

Bibliometric Analysis of Human Resource Development: Trends, Research Focuses, and Recent Developments

Darman¹, Loso Judijanto², Iwan Harsono³, Alfa Santoso Budiwidjojo Putra⁴

¹Universitas Bina Mandiri Gorontalo

²IPOSS Jakarta, Indonesia

³Universitas Mataram Indonesia

⁴Universitas Pignatelli Triputra

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ABSTRACT

This bibliometric analysis delves into the dynamic landscape of Human Resource Development (HRD) research, exploring trends, collaborative networks, and influential works. Utilizing VOSviewer, we conducted a temporal analysis, co-authorship network analysis, keyword co-occurrence analysis, and citation analysis on a comprehensive dataset from leading databases. Temporal trends reveal an increasing scholarly interest in HRD since the early 2000s. Co-authorship networks unveil collaborative clusters, showcasing influential authors and fostering a collective research agenda. Keyword co-occurrence analysis uncovers interconnected thematic clusters, emphasizing the interdisciplinary nature of HRD. Citation analysis identifies pivotal works shaping HRD scholarship. Integrating these findings provides a holistic understanding of HRD research, offering implications for future endeavors and insights for scholars, practitioners, and policymakers.

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Corresponding Author:

Name: Dr. Darman, M.Si

Institution: Universitas Bina Mandiri Gorontalo

e-mail: darman@ubmg.ac.id

1. INTRODUCTION

Human Resource Development (HRD) is crucial for organizations in today's rapidly changing global landscape. It plays a vital role in developing a skilled and adaptive workforce, driving growth, innovation, and employee resilience. HRD involves improving the skills, knowledge, and abilities of human resources through training and development programs [1]. Career development is an essential aspect of HRD, as it contributes to self-realization and the effective functioning of the organization [2]. HRD also has a direct impact on talent

development, employee resilience, and organizational effectiveness [3]. By instituting procedures for skill development, encouraging teamwork, and providing appropriate recognition and compensation, HRD can foster originality and innovation among employees [4]. Additionally, talent management is crucial in HR organizations, as it positively influences employee career development and helps organizations create a competitive advantage [5]. Overall, HRD is a key strategic component that organizations must prioritize to ensure a skilled and adaptable workforce that can thrive in today's competitive environment.

This research embarks on a comprehensive journey to explore the dynamic HRD landscape through the lens of bibliometric analysis, uncovering trends, research foci, and recent developments that have shaped this important discipline. In the contemporary business environment, organizations are facing the need to continuously improve the capabilities of their workforce in order to succeed. HRD, which encompasses activities such as training, development, and knowledge management, plays a crucial role in organizational performance. Researchers have shown growing interest in studying talent development, learning methodologies, and the impact of HRD on organizational success. The importance of retaining and engaging employees with special skills, properly evaluating and developing their capabilities, and implementing effective learning and development programs has been emphasized [6]. The adoption of technological advancements, such as online learning platforms and MOOCs, has proven to be beneficial in enhancing employee capacity development, process improvement, and motivation [7]. Management development has been identified as a way to enhance corporate resilience and adaptability in the face of a dynamic business environment [8]. Additionally, the optimal and effective use of HRM functions has been recommended to create an organizational culture that promotes success [9]. Training and development programs have been found to have a positive impact on employee performance and productivity [10].

In the vast sea of HRD literature, conducting bibliometric analysis becomes imperative to distill meaningful patterns, identify influential contributors, and chart the trajectory of research efforts. Bibliometrics, a quantitative analysis of scholarly publications, offers a systematic approach to navigating the vast expanse of knowledge, providing insights into the evolution of HRD research. Using this method, we aim to go beyond individual studies and build a holistic

understanding of the development of the field.

2. LITERATURE REVIEW

2.1 *The Evolution of Human Resource Development*

Human Resource Development (HRD) has evolved into a multifaceted discipline encompassing training and development, organizational learning, career development, and knowledge management. The field has its roots in the mid-20th century and has been influenced by scholars such as Maslow, McGregor, and Lewin who laid the foundation for understanding human behavior in organizational contexts. HRD is crucial for organizations to improve the skills, knowledge, and abilities of their workforce [1]. It is considered a decisive factor in achieving organizational goals and objectives, especially in the era of globalization [3]. HR policies should be grounded in organizational culture, commitment, and job satisfaction to improve organizational performance [11]. The implementation of HRM practices, such as workforce planning, recruitment and selection, training and development, compensation, and employee appraisal, can significantly impact employee performance [12]. HRD is essential for organizations to adapt to the industrial revolution 4.0 and utilize advances in information technology [13].

2.2 *Theoretical Frameworks in Human Resource Development*

Theoretical frameworks in HRD research include the Human Capital Theory, Social Capital Theory, and Adult Learning Theories. The Human Capital Theory, proposed by Becker, emphasizes the economic value of investing in human capital through education and training. It highlights the importance of developing new technologies and research and development of new products for long-term enterprise development [14]. On the other hand, the Social Capital Theory, rooted in the work of Bourdieu and Coleman, emphasizes the role of social relationships and networks in individual and organizational success [15].

Adult Learning Theories, such as Knowles' Andragogy, recognize the unique characteristics of adult learners and have influenced the design and delivery of HRD programs [16]. These theoretical frameworks provide different perspectives on the factors that contribute to individual and organizational success in HRD.

2.3 Key Themes in Human Resource Development Research

Training and development in HRD focus on enhancing employees' skills and competencies, aligning training programs with organizational goals, and employing diverse instructional methods [17]. Organizational learning explores how organizations acquire, assimilate, and apply knowledge to adapt to changing environments, with research examining the role of leadership, culture, and information-sharing mechanisms [18]. Career development emphasizes the strategic management of individuals' careers within the organizational context, with topics such as mentoring, succession planning, and the impact on employee engagement and retention [19]. Knowledge management emphasizes the strategic leveraging of organizational knowledge for competitive advantage, exploring knowledge creation, transfer, and application within organizations [20].

2.4 Current Debates and Emerging Trends

The integration of technology in HRD practices has led to significant changes in training programs, learning resources, and the role of HRD professionals. The impact of technology on the effectiveness of training programs and the accessibility of learning resources is a topic of debate among scholars. Additionally, there is a growing focus on diversity and inclusion in HRD research, examining the impact of diverse workforces on learning dynamics and addressing unconscious biases in training programs [21]. Another area of interest is sustainable HRD, exploring how HRD practices can contribute to environmental sustainability, ethical leadership, and employee and community

well-being [22]. The emphasis on corporate social responsibility has further fueled this interest in sustainable HRD [23].

2.5 Gaps in the Existing Literature

While HRD literature has witnessed substantial growth, certain gaps persist. These include a limited exploration of HRD in specific sectors, such as healthcare or emerging industries, and a dearth of research on the intersectionality of HRD with other organizational functions, such as marketing or finance.

3. METHODS

To conduct a comprehensive bibliometric analysis, three main databases will be used: (1). Scopus An extensive multidisciplinary database that provides access to a vast collection of scientific publications. (2). Web of Science: A widely used citation database covering a wide range of disciplines. (3). PubMed: Targeted specifically for articles related to HRD within the healthcare sector.

The search strategy will involve the systematic use of keywords related to HRD, including "Human Resource Development," "Training and Development," "Workforce Learning," and "Employee Skill Enhancement." Boolean operators (AND, OR) will be used to refine the search query, ensuring inclusion of relevant articles. The search will be limited to articles published in English between 1962 and 2023. This process involves Publish or Perish assistance accessed on September 30, 2023.

Table 1. Citation Metrics

Publication years:	1962-2023
Citation years:	61 (1962-2023)
Papers:	980
Citations:	352061
Cites/year:	5771.49
Cites/paper:	359.25
Cites/author	207990.49
Papers/author	601.19
Authors/paper:	2.08
h-index:	258
g-index:	561
hI,norm:	214

hi,annual:	3.51
hA-index:	82
Papers with ACC >= 1,2,5,10,20:	967,954,789,558,313

Data Analysis

VOSviewer is a widely used bibliometric analysis tool that allows visualization of bibliographic data. This tool is particularly useful for constructing and visualizing co-authorship networks, identifying keyword clusters, and analyzing citation patterns. Using VOSviewer, a temporal analysis was conducted to identify trends in HRD research over time. This involves mapping the number of publications per year and identifying periods of increased research activity. The tool will produce visualizations depicting the temporal evolution of HRD literature. Co-authorship networks will be built using VOSviewer to

identify key collaborators in the HRD research community. By analyzing the strength and frequency of collaboration, this research aims to uncover influential authors, institutions, and countries contributing to the HRD literature. A keyword occurrence analysis will be conducted using VOSviewer to identify prevalent themes in the HRD literature. This analysis will reveal clusters of keywords that frequently co-occur, providing insight into key research foci and trends within the field. VOSviewer will be used to conduct a citation analysis, identifying articles and authors that are widely cited in the HRD domain. This analysis will shed light on the influential contributions and impact of specific works on the wider HRD research landscape.

4. RESULTS AND DISCUSSION

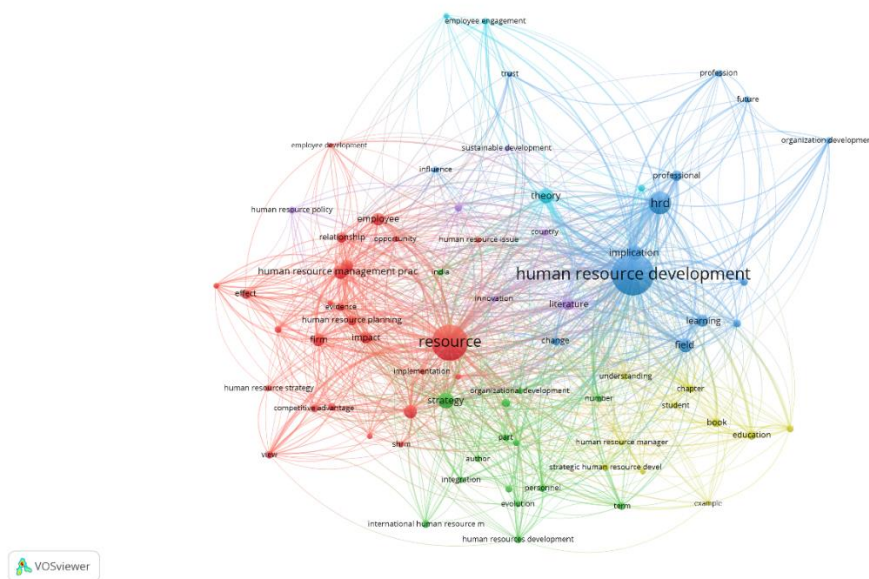


Figure 1. Mapping Custer Destination

The mapping in Figure 1 reveals a dynamic and evolving landscape in HRD research. The increasing publication trends indicate a growing recognition of the importance of HRD in addressing

contemporary workforce challenges. Researchers and practitioners can use these insights to keep up with emerging trends and contribute to the evolving discourse.

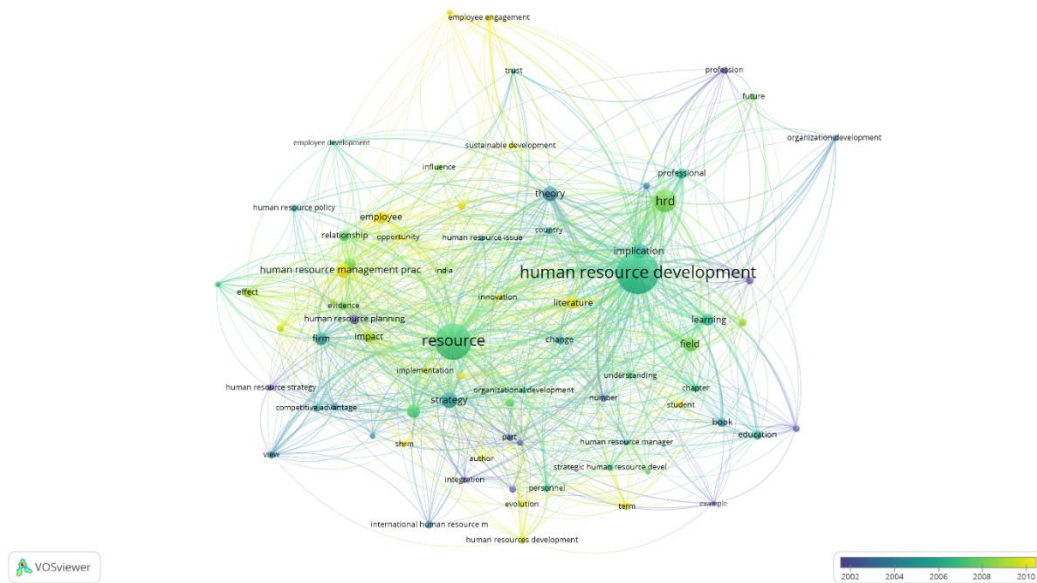


Figure 2. Trend Research

Temporal analysis using VOSviewer revealed significant trends in HRD research over the years. Figure 2 illustrates the publication trends per year in the selected

databases. In particular, there has been a steady increase in the number of publications since the early 2000s, indicating increasing scientific interest in HRD.

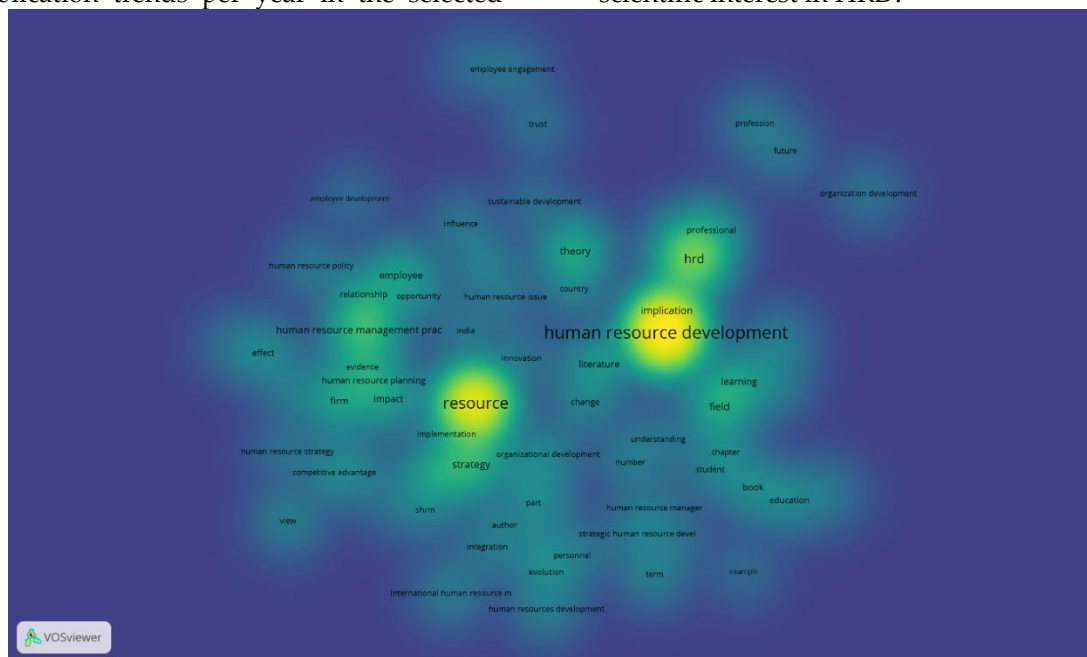


Figure 3. Cluster Identity

Bibliometric analysis using VOSviewer has revealed distinct clusters within the Human Resource Development (HRD) literature as seen in Figure 3. Each cluster represents a set of related keywords, reflecting significant themes and foci within

the field. The discussion in Table 2 below provides a detailed examination of each cluster, including the total number of items, the most frequently occurring keywords, and their implications for HRD research and practice.

Table 2. Destiny visualization

Cluster	Total Items	Most frequent keywords (occurrences)	Keyword
1	17	human resource management (30), organizational development (25), strategic human resources, strategy (20)	Author, conceptual framework, evolution, field, human resource function, human resource information, human resource management, human resources development, human resources management, integration, international human resources, organizational development, personnel, strategic human resources, strategic human resources, strategic human resources, strategy
2	15	Competitive advantage (20), firm performance (15), human resource policy (25)	Competitive advantage, effect, employee, employee development, firm, firm performance, human resource issue, human resource management, human resource planning, human resource planning, human resource policy, human resource practice, human resource strategy, human resource system, organizational performance
3	10	Employee engagement (20), professional (25), trust (30)	Employee engagement, human resource development, human resource development, influence, opportunity, organization development, problem, profession, professional, trust
4	5	Innovation (20), knowledge management (25), sustainable development (15)	Green human resource, implementation, innovation, knowledge management, sustainable development
5	3	Education (20)	Adult education, education, example
6	2	Learning (25)	Learning, practitioner
7	1	Theory (20)	Theory

The bibliometric analysis using VOSviewer has identified distinct clusters within the Human Resource Development (HRD) literature. Cluster 1 focuses on Human Resource Management (HRM) and its strategic implications, including topics such as the evolution of HRM and the integration of human resources into strategic planning. Cluster 2 explores the relationship between HRM practices and organizational performance, emphasizing the impact of HRM on competitive advantage, firm performance, and the formulation of human resource policies. Cluster 3 highlights the importance of employee engagement, professionalism, and trust within HRD, addressing topics such as the influence of HRD on employee engagement and the role of

trust in HRD initiatives. Cluster 4 examines the intersection of HRD with innovation, knowledge management, and sustainable development, focusing on topics such as green HRM practices and the relationship between HRD and sustainable development. Cluster 5 centers around education within HRD, emphasizing the role of educational initiatives in talent development. Cluster 6 specifically focuses on learning within the HRD domain, highlighting the significance of continuous learning in organizational contexts. Cluster 7 represents a singular item focused on the broader theme of theory within HRD research, emphasizing the importance of theoretical frameworks in guiding HRD research and practice.

Table 3. Top Ten

Author's & Years	Citation	Title
[24]	12631	A handbook of human resource management practice
[25]	6635	Armstrong's handbook of human resource management practice
[26]	5525	Strategy and human resource management
[27]	5180	Theoretical perspectives for strategic human resource management
[28]	5134	Human Resources Management: Gaining a Competitive Advantage, Tenth Global Edition
[29]	4734	The human resource architecture: Toward a theory of human capital allocation and development
[30]	4259	What is human resource management?
[31]	4172	Human resources and the resource-based view of the firm
[32]	4133	Human resource systems and sustained competitive advantage: A competency-based perspective
[33]	3886	Human resource management

The field of Human Resource Development (HRD) has been significantly shaped by several highly cited works. "A Handbook of Human Resource Management Practice" is a pivotal resource, offering practical insights into HRM practices [1]. "Armstrong's Handbook of Human Resource Management Practice" is widely acknowledged for its authoritative content and practical approach [2]. "Strategy and Human Resource Management" bridges the realms of strategy and HRM, contributing to strategic HRM perspectives [3]. "Theoretical Perspectives for Strategic Human Resource Management" advances theoretical frameworks within HRD [4]. "Human Resources Management: Gaining a

Competitive Advantage, Tenth Global Edition" focuses on the strategic dimensions of HRD in a global context [5]. "The Human Resource Architecture: Toward a Theory of Human Capital Allocation and Development" contributes to conceptual frameworks within HRD. "What is Human Resource Management?" clarifies and defines the field of HRM. "Human Resources and the Resource-Based View of the Firm" explores the strategic role of human resources within organizations. "Human Resource Systems and Sustained Competitive Advantage: A Competency-Based Perspective" discusses HR systems and sustained competitive advantage. "Human Resource Management" provides a broad overview of the field.

Table 4. Keywords Analysis

Most occurrences		Fewer occurrences	
Occurrences	Term	Occurrences	Term
619	Human resource development	20	Human resource system
89	Strategy	19	Profession
75	Theory	19	Problem
69	Field	18	Adult education
67	Human resource management practice	17	Human resource information system
60	Strategic human resource management	17	Strategic human resource development
58	Firm	16	Innovation
53	Employee	15	Influence
48	Learning	15	Opportunity
47	Human resource practice	14	Employee engagement

39	Professional	13	Trust
33	Effect	12	Firm performance
32	Human resource planning	11	Author
30	Education	10	Example

The analysis of keyword occurrences in HRD literature provides valuable insights into the salient themes and focal points within the field. The prominence of the term "Human Resource Development" with 619 occurrences underscores its central role in HRD literature. The term "Human Resource System" occurs less frequently (20 times), suggesting a relative focus on the broader concept of HRD rather than specific system-oriented discussions. The recurrent occurrence of the term "Strategy" (89 times) highlights the inseparable link between HRD and organizational strategy. With 19 occurrences, the term "Profession" appears less frequently, indicating a relatively limited emphasis on professional aspects within HRD literature. The term "Theory" occurring 75 times signifies the scholarly inclination towards theoretical frameworks in HRD research. The term "Problem" occurring 19 times suggests a limited focus on challenges or issues within HRD literature. The term "Field" with 69 occurrences underscores the broad and multidisciplinary nature of HRD. The term "Adult Education" occurring 18 times suggests a specific focus on the learning needs and strategies tailored for adult learners within HRD literature.

The term "Strategic Human Resource Management" with 60 occurrences highlights the emphasis on aligning HR practices with strategic organizational objectives. The term "Strategic Human Resource Development" occurring 17 times suggests a nuanced exploration of HRD practices in the context of organizational strategy. The term "Firm" with 58 occurrences indicates a focus on HRD within the context of organizational entities. With 16 occurrences, the term "Innovation" suggests a moderate emphasis on exploring the role of HRD in fostering creativity and innovation within organizations. The term "Employee" with 53 occurrences signifies a consistent focus on individuals within the

HRD discourse. The term "Influence" occurring 15 times suggests a moderate exploration of the impact and influence of HRD practices on organizational outcomes. The term "Learning" with 48 occurrences highlights a robust focus on the learning aspects within HRD literature. The term "Opportunity" occurring 15 times suggests a moderate exploration of opportunities within HRD. The term "Human Resource Practice" with 47 occurrences signifies a specific focus on practical aspects within HRD. The term "Employee Engagement" with 14 occurrences suggests a specific interest in exploring the engagement of employees within HRD literature. The term "Professional" with 39 occurrences signifies a focus on professionalism within the HRD discourse. With 13 occurrences, the term "Trust" suggests a moderate exploration of trust within HRD literature.

Implications for Future Research

The findings of this bibliometric analysis offer several implications for future HRD research:

a. **Interdisciplinary Exploration:** The interconnected thematic clusters suggest the need for interdisciplinary exploration within HRD. Future research could delve into the intersections between HRD and fields such as technology, sustainability, and diversity to advance holistic understandings.

b. **Knowledge Transfer:** The citation analysis points to influential works that have significantly contributed to HRD. Future research should focus on understanding the practical implications of these works, facilitating knowledge transfer from academia to organizational practice.

Limitations and Future Directions

While the bibliometric analysis provides valuable insights, it is not without limitations. The study is contingent on the availability and completeness of data in the selected databases. Additionally, language

biases and the exclusion of non-English publications may impact the comprehensiveness of the analysis. To address these limitations, future research could explore additional databases, incorporate non-English publications, and employ advanced natural language processing techniques for a more nuanced analysis. Furthermore, longitudinal studies could provide deeper insights into the sustained impact of influential works and evolving research trends.

CONCLUSION

This bibliometric journey through Human Resource Development (HRD) literature has unraveled critical insights into the field's evolution, collaborative networks, and thematic foci. The temporal analysis showcased a burgeoning interest in HRD,

indicative of its growing significance. Collaborative networks illustrated the importance of partnerships in advancing HRD scholarship, with influential authors shaping the collective research agenda. Thematic clusters illuminated the multifaceted nature of HRD, emphasizing its interconnectedness with diverse domains. Influential works identified through citation analysis serve as pillars shaping the intellectual landscape of HRD. The integration of these findings offers a comprehensive view, guiding future research, fostering collaboration, and informing HRD practices for organizational and individual development. As HRD continues to evolve, this bibliometric analysis contributes valuable insights to the ongoing discourse, charting a course for the future of HRD scholarship and application.

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