



Contemporary Trends in Educational Leadership and Management: Capacity Building for Empowering Research

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ABSTRACT

This paper examines the intersection of leadership practices and psychological empowerment in educational research environments, highlighting the essential role of educational leadership in cultivating research cultures and expanding research capacity. It explores various leadership theories—transformational, servant, and transactional leadership—and their applicability in educational settings, emphasizing the need for positive leadership to foster conducive research environments. The study delves into the impact of toxic leadership styles, the importance of capacity building for research empowerment, and the role of open access publishing in disseminating research findings. Additionally, it investigates the psychological aspects of research motivation, focusing on intrinsic and extrinsic motivation and the foundational role of Self-Determination Theory (SDT) in understanding research motivation. Empirical case studies demonstrate the positive effects of empowering leadership on psychological empowerment and job performance, advocating for empowering leadership practices to enhance researcher motivation, engagement, and innovation.

Keywords: Educational Leadership, Psychological Empowerment, Research Capacity, Self-Determination Theory, Motivation in Research.

Introduction

In the ever-evolving domain of educational leadership, the impact on research is profound and far-reaching. Leadership significantly shapes and strengthens the research culture within educational institutions. This study delves into the latest developments in educational leadership and management, with an emphasis on enhancing research through capacity building.

A critical examination of various leadership theories and styles is essential to understand their role in educational contexts. Perera et al. (2021) have conducted an extensive analysis of relevant leadership theories and styles, such as transformational, servant, and transactional leadership, and how they apply to educational settings. This research forms a fundamental base for understanding leadership's role in educational leadership and management. Additionally, the work of Alves et al. (2006) presents an insightful cross-cultural perspective on leadership practices, underscoring the effect of cultural elements like power distance and collectivism on leadership practices, particularly pertinent in diverse educational environments.

The aspect of capacity building is vital in the realm of educational leadership and management, especially for fostering research. Howard & Dhillon (2021) have discussed the challenges educational leaders face in turbulent times and their impact on research capacity. They emphasize the need for effective leadership in maintaining a research-friendly environment. In contrast, Başkan (2020) examines the negative implications of toxic leadership on the culture and capacity building for research, suggesting a shift towards more positive leadership styles like servant and transformational leadership.

Another important consideration is the role of open access publishing in educational leadership research. Richardson et al. (2019) explore the perceptions of educational leadership faculty about open access publishing, highlighting its potential effects on reputation and dissemination of research.

Empowerment in research is a central theme in modern educational leadership and management. Fagan et al. (2022) have reviewed the characteristics and impacts of inclusive leadership, emphasizing its importance in empowering researchers from varied backgrounds and fostering inclusivity in research. Rocco & Priest (2023) have further explored the importance of developing leadership identity in research empowerment, focussing

on the social change model of leadership. Prapaveissis et al. (2022) discuss youth empowerment and co-design in the context of Pasifika health, emphasising empowerment's role in social change and addressing broader health determinants.

Current trends in educational leadership and management are geared towards capacity building for empowering research. Leadership styles like transformational and servant leadership are crucial in cultivating a strong research culture. Empowerment, inclusive leadership, and open access publishing are also key factors in this context. By concentrating on these elements, educational leaders can foster an environment conducive to research excellence and contribute significantly to the field of education.

Background on the Importance of Research

Research in education is crucial for academic advancement and policy formulation, directly impacting teaching quality, curriculum development, and educational standards. Reed et al. (2007) emphasize research's critical role in enhancing educational outcomes, showing how funding affects medical education research quality, with broader implications for all educational fields. Challenges in promoting a research culture are significant, as highlighted by Patwardhan et al. (2019), who discuss the difficulties in Ayurveda education but whose findings are broadly applicable. Amoako et al. (2021) note the importance of research publications in knowledge advancement and policy influence, underscoring their value to institutional and national development. Vila et al. (2017) explore barriers to innovation and sustainability in higher education, stressing the need for effective leadership and strategic policies to overcome these challenges. Collectively, these studies underline the essential role of high-quality research in education, suggesting that overcoming obstacles to research promotion can significantly contribute to educational excellence and knowledge progression.

Role of Leadership in Fostering a Research-Driven Environment

Educational leaders are instrumental in crafting research agendas and cultivating an environment conducive to research within educational institutions. The influence of different leadership styles on the innovation and productivity of research is substantial, with various instances demonstrating how effective leadership can lead to exceptional research achievements.

Zuckerman et al. (2021) underscored the vital role of educational leaders in shaping research agendas through their narrative review focussing on clinical productivity and teaching in emergency medicine. Although it was focused on medicine, its work sheds light on the broader implications of how leadership influences research directions. They stressed the need for leaders to actively support and prioritise research initiatives.

In the realm of fostering learning organisations, Delić et al. (2017) examined the impact of authentic leadership, particularly in transitional economies. Their findings revealed that authentic leadership, characterised by trust, openness, and collaboration, is crucial in fostering research-friendly environments. Similarly, the research by Silver & Martn (2021) in the healthcare sector demonstrated how servant leadership, emphasising empathy and compassion, can create a favourable environment for research. Hardiani (2021) also contributed to this discussion by highlighting how transformational leadership in the workplace can spur creativity, an essential component for innovative research practices.

Maxwell (2012) added to the discourse by discussing the significance of qualitative research in education in providing causal explanations, emphasising the responsibility of leaders to appreciate and promote these research methods for deeper understanding.

In summary, educational leaders, through various leadership styles such as authentic and servant leadership, play a pivotal role in driving research innovation and productivity in educational settings. By encouraging research activities, supporting a collaborative atmosphere, and recognising the value of diverse research methodologies, leaders can effectively nurture a research-centric environment, thus contributing significantly to the field's knowledge advancement.

The Psychological Dynamics of Motivation

Motivation is crucial for enhancing engagement and productivity in research, with intrinsic motivation being particularly vital for research success. Grant (2008) highlights intrinsic motivation's role in boosting persistence and performance, emphasizing its alignment with self-determination theory and the importance of fostering this motivation among researchers. Li (2023) provides insights into motivation in language learning, drawing parallels to research motivation and its complexities. Martin et al. (2016) demonstrate the link between motivation and student engagement, further supporting motivation's impact in academic contexts. Stupnisky et al. (2022) show how self-determined motivation leads to higher research productivity among STEM faculty, underscoring self-motivation's significance. Tentama et al. (2019) and Tyree & McLaughlin (2012) discuss motivation's broader impacts on work productivity and engagement in various activities. These studies collectively affirm the critical role of intrinsic motivation in elevating research quality and output, suggesting that by cultivating such motivation, researchers can greatly enhance their contributions to their fields.

Introduction to Self-Determination Theory

Self-determination theory (SDT) stands as a vital psychological framework, focussing on human motivation and factors essential for optimal functioning and well-being. This theory is particularly significant in the context of educational research, offering deep insight into the psychological needs that fuel human motivation and engagement in educational settings. At its core, SDT outlines three fundamental psychological needs: autonomy, competence, and relatedness.

González-Cutre et al. (2016) explore the concept of novelty through the lens of SDT, underscoring the importance of autonomy, competence, and relatedness in human motivation and well-being. Although their focus is on novelty, the discussion broadens to encompass the critical psychological needs delineated by SDT.

In a study relevant to educational contexts, Guo et al. (2021) investigated how identity exploration and the satisfaction of these basic psychological needs affect the development of Chinese rural children, highlighting the critical role these needs play in the growth and well-being.

Furthermore, Breitborde et al. (2019) demonstrated the applicability of SDT in mental health, examining how addressing autonomy, competence, and relatedness can positively impact individuals experiencing first-episode psychosis. This underscores the theory's relevance beyond conventional educational settings.

Extending the scope of SDT, Patel & Bartholomew (2021) discussed its implications in the workplace, particularly how these fundamental psychological needs can mitigate burnout among physical therapy providers by buffering the adverse effects of job demands.

Furthermore, Manuolu (2022) explored the theory in the context of rumination, emphasising the significance of autonomy, competence, and relatedness in general human functioning and well-being.

Self-determination theory, with its focus on autonomy, competence, and relatedness, plays a pivotal role in understanding human motivation and promoting well-being. Its principles are not only applicable to educational research, but also extend to various other contexts, providing valuable information for educators and researchers. By embracing and satisfying these basic psychological needs, educational environments can be cultivated to foster optimal functioning and positive outcomes.

Differences Between Intrinsic and Extrinsic Motivation

Intrinsic and extrinsic motivation are two fundamental types of motivation that significantly influence human behaviour and engagement, including in the realm of research. Intrinsic motivation arises from within the individual, driven by the inherent interest, enjoyment, or personal satisfaction derived from an activity. Conversely, extrinsic motivation is fuelled by external factors, such as the pursuit of rewards or the avoidance of punishment, as described by Ryan & Deci (2000).

The impact of these motivational types on research behaviour and output is profound. Individuals who are intrinsically motivated often display higher levels of engagement, persistence, and creativity in their research, as they are driven by a sense of personal fulfilment. This type of motivation aligns with the psychological needs of autonomy, competence, and relatedness, crucial for optimal functioning and well-being (Zhang & Xinguang, 2021). Ryan & Deci (2000) noted that intrinsically motivated individuals typically experience increased interest, enjoyment, and satisfaction in their activities, which often leads to enhanced creativity, problem solving skills, and deeper learning.

However, extrinsic motivation, while it may initially incentivise research participation, can have less favourable long-term effects. Overreliance on external rewards can diminish intrinsic motivation, leading to reduced interest and satisfaction in research activities (Ryan & Deci, 2000). Zhang & Xinguang (2021) noted that although external factors like rewards or punishments can influence motivation for research, this might not always translate into sustained engagement or high-quality outputs.

Interestingly, intrinsic and extrinsic motivation can co-exist within individuals, and, in certain circumstances, extrinsic motivation can even foster intrinsic motivation. For instance, recognition or accolades for research achievements can enhance a researcher's sense of competence and relatedness, thereby promoting intrinsic motivation (Ryan & Deci, 2000).

Intrinsic motivation, originating from internal desires for interest and enjoyment, positively influences research engagement and productivity. It supports the essential psychological needs for optimal well-being. Extrinsic motivation, driven by external factors, can offer initial motivation, but may potentially undermine intrinsic motivation if overly relied upon. Balancing motivational types and nurturing intrinsic motivation is key to ensuring sustained research engagement and achieving high-quality results in research endeavors.

Importance of Autonomy, Competence, and Relatedness in Research Motivation

Autonomy, competence, and relatedness are essential psychological needs for motivating research, catalyzing self-directed work, and fostering collaboration. Autonomy grants researchers control, enhancing their motivation and well-being, as noted by Gagné & Deci (2005), and supports self-efficacy in research, according to Robinson et al. (2020). Competence involves feeling skilled and effective, nurtured through feedback and mastery experiences, which Lavigne et al. (2007) found boosts students' self-perceptions of competence, while Huffmyer et al. (2022) link it to a strong science identity for sustained research engagement. Relatedness, the connection among peers, is vital for teamwork and productivity, with Fitton et al. (2020) showing its link to motivation, and Hakami et al. (2022) demonstrating its role in collaborative learning. Together, these elements

promote a research environment where autonomy leads to self-guided exploration, competence fosters resilience, and relatedness enhances cooperation, essential for high-quality, motivated research endeavors.

Leadership Practices and Psychological Empowerment

Leadership practices play a crucial role in enhancing the psychological empowerment of researchers, aligning with self-determination theory's core needs: autonomy, competence, and relatedness. By fostering these needs, leaders boost researchers' motivation, engagement, and well-being.

For autonomy, leaders can involve researchers in decision-making and goal-setting, enhancing their control and initiative in research projects, a strategy supported by Shabbir et al. (2022) for its effectiveness in promoting autonomy and psychological empowerment. In terms of competence, leaders are pivotal in providing resources, training, and feedback to develop researchers' skills and self-efficacy, as noted by Xu & Yang (2018), who found authentic leadership beneficial in reducing burnout and empowering researchers.

Relatedness is cultivated through creating a collaborative environment that fosters trust, communication, and teamwork, strengthening researchers' social connections and intrinsic motivation. This approach, by enhancing collaboration and exchange of ideas, contributes to a vibrant research community.

In essence, leadership that supports autonomy, competence, and relatedness not only fulfills researchers' psychological needs but also fosters a productive and empowering research environment.

Strategies Leaders Can Use to Foster Autonomy in Researchers

Leaders play a critical role in fostering autonomy among researchers by supporting their self-directed approach to research. This includes providing guidance, resources, and opportunities for independent decision-making, which cultivates a deep sense of project ownership among researchers.

Involving researchers in decision-making, as highlighted by Overall et al. (2011), significantly boosts their self-efficacy and commitment by allowing them to contribute ideas and perspectives. Similarly, ensuring access to necessary resources, as noted by Lee & Nie (2016), empowers researchers to independently pursue their interests, enhancing their psychological empowerment.

Furthermore, autonomy is promoted by encouraging researchers to set their own research goals, a strategy supported by Lee et al. (2021) for its positive impact on intrinsic motivation and engagement. Additionally, offering constructive feedback and fostering a culture of critical thinking, as discussed by Stanescu et al. (2020), supports independent thought and innovative work behavior.

A balanced approach to supervision that combines support with the freedom to explore, as demonstrated by Sawatsky et al. and Grass et al. (2020), encourages researchers to take initiative. Through strategies that involve decision-making participation, resource allocation, goal-setting autonomy, and supportive feedback, leaders can cultivate a research environment that promotes creativity, self-initiation, and a sense of autonomy among researchers.

The Role of Positive Reinforcement and Feedback in Promoting Competence

Positive reinforcement and constructive feedback are crucial for developing researchers' competence. Leaders need to create a feedback culture that promotes a growth mindset, helping researchers face challenges and refine their skills. Constructive feedback should be specific and timely, focusing on both strengths and areas for improvement. Wolcott et al. (2020) and Dysvik et al. (2013) highlight the benefits of feedback that fosters growth and intrinsic motivation, suggesting leaders emphasize effort and the learning process over just outcomes. Leaders are also encouraged to cultivate an environment where feedback is sought and valued, allowing researchers to gain diverse insights and advice, as noted by Kirchner & Akdere (2017). Balancing positive reinforcement with constructive criticism is vital for maintaining motivation and confidence, aiding continuous competence development (Skewes et al., 2018). Ultimately, a feedback system that encourages learning, growth, and a supportive community is essential for advancing researchers' skills and success.

Building a Community for Relatedness Among Researchers

Building a cohesive and collaborative research community is crucial in fostering a sense of belonging among researchers. Leaders can achieve this by adopting strategies that enhance communication, collaboration, and a sense of belonging, thereby boosting researchers' engagement, satisfaction, and capacity for innovation.

One effective strategy is the establishment of regular communication channels, such as research seminars, conferences, workshops, and online forums. These platforms provide researchers with opportunities to present their work, exchange ideas, and receive peer feedback. He et al. (2022) have shown that interdisciplinary research significantly contributes to scientific innovation and sustainable development, underlining the importance of creating environments that encourage cross-disciplinary interactions. Such interactions not only promote relatedness across diverse research disciplines but also open avenues for collaborative innovation.

In addition to fostering interdisciplinary dialogue, leaders should facilitate networking and collaborative opportunities. This might include organizing joint research projects, encouraging collaborative publications, and building partnerships with external organizations. Zhang et al. (2023) noted the positive impact of interdisciplinary knowledge networks on innovation among college students, emphasizing the value of such collaborations in driving scientific progress.

Creating an inclusive and welcoming research environment is also essential. Leaders can cultivate a culture that embraces diversity, respect, and openness, ensuring that all researchers, regardless of their background, feel valued and included.

Recognizing and celebrating the achievements of researchers is another important aspect. This can be done through awards, recognition programs, and public acknowledgments, which not only reinforce a sense of relatedness but also motivate and inspire the research community. Braßler & Schultze (2021) emphasized the importance of interdisciplinary learning in spurring innovation, suggesting that celebrating shared successes can further enhance collaboration and innovation.

Additionally, providing mentorship and support, especially to early-career researchers, is crucial. Pairing them with experienced mentors for guidance and support can significantly enrich their research experience and contribute to their professional development, as discussed by Braßler & Schultze (2021).

Fostering a sense of relatedness among researchers involves promoting communication, collaboration, inclusivity, and recognition. By encouraging interdisciplinary interactions, creating inclusive environments, celebrating achievements, and providing mentorship, leaders can establish a supportive and collaborative research community. Such a community not only enhances the engagement and satisfaction of researchers but also contributes significantly to the advancement of knowledge and the overall success of research endeavors.

Methodology:

This study employs a case study methodology to assess how leadership practices influence psychological empowerment within educational research environments. Analyzing specific cases from diverse educational contexts, it scrutinizes the effects of various leadership styles—transformational, servant, and transactional—on enhancing research empowerment and capacity.

Case Study Selection Criteria: Selection was based on relevance to leadership and empowerment, impact on research capacity, and diversity in educational settings. This ensured a comprehensive review of how leadership styles affect research engagement and innovation across different contexts.

Data Collection: Data was sourced from academic literature, institutional reports, and expert interviews, providing a rich mix of theoretical perspectives and empirical findings on leadership's role in research empowerment.

Analysis Framework: Analysis focused on leadership practices, psychological empowerment evaluation, and their impacts on research motivation and capacity. This involved examining leadership strategies for creating empowering environments, assessing indicators of psychological empowerment among researchers, and their effects on research engagement and productivity.

By using a case study approach, the research uncovers the complex interplay between leadership practices and psychological empowerment in educational research, highlighting how leadership can effectively promote a conducive environment for research excellence and innovation.

Case Studies in Diverse Educational Settings

In exploring the realms of educational leadership and its profound impact on research communities, it becomes imperative to examine real-world applications of leadership practices. The significance of empowering leadership, particularly in nurturing a supportive and collaborative research environment, cannot be overstated. This concept gains depth and clarity through the lens of three illuminating case studies, each drawn from varied fields yet converging on the common theme of the transformative power of empowering leadership. These case studies serve as empirical evidence of how leadership practices that emphasize autonomy, decision-making involvement, and acknowledgment can significantly enhance psychological empowerment among employees. This empowerment manifests in various positive outcomes, including heightened motivation, engagement, job performance, and overall well-being. Such leadership not only fosters individual growth and success but also contributes to the collective advancement and efficacy of educational institutions as vibrant research communities.

Case Study 1: In the study by Kim et al. (2018), a meta-analysis was conducted to explore how empowering leadership influences employees across various fields such as medicine, psychology, and physics. The research highlighted that leadership approaches emphasizing autonomy, involving employees in decision-making processes, and recognizing their contributions led to increased psychological empowerment. This psychological empowerment encompassed aspects like meaning, competence, self-determination, and impact, resulting in heightened motivation, engagement, and overall well-being among employees (Bantha & Nayak, 2021). Supporting this, Spreitzer (1995) delved into the dimensions, measurement, and validation of psychological empowerment in the workplace. Psychological empowerment plays a crucial role in enhancing employee motivation and engagement, aligning with the findings of Kim et al. (2018) regarding the positive outcomes associated with empowering leadership (Spreitzer, 1995). Furthermore, Aggarwal et al. (2020) explored the relationship between leader-member exchange, work engagement, psychological withdrawal behavior, and psychological empowerment. The study emphasized the mediating role of psychological empowerment in enhancing employee engagement and reducing withdrawal behaviors, reinforcing the importance of empowering leadership strategies in fostering a positive work environment (Aggarwal et al., 2020).

Additionally, Bantha & Nayak (2021) investigated the link between workplace spirituality, employee creativity, and psychological empowerment. The study highlighted the mediating role of psychological empowerment in enhancing employee creativity, further emphasizing the significance of psychological empowerment in driving positive outcomes in the workplace (Naguib & Madeeha, 2023). The synthesis of these studies underscores the critical role of empowering leadership in promoting psychological empowerment among employees, which in turn leads to increased motivation, engagement, and overall well-being. These findings emphasize the importance of implementing empowering leadership strategies across various domains to cultivate a positive and productive work environment.

In Case Study 2: Study conducted by Ahmed et al. (2022), focused on the higher education sector and examined the impact of empowering leadership on employee job performance. The study revealed that empowering leadership positively influenced job performance, with this effect being mediated by factors such as goal clarity and self-efficacy. Leaders achieved this by providing support, guidance, resources, and fostering an empowering environment, leading to enhanced job performance, increased employee satisfaction, and heightened commitment (Amundsen & Martinsen, 2014). Supporting this, Amundsen & Martinsen (2014) developed the Empowering Leadership Scale (ELS), which validated the construct of empowering leadership through a two-dimensional, 18-item instrument. This scale's validation contributes to a better understanding of empowering leadership and its impact on various outcomes, aligning with the findings of Ahmed et al. (2022) regarding the positive effects of empowering leadership on job performance (Amundsen & Martinsen, 2014). Furthermore, Schwarz et al. (2016) explored the relationship between servant leadership and follower job performance, highlighting the mediating role of public service motivation. This study contributes to understanding how different leadership styles, including servant leadership, can influence job performance, which resonates with the findings of Ahmed et al. (2022) on the positive impact of empowering leadership on employee performance (Schwarz et al., 2016). The synthesis of these studies emphasizes the importance of empowering leadership in the higher education sector and its positive effects on employee job performance. By cultivating an environment of empowerment, providing support, and enhancing goal clarity and self-efficacy, leaders can significantly improve job performance, satisfaction, and commitment among employees.

Case Study 3: Fong & Snape (2013), conducted a study that investigated the effects of empowering leadership on psychological empowerment and various employee outcomes. The research concluded that implementing empowering leadership strategies, such as granting autonomy, involving employees in decision-making processes, and acknowledging their contributions, led to a significant increase in psychological empowerment among employees. This increase in psychological empowerment resulted in enhanced job satisfaction, organizational commitment, and overall performance (Fong & Snape, 2013). Supporting this, Zhang & Bartol (2010) explored the relationship between empowering leadership and employee creativity, emphasizing the influence of psychological empowerment, intrinsic motivation, and creative process engagement. This study contributes to understanding the specific connection between empowering leadership and psychological empowerment, aligning with the findings of regarding the positive impact of empowering leadership on employee outcomes (Zhang & Bartol, 2010). Furthermore, Kundu et al. (2019) investigated the mediating role of psychological empowerment in the relationship between empowering leadership and job performance. The study highlighted that high leader-member exchange fosters psychological empowerment, subsequently enhancing job performance, which resonates with the conclusions drawn by (2013) on the positive effects of empowering leadership on employee performance (Kundu et al., 2019). These studies underscore the significance of empowering leadership in driving psychological empowerment among employees, leading to improved job satisfaction, commitment, and performance. By implementing empowering leadership strategies that prioritize autonomy, involvement, and recognition, organizations can cultivate a positive work environment and enhance employee outcomes.

These case studies collectively underscore the crucial role of empowering leadership in educational institutions. The leadership strategies identified, namely offering autonomy, engaging employees in decision-making, and acknowledging their contributions, have led to positive outcomes like increased motivation, engagement, job performance, and well-being among employees. These findings highlight the significance of such leadership in creating a supportive environment that not only promotes the growth and success of individuals but also enhances the overall functioning and success of organizations in the educational sphere.

Discussion

The concept of empowering leadership, as highlighted by Kim et al. (2018), Ahmed et al. (2022), and Fong & Snape (2013), is central to creating a thriving research environment. These studies collectively emphasize that leadership practices significantly influence employee outcomes in various fields, including educational research. Empowering leadership, characterized by providing autonomy, decision-making involvement, and recognition, leads to enhanced psychological empowerment. This empowerment is not just about boosting morale; it's about nurturing a research culture where individuals feel valued, motivated, and engaged. The positive correlations found between empowering leadership and increased motivation, engagement, job performance, and well-being among employees are particularly relevant in educational settings where research plays a pivotal role.

The discourse begins with an examination of various leadership theories—transformational, servant, and transactional leadership—highlighting their relevance and applicability in educational contexts. Transformational leadership, as described by Burns (1978), involves leaders working with subordinates to identify needed change, creating a vision to guide the change through inspiration, and executing the change in tandem with committed members of the group. This approach is crucial in educational settings for fostering innovation and a strong research culture. Servant leadership, a term coined by Greenleaf (1977), focuses on the leader's role as a servant first, prioritizing the needs of others and helping people develop and perform as highly as possible, which is vital for building supportive research environments. Transactional leadership, characterized by the exchange between leader and followers (Bass, 1981), while more traditional, remains relevant in its emphasis on clear structures and rewards for performance, offering stability and predictability within research institutions.

Empirical evidence, particularly from case studies by Kim et al. (2018), Ahmed et al. (2022), and Fong & Snape (2013), underscores the effectiveness of empowering leadership in promoting psychological empowerment among researchers. These studies collectively affirm that leadership practices emphasizing autonomy, decision-making involvement, and acknowledgment lead to enhanced psychological empowerment, encompassing aspects such as meaning, competence, self-determination, and impact. This, in turn, results in increased motivation, engagement, and well-being, illustrating the profound effect of empowering leadership on fostering a positive work environment conducive to research.

Further study highlights the significant role of open access publishing in the dissemination of research findings, as explored by Richardson et al. (2019). The accessibility and visibility provided by open access publishing can exponentially increase the impact of educational research, facilitating broader dissemination and engagement with research findings. This aspect of leadership in promoting open access to research underscores a commitment to enhancing the global research community's capacity to access and utilize educational research. A pivotal part of the discourse delves into the psychological aspects of research motivation, distinguishing between intrinsic and extrinsic motivation, and the foundational role of Self-Determination Theory (SDT) in understanding research motivation. The emphasis on autonomy, competence, and relatedness as core components of SDT, articulated by Ryan & Deci (2000), provides a framework for fostering intrinsic motivation among researchers. This framework is supported by empirical studies such as those by Grant (2008) and Stupnisky et al. (2022), which illustrate the direct link between intrinsic motivation and research productivity. The paper underscores a pivotal shift towards empowering leadership within educational research environments, advocating for practices that not only inspire but fundamentally empower researchers. This transformation is crucial for nurturing innovation, collaboration, and excellence in research endeavors.

A collaborative research community is essential for the dynamic exchange of ideas, interdisciplinary projects, and knowledge sharing. Such a community fosters a sense of belonging and leverages diverse perspectives, significantly enriching the research landscape. This recommendation draws support from the work of Kim et al. (2018), who found that empowering leadership practices lead to increased psychological empowerment, fostering an environment where collaboration and innovation thrive.

Constructive feedback, characterized by its developmental and affirming nature, is pivotal for promoting a growth mindset among researchers. This form of feedback, which emphasizes actionable insights and mutual respect, is supported by Fong & Snape (2013), who highlighted the positive impact of empowering leadership strategies on employee outcomes, including job satisfaction and performance. By fostering an atmosphere of open dialogue and continuous improvement, leaders can encourage researchers to engage deeply with their work and navigate challenges with resilience.

The enhancement of autonomy, competence, and relatedness is central to fostering an intrinsically motivated research environment. Autonomy supports self-directed research, competence builds efficacy in research skills, and relatedness strengthens community connections. Ahmed et al. (2022) further substantiate this, demonstrating how empowering leadership positively influences job performance through mechanisms like goal clarity and self-efficacy. These elements resonate with Self-Determination Theory, highlighting the importance of these psychological needs in driving intrinsic motivation and engagement in research activities. Adopting these empowering strategies can significantly boost motivation, engagement, and productivity among researchers. The empirical evidence presented by Ahmed et al. (2022) and Kim et al. (2018) underscores the effectiveness of empowering leadership in enhancing these outcomes. Such an environment not only benefits researchers by fostering professional growth and satisfaction but also contributes to the institution's collective research success.

Ultimately, these strategies align with broader objectives of academic excellence and societal advancement. By creating an empowered research environment, leaders enhance the institution's research quality and impact, contributing to the advancement of knowledge and societal progress. This approach underlines the vital role of leadership in shaping a future where educational research addresses complex challenges, informs policy, and contributes to the global knowledge economy.

The call to action for educational leaders is to embrace empowering practices, fostering an environment that nurtures researcher autonomy, competence, and relatedness. This strategic emphasis on empowerment is poised to redefine educational research, ensuring its continued relevance, impact, and contribution to societal

progress, as evidenced by the supporting studies from Kim et al. (2018), Ahmed et al. (2022), and Fong & Snape (2013).

Conclusion

The key points discussed highlight the essential role of psychological empowerment in cultivating a thriving research environment. Empowering leadership practices, such as providing autonomy, involving researchers in decision-making, and recognizing their contributions, have been shown to positively influence researchers' perceptions of psychological empowerment. This, in turn, leads to increased motivation, engagement, well-being, job performance, and innovation among researchers. Educational leaders are called upon to adopt an informed, capacity-building approach to leadership. By embracing empowering leadership practices, leaders can create a supportive and empowering environment that fosters the growth and success of individuals and organizations in the educational context. Strategies such as creating a collaborative research community, providing constructive feedback, and promoting autonomy, competence, and relatedness among researchers are crucial for cultivating a thriving research environment. To support these conclusions, references such as (Kim et al., 2018), (Fong & Snape, 2013), and Ahmed et al. (2022) provide empirical evidence on the positive impact of empowering leadership on psychological empowerment, job performance, and organizational commitment in various fields, including medicine, psychology, and education. Educational leaders have the opportunity to create a research environment that empowers and motivates researchers by adopting empowering leadership practices. By fostering psychological empowerment, leaders can enhance researchers' engagement, well-being, and innovation, ultimately contributing to the advancement of knowledge and the success of research endeavors.

References:

1. Aggarwal, A., Chand, P., Jhamb, D., & Mittal, A. (2020). Leader–member exchange, work engagement, and psychological withdrawal behavior: the mediating role of psychological empowerment. *Frontiers in Psychology*, 11. <https://doi.org/10.3389/fpsyg.2020.00423>
2. Ahmed, T., Yang, C., Yang, H., & Mahmood, S. (2022). The impact of empowering leadership on job performance of higher education institutions employees: mediating role of goal clarity and self-efficacy. *Psychology Research and Behavior Management*, Volume 15, 677-694. <https://doi.org/10.2147/prbm.s357083>
3. Alves, J., Lovelace, K., Manz, C., Matsypura, D., Toyasaki, F., & Ke, K. (2006). A cross-cultural perspective of self-leadership. *Journal of Managerial Psychology*, 21(4), 338-359. <https://doi.org/10.1108/02683940610663123>
4. Amoako, I., Boahen, O., & Abaidoo, A. (2021). Perceived challenges of academic staff production of research papers in colleges of education in Ghana. *European Journal of Humanities and Social Sciences*, 1(3), 34-40. <https://doi.org/10.24018/ejsocial.2021.1.3.39>
5. Amundsen, S. and Martinsen, O. (2014). Empowering leadership: construct clarification, conceptualization, and validation of a new scale. *The Leadership Quarterly*, 25(3), 487-511. <https://doi.org/10.1016/j.leaqua.2013.11.009>
6. Ávila, L., Filho, W., Brandli, L., Macgregor, C., Molthan-Hill, P., Özuyar, P., ... & Moreira, R. (2017). Barriers to innovation and sustainability at universities around the world. *Journal of Cleaner Production*, 164, 1268-1278. <https://doi.org/10.1016/j.jclepro.2017.07.025>
7. Bantha, T. and Nayak, U. (2021). The relation of workplace spirituality with employee creativity among Indian software professionals: mediating role of psychological empowerment. *South Asian Journal of Business Studies*, 12(3), 427-443. <https://doi.org/10.1108/sajbs-08-2020-0270>
8. Başkan, B. (2020). Toxic leadership in education. *International Journal of Educational Administration Management and Leadership*, 97-104. <https://doi.org/10.51629/ijeamal.v1i2.11>
9. Braßler, M. and Schultze, M. (2021). Students' innovation in education for sustainable development—a longitudinal study on interdisciplinary vs. monodisciplinary learning. *Sustainability*, 13(3), 1322. <https://doi.org/10.3390/su13031322>
10. Breitborde, N., Pine, J., & Moe, A. (2019). Specialized, multi-component care for individuals with first-episode psychosis: effects on autonomy, competence and relatedness. *Early Intervention in Psychiatry*, 13(6), 1503-1505. <https://doi.org/10.1111/eip.12784>
11. Delić, M., Slåtten, T., Milić, B., Marjanovic, U., & Vulcanović, S. (2017). Fostering learning organisation in transitional economy – the role of authentic leadership and employee affective commitment. *International Journal of Quality and Service Sciences*, 9(3/4), 441-455. <https://doi.org/10.1108/ijqss-02-2017-0012>
12. Dysvik, A., Kuvaas, B., & Gagné, M. (2013). An investigation of the unique, synergistic and balanced relationships between basic psychological needs and intrinsic motivation. *Journal of Applied Social Psychology*, 43(5), 1050-1064. <https://doi.org/10.1111/jasp.12068>
13. Fagan, H., Wells, B., Guenther, S., & Matkin, G. (2022). The path to inclusion: a literature review of attributes and impacts of inclusive leaders. *Journal of Leadership Education*, 21(1). <https://doi.org/10.12806/v21/i1/r7>

13. Fitton, L., Astroth, K., Cox, A., Wilson, D., Mallory, C., & Jenkins, S. (2020). Motivation and exercise in rural postmenopausal women. *Online Journal of Rural Nursing and Health Care*, 20(2), 53-77. <https://doi.org/10.14574/ojrnhc.v20i2.623>
14. Fong, K. and Snape, E. (2013). Empowering leadership, psychological empowerment and employee outcomes: testing a multi-level mediating model. *British Journal of Management*, 26(1), 126-138. <https://doi.org/10.1111/1467-8551.12048>
15. Gagné, M. and Deci, E. (2005). Self-determination theory and work motivation. *Journal of Organizational Behavior*, 26(4), 331-362. <https://doi.org/10.1002/job.322>
16. González-Cutre, D., Sicilia, Á., Sierra, A., Ferriz, R., & Hagger, M. (2016). Understanding the need for novelty from the perspective of self-determination theory. *Personality and Individual Differences*, 102, 159-169. <https://doi.org/10.1016/j.paid.2016.06.036>
17. Grant, A. (2008). Does intrinsic motivation fuel the prosocial fire? motivational synergy in predicting persistence, performance, and productivity.. *Journal of Applied Psychology*, 93(1), 48-58. <https://doi.org/10.1037/0021-9010.93.1.48>
18. Grass, A., Backmann, J., & Hoegl, M. (2020). From empowerment dynamics to team adaptability: exploring and conceptualizing the continuous agile team innovation process. *Journal of Product Innovation Management*, 37(4), 324-351. <https://doi.org/10.1111/jpim.12525>
19. Guo, S., Cheung, C., Hu, J., & Ning, X. (2021). The moderation effect of identity exploration and basic psychological needs satisfaction on flourishing of chinese rural children. *Psicologia Reflexão E Crítica*, 34(1). <https://doi.org/10.1186/s41155-020-00166-5>
20. Hakami, E., Aadmi-Laamech, K., Hakami, L., Santos, P., Hernández-Leo, D., & Amarasinghe, I. (2022). Students' basic psychological needs satisfaction at the interface level of a computer-supported collaborative learning tool., 218-230. https://doi.org/10.1007/978-3-031-20218-6_15
21. Hardiani, M. (2021). The role of leadership style in fostering creativity in the workplace. *Jurnal Manajemen*, 25(3), 447. <https://doi.org/10.24912/jm.v25i3.760>
22. He, T., Fu, W., Xu, J., Zhou, J., Yin, Y., & Xie, Z. (2022). Discovering interdisciplinary research based on neural networks. *Frontiers in Bioengineering and Biotechnology*, 10. <https://doi.org/10.3389/fbioe.2022.908733>
23. Howard, C. and Dhillon, J. (2021). Outstanding primary leadership in times of turbulence. *Education Sciences*, 11(11), 714. <https://doi.org/10.3390/educsci11110714>
24. Huffmyer, A., O'Neill, T., & Lemus, J. (2022). Evidence for professional conceptualization in science as an important component of science identity. *Cbe—life Sciences Education*, 21(4). <https://doi.org/10.1187/cbe.20-12-0280>
25. Kim, M., Beehr, T., & Prewett, M. (2018). Employee responses to empowering leadership: a meta-analysis. *Journal of Leadership & Organizational Studies*, 25(3), 257-276. <https://doi.org/10.1177/1548051817750538>
26. Kirchner, M. and Akdere, M. (2017). Military leadership development strategies: implications for training in non-military organizations. *Industrial and Commercial Training*, 49(7/8), 357-364. <https://doi.org/10.1108/ict-06-2017-0047>
27. Kundu, S., Kumar, S., & Gahlawat, N. (2019). Empowering leadership and job performance: mediating role of psychological empowerment. *Management Research Review*, 42(5), 605-624. <https://doi.org/10.1108/mrr-04-2018-0183>
28. Lavigne, G., Vallerand, R., & Miquelon, P. (2007). A motivational model of persistence in science education: a self-determination theory approach. *European Journal of Psychology of Education*, 22(3), 351-369. <https://doi.org/10.1007/bf03173432>
29. Lee, A. and Nie, Y. (2016). Teachers' perceptions of school leaders' empowering behaviours and psychological empowerment. *Educational Management Administration & Leadership*, 45(2), 260-283. <https://doi.org/10.1177/1741143215578448>
30. Lee, H., Hays, N., & Johnson, R. (2021). To thine own (empowered) self be true: aligning social hierarchy motivation and leader behavior.. *Journal of Applied Psychology*, 106(7), 1033-1048. <https://doi.org/10.1037/apl0000813>
31. Li, L. (2023). Exploring the development of second language motivation., 425-434. https://doi.org/10.2991/978-2-494069-97-8_54
32. Manuoğlu, E. (2022). Ruminasyonun yansıtma ve kötümser düşünme boyutlarının yordayıcıları: öz-belirleme kurami perspektifi. *Ankara Üniversitesi Dil Ve Tarih-Coğrafya Fakültesi Dergisi*, 62(2), 1555-1573. <https://doi.org/10.33171/dtcjournal.2022.62.2.31>
33. Martin, A., Martin, T., & Evans, P. (2016). Motivation and engagement in jamaica: testing a multidimensional framework among students in an emerging regional context. *Journal of Psychoeducational Assessment*, 36(3), 233-248. <https://doi.org/10.1177/0734282916674424>
34. Maxwell, J. (2012). The importance of qualitative research for causal explanation in education. *Qualitative Inquiry*, 18(8), 655-661. <https://doi.org/10.1177/1077800412452856>

35. Naguib, R. and Madeeha, M. (2023). Empowering vs empowered: factors shaping women's workplace empowerment in the qatari public sector. *Gender in Management an International Journal*, 39(2), 188-205. <https://doi.org/10.1108/gm-04-2022-0137>
36. Overall, N., Deane, K., & Peterson, E. (2011). Promoting doctoral students' research self-efficacy: combining academic guidance with autonomy support. *Higher Education Research & Development*, 30(6), 791-805. <https://doi.org/10.1080/07294360.2010.535508>
37. Patel, R. and Bartholomew, J. (2021). Impact of job resources and job demands on burnout among physical therapy providers. *International Journal of Environmental Research and Public Health*, 18(23), 12521. <https://doi.org/10.3390/ijerph182312521>
38. Patwardhan, K., Prasad, B., Aftab, A., More, V., & Savrikar, S. (2019). Research orientation in ayurveda educational institutions: challenges and the way forward. *Journal of Ayurveda and Integrative Medicine*, 10(1), 45-49. <https://doi.org/10.1016/j.jaim.2018.12.001>
39. Perera, P., Witharana, T., & Withanage, P. (2021). A review of leadership: different leadership theories and styles relevant to education leadership. *Asian Journal of Education and Social Studies*, 18-26. <https://doi.org/10.9734/ajess/2021/v19i130453>
40. Prapaveissis, D., Henry, A., Okizama, E., Funaki, T., Faeamani, G., Masaga, J., ... & Firestone, R. (2022). Assessing youth empowerment and co-design to advance pasifika health: a qualitative research study in new zealand. *Australian and New Zealand Journal of Public Health*, 46(1), 56-61. <https://doi.org/10.1111/1753-6405.13187>
41. Reed, D., Cook, D., Beckman, T., Levine, R., Kern, D., & Wright, S. (2007). Association between funding and quality of published medical education research. *Jama*, 298(9), 1002. <https://doi.org/10.1001/jama.298.9.1002>
42. Richardson, J., McLeod, S., & Hurst, T. (2019). Perceptions of educational leadership faculty regarding open access publishing. *International Journal of Education Policy and Leadership*, 15(5). <https://doi.org/10.22230/ijep.2019v15n5a817>
43. Robinson, S., Zocchi, M., Netherton, D., Ash, A., Purington, C., Connolly, S., ... & Shimada, S. (2020). Secure messaging, diabetes self-management, and the importance of patient autonomy: a mixed methods study. *Journal of General Internal Medicine*, 35(10), 2955-2962. <https://doi.org/10.1007/s11606-020-05834-x>
44. Rocco, M. and Priest, K. (2023). Extending the scope of leadership identity development. *New Directions for Student Leadership*, 2023(178), 107-117. <https://doi.org/10.1002/yl.20559>
45. Ryan, R. and Deci, E. (2000). Intrinsic and extrinsic motivations: classic definitions and new directions. *Contemporary Educational Psychology*, 25(1), 54-67. <https://doi.org/10.1006/ceps.1999.1020>
46. Schwarz, G., Newman, A., Cooper, B., & Eva, N. (2016). Servant leadership and follower job performance: the mediating effect of public service motivation. *Public Administration*, 94(4), 1025-1041. <https://doi.org/10.1111/padm.12266>
47. Shabbir, S., Shabir, N., Batool, I., Parveen, S., Gondal, J., & Jamil, R. (2022). Theoretical assumptions of transformational leadership styles on psychological empowerment and psychological well-being in leaders vs. subordinates. *Praxis International Journal of Social Science and Literature*, 88-98. <https://doi.org/10.51879/pijssl/050214>
48. Silver, R. and Martín, M. (2021). Servant leadership and its association with an environment of empathic care: an empirical analysis of the perspectives of mid-level practitioners. *Leadership in Health Services*, 35(1), 116-136. <https://doi.org/10.1108/lhs-06-2021-0052>
49. Skewes, M., Shanahan, E., Smith, J., Honea, J., Belou, R., Rushing, S., ... & Handley, I. (2018). Absent autonomy: relational competence and gendered paths to faculty self-determination in the promotion and tenure process. *Journal of Diversity in Higher Education*, 11(3), 366-383. <https://doi.org/10.1037/dhe000064>
50. Spreitzer, G. (1995). Psychological empowerment in the workplace: dimensions, measurement, and validation. *Academy of Management Journal*, 38(5), 1442-1465. <https://doi.org/10.5465/256865>
51. Stanescu, D., Zbucnea, A., & Pînzaru, F. (2020). Transformational leadership and innovative work behaviour: the mediating role of psychological empowerment. *Kybernetes*, 50(5), 1041-1057. <https://doi.org/10.1108/k-07-2019-0491>
52. Stupnisky, R., Larivière, V., Hall, N., & Omojiba, O. (2022). Predicting research productivity in stem faculty: the role of self-determined motivation. *Research in Higher Education*, 64(4), 598-621. <https://doi.org/10.1007/s11162-022-09718-3>
53. Tentama, F., Nasywa, N., Agustina, D., & Dabi, S. (2019). The role of work motivation towards work productivity. <https://doi.org/10.2991/adics-elssh-19.2019.32>
54. Tyree, G. and McLaughlin, A. (2012). Older adult engagement in activities: all motivations are not created equal. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 56(1), 135-139. <https://doi.org/10.1177/1071181312561005>
55. Wolcott, M., McLaughlin, J., Hann, A., Miklavec, A., Dallaghan, G., Rhoney, D., ... & Zomorodi, M. (2020). A review to characterise and map the growth mindset theory in health professions education. *Medical Education*, 55(4), 430-440. <https://doi.org/10.1111/medu.14381>

56. Xu, Z. and Yang, F. (2018). The cross-level effect of authentic leadership on teacher emotional exhaustion: the chain mediating role of structural and psychological empowerment. *Journal of Pacific Rim Psychology*, 12, e35. <https://doi.org/10.1017/prp.2018.23>
57. Zhang, B. and Xinguang, S. (2021). A study of chinese college students' english learning motivation. *Open Journal of Social Sciences*, 09(07), 273-279. <https://doi.org/10.4236/jss.2021.97019>
58. Zhang, T., Ma, L., & Liu, J. (2023). Influence mechanism of structural characteristics of interdisciplinary knowledge network on college students' innovation ability. *International Journal of Emerging Technologies in Learning (Ijet)*, 18(03), 51-66. <https://doi.org/10.3991/ijet.v18i03.38053>
59. Zhang, X. and Bartol, K. (2010). Linking empowering leadership and employee creativity: the influence of psychological empowerment, intrinsic motivation, and creative process engagement. *Academy of Management Journal*, 53(1), 107-128. <https://doi.org/10.5465/amj.2010.48037118>
60. Zheng, H., Meng, F., Guo, H., & Ying, Z. (2017). The study of interdisciplinary postgraduate cultivation mechanism. *Destech Transactions on Social Science Education and Human Science, (aems)*. <https://doi.org/10.12783/dtssehs/aems2017/8272>
61. Zuckerman, M., Lin, S., Alsalmi, F., & Li-Sauerwine, S. (2021). Narrative review of clinical productivity and teaching in emergency medicine. *Cureus*. <https://doi.org/10.7759/cureus.14309>