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The Navigation The Landscape of Adult Growth: A Bibliometric **Odyssey through Scopus-Indexed Publications on Adult Value Reflection (1972-2023)**

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Abstract

This study aims to determine adult learning and self-development mapping in Scopus-indexed publications. This research uses bibliometric analysis techniques to examine all publications indexed in the Scopus database on adult values reflection from 1972 to 2023. The data were analysed using Excel and R/R-Studio. VOSviewer was used to analyze the co-occurrence of keywords and document citations visually. The author found 507 publications matching the defined function, subject, and criteria. The results of this study show an annual growth rate of 7.8%, with the most publications on adult values reflection in 2018. The United States is the country with the highest contribution. The bibliometric analysis carried out was limited to Scopus data. Other national and international databases were not included in this study. This study presents a snapshot of the literature accessible to researchers in the fields of education and health and provides recommendations for future research. Important information about the data.

Keywords: Awareness, Curriculum, Interview, Control Study and Perceptions

Introduction

Adult values reflection is the process by which a person considers and rethinks the values they hold and that are important in their lives. Values are learned beliefs (Archer-Kuhn et al., 2020; Gallagher et al., 2018; Marsden et al., 2022; Quick, 2016) about what is important and meaningful in life that serve as guiding principles (I Putu Suardipa, I Ketut Widiara, 2013). Our values reflect what is important to us in life. These values are often referred to as personal guiding principles or life goals (Johansson & Hamberg, 2007; Sickler et al., 2014). Individual values reflect our life experiences and the environment in which we live and serve as key contributors to our value system and the way we think and behave (Boyle et al., 2023; Huang et al., 2018; Sickler et al., 2014)). Reflection in adult learning can be defined as a process of critical thinking (Curtin et al., 2015; Lynd-Balta, 2006; Niemi, 1997) and self-evaluation (Kanthan & Senger, 2011; Niemi, 1997; Quick, 2016) of acquired experiences and knowledge. This reflection process helps adults make connections between their experiences and knowledge, leading to deeper understanding and more effective action (Dilger, 2003; Wamsler et al., 2020). Reflection can assist adults in identifying their core values (Thiel et al., 2020) and enhancing their worldview (Thiel et al., 2020). This process of reflection is applicable in both individual and group settings and can take place in various adult education settings (Ellis, 2019; Gouthro & Holloway, 2018; McKim & Wright, 2012; Sickler et al., 2014), including training programs, courses, or work experiences. Values reflection is a crucial process in adult education that entails critical analysis (Archibald et al., 2018; Le Sommer-Péré et al., 2017), self-assessment (Daryazadeh et al., 2020; Liebenberg & Roos, 2008), and comprehension of significant values in life. It is a vital component of cognitive growth and self-awareness.

Research by Imel (Imel, 1992) on reflective practice in adult education demonstrated that this ability involves the reflection on actions to transform ambiguous practice situations into ones that provide greater certainty about which actions are most appropriate. However, the study did not explore the significance of reflection on adults. (Nässén et al., 2023) conducted a study on healthcare experiences in adults, focusing on the possibilities and constraints that arise when caring for this group. The research does not address the value of reflection for adults. Meanwhile, (Molewijk et al., 2023) The paper discusses ethical considerations in investigating employee attitudes towards coercion, team competence, user involvement, teamwork, and team issues. However, it fails to address the significance of reflective practice among adults. Research by (Asztalos Morell et al., 2023) investigated older adults' understanding of aging, focusing on care for this demographic. The study, however, did not explore the value of reflection in adults. In contrast, (Schaepkens et al., 2023) study, "Oh yes, that is also reflection," examined how a culture of reflection can address challenges but did not elaborate

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on the significance of reflection for adults. This study by (Lathen & Laestadius, 2021) analyzes the online focus group reflections of African American adults during COVID-19. It discusses the reflections of groups with low socioeconomic status but does not provide insight into the importance of reflection for adults themselves.

Reflection is a powerful means for individuals to identify their intrinsic values and comprehend how these values shape their perspectives and behaviors. In adulthood, reflection carries significance because it is highly valued by adults who acknowledge its role in self-growth (Henrickson et al., 2022; Niemi, 1997) and decision-making (Fichter, 2018; Kenny, 2015; Mamede et al., 2019; Matandika et al., 2022) Reflection enables adults to gain a better understanding of themselves, identify their strengths and weaknesses, and gain insight into their personal growth and development (Fischer & Pruyne, 2002). Through reflection, adults can analyze their past experiences (Obayashi et al., 2018) and learn from their mistakes and poor decisions, which can assist them in making better decisions in the future. Reflecting on what one has learned helps adults in the learning process by consolidating new knowledge (Dickinson, 2007) and connecting it with existing knowledge (Roessger, 2014). This process allows for the strengthening of knowledge retention and acquisition.

In conclusion, reflection is a valuable practice for adults as it supports personal growth, improves decision-making, enhances quality of life, promotes healthy relationships, and develops learning skills. Thus, teaching strategies that encourage reflection within adult education programs should be introduced to help enhance appreciation of reflective practice and develop reflective thinking skills. It is crucial to conduct a thorough analysis of current research discoveries to facilitate future research and establish tools for adult values contemplation. This assessment process relies heavily on the accessibility and precision of scientific research data. Bibliometric indicators are a useful tool for evaluating scientific research results, as they examine the interaction between science and technology, produce field maps, and track the development of new knowledge in a particular field. These indicators are also helpful in producing future indicators for strategic planning (Belmonte et al., 2020; Boquera et al., 2021; Zheng et al., 2019).

This study seeks to chart the progression and trends of research on adult value reflection in Scopus-indexed publications between 1972 and 2023. The selection of 1972 as the starting point was based on a Scopus search that revealed one publication on this topic that year.

Research Methods

Bibliometric analysis as an approach was used in this study (Apriantoro, 2023; Apriantoro, Herviana, et al., 2023; Apriantoro, Maheswari, et al., 2023; Apriantoro & Wijayanti, 2022). Utilizing the Scopus database between 1972 and 2023, the data was found using the Boolean search engine. On August 5, 2023, around 9: 30 am, a search was done. To analyse citations, document content, and networks, the researchers employed tools from R and RStudio, VOSviewer, and Microsoft Excel. Processing the dataset was done by the researchers in three steps.

To make sure research that may be used to bibliometric themes is accomplished, the researcher will first perform a study of the relevant literature on connected topics. Additionally, the assessment of the literature helps choose acceptable keywords that are thought to represent the range of the study.

In the second stage, the researchers searched Scopus using the Boolean operator TITLE-ABS-KEY (adults AND value AND reflection), which resulted in 3,462 documents. Further filtering was performed using the Boolean operators (LIMIT-TO (SUBJAREA, "soci") AND (LIMIT-TO (DOCTYPE, "ar")) AND (LIMIT-TO (SRCTYPE, "j")) AND (LIMIT-TO (LANGUAGE, "English")) to limit only in the social sciences subject area, articles as document types, document sources only journals, and only English articles, resulting in a final document of 503.

During the third stage, we analysed the final search documents using Scopus Analyser, R, and RStudio. Our objective was to determine the number of documents per year, documents classified by journal, author, affiliation, country, and subject/field. In addition, we analysed the document network level through the use of a VOSviewer and Microsoft Excel data processing. Details of the research procedure can be found in Figure 1.

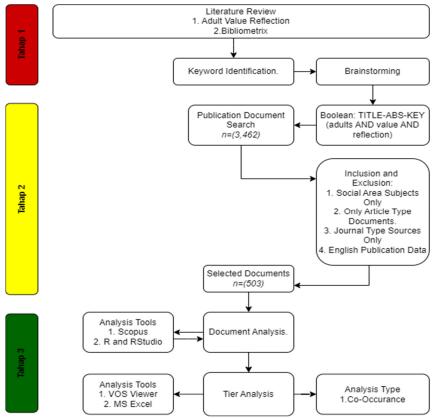


Figure 1. Flowchart of Bibliometric Adult Value Reflection

Result and Discussion

a. Document Analysis Main Information About Data

Table 1 provides an overview of the 297 documents collected over 51 years. Includes 1727 authors, 132 single authors, 13.12% international authorship collaboration, and 19981 references with an average citation per document of 12,97 citations.

Table 1. Main Information About Data (Retrieve from Bib-Shy)

Table 1. Main information About Data (Retrieve from Bib-Sny)				
Description	Results			
Main Information About Data				
Timespan	1972:2023			
Sources (Journals, Books)	297			
Documents	503			
Annual Growth Rate %	7,8			
Document Average Age	7,68			
Average Citations Per Doc	12,97			
References	19981			
Document Contents				
Keywords Plus (Id)	1842			
Author's Keywords (De)	1727			
Authors				
Authors	1542			
Authors Of Single-Authored Docs	132			
Authors Collaboration				
Single-Authored Docs	137			
Co-Authors Per Doc	3,14			
International Co-Authorships %	13,12			
Document Types				
Article	503			

Document by Year

Based on the analysis, the development of publications on the theme of Adult Value Reflection is shown by year. As depicted in Figure 2, this document traces back to 1972, with stagnation between 1997 and 1999, and a peak of 52 publications in 2018.

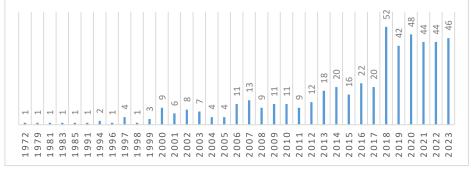


Figure 2. Adult Value Reflection Publication by Year

Most Relevant Author

Based on the R analysis presented in Figure 3, the top ten most influential authors for the publication of "Adults Value Reflection" are Pedersen, R. with four publications, followed by Mullen, J. and Rimanoczy, I. with three each. The findings demonstrate the significance of these authors' contributions to the field.

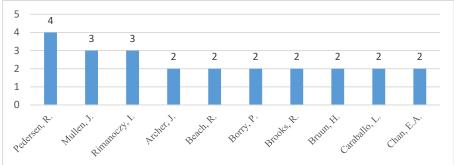


Figure 3: Most Important Authors on Reflection of Adult Values

Documents by Affiliation

Based on data analysis results, the top ten influential affiliations in publications on Adults Value Reflection are presented. The Vinje University of Amsterdam and the University of Oslo are the leading affiliations, each with seven documents, followed by the University of McGill, University of Toronto, Columbia University, and Kebenhavns University, with six documents each. Figure 4 below presents the ten affiliates that published research on Adults Value Reflection.

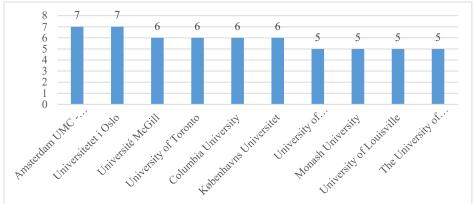


Figure 4. Affiliation of Publications on Reflection of Values in Adults

Document by Country

Figure 5 displays the Scopus-indexed publications by country on the theme of Adults Value Reflection. The United States takes the lead in this publication with 165 documents, followed by the United Kingdom with 103 documents. Six European countries dominate the publication list. Additionally, the American continent countries are ranked second, indicating that research on adult value Reflection is more popularly undertaken by European countries.

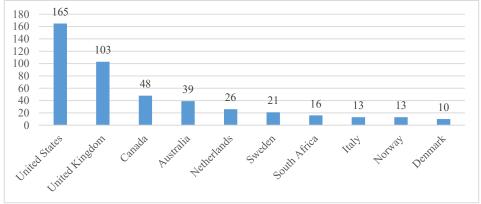


Figure 5. Countries with Publications on Adult Value Reflection

Three-Field Plot

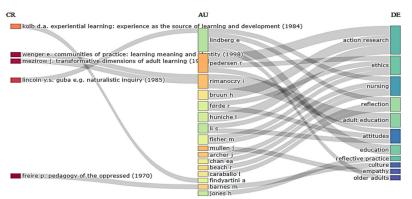


Figure 6. By Document Name, Author and Keyword

Figure 6 contains 3 observed elements; document name, author name, and keywords used. The three elements are then connected by gray plot lines that are related to each other. Based on the journal name, each journal shows which authors most frequently contribute to its publications, especially those with the theme of Adults Value Reflection.

The plot's size indicates the number of publications related to the theme. According to the figure above, there are five documents, each of which presents research on the topic of adult value Reflection.

According to the depicted chart, there are 16 authors and the size of each bar represents the respective author's research publication quantity. The top 6 authors who wrote about the Adults Value Reflection theme include Linberg, Pedersen, Rimanoczy, Fisher, Forde, and Li, respectively.

In the third section, each research topic is linked to authors who have substantial contributions to the field of ethics. The analysis reveals 11 keywords, with action research and ethics being among the top ones, indicating a strong association with ethics-related research.

Corresponding Author's Countries

Figure 7 displays that USE, the United Kingdom, and Canada have the largest SCP, while the largest MCP is held by USE with 8 documents, Sweden with 6 documents, and the United Kingdom with 4 documents. Continental Europe dominates the documents.

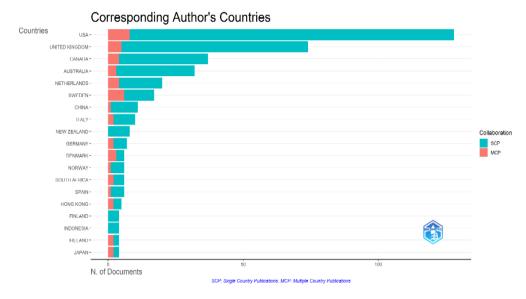


Figure 7. By Corresponding Author's Countries

Most Global Cited Document

Citation analysis with Vosviwer as in Table 2. Shows that KASSIRER JP, 2010, ACAD MED is the document with the highest total citations with 251 citations and is the document with the highest TC per year. So the TC affects the TC per year, but the year of publication does not affect the TC.

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Table 2	D		11.00	C:4-4	Publications	

	Total	TC Per	Normalized TC
Paper	Citations	Year	
Kassirer Jp, 2010, Acad Med	251	17,93	7,04
Klein Bek, 2005, Arch Gerontol Geriatr	210	11,05	3,47
Niemi Pm, 1997, Med Educ	137	5,07	1,99
Brown Km, 2006, Educ Adm Q	132	7,33	4,26
Seale C, 1997, Soc Sci Med	130	4,81	1,89
Paquette M-C, 2004, Soc Sci Med	122	6,10	1,69
Xue Sa, 2003, J Speech Lang Hear Res	109	5,19	2,62
Shapland J, 2011, Punishment Soc	105	8,08	2,48
Bindal T, 2011, Med Teach	97	7,46	2,29
Dilger H, 2003, Med Anthr Cross Cult Stud Health Illn	97	4,62	2,33

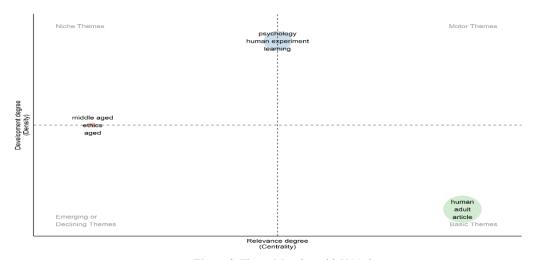


Figure 8. Theme Mapping with VOSviewer

Based on the data retrieved from VOSviewer, Figure 8 displays a theme map containing Basic Themes, Motor Themes, Niche Themes, and Emerging or Declining Themes.

Basic Themes: a category containing fundamental themes representing the basis or core of existing research or publications. In the data provided, the "Human" cluster (Cluster 3) serves as an example of a fundamental theme that is frequently the main focus of research and receives significant attention from researchers.

Motor Themes: This category comprises the principal themes driving research development. An example of a motor theme from this dataset is the "Psychology" cluster (Cluster 5). Psychology themes are actively researched and impact the direction and trends in Psychology-related research. Motor themes have a significant impact on how research and publications progress over time.

Niche Themes: This category encompasses themes that are more particular and less general than the basic and motor themes. The "Ethic" cluster (Cluster 1) serves as an example of a niche theme in this dataset. The Ethics theme belongs to the niche theme category since it may have a smaller audience or only be of interest to a specific group of researchers.

Emerging or Declining Themes: This category comprises themes that are either gaining or losing popularity in research or publications. In this dataset, the theme "Article" (Cluster 1) can be classified as an emerging theme because its frequency and relevance in research are still significant, though not as much as the themes "Human" (Cluster 3) or "Adult" (Cluster 3). Conversely, there are themes with lower occurrences, such as "Aged" (Cluster 1) and "Ethic" (Cluster 1), which are categorized as declining themes due to the decreasing number of related research or publications.

By conducting an analysis based on this classification, we can understand the distribution and trends of themes within the existing research or publication system. This categorization helps in identifying key themes that dominate a particular research area, emerging themes as well as themes that may require more attention and further research.

b. Network Analysis

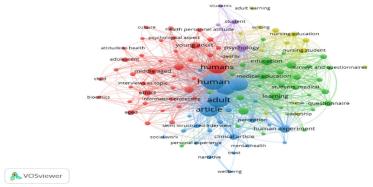


Figure 9. Mapping Based on Network Visualiz

Mapping Based on Network Visualization of Adult Value Reflection in Figure 8. Shows a minimum cluster size of 1, with clusters formed, namely 5 clusters, cluster 1 with 39 items, cluster 2 with 29 items, cluster 3 with 25 items, cluster 4 with 14 items, and cluster 5 with 4 items. "human" is a keyword that dominates with a total link strength of 22509

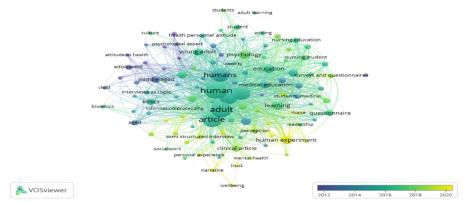


Figure 10. Mapping Based on Overlay Visualization of Adult Value Reflection

Figure 9. above shows the network analysis with keywords based on overlay. It can be seen that the keywords "human experiment", "students" and "wellbeing" are keywords with usage around 2020. The keywords middle-aged, adolescent, and psychological aspect are keywords with relatively old usage around 2012.

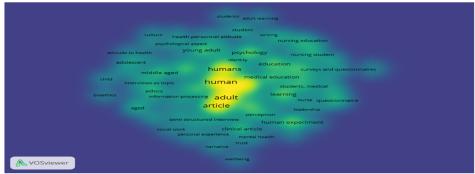


Figure 11. Mapping Based on Density Visualization of Adult Value Reflection

Figure 10. above shows the network analysis with keywords based on density. It can be seen that the keywords "human, humans, and adult" are keywords with high density, and the keywords "child, students, and attitude to health" are keywords that are still rarely researched.

	Table 3. Network Analysis Document				
Ke	yword	Occurrences	Cluster		
1.	Young Adult	53	1		
2.	Humans	190			
3.	Middle Aged	45			
4.	Ethic	39			
5.	Aged	30			
1.	Education	66	2		
2.	Curriculum	50			
3.	Learning	66			
4.	Questionnaire	38			
5.	Controlled Study	58			
1.	Human	263	3		
2.	Adult	243			
3.	Male	188			
4.	Female	196			
5.	Human Experiment	69			
1.	Nursing Education	29	4		
2.	Student Education	27			
3.	Reflection	26			
4.	Adult Learning	12			
5.	Adult Education	13			
1.	Psychology	70	5		
2.	University	10			
3.	Student	25			
4.	Students	12			

The table above shows the occurrence in each cluster that represents the main themes in the research field of adult values reflection. The theme in the first cluster is the stage of human life, the theme in the second cluster is educational process and knowledge, the theme in the third cluster is aspects related to humans, the theme in the fourth cluster is various aspects of education and the theme in the fifth cluster is elements of human studies.

Conclusions

Publications on the topic of adult value reflection reached their peak in 2018 with 52 documents. The top author, R. Pedersen, published a total of 4 articles, while J. Mullen and I. Rimanoczy each authored 3 papers. The University of Amsterdam and the University of Oslo had the highest affiliation with 7 documents. The United States had the highest number of publications with 165 documents, followed by the United Kingdom with 103. Six European countries dominate this study's sample. The purpose of this investigation is to map the evolution and trajectory of research on adult value reflection in articles cataloged by Scopus databases from 1972 to 2023. The year 1972 was selected based on the discovery of only one publication in the Scopus database that pertained to adult value reflection.

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