Impact of Knowledge Management Strategies on Innovation Performance in Small and Medium Enterprises (SMEs) in Rwanda

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Article history
Submitted 10.02.2024 Revised Version Received 15.03.2024 Accepted 21.04.2024

Abstract

**Purpose:** The aim of the study was to assess the impact of knowledge management strategies on innovation performance in small and medium enterprises (SMEs) in Rwanda.

**Methodology:** This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low cost advantage as compared to a field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

**Findings:** The study indicate that effective knowledge management practices within SMEs positively influence innovation performance, leading to enhanced competitiveness and sustainable growth. Implementing knowledge management strategies such as knowledge sharing, creation, and utilization facilitates idea generation, problem-solving, and product/service development. Furthermore, fostering a knowledge-sharing culture among employees promotes collaboration, learning, and creativity, thus fueling innovation within SMEs. Additionally, leveraging technology platforms and tools for knowledge management facilitates seamless information exchange, retrieval, and utilization, further enhancing innovation capabilities.

**Implications to Theory, Practice and Policy:** Resource-based view, social capital theory and dynamic capabilities theory may be used to anchor future studies on assessing the impact of knowledge management strategies on innovation performance in small and medium enterprises (SMEs) in Rwanda. SMEs should prioritize investments in knowledge management initiatives aimed at fostering a culture of innovation, collaboration, and continuous learning within the organization. Policymakers should develop supportive frameworks and incentives to encourage SMEs to invest in knowledge management initiatives.

**Keywords:** Knowledge Management Strategies, Innovation Performance, Small, Medium Enterprises

https://doi.org/10.47672/ajdikm.2070
INTRODUCTION

Innovation performance in small and medium-sized enterprises (SMEs) is crucial for their competitiveness and long-term sustainability. In developed economies like the United States, innovation in SMEs has been on an upward trajectory, with a notable increase in patent applications and R&D expenditure. According to a study by Jones and Kim (2017), the United States witnessed a 7.8% growth in patent applications filed by SMEs between 2015 and 2016, reflecting a robust innovation culture within these enterprises. Furthermore, data from the Small Business Administration (SBA) indicates a steady rise in R&D spending among SMEs, reaching $62.3 billion in 2020, a 4.2% increase from the previous year.

Similarly, in Japan, SMEs play a significant role in driving innovation, particularly in sectors like technology and manufacturing (Lim and Yusof, 2019). Statistics from the Japan Patent Office (JPO) reveal a consistent upward trend in patent applications from SMEs, with a 5% year-on-year increase from 2018 to 2022. Additionally, the Ministry of Economy, Trade and Industry (METI) reports a notable surge in R&D investment by SMEs, reaching ¥19.8 trillion in 2021, marking a 6.5% rise from the previous year.

In developing economies, such as India, innovation performance in SMEs is also gaining momentum. A study by Kumar and Rajan (2019) highlights a significant increase in patent filings by Indian SMEs, particularly in sectors like IT, biotechnology, and pharmaceuticals. Between 2018 and 2023, India experienced a 12% annual growth rate in patent applications from SMEs, signaling a burgeoning innovation ecosystem within the country. Moreover, data from the Ministry of Micro, Small & Medium Enterprises (MSME) shows a steady rise in R&D expenditure among Indian SMEs, reaching ₹32,500 crore in 2022, a 9% increase from the previous year.

In developing economies like Brazil, SMEs are increasingly recognizing the importance of innovation as a means to enhance competitiveness and foster growth. Research by Silva and Santos (2020) highlights a notable increase in patent applications by Brazilian SMEs, particularly in sectors such as technology, healthcare, and agriculture. Between 2018 and 2023, Brazil experienced an average annual growth rate of 8% in patent filings from SMEs, indicating a growing focus on innovation within the sector. Moreover, data from the Brazilian Micro and Small Business Support Service (SEBRAE) reveals a steady rise in R&D investment among SMEs, reaching R$12.5 billion in 2022, marking a 6% increase from the previous year.

In another developing economy, such as Vietnam, SMEs are increasingly leveraging innovation to drive productivity and competitiveness. Research by Nguyen and Phan (2021) demonstrates a significant uptick in patent registrations by Vietnamese SMEs, particularly in industries like electronics, manufacturing, and biotechnology. From 2018 to 2023, Vietnam witnessed an average annual growth rate of 10% in patent applications from SMEs, reflecting a growing emphasis on innovation-driven development. Additionally, data from the Ministry of Science and Technology (MOST) indicates a steady increase in R&D spending by SMEs, reaching ₫8.7 trillion in 2021, marking a 7% rise from the previous year.

In Turkey, SMEs are increasingly recognizing the importance of innovation in driving growth and competitiveness. Research by Yıldız and Şahin (2020) highlights a significant increase in patent applications by Turkish SMEs, particularly in sectors such as automotive, textiles, and software development. Between 2018 and 2023, Turkey experienced an average annual growth rate of 6% in patent filings from SMEs, indicating a growing emphasis on innovation within the sector.
Moreover, data from the Scientific and Technological Research Council of Turkey (TÜBİTAK) reveals a steady rise in R&D investment among SMEs, reaching ₺9.8 billion in 2022, marking a 4% increase from the previous year.

In Colombia, SMEs are also becoming increasingly aware of the importance of innovation for their survival and growth. Research by López and Gómez (2018) highlights a notable increase in patent registrations by Colombian SMEs, particularly in sectors such as biotechnology, renewable energy, and agribusiness. From 2018 to 2023, Colombia witnessed an average annual growth rate of 8% in patent applications from SMEs, reflecting a growing commitment to innovation-driven development. Additionally, data from the Colombian Ministry of Commerce, Industry, and Tourism indicates a steady rise in R&D expenditure among SMEs, reaching COP 4.5 trillion in 2021, marking a 6% increase from the previous year.

In Egypt, SMEs are increasingly recognizing the importance of innovation as a catalyst for economic growth and competitiveness. Research by Abdel-Baki and El-Kassar (2021) underscores a notable increase in patent applications by Egyptian SMEs, particularly in sectors such as information technology, renewable energy, and healthcare. Between 2018 and 2023, Egypt experienced an average annual growth rate of 7% in patent filings from SMEs, signaling a growing emphasis on innovation within the sector. Furthermore, data from the Egyptian Ministry of Trade and Industry reveals a steady rise in R&D investment among SMEs, reaching EGP 6.2 billion in 2022, marking a 5% increase from the previous year.

In Malaysia, SMEs are also playing an increasingly vital role in driving innovation and economic development. Research by Lim and Yusof (2019) demonstrates a significant uptick in patent registrations by Malaysian SMEs, particularly in sectors such as electronics, biotechnology, and engineering. From 2018 to 2023, Malaysia witnessed an average annual growth rate of 9% in patent applications from SMEs, reflecting a growing commitment to innovation-driven growth. Additionally, data from the Malaysian Investment Development Authority (MIDA) indicates a steady rise in R&D expenditure among SMEs, reaching RM 4.8 billion in 2021, marking a 7% increase from the previous year.

In Nigeria, SMEs are increasingly recognizing the importance of innovation as a key driver of economic growth and competitiveness. Research by Adekunle and Adebisi (2020) highlights a significant increase in patent applications by Nigerian SMEs, particularly in sectors such as information technology, renewable energy, and agribusiness. Between 2018 and 2023, Nigeria experienced an average annual growth rate of 9% in patent filings from SMEs, indicating a growing emphasis on innovation within the sector. Furthermore, data from the Nigerian Investment Promotion Commission (NIPC) reveals a steady rise in R&D investment among SMEs, reaching ₦75 billion in 2022, marking a 5% increase from the previous year.

In Kenya, SMEs are also playing an increasingly important role in driving innovation and economic development. Research by Kariuki and Kamau (2019) demonstrates a notable increase in patent registrations by Kenyan SMEs, particularly in sectors such as telecommunications, biotechnology, and finance. From 2018 to 2023, Kenya witnessed an average annual growth rate of 7% in patent applications from SMEs, reflecting a growing commitment to innovation-driven growth. Additionally, data from the Kenya National Bureau of Statistics (KNBS) indicates a steady rise in R&D expenditure among SMEs, reaching KSh 8.3 billion in 2021, marking a 6% increase from the previous year.
Knowledge management strategies play a pivotal role in enhancing innovation performance within SMEs. One effective strategy is knowledge codification, which involves capturing and documenting tacit knowledge into explicit forms such as databases, manuals, and standard operating procedures (Gupta & Sharma, 2019). By codifying knowledge, SMEs can ensure that valuable insights and expertise are preserved and easily accessible to employees, thereby facilitating innovation through the efficient dissemination of information and best practices.

In sub-Saharan economies like South Africa, SMEs are increasingly recognizing the importance of innovation for driving growth and competitiveness. Research by Nkomo and Naidoo (2018) indicates a notable uptick in patent registrations by South African SMEs, particularly in sectors such as renewable energy and agriculture. From 2018 to 2023, South Africa witnessed a 15% annual increase in patent applications from SMEs, underscoring the growing innovative capabilities within the sector. Additionally, data from the Department of Science and Innovation (DSI) shows a steady rise in R&D investments by SMEs, reaching R5.2 billion in 2021, a 7% increase from the previous year.

Another crucial strategy is the establishment of communities of practice (CoPs), where employees with similar interests or expertise collaborate, share knowledge, and solve problems collectively (Alavi & Leidner, 2020). CoPs provide a platform for informal learning, idea exchange, and innovation generation within SMEs. By fostering a culture of collaboration and continuous learning, CoPs enable SMEs to harness the collective intelligence of their workforce, leading to enhanced innovation performance through the cross-pollination of ideas and expertise.

Additionally, implementing knowledge-sharing platforms and technologies can significantly contribute to innovation performance in SMEs (Abdel-Baki & El-Kassar, 2021). These platforms facilitate the seamless sharing and dissemination of knowledge across the organization, breaking down silos and promoting collaboration among employees. By leveraging technology-enabled knowledge-sharing tools, SMEs can accelerate the pace of innovation by enabling real-time collaboration, idea generation, and problem-solving among dispersed teams. Moreover, investing in employee training and development programs focused on knowledge acquisition and skills enhancement can further bolster innovation performance within SMEs (Kumar & Rajan, 2019). By empowering employees with the necessary knowledge and competencies, SMEs can foster a culture of innovation where employees feel encouraged and equipped to contribute novel ideas and solutions to organizational challenges.

**Problem Statement**

Despite the increasing recognition of the importance of knowledge management strategies in driving innovation performance within Small and Medium Enterprises (SMEs), there remains a gap in understanding the precise impact of these strategies on innovation outcomes. While several studies have explored the relationship between knowledge management and innovation in SMEs (Gupta & Sharma, 2019; Kumar & Rajan, 2019), there is still limited empirical evidence on how specific knowledge management strategies, such as knowledge codification, communities of practice, knowledge-sharing platforms, and employee training programs, directly influence innovation performance. Furthermore, the dynamic and rapidly evolving nature of both knowledge management practices and innovation processes necessitates a comprehensive investigation into the effectiveness of these strategies over time (Abdel-Baki & El-Kassar, 2021). Thus, there is a pressing need for empirical research to assess the impact of knowledge management strategies on
innovation performance in SMEs and to identify the mechanisms through which these strategies contribute to enhanced innovation outcomes.

Theoretical Framework

Resource-Based View (RBV)

Originated by Wernerfelt (1984) and Barney (1991), RBV focuses on how firms can achieve sustainable competitive advantage through the strategic management of their unique resources and capabilities. In the context of the suggested topic, RBV emphasizes the role of knowledge as a critical resource that can drive innovation within SMEs. It suggests that SMEs with superior knowledge management strategies, such as effective knowledge codification and utilization of intellectual capital, are better positioned to leverage their internal resources for innovation and thereby enhance their innovation performance (Kumar & Rajan, 2019).

Social Capital Theory

Developed by Bourdieu (1986) and further expanded by Coleman (1988) and Putnam (1993), Social Capital Theory examines how social relationships and networks contribute to the creation of value within organizations. In the context of SMEs, Social Capital Theory highlights the importance of social interactions, trust, and collaboration in facilitating knowledge sharing and innovation. SMEs with strong social capital, manifested through cohesive communities of practice and effective collaboration among employees, are more likely to generate and exchange valuable knowledge, leading to improved innovation performance (Gupta & Sharma, 2019).

Dynamic Capabilities Theory

Originated by Teece et al. (1997), Dynamic Capabilities Theory focuses on an organization's ability to adapt, integrate, and reconfigure its resources and capabilities in response to changing market conditions and technological advancements. In the context of the suggested topic, Dynamic Capabilities Theory underscores the importance of SMEs' ability to continuously evolve their knowledge management strategies in alignment with dynamic external environments. SMEs that exhibit dynamic capabilities in knowledge acquisition, assimilation, and exploitation are better equipped to respond to market opportunities and challenges, thereby enhancing their innovation performance over time (Abdel-Baki & El-Kassar, 2021).

Empirical Review

Li and Zhu (2018) investigated the intricate relationship between knowledge management, innovation capability, and performance within Chinese SMEs. Employing a structural equation modeling (SEM) analysis, their study explored how knowledge management practices, such as knowledge creation, sharing, and utilization, influenced the innovation capabilities of SMEs and subsequently impacted their overall performance metrics. The findings revealed a robust positive correlation between effective knowledge management practices and enhanced innovation capability among SMEs, which in turn contributed significantly to improved performance outcomes. Specifically, SMEs that invested resources in developing and implementing systematic knowledge management processes exhibited greater innovation capacity, allowing them to respond more effectively to market demands and achieve sustainable competitive advantage. As a recommendation, Li and Zhu underscored the importance for SMEs to prioritize investments in knowledge management initiatives as a strategic imperative to foster innovation-driven growth and long-term success in dynamic business environments.

https://doi.org/10.47672/ajdikm.2070
Nahimana, (2024) Ritala (2019) embarked on an insightful qualitative inquiry into the role of knowledge management processes in fostering innovation outcomes within European SMEs. Employing a multi-case study methodology, their research delved into the intricate dynamics of knowledge sharing, collaboration, and utilization within SME contexts to elucidate their impact on innovation performance. Through an in-depth exploration of real-world case studies, Ritala and colleagues uncovered specific knowledge management practices that significantly influenced SMEs' ability to innovate effectively. Notably, they identified the establishment of vibrant knowledge-sharing platforms, the cultivation of a collaborative organizational culture, and the strategic leveraging of internal and external knowledge resources as key drivers of innovation excellence among SMEs. As a key recommendation, Ritala et al. advocated for SMEs to proactively invest in nurturing a conducive knowledge management ecosystem characterized by open communication channels, cross-functional collaboration, and continuous learning initiatives to unleash their innovation potential and achieve sustainable growth in competitive markets.

Wang and Noe (2020) explored the impact of knowledge management systems (KMS) on innovation performance within the context of Malaysian SMEs. Integrating survey data with qualitative insights from interviews, their research provided a nuanced understanding of how the adoption and utilization of KMS influenced SMEs' innovation capabilities and outcomes. The findings underscored the pivotal role of KMS in facilitating knowledge sharing, dissemination, and utilization across organizational boundaries, thereby enhancing SMEs' capacity to innovate and adapt to dynamic market conditions. Specifically, SMEs that effectively leveraged KMS were able to streamline internal communication, access relevant information in a timely manner, and foster cross-functional collaboration, leading to accelerated innovation cycles and improved competitive positioning. As a practical recommendation, Wang and Noe advocated for SMEs to embrace KMS as a strategic enabler of knowledge-centric innovation processes, emphasizing the importance of aligning KMS implementation with organizational goals and fostering a culture of continuous learning and knowledge sharing to maximize its impact on innovation performance.

Chen and Huang (2021) elucidated the relationship between knowledge management practices and innovation performance in Taiwanese SMEs. Through a comprehensive survey methodology, their study empirically examined the extent to which knowledge acquisition, dissemination, and utilization strategies influenced SMEs' ability to innovate and achieve sustainable growth. The findings revealed a strong positive correlation between effective knowledge management practices and enhanced innovation performance among Taiwanese SMEs, highlighting the pivotal role of knowledge as a key driver of competitive advantage and value creation in today's knowledge-intensive business landscape. Specifically, SMEs that prioritized investments in knowledge management initiatives were able to leverage their internal knowledge assets more effectively, foster cross-functional collaboration, and capitalize on emerging market opportunities, leading to greater innovation success and market competitiveness. As a strategic recommendation, Chen and Huang emphasized the importance for SMEs to develop a holistic knowledge management strategy that encompasses both technological and cultural dimensions, fostering a knowledge-centric organizational culture characterized by openness, trust, and continuous learning to unlock their innovation potential and drive sustained business growth.

Lai and Chen (2022) undertook a rigorous empirical inquiry utilizing a structural equation modeling (SEM) approach to unravel the complex interplay between knowledge management strategies and innovation performance in Vietnamese SMEs. Their research sought to elucidate the
underlying mechanisms through which knowledge management initiatives, such as knowledge creation, acquisition, and exploitation, influenced SMEs' ability to innovate and achieve sustainable competitive advantage in dynamic market environments. The findings revealed a robust positive relationship between effective knowledge management strategies and enhanced innovation performance among Vietnamese SMEs, highlighting the pivotal role of knowledge as a critical driver of organizational innovation and success. Specifically, SMEs that embraced a comprehensive knowledge management approach were able to leverage their internal knowledge assets more effectively, foster cross-functional collaboration, and capitalize on emerging market opportunities, leading to superior innovation outcomes and market competitiveness. As a practical recommendation, Lai and Chen underscored the importance for SMEs to adopt a holistic knowledge management strategy that encompasses both technological and cultural dimensions, emphasizing the need to cultivate a knowledge-centric organizational culture characterized by openness, collaboration, and continuous learning to unleash their innovation potential and drive sustained business growth.

Liu and Fang (2023) unraveled the intricate relationship between knowledge management strategies, organizational learning, and innovation performance in Indonesian SMEs. Leveraging a mixed-methods approach, their research sought to elucidate the underlying mechanisms through which knowledge management initiatives influenced SMEs' ability to innovate and adapt to dynamic market conditions. The findings revealed that knowledge management strategies exerted a significant positive impact on organizational learning, which in turn mediated the relationship between knowledge management and innovation performance among Indonesian SMEs. Specifically, SMEs that prioritized investments in knowledge management initiatives were able to foster a learning-centric organizational culture characterized by openness, collaboration, and continuous improvement, leading to accelerated innovation cycles and improved competitive positioning. As a strategic recommendation, Liu and Fang advocated for SMEs to embrace a holistic knowledge management approach that integrates both technological and cultural dimensions, fostering a learning-centric organizational culture that values knowledge sharing, experimentation, and continuous improvement to unlock their innovation potential and achieve sustainable growth in today's dynamic business landscape.

Tan and Wong (2023) elucidated the moderating role of organizational culture in shaping the relationship between knowledge management strategies and innovation performance in Singaporean SMEs. Leveraging hierarchical regression analysis, their research sought to unravel the nuanced interplay between organizational culture dimensions, such as openness, trust, and collaboration, and knowledge management initiatives in driving innovation outcomes. The findings revealed that a supportive organizational culture strengthened the positive impact of knowledge management strategies on innovation performance among Singaporean SMEs, highlighting the pivotal role of organizational culture as a critical determinant of innovation success in today's knowledge-driven economy. Specifically, SMEs that fostered a culture of openness, collaboration, and continuous learning were able to leverage their knowledge management initiatives more effectively, leading to superior innovation outcomes and sustained competitive advantage. As a strategic recommendation, Tan and Wong underscored the importance for SMEs to embrace a holistic approach to knowledge management that integrates both technological and cultural dimensions, fostering a supportive organizational culture that
values knowledge sharing, experimentation, and innovation to unlock their full potential and achieve sustainable growth in today's dynamic business environment.

**METHODOLOGY**

This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low cost advantage as compared to a field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

**RESULTS**

**Conceptual Research Gap:** The study provided valuable insights into the relationship between knowledge management strategies and innovation performance in SMEs. However, there is a conceptual gap concerning the theoretical frameworks guiding the research. While some studies may have applied existing theories such as the Resource-Based View or Social Capital Theory, there is a lack of consistency in the theoretical underpinnings across the studies. Future research should aim to adopt a more cohesive theoretical framework that comprehensively addresses the complexities of knowledge management and innovation in SMEs (Li & Zhu, 2018).

**Contextual Research Gap:** The study primarily focused on SMEs in specific geographical regions such as China, Europe, Malaysia, Taiwan, Vietnam, Indonesia, and Singapore. However, there is a lack of research examining knowledge management strategies and innovation performance in SMEs from diverse cultural and institutional contexts. Future comparative studies should explore how contextual factors such as cultural norms, regulatory environments, and industry characteristics influence the effectiveness of knowledge management strategies in fostering innovation within SMEs (Ritala, 2019; Chen & Huang, 2021).

**Geographical Research Gap:** Furthermore, the geographical scope of the studies is limited to certain regions, which may not provide a comprehensive understanding of knowledge management practices and innovation performance on a global scale. There is a notable absence of research including SMEs from other regions such as Africa, Latin America, and the Middle East. Cross-national studies encompassing a broader range of geographical contexts are needed to capture the diversity of knowledge management practices and innovation dynamics among SMEs worldwide (Liu & Fang, 2023; Tan & Wong, 2023).

**CONCLUSION AND RECOMMENDATIONS**

**Conclusion**

In conclusion, the assessment of the impact of knowledge management strategies on innovation performance in Small and Medium Enterprises (SMEs) reveals a complex interplay between organizational practices, contextual factors, and geographical variations. Through empirical studies conducted between 2018 and 2023, it is evident that effective knowledge management plays a crucial role in enhancing SMEs' innovation capabilities and overall performance. These study demonstrate a positive correlation between knowledge management practices, such as knowledge creation, sharing, and utilization, and innovation performance across different geographical regions, including China, Europe, Malaysia, Taiwan, Vietnam, Indonesia, and Singapore.
However, while these findings highlight the importance of knowledge management in driving innovation within SMEs, several research gaps have been identified. These include conceptual gaps regarding the theoretical frameworks guiding the research, contextual gaps concerning the influence of cultural and institutional factors on knowledge management effectiveness, and geographical gaps related to the limited representation of SMEs from diverse regions. Addressing these gaps through future research endeavors will contribute to a more comprehensive understanding of the mechanisms underlying the relationship between knowledge management strategies and innovation performance in SMEs.

Recommendations

The following are the recommendations based on theory, practice and policy:

Theory

Future research should focus on developing and validating comprehensive theoretical frameworks that integrate diverse perspectives on knowledge management and innovation within the context of SMEs. These frameworks should consider the dynamic interplay between organizational factors, contextual influences, and geographical variations to provide a more holistic understanding of the mechanisms underlying the relationship between knowledge management strategies and innovation performance. Researchers should explore emerging theories and concepts such as dynamic capabilities, absorptive capacity, and ambidexterity to enhance theoretical explanations of how SMEs leverage knowledge management to drive innovation. By incorporating these theories into empirical studies, researchers can advance theoretical understanding and contribute to the development of a more nuanced conceptual framework for studying knowledge-intensive innovation processes in SMEs.

Practice

SMEs should prioritize investments in knowledge management initiatives aimed at fostering a culture of innovation, collaboration, and continuous learning within the organization. This includes implementing knowledge-sharing platforms, encouraging cross-functional collaboration, and providing training and development opportunities to employees to enhance their knowledge management capabilities. Organizations should adopt a strategic approach to knowledge management, aligning their knowledge management strategies with their overall business objectives and market dynamics. By integrating knowledge management into strategic planning processes, SMEs can ensure that their knowledge assets are effectively leveraged to drive innovation and achieve sustainable competitive advantage.

Policy

Policymakers should develop supportive frameworks and incentives to encourage SMEs to invest in knowledge management initiatives. This may include providing grants, subsidies, or tax incentives for SMEs to adopt knowledge management systems and practices that enhance innovation performance. Government agencies should facilitate knowledge-sharing networks and collaboration platforms to promote knowledge exchange and collaboration among SMEs. By fostering an ecosystem of knowledge sharing and collaboration, policymakers can create opportunities for SMEs to access external knowledge resources and expand their innovation capabilities. Policymakers should prioritize initiatives aimed at building the knowledge management capabilities of SMEs, particularly in regions with limited access to knowledge.
infrastructure and resources. This may involve providing training and capacity-building programs to SMEs to enhance their ability to effectively manage and leverage knowledge for innovation.
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https://doi.org/10.47672/ajdikm.2070

Nahimana, (2024)

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