## Development: Studies in Educational Management and Leadership

January - Juni Vol. 2 No.1 (2023) | P. 35-50

e-ISSN: 2964-0253

DOI: https://doi.org/10.47766/development.v3i1.1913



# The Role of Innovative Leadership in Transforming Student Learning Effectiveness: A Review of Best Practices and Future Directions

## Mairian Riddel<sup>1\*</sup>, Idris Rahman Zulfikar<sup>2</sup>

- <sup>1</sup> Faculty of Education and Society. The Department of Learning and Leadership (DLL), University College London
- <sup>2</sup> Universitas Muhammadiyah Yogyakarta

#### **ABSTRACT**

The objectives of this research are to identify best practices of innovative leadership in educational settings and to suggest future directions for research and implementation in this field. A systematic review approach was employed to identify relevant literature from scholarly databases, academic journals, and reputable educational sources. The findings of the review indicate that innovative leadership is essential for enhancing the effectiveness of student learning. Innovative leaders characterized by their visionary outlook, commitment to continuous improvement, and ability to cultivate a culture of innovation. By fostering collaboration, leveraging technology, and incorporating personalized learning strategies, innovative leaders create dynamic learning environments that enhance student engagement, motivation, and achievement. This review has significant implications for educational leaders, policymakers, and practitioners. By adopting innovative leadership practices, educational institutions can promote an innovative culture, support teacher professional development, and integrate effective instructional strategies.

#### **3** OPEN ACCESS

#### **ARTICLE HISTORY**

Received: Revision: Accepted:

#### **KEYWORDS**

Innovative Leadership; Student Learning; Transforming Student;

© 2024 correspondent
This is an open access article
under the CC-BY-SA License.



di: https://doi.org/10.47766/development.v3i1.1913

Corresponding Author: <sup>™</sup> Mairian Riddel | <sup>™</sup> mairianriddel@ucl.ac.uk

#### INTRODUCTION

Innovative leadership is essential for the transformation of educational systems and practices (Swenson & Tinsley-Kim, 2017). It challenges the status quo, promotes forward-thinking, and fosters an innovative culture (Khan et al., 2020). Educational leaders have the potential to revolutionize teaching and learning, improve student outcomes, and create educational environments that prepare students for the demands of the 21st century if they embrace innovative leadership (Morris & Kozuch, 2024; Şen & Eren, 2012).

In the past decade, there has been a surge in interest in studying the role of innovative leadership in enhancing the efficacy of student learning (Bellibaş et al., 2022). Research has demonstrated that school leadership positively but indirectly influences school and student outcomes (Urquizo, 2019). There is a significant relationship between quality leadership preparation and improved teacher outcomes (Orphanos & Orr, 2014).

Innovative leadership fosters an innovative culture within educational institutions. Creativity, risk-taking, and continuous improvement are valued and rewarded. Educational leaders create an environment that encourages stakeholders to generate and implement new ideas, experiment with innovative practices, and seek continuous improvement by fostering a culture of innovation (Kalkan et al., 2020).

Education faces many complex challenges, including achievement gaps, equity issues, technological advances, and shifting societal demands (Robertson, 2002; Swenson & Tinsley-Kim, 2017). Innovative leadership equips educational leaders with the skills necessary to navigate these obstacles effectively. It promotes innovative problem-solving, fosters collaboration among stakeholders, and enables leaders to adapt to and respond to the changing needs of students and society (Normalini et al., 2024). The importance of innovative leadership in attaining excellent educational outcomes and establishing a culture of continuous improvement (Liu et al., 2021).

This study investigates the complex interplay between leadership, instructors' instructional strategies, and their effects on learning efficacy. The findings suggest an indirect relationship between leadership and teachers' instructional practices, with shared practices among instructors and instructors' sense of agency serving as full mediators in promoting effective learning outcomes (Ma & Marion, 2021). The research highlights the critical importance of teacher learning and collaborative practices in the school setting, which are influenced by the instructional practices of principals.

The relationship between principals' emotional intelligence and teachers' instructional practices highlighted the importance of principals' ability to detect and understand emotions, both in themselves and in others (Fernandez & Shaw, 2020). Effective instructional leadership required principals to possess a high level of emotional intelligence, enabling them to cultivate a positive and supportive environment for both teachers and students (Fisher, 2013).

Additionally, the report discussed key techniques and approaches utilized by innovative leaders to enhance the efficacy of student learning, such as fostering a collaborative and inclusive learning environment, leveraging technology, and empowering instructors (Roughton et al., 2019). It addressed potential obstacles and challenges that leaders may have encountered when implementing innovative strategies and provided guidance for overcoming these barriers (Barbuto, 2000; Kearney & Zuber-Skerritt, 2012). This review concluded with suggestions for future research, emphasizing the significance of longitudinal studies, the exploration of innovative leadership across various educational contexts, and the examination of its influence on diverse student groups (J. Chen & Guo, 2020; Phillips et al., 2013).

This paper's objective is to conduct a comprehensive literature review in order to investigate the role of innovative leadership in transforming the learning effectiveness of students. By completing a comprehensive literature evaluation, this article must give educational leaders and policymakers with significant insights into the role of innovative leadership in altering student learning effectiveness. The results and recommendations of this research can serve as a guide for leaders looking to apply innovative methods in their educational institutions, resulting in improved educational outcomes and better student preparation for 21st-century issues.

#### **METHODS**

This study will conduct a systematic literature review to investigate the role of innovative leadership in enhancing student learning effectiveness. The methodology includes selecting relevant databases such as ERIC and Scopus to gather peer-reviewed articles, books, and reports. Specific keywords will guide the search, focusing on terms related to innovative and transformative leadership, student learning effectiveness, and best practices. The review will primarily include primary sources published in the last ten years, while also considering seminal works that provide historical context. The focus will be on English-language articles pertaining to K-12 and higher education. Data

extracted from the literature will be synthesized to identify effective innovative leadership practices that positively impact student outcomes. The review will also discuss future directions and provide recommendations for educational leaders, policymakers, and researchers. By employing a systematic approach with clear inclusion and exclusion criteria, this research aims to offer valuable insights into how innovative leadership can transform student learning effectiveness and suggest actionable steps for future educational practices.

#### RESULTS AND DISCUSSION

## Background and significance of innovative leadership in education

Over the years, the role of leadership in education has evolved significantly, giving rise to the concept of innovative leadership. As a specialist in leadership, it is essential to recognize the importance of this emerging paradigm in shaping the future of education. The conventional leadership model, which emphasized primarily top-down decision-making hierarchical structures, has proven inadequate to address the complex challenges faced by educational institutions in the twenty-first century. In contrast, innovative leadership emphasizes adaptability, creativity, and transformative thinking, empowering leaders to foster an environment that promotes experimentation, collaboration, and continuous improvement. This paradigm shift aims to revolutionize the educational landscape by creating institutions that can thrive in a world that is constantly changing and by equipping students with the skills necessary to succeed in an increasingly interconnected and dynamic global society (Rohman et al., 2024). In this context, it is essential to investigate the history and significance of innovative leadership in education in order to identify the factors that contribute to its success and pave the way for future advancements in educational leadership practices.

## Literature Review of Innovative Leadership

Indicators of innovative educational leadership are crucial for assessing and improving effective practices within educational institutions (Jafarov, 2024). Research shows that these leaders are not only visionaries but also engage in strategic foresight to tackle emerging trends and challenges in education. Their forward-thinking approach aligns with the evolving needs of students, societal expectations, and the dynamic educational landscape, enabling them to adapt and respond effectively to change.

Innovative educational leaders actively cultivate a culture of innovation by creating environments that encourage the generation of new ideas, collaboration, and calculated risk-taking (Wrahatnolo & Munoto, 2018). A strong emphasis on integrating technology and digital literacy into the curriculum ensures that both educators and students are equipped with the necessary tools to utilize technology effectively. They also prioritize ongoing professional development, providing structured opportunities for educators to participate in workshops, conferences, and collaborative learning initiatives, which are essential for continuous growth and skill enhancement (Collis et al., 2024).

Furthermore, these leaders employ data-informed decision-making processes, using empirical evidence to guide instructional practices and resource allocation. They advocate for student-centered approaches, emphasizing differentiated and personalized learning experiences that address the diverse needs of all students. By fostering an inclusive and welcoming educational environment, innovative leaders empower their communities, promoting a sense of belonging and shared ownership. This empowerment is vital for driving meaningful change and enhancing educational opportunities for all stakeholders involved.

# The Role of Innovative Leadership in Transforming Student Learning Effectiveness

Innovative leaders inspire their followers to view their work as meaningful rather than mundane by emphasizing learning processes that align with the organization's vision. This research explored the indirect effect of transformational leadership on followers' innovative work behavior through their perception of meaningful work, thereby contributing to the understanding of transformational leadership's impact on learning effectiveness.

The findings indicated that principals' instructional strategies significantly influenced classroom education, improving grouping quality, inquiry methods, homework assignments, instructional strategies, and differentiation. By providing guidance, support, and opportunities for collaboration, principals enhanced the effectiveness of these instructional practices.

Creating a collaborative and inclusive learning environment that enhanced learning effectiveness required innovative leadership. Here are a few

ways in which innovative leadership contributed to the development of such an environment:

- (a) Innovative leaders recognized the value of collaboration among teachers, students, and other stakeholders, placing a premium on it. They actively encouraged group projects, peer-to-peer learning, and teamwork. By fostering a collaborative culture, they created opportunities for students to engage in meaningful interactions and collectively solve problems, leading to a deeper understanding of the subject matter.
- (b) Innovative leaders prioritized inclusive practices, ensuring all students felt valued and supported throughout their educational journey. They cultivated a welcoming environment that valued diversity and promoted equity, catering to the unique learning needs of each student. By embracing practices like differentiated instruction and personalized learning strategies, they ensured every student could participate and thrive.
- (c) They facilitated communication and feedback within the learning environment by creating avenues for open dialogue and encouraging students to express their ideas. By fostering effective communication, they enhanced participation, critical thinking, and self-reflection, which improved learning outcomes.
- (d) Innovative leaders encouraged students to embrace challenges, persevere through adversity, and view failures as learning opportunities to foster a growth mindset. They motivated students to take risks and think creatively in a safe environment, ultimately enhancing learning effectiveness.
- (e) Innovative leaders utilized technology to facilitate collaboration and inclusive learning environments. They employed digital tools and platforms that promoted student collaboration, communication, and interaction. By using online discussion forums, collaborative document editing, and multimedia resources, they enhanced students' ability to work together and exchange ideas despite physical limitations.
- (f) They encouraged students to take responsibility for their learning and become active participants in the process. By allowing students to set goals and make decisions, innovative leaders cultivated intrinsic motivation and engagement, resulting in enhanced learning effectiveness.

Innovative leadership fostered a collaborative and inclusive learning environment that enhanced student connectivity, motivation, and support. This environment encouraged active participation and diverse perspectives, leading to improved learning outcomes.

Empowering teachers as change agents required a supportive culture driven by administrators' instructional leadership. When teachers engaged in shared practices and felt empowered in their professional development, they were more likely to adopt effective instructional strategies tailored to diverse student needs.

The innovations leadership model emphasized visionary leadership, the cultivation of an innovative culture, and stakeholder empowerment to leverage technological advancements in education. This model provided a framework for evaluating leadership's impact on student learning experiences, particularly regarding perceptions of e-learning effectiveness. By examining factors such as a clear vision for e-learning, support for innovative pedagogical practices, and commitment to continuous improvement, researchers identified leadership behaviors that positively influenced student perceptions and satisfaction with e-learning initiatives.

# Developing Strategic Planning and Cultivating a Culture Of Continuous Improvement

This study provided valuable insights into the factors that shaped the effectiveness of leadership development programs by examining trainers' leadership effectiveness as a crucial boundary condition. It recognized the critical role trainers played in nurturing and guiding emerging leaders and sought to understand how their leadership effectiveness impacted the overall success of the program. This project had the potential to influence the design and implementation of leadership development initiatives, thereby enhancing the growth and effectiveness of emerging leaders.

The study indicated that school leadership significantly impacted school and student outcomes, albeit through indirect channels. The multifaceted and complex nature of leadership's effect on these outcomes suggested that effective leadership practices could foster positive changes in educational settings. Consequently, there was a growing interest in understanding the relationship between quality leadership preparation and its subsequent influence on leadership practice and teacher outcomes.

The innovation leadership model serves as a robust research framework for investigating students' perceptions of e-learning effectiveness. This model is premised on the understanding that effective leadership is essential for driving innovation and positive change in educational environments. By utilizing this model, researchers can gain valuable insights into specific leadership practices and strategies that enhance e-learning effectiveness from the students' perspective. (T.-L. Chen, 2014)

Trust among group is enhanced by instructional leadership practices that define the school's mission, administer the instructional program, and cultivate a positive school learning climate. Through faculty trust in the principal, specific instructional leadership practices have indirect rather than direct effects on teacher efficacy (Ma & Marion, 2021).

The significance of distributed and instructional leadership is crucial in influencing teacher outcomes. Educational leaders can enhance teacher job satisfaction and self-efficacy by adopting a distributed leadership strategy and fostering a supportive school culture. Emphasizing instructional leadership and promoting teacher collaboration also contribute to increased job satisfaction. Understanding the mediating effects of a supportive culture and collaboration provides insights into how leadership practices impact teacher helping to create positive and empowering educational outcomes, environments. Innovative leadership is vital for creating meaningful and engaging learning environments for students. It encourages innovative pedagogies, technology, and student-centered approaches that address diverse learning styles and needs (Land & Jonassen, 2012). By implementing innovative leadership practices, educational leaders can cultivate environments that motivate students, promote active participation, and develop critical thinking, problem-solving, and collaboration skills (Yeh & Wan, 2019).

## Challenges and Barriers to Innovative Leadership in Education

Innovative educational leaders were willing to take calculated risks, encouraging experimentation and learning from setbacks. They cultivated a collaborative, inclusive environment that valued diverse viewpoints, promoted teamwork, and encouraged open communication. These leaders empowered their teams by granting them autonomy and support, which enabled them to test and implement new ideas.

Innovative leadership in educational management emphasized creativity, adaptability, and foresight, all of which aimed to foster positive change and innovation within educational organizations (Ashmarina & Mantulenko, 2022).

These leaders strived to create an environment that supported and encouraged new ideas, teaching practices, and learning initiatives.

Recent attention had been directed toward further examining the efficacy of leadership preparation programs to explore the connection between effective leadership and educational outcomes. The quality and applicability of these programs had been identified as significant determinants of leadership effectiveness. These programs could foster effective leadership practices that positively impacted teacher outcomes by equipping aspiring leaders with the necessary knowledge, skills, and attitudes (OECD, 2021). Consequently, there had been a growing interest in evaluating the effectiveness of leadership preparation programs and identifying best practices that aligned with the demands of modern educational contexts.

Current discourse on school leadership underscored the importance of effective leadership in enhancing educational outcomes. Educational stakeholders could better appreciate the value of quality leadership preparation programs when they understood how leadership influenced both school and student outcomes. By ensuring that leaders were equipped with the essential skills to address the challenges of their roles, these programs contributed to developing effective leadership practices that improved teacher outcomes and enhanced the overall quality of education.

## Recommendations for Effective Implementation of Innovative Leadership Practices

Strong leadership is consistently shown to be essential for fostering an academically successful environment, with effective school leaders establishing clear visions, providing guidance, and cultivating a positive school culture. By implementing evidence-based practices, these leaders can indirectly enhance student achievement, teacher satisfaction, and overall school performance. This study specifically investigates the relationship between trainers' leadership effectiveness in a development program and the subsequent growth of emerging leaders, hypothesizing that the trainer's effectiveness serves as a critical boundary condition influencing program outcomes.

Understanding the impact of the trainer's leadership effectiveness is vital for effective leadership development programs. The hypothesis suggests that a trainer's effectiveness significantly defines the environment in which emerging leaders can grow and thrive. Innovative leadership plays a crucial role in the professional development of teachers, enabling them to adopt new

instructional practices and engage in reflective teaching. By providing support, resources, and collaborative opportunities, innovative leaders empower teachers to continuously improve their practices and enhance their impact on student learning.

Analyzing students' perceptions of learning effectiveness through the innovations leadership model provides a structured framework for understanding the leadership factors influencing e-learning outcomes, benefiting both researchers and practitioners. This approach not only aids in developing effective leadership strategies to enhance student experiences but also aligns with user-centered design principles by prioritizing the needs of key stakeholders in e-learning decision-making and policy formulation. The findings highlight the importance of investing in leadership preparation, which can lead to improved teacher working conditions and student learning, thus playing a critical role in district reform and school improvement. Furthermore, the research underscores the significance of emotional intelligence in instructional leadership, suggesting that cultivating this trait among principals can foster effective teaching practices, enhance teacher satisfaction, and ultimately improve educational outcomes.

Innovative educational leadership necessitates staying informed about emerging trends, educational research, and best practices, which can be achieved through ongoing professional development, networking, and partnerships with external stakeholders. The concept of distributed leadership has gained attention for its positive association with key teacher outcomes, such as job satisfaction and self-efficacy. By fostering shared decision-making and collaborative responsibility among multiple leaders in a school setting, distributed leadership enhances teachers' professional experiences, leading to higher job satisfaction and greater self-efficacy.

Additionally, teacher collaboration serves as a mediator between innovative leadership and teacher job satisfaction. Although innovative leadership does not directly influence job satisfaction, it promotes collaboration among teachers, which fosters a sense of shared purpose and professional growth. Teachers engaged in collaborative efforts report increased job satisfaction due to their participation in problem-solving and idea exchange. The study emphasizes the importance of emotional intelligence in instructional leadership, suggesting that understanding principals' behaviors can significantly impact teaching methods and overall school performance. By exploring the connections between leadership, innovative behavior, and learning outcomes, this research aims to enhance educational leadership

practices and improve organizational effectiveness, ultimately benefiting student learning experiences.

## **Exploring Innovative Leadership Across Diverse Educational Settings**

Innovative leadership encompasses the ability to identify and leverage opportunities for innovation, challenge existing norms, and promote a culture of continuous improvement within educational settings. This study builds upon prior empirical research by examining the relationship between innovative leadership and learning effectiveness in schools, aiming to validate and enhance the existing knowledge base regarding how innovative leadership impacts learning outcomes. Additionally, it investigates the role of meaningful learning as a moderating factor in this relationship, thereby expanding the theoretical framework and elucidating the mechanisms influencing learning outcomes. The findings also highlight the importance of emotional intelligence in instructional leadership; principals with high emotional intelligence are able to effectively communicate and motivate teachers, fostering an environment of trust and collaboration that encourages teachers to experiment with new instructional strategies, ultimately enhancing their teaching practices and student learning. (Liu et al., 2021).

This is an indirect relationship, implying that distributed leadership influences teacher job satisfaction and self-efficacy through a variety of mediating variables. One of these mediators is a caring school environment. When leadership is decentralized, it fosters a culture of support, trust, and open communication among employees. As a result of this supportive school culture, teachers are more satisfied with their jobs because they feel valued, heard, and empowered within their professional community.

Innovative leadership in educational administration is crucial for fostering creativity, enhancing educational outcomes, and promoting a culture of innovation. By embracing visionary thinking and a growth mindset, educational leaders can create transformative learning opportunities for students. This study provides empirical evidence that principals' Emotional Intelligence (EI) and instructional leadership behaviors significantly influence teachers' instructional practices, highlighting the importance of emotional intelligence in improving teaching effectiveness and evaluating principal performance. As a result of Wei et al.'s research, which demonstrated the connection between teacher strategies and the learning process, we have the following (J. Chen & Guo, 2020).

Finally, using the innovations leadership model as a research framework provides a valuable avenue for investigating students' perceptions of e-learning effectiveness. Using this model, researchers can delve into the leadership practices that shape students' e-learning experiences, engagement, and satisfaction. The findings of this study can be used to develop effective leadership strategies and policies that foster innovation and improve e-learning effectiveness, ultimately contributing to better educational outcomes for students.

Educational leaders drive innovation by balancing innovative and risk-averse approaches. While an overly conservative leadership style can lead to stagnation, an excessive focus on innovation may overwhelm employees who require stability and certainty. Leaders must maintain this balance to prevent disengagement among staff. It is essential for leaders to be aware of the need for both innovation and stability, encourage open communication, and ensure that all steps in the change process are clearly conveyed.

Innovative leadership is characterized by seven core competencies that significantly contribute to organizational success. Firstly, leaders possess a strategic vision, enabling them to align innovation with a comprehensive understanding of market trends and to develop clear objectives for their organizations. Secondly, a customer-centric approach is paramount; these leaders prioritize the identification and anticipation of customer needs, utilizing this insight to inform strategic decisions and solutions. Thirdly, they cultivate a psychologically safe work environment, fostering collaboration and encouraging employees to share ideas without fear of retribution, which enhances creativity and engagement. Additionally, an inherent optimism allows these leaders to maintain a positive outlook on risk-taking, framing failures as opportunities for learning. Effective communication practices are also essential; innovative leaders establish open channels for idea exchange, facilitating dialogue through forums and suggestion systems. Moreover, they promote a culture of openness, encouraging continuous improvement and authentic self-expression among employees. Lastly, they exemplify a balance of deliberation and action, valuing consensus while ensuring that decisionmaking processes do not impede organizational momentum, thereby facilitating effective implementation of innovative initiatives.

This study has two main objectives. First, it aims to clarify the ambiguous findings regarding the impact of innovative leadership on learning effectiveness, specifically examining the relationship between transformational leadership, and learning outcomes through rigorous empirical research.

Best Practices and Future Directions 47

Second, it explores the role of a meaningful culture in mediating the connection between transformational leadership and innovative work behavior among followers. By investigating this mechanism, the study seeks to enhance understanding of how these factors interact and contribute to educational management. The findings emphasize the importance of developing innovative leadership skills to improve student learning outcomes and prepare students for success in the evolving twenty-first century.

## **CONCLUSION**

This study highlights the significance of principal leadership in defining and influencing teachers' instructional methods, which contribute to enhanced classroom learning effectiveness. According to the findings, cultivating a culture of cooperation, continuous learning, and shared practices among instructors can lead to advancements in instructional techniques that benefit teachers and students alike. Future research should focus on delving deeper into the mechanisms that influence teacher practices and learning effectiveness, in addition to identifying other factors that contribute to successful instructional changes in educational environments. This study provides insightful information about the role of innovative leadership in enhancing the effectiveness of student learning. The identified best practices and future directions for research contribute to the existing body of knowledge and assist educational leaders and practitioners in implementing innovative leadership strategies to improve student learning outcomes.

## **REFERENCES**

- Ashmarina, S. I., & Mantulenko, V. V. (Eds.). (2022). *Digital Technologies in the New Socio-Economic Reality* (Vol. 304). Springer International Publishing. https://doi.org/10.1007/978-3-030-83175-2
- Barbuto, J. E. (2000). Power and the Changing Environment. *Journal of Management Education*, 24(2), 288–296. <a href="https://doi.org/10.1177/105256290002400210">https://doi.org/10.1177/105256290002400210</a>
- Bellibaş, M. Ş., Polatcan, M., & Kılınç, A. Ç. (2022). Linking Instructional Leadership to Teacher Practices: The Mediating Effect of Shared Practice and Agency in Learning Effectiveness. *Educational Management Administration & Leadership*, 50(5), 812–831. <a href="https://doi.org/10.1177/1741143220945706">https://doi.org/10.1177/1741143220945706</a>
- Chen, J., & Guo, W. (2020). Emotional Intelligence Can Make a Difference: The Impact of Principals' Emotional Intelligence on Teaching Strategy

Mediated by Instructional Leadership. *Educational Management Administration* & Leadership, 48(1), 82–105.

https://doi.org/10.1177/1741143218781066

Chen, T.-L. (2014). Exploring e-Learning Effectiveness Perceptions of Local Government Staff Based on the Diffusion of Innovations Model. *Administration & Society*, 46(4), 450–466. https://doi.org/10.1177/0095399713482313

- Collis, J. M., Barradell, S., Broman, P., & Brownie, S. (2024). University Staff Insights on Interprofessional Education and Student-Led Clinic Opportunities at an Australian University. *Journal of Multidisciplinary Healthcare*, 17, 305–315. https://doi.org/10.2147/JMDH.S447690
- Fernandez, A. A., & Shaw, G. P. (2020). Academic Leadership in a Time of Crisis: The Coronavirus and COVID-19. *Journal of Leadership Studies*, 14(1), 39–45. <a href="https://doi.org/10.1002/jls.21684">https://doi.org/10.1002/jls.21684</a>
- Fisher, E. S. (2013). *Creating Safe and Supportive Learning Environments*. Routledge. <a href="https://doi.org/10.4324/9780203807637">https://doi.org/10.4324/9780203807637</a>
- Jafarov, S. (2024). EDUCATION POLICY OF 3RD GENERATION UNIVERSITIES. Revista de Gestao Social e Ambiental, 18(6). <a href="https://doi.org/10.24857/rgsa.v18n6-007">https://doi.org/10.24857/rgsa.v18n6-007</a>
- Kalkan, Ü., Altınay Aksal, F., Altınay Gazi, Z., Atasoy, R., & Dağlı, G. (2020). The Relationship Between School Administrators' Leadership Styles, School Culture, and Organizational Image. *SAGE Open*, 10(1), 215824402090208. <a href="https://doi.org/10.1177/2158244020902081">https://doi.org/10.1177/2158244020902081</a>
- Kearney, J., & Zuber-Skerritt, O. (2012). From Learning Organization to Learning Community. *The Learning Organization*, 19(5), 400–413. https://doi.org/10.1108/09696471211239703
- Khan, M. A., Ismail, F. B., Hussain, A., & Alghazali, B. (2020). The Interplay of Leadership Styles, Innovative Work Behavior, Organizational Culture, and Organizational Citizenship Behavior. *SAGE Open*, 10(1), 2158244019898264.
- Land, S., & Jonassen, D. (Eds.). (2012). *Theoretical Foundations of Learning Environments*. Routledge. <a href="https://doi.org/10.4324/9780203813799">https://doi.org/10.4324/9780203813799</a>
- Liu, Y., Bellibaş, M. Ş., & Gümüş, S. (2021). The Effect of Instructional Leadership and Distributed Leadership on Teacher Self-efficacy and Job Satisfaction: Mediating Roles of Supportive School Culture and Teacher Collaboration. *Educational Management Administration & Leadership*, 49(3), 430–453. https://doi.org/10.1177/1741143220910438
- Ma, X., & Marion, R. (2021). Exploring How Instructional Leadership affects Teacher Efficacy: A Multilevel Analysis. *Educational Management Administration & Leadership*, 49(1), 188–207. <a href="https://doi.org/10.1177/1741143219888742">https://doi.org/10.1177/1741143219888742</a>
- Morris, G. R., & Kozuch, S. (2024). Engaging higher education teachers and students with transnational leadership. In *Engaging Higher Education Teachers and Students With Transnational Leadership*. IGI Global.

## https://doi.org/10.4018/979-8-3693-6100-9

- Normalini, M. K., Fei, Z., Mohamad, W. N., & Saleh, M. S. M. (2024). SUSTAINABLE LEARNING ENVIRONMENT AMIDST THE PANDEMIC: AN ADOPTION OF MOBILE LEARNING READINESS AMONG UNDERGRADUATE STUDENTS IN MALAYSIA'S HIGHER INSTITUTIONS. *Journal of Information Technology Education: Research*, 23. https://doi.org/10.28945/5256
- OECD. (2021). *Education at a Glance* 2021. OECD. https://doi.org/10.1787/b35a14e5-en
- Orphanos, S., & Orr, M. T. (2014). Learning Leadership Matters. *Educational Management Administration & Leadership*, 42(5), 680–700. https://doi.org/10.1177/1741143213502187
- Phillips, J. M., Resnick, J., Boni, M. S., Bradley, P., Grady, J. L., Ruland, J. P., & Stuever, N. L. (2013). Voices of Innovation: Building a Model for Curriculum Transformation. *International Journal of Nursing Education Scholarship*, 10(1), 91–97. https://doi.org/10.1515/ijnes-2012-0008
- Robertson, J. (2002). The ambiguous embrace: twenty years of IT (ICT) in UK primary schools. *British Journal of Educational Technology*, 33(4), 403–409. https://doi.org/10.1111/1467-8535.00277
- Rohman, A., Meraj, G., Isna, A., Taruna, M. M., Rachmadhani, A., & Atmanto, N. E. (2024). Challenges in Islamic Education Curriculum Development: A Comparative Study of Indonesia, Pakistan, and India. *International Journal of Learning, Teaching and Educational Research*, 23(6), 504–523. <a href="https://doi.org/10.26803/ijlter.23.6.23">https://doi.org/10.26803/ijlter.23.6.23</a>
- Roughton, J., Crutchfield, N., & Waite, M. (2019). *Safety Culture: An Innovative Leadership Approach*. Butterworth-Heinemann.
- Şen, A., & Eren, E. (2012). Innovative Leadership for the Twenty-First Century. *Procedia Social and Behavioral Sciences*, 41, 1–14. https://doi.org/10.1016/j.sbspro.2012.04.001
- Swenson, N., & Tinsley-Kim, K. (2017). The 2017 Key Issues in Teaching and Learning Accessibility and Universal Design for Learning.
- Urquizo, H. G. (2019). Professional Profile of Engineering Programs for National Licensing and International Accreditation. *Proceedings of the 2019 International Symposium on Engineering Accreditation and Education, ICACIT 2019*. <a href="https://doi.org/10.1109/ICACIT46824.2019.9130368">https://doi.org/10.1109/ICACIT46824.2019.9130368</a>
- Wrahatnolo, T., & Munoto. (2018). 21st Centuries Skill Implication on Educational System. *IOP Conference Series: Materials Science and Engineering*, 296(1), 012036. https://doi.org/10.1088/1757-899X/296/1/012036
- Yeh, E., & Wan, G. (2019). Media Literacy Education and 21st Century Teacher Education. In *The International Encyclopedia of Media Literacy* (pp. 1–18). Wiley. <a href="https://doi.org/10.1002/9781118978238.ieml0230">https://doi.org/10.1002/9781118978238.ieml0230</a>