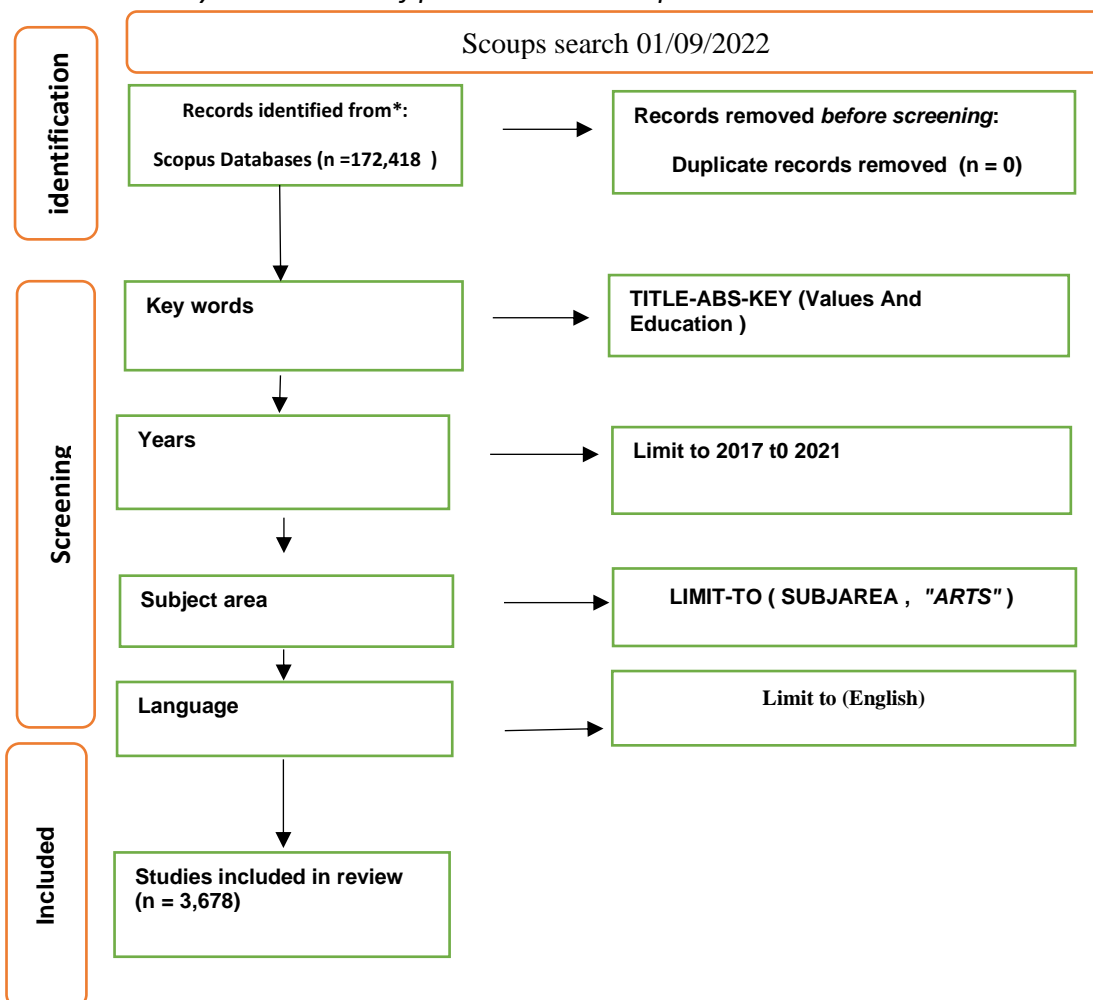
inclusion criteria	values and education +Arts and Humanities
exclusion criteria	Medical fields Engineering fields Conference papers Nonindexed papers

**Findings**

The study aims to reveal the publications of values and education published in the past five years from 2017-2021. The results of this review were discussed based on the research questions

Table [3]

*Search history and number of publications in Scopus*



**Research Question: 1**

What was the distribution of 'values and education' publications over the past five years? It has been observed that the papers were published mainly in the last two years; In 2020, the total number of publications was 757 on values and pedagogy; In 2021, the total number of publications published was 825 on values and education, followed by the total number of

publications of 758 in 2019. The other publications were distributed for the rest of the years, as shown in Figure 2. The figure also shows that in 2018, the number of articles was 705 single articles, while it was noted that the number of articles increased to 825 articles in 2021.

Fig 1 Distribution of publications by years (2017-2021)

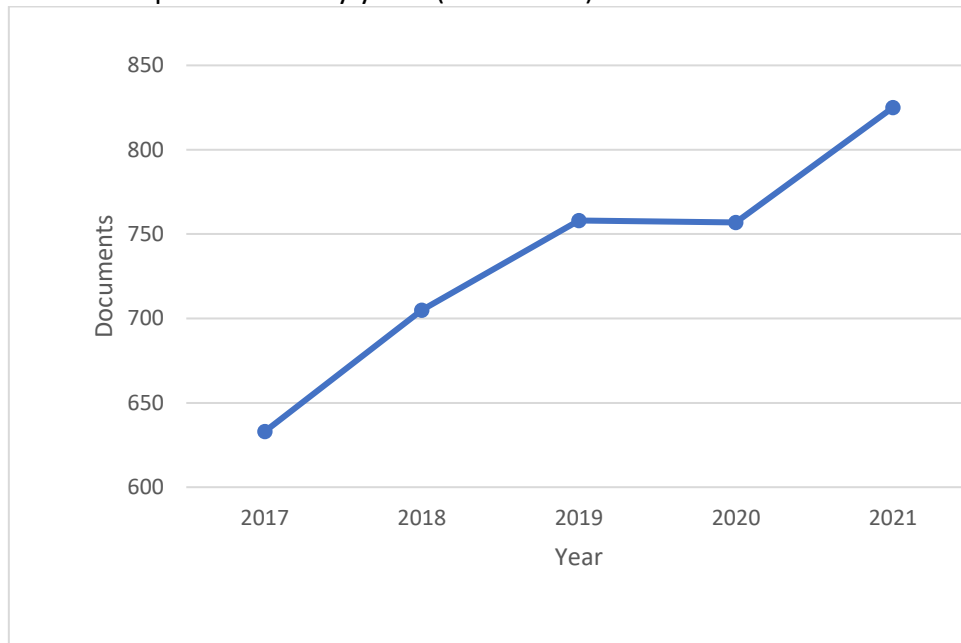


Fig (1) Distribution of publications by years (2017-2021)

The figure also shows studies in years of values and education. It is noteworthy that the number of articles published in the field of values and education has increased during the past five years from 2017-2021 in the "Scopus" database, and in 2021 the number of articles published in the field of values and education has increased. a plus. a plus. a plus. The number of publications reached 825 and this is the year that contributed to the largest number of articles indicating the importance of values and education and their impact on society. The study (Al-Aseel, 2019: 12) indicates that values are among the most important topics that must be searched for because they help shape learners' intellectual, psychological, and emotional capabilities.

## Research question 2

Which journals and authors are most relevant to research in the field of values and education? In the content analysis performed for the most cited journals, "total publication", "total citation", "journal citation score", "most cited article", "number of times cited" and "publisher" were selected as criteria analysis as The following is shown in Table (4) And figure number (2)of the ten most productive periodicals on values and education in the past five years (2017-2021).

Table (4)

*Top 10 SOURCES journals in values and education*

Journal	TP	TC	Cite score	The most cited article	Times Cited	Publisher
International Journal of Innovation, Creativity, and Change	1570	811	0.5	Spatial planning dysfunction in East Kalimantan to support green economy	24	Primrose Hall Publishing Group
History of Education Review	70			Bilingual education, Aboriginal self-determination and Yolŋu control at Shepherdson College, 1972–1983	3	Emerald
Educational Philosophy And Theory	1069	39	0.6	The university went to 'decolonize' and all they brought back was lousy diversity double-speak! Critical race counter-stories from faculty of color in 'decolonial' times Open Access	31	Taylor & Francis
English Teaching	164	591	1.8	Adolescent English language learners' digitally mediated multimodal compositions: multimodal enactment across different genres of writing in the EFL context	3	Emerald

Library Philosophy and Practice	2203	121	1.4	Evaluating Research Support Facilities to University Students during COVID-19	17	University of Nebraska-Lincoln
Man in India	669	892	0.4	Formation of communicative competence as a condition of the development of social orientation of the future teacher	2	Man in India
International Journal of Inclusive Education	1544	33	0.0	Transforming faculty conceptions of disability and inclusive education through a training program	25	Taylor & Francis
Religions	2774	361	4.3	To open or close? COVID-19, mosques and the role of religious authority within the British Muslim community: A socio-legal analysis	13	MD
Pertanika Journal of Social Science and Humanities	1040	2763	1.0	A thematic review on Industrialised Building System (IBS) publications from 2015-2019: Analysis of patterns and trends for	7	Universiti Putra Malaysia



				future studies of IBS in Malaysia		
Opcion	2319	1146	0.5	Global trends of the digital economy development   [Tendencias globales del desarrollo de la economía digital]	26	Universidad del Zulia

TP= Total publications, TC= total citations

Table 4 shows that the most productive journals about values and education are “Religions” with a total number of 2774 publications, and a total citation of 2763, followed by” Opcion “with a total number of publications of 2319, with a citation of 892, “Library Philosophy and Practice” with a total number of publications of 2203, and with a total citation of 1146, In addition to the "International Journal of Innovation, Creativity and Change" with a total number of publications 1570 The total quote is 811. Moreover, the distribution of the most productive Journals related to values, education, and religions is presented accordingly in

Table 4

On the other hand, “Total Citations”, “Current Affiliation” and “Country” were chosen as criteria for analysis

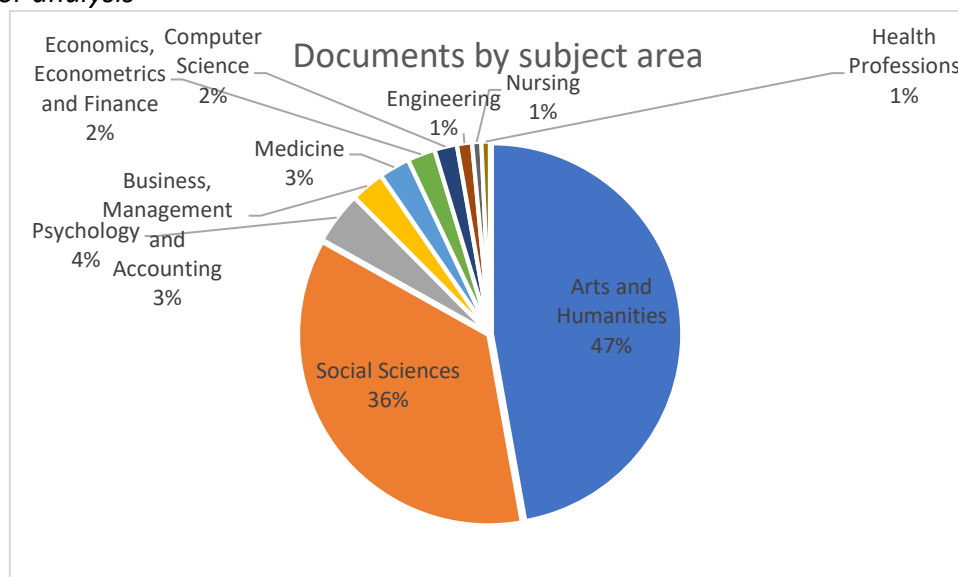
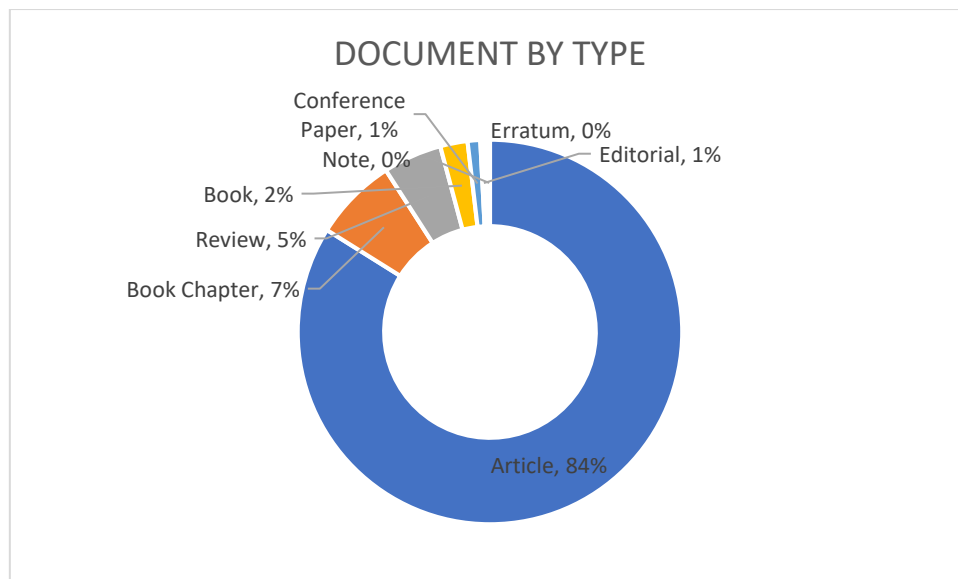


Fig (2) shows the distribution of scientific articles by specialization. It is noted from the figure that the most disciplines that received a high percentage of articles in the field of values were literature and humanities with 47%, followed by disciplines and fields of social media with 36%, while the lowest percentage of articles in the field of values and education specialized in nursing and engineering by 1% Just. This means that values and education are often discussed in the humanities and social media because values and education are humanistic disciplines and compatible with these fields.



Fig(3) shows the distribution of articles in the field of values in education by type in terms of book, paper, or conference. It appears that 84% of the articles that included the fields of values and education were in the article's specialty.

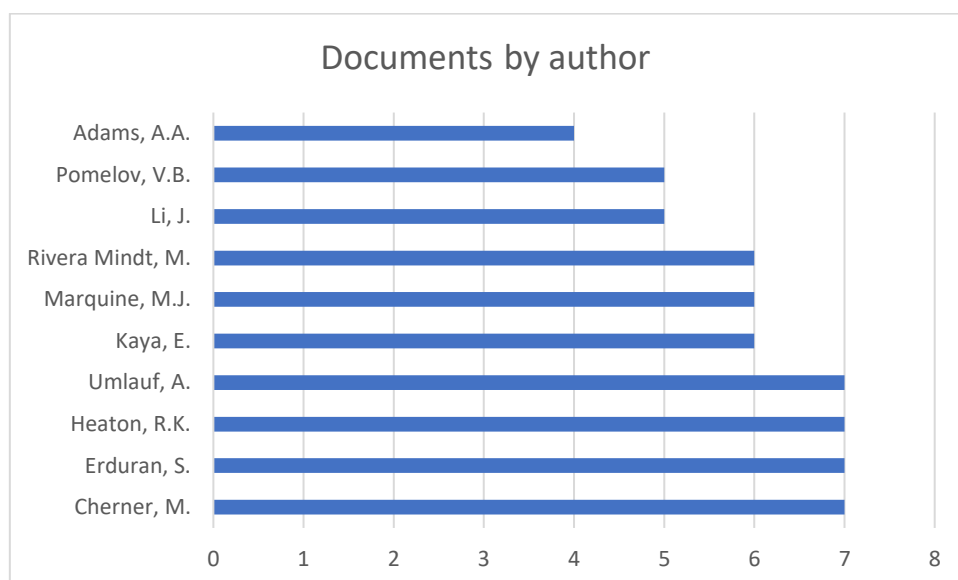


Fig (4) shows the distribution of articles on values in education by authors. It is noted from the previous figure that the most authors of articles on values in education are Cherner, M., Erduran, S., Heaton, R.K., and Umlauf, A. And the lowest author writing value is Adams. A.A.

### Research Question 3

What are the most productive countries in the field of research and education? In the content analysis conducted on the most productive countries in values and education, “the state”, “total publications”, and “the most productive”, the results of this research are in line with (Al-Maliki, 2019) who claimed that values are always with education. Anu (2018) emphasizes quality education with values that earn positive attitudes and behaviors of students in schools. Table No. (5) shows the top 10 countries and educational institutions in the field of research on values and their relationship to education.

Table 5  
 Top 10 countries and educational institutions

Country	Educational institutions	TP
USA	University of Notre Dame	823
United Kingdom	Queen's University	460
Australia	Curtin University	271
Indonesia	Lancaster University	189
Russian Federation	Federal University	169
Canada	Brock University	138
Spain	University of Navarra	130
Malaysia	Universiti Teknologi Malaysia	105
China	South China Normal University	102
South Africa	Stellenbosch University	88

Table No. (5) shows the most productive countries, educational institutions, and the number of publications on educational values and publications. The first of these countries is the United States of America, and the most widespread educational institution in the field of values and education is the "University of Notre Dame", which has published 823 articles. It was followed by the United Kingdom which published 460 articles published by Queen's University. South Africa is the least productive country for values and publications in values and education, according to Scopus, where Stellenbosch University has published 88 articles.

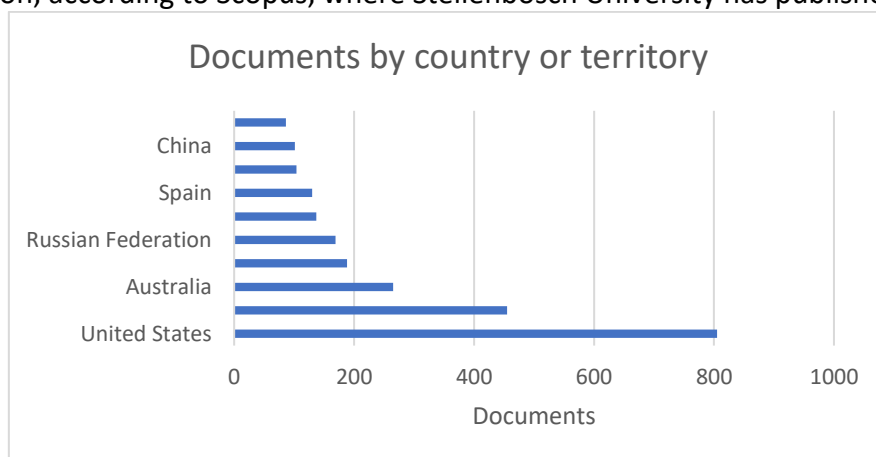


Fig (5) shows the distribution of articles by country or region. It is noteworthy that China and South Africa had the lowest number of articles with a value of 100, while the United States of America topped the list in terms of publishing the largest number of articles of value in the curriculum, reaching 800 articles published in the past five years.

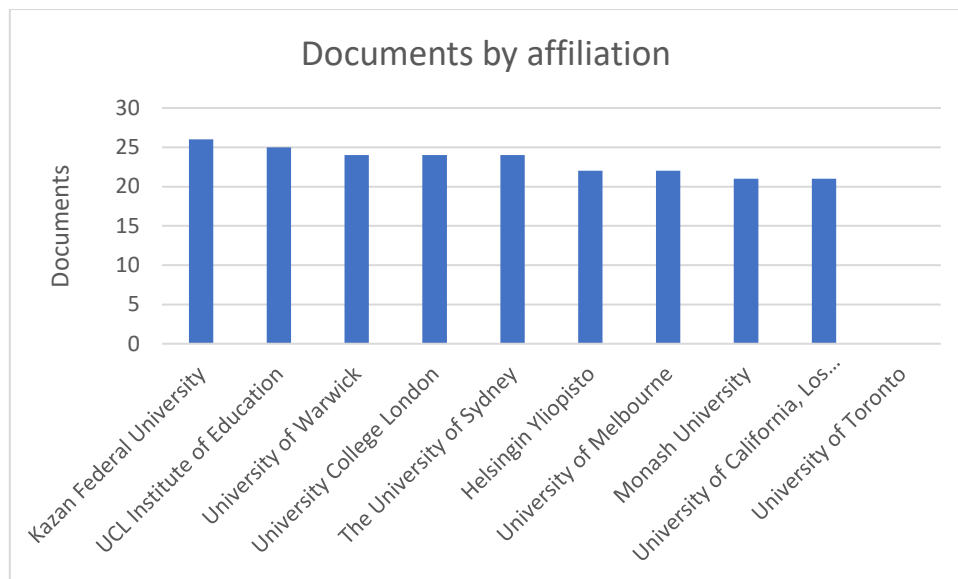


Fig (6)Country distribution and total publications

Figure No. 6 shows the distribution of articles of values in the curricula of affiliation with universities around the world. From the previous figure, it is noted that the University of Kazan Federal University While the university that publishes articles on values in education the least is the University of Toronto.

#### Research question 4

What have been the keywords related to values and education over the past five years? For the bibliometric analysis of the most frequently used keywords, the application of terminology analysis to titles and excerpts from the publication under study has been determined, so that we can accurately analyze the terms with the main topics and research trends in the field of values and education as shown in Figure (9)and Figure (10).

Verify selected keywords			
Selected	Keyword	Occurrences	Total link strength
<input checked="" type="checkbox"/>	human	176	2109
<input type="checkbox"/>	humans	139	1752
<input type="checkbox"/>	female	102	1510
<input type="checkbox"/>	male	98	1476
<input checked="" type="checkbox"/>	article	100	1381
<input checked="" type="checkbox"/>	education	231	1348
<input checked="" type="checkbox"/>	adult	78	1153
<input checked="" type="checkbox"/>	human experiment	72	1019
<input checked="" type="checkbox"/>	psychology	46	632
<input checked="" type="checkbox"/>	major clinical study	35	611
<input type="checkbox"/>	middle aged	32	568
<input type="checkbox"/>	adolescent	35	557
<input checked="" type="checkbox"/>	controlled study	32	524
<input checked="" type="checkbox"/>	child	37	518
<input checked="" type="checkbox"/>	young adult	28	517
<input checked="" type="checkbox"/>	aged	28	508
<input checked="" type="checkbox"/>	students	53	456
<input type="checkbox"/>	student	32	386
<input checked="" type="checkbox"/>	questionnaire	24	340
<input checked="" type="checkbox"/>	gender	36	318

Fig (9) Keyword post-analysis results

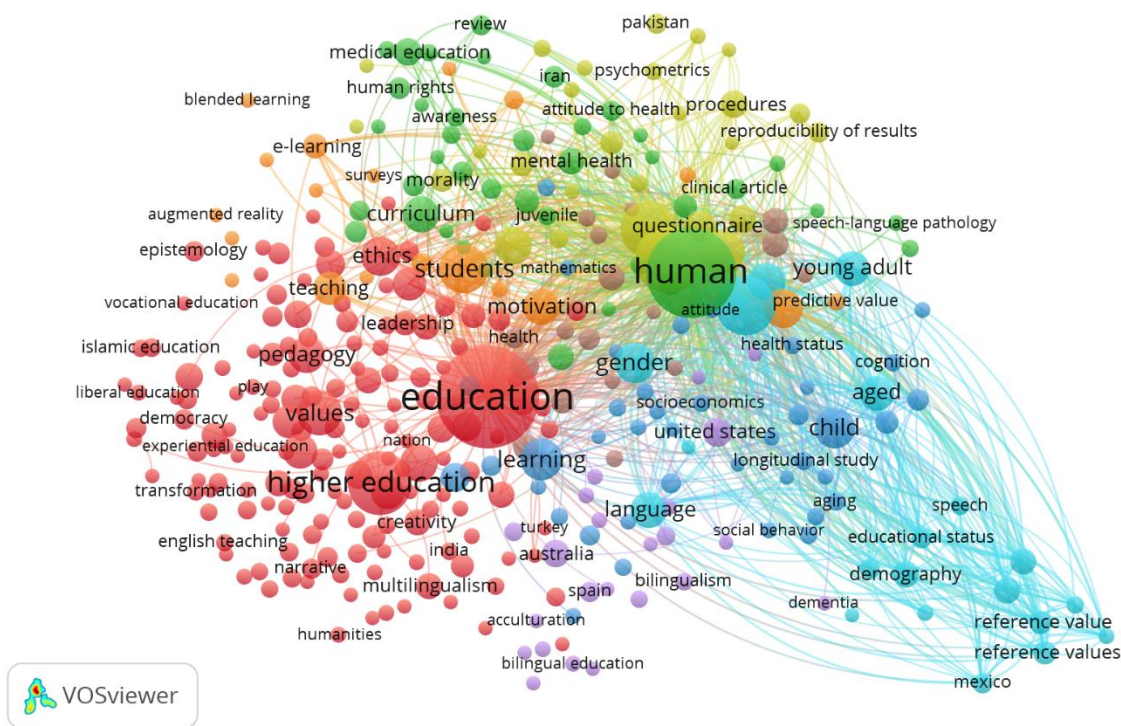


Fig (10) Analysis of the results of posts with keywords in VOSViewer

When examining Figure 10, the top 10 keywords used in the studies were listed as “values and education” (“attendance”  $Oc = 74$ ), “human” ( $Oc = 46$ ), “higher education” ( $Oc = 29$ ), “values” ( $Oc = 25$ ), “Type” ( $Oc = 24$ ), “Education” ( $OK = 18$ ) This was followed by the education of youth, adolescents, school students, parenting and morals. When checking job keywords, it is noticeable that 61% ( $n = 326$ ) use words such as education, higher education, and values, and words such as medicine, nursing, and gender such as male and female are not preferred in bibliometric analysis.

 Verify selected countries

Selected	Country	Documents	Citations	Total link strength
<input checked="" type="checkbox"/>	united states	428	1483	106
<input checked="" type="checkbox"/>	united kingdom	229	714	101
<input checked="" type="checkbox"/>	australia	162	478	63
<input checked="" type="checkbox"/>	china	81	309	44
<input checked="" type="checkbox"/>	germany	49	328	39
<input checked="" type="checkbox"/>	spain	82	302	32
<input checked="" type="checkbox"/>	canada	71	153	31
<input checked="" type="checkbox"/>	finland	32	118	24
<input checked="" type="checkbox"/>	netherlands	40	142	23
<input checked="" type="checkbox"/>	malaysia	41	46	21
<input checked="" type="checkbox"/>	brazil	30	98	17
<input checked="" type="checkbox"/>	india	39	58	17
<input checked="" type="checkbox"/>	italy	35	131	17
<input checked="" type="checkbox"/>	south africa	43	68	17
<input checked="" type="checkbox"/>	indonesia	102	166	16
<input checked="" type="checkbox"/>	ireland	24	81	16
<input checked="" type="checkbox"/>	new zealand	17	40	16
<input checked="" type="checkbox"/>	denmark	15	21	14
<input checked="" type="checkbox"/>	russian federation	80	143	14
<input checked="" type="checkbox"/>	norway	24	134	12

Fig: (11) Analyzing the results of the most productive countries in values research and education

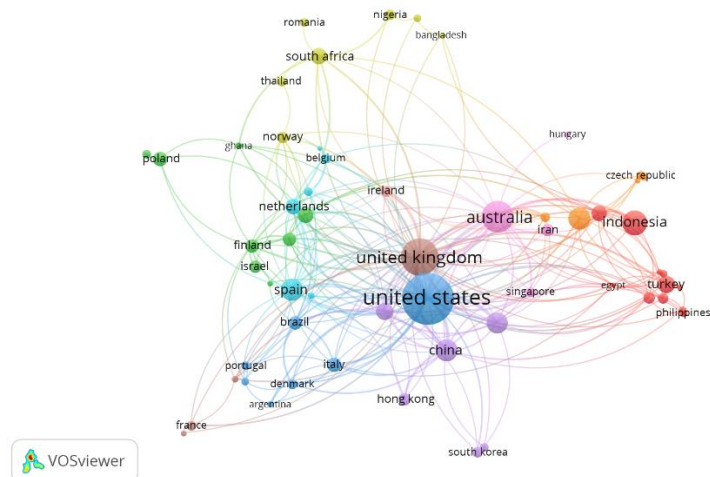


Fig (12) shows the analytical results of the producing countries in the field of values and education

According to Scopus classification. The cooperation network of countries/regions was analyzed by co-authoring on the topic of the relationship of values and education, using the program (VOSviewer), so the figure presented a greater interest in specific issues in values and education and was the most productive country 'US The', followed by 'UK', followed by 'Australia' then China, Germany, Spain, Canada, Finland, Netherlands, and Malaysia are countries/regions From within the same institutions and continents, from within the same countries. Fields of similar scholastic interest tend to collaborate more on values and pedagogy than do areas of scholarly research.

## Conclusion

The world is witnessing great challenges in the field of values and education, and countries are competing in search of the importance of values and education and the relationship between them, including regular educational schools and universities, to reveal the topics of values, education, and exemplary education. This shows the volume of publications related to values and education conducted around the world during the past five years, amounting to 172,418 publications in the field of values and education. This paper analyzes 3,678 publications on values and education according to the Scopus classification. Publications were read using bibliometrics and content analysis. as well as distribution. The annual number of publications on values and education reflects the reasons for the growing interest in values and education in various countries of the world. And making it a priority for education in regular schools, universities, and higher education. The University of Notre Dame in the United States was the most productive the number of valuable and educational publications reached 823 in the past five years 2017-2021 This can help in developing knowledge in school and university students, as having values besides education brings the greatest benefit to learning, as it is seen that human values, education, and higher education receive a high percentage of research and education. More precise search terms were used in this analysis, namely values and education, focusing on analyzing the impact of values on humanity, education, and higher education. From the results of this article, it can be said that the results of the analysis showed that 2021 is the most popular year in the field of educational values, despite the spread of the Corona Covid 19 pandemic. The results of the analysis in this article also showed that the most cited author in the field of values and education is Maria J. The

study also provided information in terms of authors, countries, research institutions, citations, and the most important researchers in the world. Globalism. world in the field of values and education.

### Recommendations

Through the results of the analysis obtained from this study, we can make several recommendations, including that universities should urge their students to this type of study represented in the bibliometric analysis of research published on a topic, especially the topic of values. and education, as this type of study, provides a base for other researchers for references that can be issued for their research; Bibliometric study of research published in a non-Scopus database on values and education with the addition of 2022. Paying attention to the values that help learners to form their personality and to be good in their home country.

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