

# Fostering Innovative Work Behavior: Ethical Leadership, Psychological Safety, and Proactive Personality

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## Abstract

Innovation is vital for organizational success, driving socioeconomic change through new products, services, and business models. Employees, as key drivers of innovation, are encouraged to engage in innovative work behavior (IWB), which involves generating and implementing novel ideas to maintain a sustainable competitive advantage. The study explores the critical role of employee creativity and the factors influencing IWB, particularly in academic settings. Researchers argue that ethical leadership (EL) fosters a supportive environment that enhances IWB by valuing employee rights and dignity, thereby increasing productivity and innovation. EL's effectiveness, however, may vary based on contextual factors such as individual proactive personality, which influences how employees respond to leadership. Higher education institutions, facing globalization challenges, must promote IWB among academic staff to adapt to dynamic changes. This involves adopting new technologies, teaching methods and creating innovative research projects. Social exchange theory, social learning theory, and substitutes for leadership theory provide frameworks for understanding how EL impacts IWB. EL can enhance psychological safety, encouraging risk-taking and innovation, while proactive personality traits can substitute for leadership influence, driving innovation independently. This study contributes to the EL-IWB literature by examining the interplay of EL, psychological safety, and proactive personality in fostering IWB in academic settings.

**Keywords:** Ethical Leadership, Innovative Work Behavior, Psychological Safety, Proactive Personality.

## Introduction

In the current business environment, which is swiftly changing, innovation has become inextricably linked with the survival and success of an organisation (Hazem & Zehou, 2019). It is an important means by which contemporary organizations strive for excellence and competitiveness (Oei et al., 2024). According to Gomes, Pinho, & Lopes (2024), innovation not only results in the creation of new products, services, and business models, but it also

induces socioeconomic change. Employees are essential in this process as they are the main catalysts for innovation and ultimately determine an organization's sustainable competitive advantage (Spiegelaere, Gyes, & Hoote gem 2018). Employees are thus highly encouraged to participate in IWB since the success of organizations driven by innovation depends mostly on it (Bos-Nehles, Renkema, & Janssen, 2017). According to Rahim, Khalijah, Wan Nor Syazana, Fatanah, and Nurbarirah (2024), IWB is crucial for organizations globally.

The success of organizational innovation depends on employee creativity, which involves generating novel ideas, along with IWB, which encompasses both generating and implementing new ideas in the workplace (Martini, 2023; Volery & Tarabashkina, 2021; Scott & Bruce, 1994). This is due to the fact that people are in charge of creating, disseminating, responding to, and improving upon new ideas (Han, Ni, Hou & Zhang, 2023; Van de Ven, 1986). Thus, firms need to provide novel products and efficient, time-and money-saving procedures in order to grow and stay competitive (Zhang, 2022; Selamat & Zhang, 2019; Anderson, Potocnik, & Zhou, 2014). This is possible only if organizations monitor their employees' IWB (Mustafa, Coetzer, Ramos, & Fuhrer 2021; Cai, Lysova, Khapova, & Bossink, 2019). Since employees are an important source of innovation, the question becomes how to stimulate IWB, being employees' proactive behavior in creating and applying novel ideas at work (Volery & Tarabashkina, 2021). Nonetheless, comparatively little research has been done on the individual factors influencing employee creativity and IWB (Gomes et al., 2024).

The pursuit of innovation and creativity in universities has prompted researchers to investigate various factors influencing them (Khan, Jan, & Anwar, 2022). The competitive atmosphere within universities often places academic staff under the pressure of "publish or perish", highlighting the necessity of continuous publication to uphold academic significance (Khan et al., 2022). Nevertheless, there is a growing belief that this pressure can be counterproductive and should be substituted with a more positive approach like "publish and flourish" to cultivate a culture of growth and development (Lambovska & Todorova, 2021). To achieve this, universities should develop the IWB of academic staff by providing them with strong EL, which is effective in attaining leading aims focused on anticipated success (Musenze & Mayende, 2023). Since EL are thought to increase productivity by respecting the rights and dignity of their employees, EL has gained popularity in the higher education sector (Jia, Zhu, Zhang, Rasool, Asghar, & Chin, 2022). Empirical research on the linkages between EL and IWB in the higher education sector is gaining significant attention. In Pakistan (Khan, Khan & Jan, 2021); Uganda (Musenze & Mayende, 2023), China (Jia et al., 2022), United Kingdom (Purwanto, Purba & Sijabat, 2021), and Nigeria (Jibola, 2020), research studies have been conducted in variety of contexts and have produced a range of results. However, employees' IWB, which acts as an important employee outcome as well as a determinant of organizational survival (Curran & Walsworth, 2014), competitiveness, and long-term success (Ren & Zhang, 2015), has only received limited attention in EL literature (Ahmad, Gao, Su, & Khan, 2023).

The research by Tu and Lu (2013), and arguments from management scholars indicate a limited understanding of how EL influences employees' IWB (Ahmad et al., 2023). Previous studies have revealed that employees are more inclined to engage in innovative work when they feel encouraged to take risks without fear of negative consequences (Newman, Donohue, & Eva, 2017). Tu et al (2019), suggest that due to the risks and uncertainties

inherent in innovation, employees rely on their leaders to manage these challenges and prevent future repercussions. Effective EL, characterized by fostering honest relationships, promoting trust, and mutual respect, enhances employees' psychological safety, encouraging their participation in IWB (Walumbwa & Schaubroeck, 2009). This article aims to contribute to the EL-IWB literature by examining how employees perceive psychological safety in relation to their innovative behavior.

Furthermore, recent research suggests that EL may not always be as effective in certain situations, as indicated by studies conducted by (Babalola et al., 2019; and Gok et al., 2017). The effectiveness of EL could be contingent on various factors, such as an individual's proactive personality. Previous studies have highlighted the significance of employee's personality traits in shaping their responses to leadership practices Guenter et al (2017), emphasizing the importance of understanding the circumstances under which EL can have varying impacts on different individuals (Taylor & Pattie, 2015). This article is particularly important because it addresses the role of employees as catalysts for innovation, highlighting the need to encourage proactive behaviors, thus offering a deeper understanding of how leadership strategies can be adapted to cater individual differences. It offers valuable insights for leaders and organizations aiming to boost innovation through a leadership approach grounded in ethics and integrity. Such an approach not only fosters a competitive edge but also ensures that the innovations generated are sustainable and closely aligned with the organization's core values. In today's complex and competitive markets, integrating EL and IWB is not just beneficial but essential for achieving long-term success and sustainability. The subsequent sections of this article will discuss factors that foster IWB among academic staff.

### **The Role of Higher Education Institution**

Globalization has presented institutions in a variety of industries with obstacles over the last ten years, including increased performance standards (Rasdi et al. 2022). This is particularly true for the higher education sector, where university education is prioritised by governments all over the world (Qoraboyev, & Gimranova, 2021). Universities are part of the broader academic delivery system that performs fundamental functions of research and education (Zaremohzzabieh, et al., 2021; Žalėnienė & Pereira, 2021). They contribute significantly to the development of the country as academic and scientific organizations that propel social and economic progress (Bayuo Chaminade, & Go"ransson, 2020). Universities nowadays are expected to be innovative, self-sustainable and self-reliant (Khan et al., 2022). In the higher education sector, it is essential for academic staff to exhibit IWB in order to adapt to the ever-evolving changes and improvements in the field (Oke & Fernandes, 2020). This is because their responsibilities encompass both academic and administrative duties (Wahab et al., 2024). Academics should prioritize their academic responsibilities in order to introduce diversity to their respective fields creatively and innovatively (Khan et al., 2020). Consequently, one of the biggest challenges facing organisations today is helping employees develop and maintain their IWB (Al Wali et al., 2022). IWB can take various forms, such as adopting new technologies, implementing novel teaching methods, and creating innovative research projects (Asfar et al., 2021; Groselj et al., 2021). It involves persistently searching for new knowledge, investigating novel ideas, and trying out various strategies (Musneh & Roslin, 2021). This behavior is fundamental to the growth and development of the institution and the entire education system (Hosseini & Haghighi Shirazi, 2021).

**Social Exchange Theory, Social Learning Theory, and Substitutes for Leadership Theory**

EL is a crucial factor in promoting IWB among employees. According to social exchange theory (SET), the relationship between leaders and employees plays a significant role in fostering innovation. When employees trust their leaders and perceive them as ethical leaders, they are more likely to engage in innovative tasks with optimism (Guo, Jin, & Yim, 2023) and effort (Yu, Mai, Tsai, & Dai, 2018). The SET states that, when leaders provide their employees with pertinent resources, they establish an emotional bond that encourages employees to repay the favor (Li et al., 2019; Blau, 1964). EL plays a significant role in this context. Superiors who exhibit EL, offering support, respect, and integrity, foster a positive reciprocal relationship (Ahmad et al., 2023). When employees perceive their leaders as ethical, they are more likely to feel valued and supported, leading to increased confidence and willingness to engage in innovative behaviors (Khan et al., 2021). Consequently, staff will repay their superiors by becoming active members of the workplace and enhancing their creative thinking (Javed, Abdullah, Zaffar, ul Haque, & Rubab, 2019). Research indicated that EL leads to higher levels of employee engagement and job satisfaction, which are critical for fostering innovation (Kim & Park, 2020). Indeed, it has been suggested that the cooperation and support of superiors, as seen in EL, can enhance IWB among subordinates (Liu et al., 2023; Bannay & Hadi, 2020).

Additionally, Bandura's (1977), social learning theory (SLT) suggests that employees learn expected behaviors by observing their work environment and superiors as individuals tend to learn by watching others and imitating their behavior (Horsburgh & Ippolito, 2018). If an employee observes their superior engaging in IWB, they are more likely to adopt such behavior, seeing it as a role expectation (Wahab et al, 2024). EL enhances this learning by setting a positive example. Ethical leaders demonstrate behaviors that align with organizational values and goals, creating a model for employees (Kalshoven, & Den Hartog, De Hoogh 2011). This modelling is effective because ethical leaders are seen as credible and trustworthy, increasing the likelihood that employees will emulate their behaviors. Studies show that EL is positively associated with employees' willingness to take risks and pursue new ideas, as they feel secure and trusted in their work environment (Jia et al., 2022; Wen, Wu, & Long, 2021). Ethical leaders foster psychological safety, encouraging employees to experiment and innovate without fear of negative consequences, which is crucial for promoting IWB (Edmondson, 1999). Moreover, ethical leaders take accountability for their actions, clearly communicating organizational goals and expectations to their teams (Kalshoven et al., 2011). This transparency helps employees understand the importance of innovation and aligning personal goals with organizational goals.

Substitutes for leadership theory (Kerr & Jermier, 1978) suggests that employee, task, and organizational characteristics can moderate or replace the need for direct leadership. Based on this perspective, some contextual factors such as employees' characteristics can substitute or neutralize specific leader behavior by eliminating the need for leadership across situations (Gok et al., 2017). Employee characteristics like high intrinsic motivation, proactive behavior, and a strong commitment to ethical standards reduce the need for continuous ethical guidance from leaders. These employees naturally engage in innovative behaviors without needing direct relationship (Schmitt, Den Hartog, & Belschak, 2022). Proactive employees, in particular, take initiative and drive innovation themselves, further diminishing the need for leadership intervention (Kilic, & Gök, 2023; Jada, Mukhopadhyay, & Titiyal, 2019).

**Innovative Work Behavior**

IWB involves creating and implementing innovative ideas to improve task, group, or organizational performance (Li et al., 2019). Employees contribute to innovation by generating new ideas, sharing them, and working on their implementation (Choi, Kang, & Choi, 2021; Janssen, 2000). The innovation process includes three stages: idea generation, dissemination, and implementation. In the idea generation stage, employees identify opportunities or issues needing solutions (Vaiopoulou, & Stamovlasis, 2022). During idea dissemination, employees persuade others to adopt their innovative ideas by leveraging their expertise and forming supportive relationships (Coun, Edelbroek, Peters, & Blomme, 2021). The final stage, idea implementation involves turning these ideas into practical, evaluable actions (Gkontelos et al., 2022).

This article emphasized IWB, encompassing all three stages, as studies show these activities collectively contribute to innovation (Wang et al., 2015). While most IWB research (e.g. Zhou & George, 2001; Oldham & Cummings, 1996) focuses on idea generation, a holistic approach that includes all stages of IWB is more effective for fostering organizational innovation (Anderson et al., 2014). IWB is essential for initiating new ideas and processes within organizations, leading to new products, methods and management systems (Crossan & Apaydin, 2010). Innovative employees boost organizational performance and ensure long-term survival and competitiveness (Oldham & Cummings, 1996). According to Prameswari et al (2020), and Waheed et al (2017), IWB is crucial for achieving organizational goals.

Employee IWB is influenced by internal and external factors. Internal factors refer to personal characteristics, creativity and the ability to engage in innovation, and external factors include factors about work environment and the support of managers (Nguyen, 2022). Internal (individual) factors including problem-solving styles (Scott & Bruce, 1994), cognitive styles (Yang & Zhang, 2012), and openness to experience (Tan et al., 2019). As for external (organizational context-related) factors, such as organizational culture and climate (Scott & Bruce, 1994), leadership (Tu & Lu, 2013), human resource management (Alfes et al., 2013), and job characteristics (Oldham & Cummings, 1996).

**Ethical Leadership**

Leadership is fundamental for smooth functioning and success of any organization (Manzoor, Zhang, & Ma 2023). It guides employees toward achieving corporate goals while fostering an environment conducive to innovation and job satisfaction (Bunkaewsuk et al., 2024). Leaders shape the workplace atmosphere and are seen as role models and providers of a nurturing work environment. This role includes offering support, inspiration, and resources for employees to thrive, highlighting the importance of effective leadership in cultivating a positive organizational culture (Bunkaewsuk et al., 2024).

Effective leaders create an innovative environment by fostering a supportive and encouraging atmosphere, significantly influencing employees' willingness to engage in innovative practices, embrace creativity, and take calculated risks (Bunkaewsuk et al., 2024). Leadership is thus a crucial research topic across disciplines such as management, history, communication, and psychology (Rast et al., 2018). Leadership has been defined in various ways. Ndalamba, Caldwell and Anderson (2018), described it as influencing employees

through ethical and moral duties, cognitive abilities, and actionable plans. Ekstrand et al (2018), define it as the ability to influence the employees to achieve the goals and facilitate an organizational environment conducive to those goals.

Recently, there has been increased attention on the ethical behavior of leaders due to corporate scandals and ethical failures. EL is crucial as it helps prevent scandals and promotes ethical practices (Waldman et al., 2017). Leaders are expected to act as role models and any failure in this regard can harm the organization (De Hoogh & Den Hartog, 2008). Research shows EL's usefulness beyond ethical outcomes (Walumbwa, Hartnell, & Misati, 2017) enhancing organizational citizenship behavior, performance, commitment, and creativity (Taylor and Pattie, 2015). Ethical leaders, being honest, trustworthy, and caring are positively perceived by employees, who see this as organization support, viewing themselves as valued assets (Qi et al., 2019). Such positive feelings predict behavior including IWB (Musenze & Mayende, 2023; Ahmed et al 2021; Ahmed et al., 2020). Since IWB involves idea exploration, generation and implementation (Arain et al., 2020), ethical leaders can motivate and stimulate employees to search for, create and implement innovative ideas (Ahmad et al., 2023).

### **Psychological Safety**

Psychological safety refers to a state there is no risk or uncertainty associated with voicing opinion, proposing new ideas, or solutions (Edmondson, Kramer, & Cook, 2004). Tu et al (2019), argues that given the inherent risks and uncertainties of innovation, employees rely on their leaders to manage these risks and prevent negative consequences. A psychological safe environment is characterized by high interpersonal trust and mutual respect, allowing people to express their differences and propose new ideas (Walumbwa & Schaubroeck, 2009) without fear of embarrassment or criticism (Edmondson et al., 2004). Employees who feel psychologically safe are less fearful of negative repercussions when taking risks or presenting their opinions, encouraging them to engage in innovative activities (Liu et al., 2023). Edmondson et al (2004), identify three behaviors that leaders can promote to enhance psychological safety: being available and approachable, soliciting team members' opinions and feedback, and modelling openness and fallibility.

Ethical leaders, by interacting with employees with honesty and openness, foster mutual respect and trust among leader and followers (Walumbwa & Schaubroeck, 2009). They show genuine concern for their employees, respect their interests, and provide both instrumental and emotional support (Tu et al., 2019). Ethical leaders play a crucial role in building respect and mutual trust within organization (Shafique, Ahmad, Kalyar, 2020; Tu et al., 2019), contributing to a climate of psychological safety (Men, Fong, Huo, Zhong, Jia, & Luo, 2020). Additionally, ethical leaders are perceived as altruism, upholding high ethical standards, honesty, and commitment. This perception makes employees feel more secure in sharing new ideas within the organization (Kalyar, Usta, & Shafique 2020; Shafique et al., 2020). Therefore, EL is essential for promoting employees' psychological safety and encouraging IWB.

### **Proactive Personality**

Proactive individuals are more likely to initiate behaviors to solve work-related problems without waiting for a leader's instructions (Li, Chen, & Crant, 2022; Bateman & Crant, 1993).

In contrast, less proactive individuals tend to seek leadership direction before taking initiatives and engaging in risk-taking tasks (Guenter et al., 2017). A proactive personality is characterized by the tendency to take the initiative to influence one's environment and improve current circumstances (Crant, 2000; Bateman & Crant, 1993). This aligns with the goals of proactive individuals, who seek to create positive changes and remove inefficiencies, thereby continuously improving and shaping their environment (Kim, Cable, & Kim, 2005).

Innovative behavior often results in difficulties with detachment from innovation-related tasks for employees with high levels of proactivity (Ng & Wang, 2019). Proactive individuals tend to depend less on leader instructions and thus serve as substitute for perceived EL (Ahmad et al., 2023). As a result, these employees frequently engage in risk-taking activities like IWB without needing motivation from ethical leaders (Li et al., 2022; Bateman & Crant, 1993), unlike their less proactive counterparts (Guenter et al., 2017). Such proactive employees are not easily influenced by situational constraints and are inclined to take initiative and engage in risky actions (Guenter et al., 2017). Therefore, the perceived EL has minimal influence on their risk-taking behaviors like IWB.

### **Conclusion**

In conclusion, innovation has become a cornerstone for organizational success and survival in today's dynamic business environment. Employees are pivotal in driving innovation, necessitating a focus on their IWB. While IWB involves idea generation, dissemination, and implementation, its effectiveness hinges on various internal and external factors, including leadership style. EL plays a significant role in fostering a supportive environment that encourages psychological safety, essential for promoting IWB. Ethical leaders build trust and mutual respect, reducing the fear of taking risks and enabling employees to voice and implement new ideas without fear of negative repercussions. However, the influence of EL on IWB is not universal and can be moderated by individual traits like proactive personality. Proactive individuals, who are self-driven and less reliant on leader direction, may exhibit high levels of IWB regardless of EL, acting as substitutes for leadership. Conversely, employees with lower proactive tendencies might require the motivation and support provided by ethical leaders to engage in innovative behaviors. In the context of higher education, particularly in Malaysia, fostering IWB among academic staff is critical for institutions to remain competitive and innovative. The role of universities in driving social and economic advancement underscores the need for strong EL to cultivate an environment where academic staff can thrive and contribute to institutional innovation. Empirical studies across diverse cultural settings affirm the importance of EL in enhancing IWB, although the interplay of psychological safety and proactive personality requires further exploration. Overall, the integration of EL, psychological safety, and proactive personality into organizational practices can significantly enhance IWB, thereby ensuring sustained organizational growth and competitiveness in the evolving business landscape.

## References

- Ahmad, I., Gao, Y., Su, F., & Khan, M. K. (2023). Linking ethical leadership to followers' innovative work behavior in Pakistan: the vital roles of psychological safety and proactive personality. *European Journal of Innovation Management*, 26(3), 755-772.
- Ahmed, I., Islam, T., Abdul Rasid, S.Z., Anwar, F. and Khalid, A. (2020), "As you sow, so shall you reap: finding customer-based outcomes of socially responsible coffee cafés", *British Food Journal*, Vol. 122 No. 9, pp. 3009-3026.
- Ahmed, I., Islam, T., Ahmad, S. and Kaleem, A. (2021), "A COVID-19 contextual study of customers' mistreatment and counterproductive work behavior at coffee cafés", *British Food Journal*, doi: 10.1108/BFJ-07-2020-0664.
- Al Wali, J., Muthuveloo, R., Teoh, A.P. and Al Wali, W. (2022), "Disentangling the relationship between employees' dynamic capabilities, innovative work behavior and job performance in public hospitals", *International Journal of Innovation Science*, doi: 10.1108/IJIS-01-2022- 0012.
- Alfes, K., Truss, C., Soane, E. C., Rees, C., & Gatenby, M. (2013). The relationship between line manager behavior, perceived HRM practices, and individual performance: Examining the mediating role of engagement. *Human Resource Management*, 52(6), 839–859. <https://doi.org/10.1002/hrm.21512>
- Anderson, N., Potocnik, K., & Zhou, J. (2014). Innovation and creativity in organizations: A state-of-the-science review, prospective commentary, and guiding framework. *Journal of management*, 40(5), 1297-1333. doi: 10.1177/0149206314527128.
- Arain, G. A., Bhatti, Z. A., Hameed, I., & Fang, Y. H. (2020). Top-down knowledge hiding and innovative work behavior (IWB): a three-way moderated-mediation analysis of self-efficacy and local/foreign status. *Journal of Knowledge Management*, 24(2), 127-149.
- Babalola, M. T., Stouten, J., Camps, J. and Euwema, M. (2019), "When do ethical leaders become less effective? The moderating role of perceived leader ethical conviction on employee discretionary reactions to ethical leadership", *Journal of Business Ethics*, Vol. 154 No. 1, pp. 85-102.
- Bandura, A. (1977). *Social learning theory*. Prentice Hall.
- Bannay, D. F., & Hadi, M. J. (2020). The role of authentic leadership in influencing psychological well-being at work exploring the mediating role of perceived job security. *Journal of Managerial Psychology*, 36(6), 1-20.
- Bateman, T. S., & Crant, J. M. (1993). The proactive component of organizational behavior: A measure and correlates. *Journal of organizational behavior*, 14(2), 103-118.
- Bayuo, B., Chaminade, C., & Go`ransson, B. (2020). Unpacking the role of universities in the emergence, development and impact of social innovations: A systematic review of the literature. *Technological Forecasting and Social Change*, 155, 120030. <https://doi.org/10.1016/j.techfore.2020.120030>
- Blau, P. (1964). *Exchange and power in social life*. Wiley.
- Bos-Nehles, A., Renkema, M., & Janssen, M. (2017). HRM and innovative work behaviour: a systematic literature review. *Personnel Review*, 46(7), 1228-1253. <https://doi.org/10.1108/pr-09-2016-0257>
- Bunkaewsuk, P., Uppathampracha, R., Peng, B., & Anwar, M. (2024). uNPACKING THE RELATIONSHIP BETWEEN ETHICAL LEADERSHIP AND INNOVATIVE WORK BEHAVIOR: A MODERATED MEDIATION MODEL.



- Cai, W., Lysova, E. I., Khapova, S. N., & Bossink, B. A. G. (2019). Does entrepreneurial leadership foster creativity among employees and teams? The mediating role of creative efficacy beliefs. *Journal of Business and Psychology*, 34(2), 203–217. <https://doi.org/10.1007/s10869-018-9536-y>
- Chankseliani, M., Qoraboyev, I., & Gimranova, D. (2021). Higher education contributing to local, national, and global development: New empirical and conceptual insights. *Higher Education*, 81, 109–127. <https://doi.org/10.1007/s10734-020-00565-8>
- Choi, W. S., Kang, S. W., & Choi, S. B. (2021). Innovative behavior in the workplace: An empirical study of moderated mediation model of self-efficacy, perceived organizational support, and leader-member exchange. *Behavioral Sciences*, 11(12), 182. <https://doi.org/10.3390/bs11120182>
- Coun, M. J. H., Edelbroek, R., Peters, P., & Blomme, R. J. (2021). Leading innovative work-behavior in times of COVID-19: Relationship between leadership style, innovative work-behavior, work-related flow, and IT-enabled presence awareness during the first and second wave of the COVID-19 pandemic. *Frontiers in Psychology*, 12, 717345. <https://doi.org/10.3389/fpsyg.2021.717345>
- Crant, J. M. (2000). Proactive behavior in organizations. *Journal of management*, 26(3), 435-462.
- Crossan, M. M., & Apaydin, M. (2010). A multi-dimensional framework of organizational innovation: A systematic review of the literature. *Journal of management studies*, 47(6), 1154-1191.
- Curran, B., & Walsworth, S. (2014). Can you pay employees to innovate? Evidence from the Canadian private sector. *Human Resource Management Journal*, 24(3), 290-306.
- De Hoogh, A. H., & Den Hartog, D. N. (2008). Ethical and despotic leadership, relationships with leader's social responsibility, top management team effectiveness and subordinates' optimism: A multi-method study. *The Leadership Quarterly*, 19(3), 297-311. doi: <https://doi.org/10.1016/j.leaqua.2008.03.002>
- De Spiegelaere, S., Van Gyes, G. and Van Hootegeem, G. (2018), "Innovative work behaviour and performance-related pay: rewarding the individual or the collective?", *The International Journal of Human Resource Management*, Vol. 29 No. 12, pp. 1900-1919.
- Edmondson AC. 1999. Psychological safety and learning behavior in work teams. *Adm. Sci. Q.* 44(2):350–83
- Edmondson, A. C., Kramer, R. M., and Cook, K. S. (2004), "Psychological safety, trust, and learning in organizations: a group-level lens", *Trust and Distrust in Organizations: Dilemmas and Approaches*, Vol. 12, pp. 239-272.
- Ekstrand, J., Lundqvist, D., Lagerback, L., Vouillamoz, M., Papadimitiou, N., & Karlsson, J. (2018). Is there a correlation between coaches' leadership styles and injuries in elite football teams? A study of 36 elite teams in 17 countries. *British Journal of Sports Medicine*, 52(8), 527-531. doi: <https://doi.org/10.1136/bjsports-2017-098001>
- Gkontelos, A., Vaiopoulou, J., & Stamovlasis, D. (2022). Teachers' innovative work behavior scale: Psychometric properties of the Greek version and measurement invariance across genders. *Social Sciences*, 11(7), 306. <https://doi.org/10.3390/socsci11070306>
- Gok, K., Sumanth, J. J., Bommer, W. H., Demirtas, O., Arslan, A., Eberhard, J. and Yigit, A. (2017), "You may not reap what you sow: how employees' moral awareness minimizes ethical leadership's positive impact on workplace deviance", *Journal of Business Ethics*, Vol. 146 No. 2, pp. 257-277.

- Gomes, S., Pinho, M., & Lopes, J. M. (2024). From environmental sustainability practices to green innovations: Evidence from small and medium-sized manufacturing companies. *Corporate Social Responsibility and Environmental Management*, 31(3), 1677-1687.
- Groselj, M., Cerne, M., Penger, S. and Grah, B. (2021), "Authentic and transformational leadership and innovative work behaviour: the moderating role of psychological empowerment", *European Journal of Innovation Management*, Vol. 24 No. 3, pp. 677-706, doi: 10.1108/EJIM-10-2019-0294.
- Guenter, H., Schreurs, B., van Emmerik, I. H., & Sun, S. (2017). What does it take to break the silence in teams: authentic leadership and/or proactive followership? *Applied Psychology*, 66(1), 49-77.
- Guo, Y., Jin, J., & Yim, S. H. (2023). Impact of inclusive leadership on innovative work behavior: The mediating role of job crafting. *Administrative Sciences*, 13(1), 4. <http://doi.org/10.3390/admsci13010004>
- Hazem, S. M., & Zehou, S. (2019, August). Organizational culture and innovation: A literature review. In *2019 3rd International Conference on Education, Culture and Social Development (ICECSD 2019)* (pp. 465-472). Atlantis Press.
- Horsburgh, J., & Ippolito, K. (2018). A skill to be worked at: Using social learning theory to explore the process of learning from role models in clinical settings. *BMC Medical Education*, 18, 156. <https://doi.org/10.1186/s12909-018-1251-x>
- Hosseini, S., & Haghighi Shirazi, Z. R. (2021). Towards teacher innovative work behavior: A conceptual model. *Cogent Education*, 8(1), 1869364. <https://doi.org/10.1080/2331186X.2020.1869364>
- Jada, U. R., Mukhopadhyay, S., & Titiyal, R. (2019). Empowering leadership and innovative work behavior: A moderated mediation examination. *Journal of Knowledge Management*, 23, 915–930.
- Janib, J., Mohd Rasdi, R., Omar, Z., Alias, S. N., Zaremohzzabieh, Z., & Ahrari, S. (2021). The relationship between workload and performance of research university academics in Malaysia: The mediating effects of career commitment and job satisfaction. *Asian Journal of University Education*, 17(2), 85–99.
- Janssen, O. (2000). Job demands, perceptions of effort-reward fairness and innovative work behaviour. *Journal of Occupational and Organizational Psychology*, 73(3), 287-302.
- Javed, B., Abdullah, I., Zaffar, M. A., ul Haque, A., & Rubab, U. (2019). Inclusive leadership and innovative work behavior: The role of psychological empowerment. *Journal of Management & Organization*, 25(4), 554–571. <https://doi.org/10.1017/jmo.2018.50>
- Jia, K., Zhu, T., Zhang, W., Rasool, S. F., Asghar, A., Chin, T. (2022). The Linkage between Ethical Leadership, Well-Being, Work Engagement, and Innovative Work Behavior: The Empirical Evidence from the Higher Education Sector of China. *Int. J. Environ. Res. Public Health*, 19, 5414. <https://doi.org/10.3390/ijerph19095414>
- Jibola, A. N. (2020). Ethical leadership and staff innovative behaviour in nigeria. *Journal of Social Sciences and Humanities*, 59(1)
- Kalshoven, K., Den Hartog, D. N., & De Hoogh, A. (2011). Ethical leadership at work questionnaire (ELW): Development and validation of a multidimensional measure. *The Leadership Quarterly*, 22, 51-69.
- Kalyar, M. N., Usta, A., Shafique, I. (2020). When ethical leadership and LMX are more effective in prompting creativity. *Balt. J. Manag.*, 15, 61–80.

- Kerr, S., & Jermier, J. M. (1978). Substitutes for leadership: Their meaning and measurement. *Organizational behavior and human performance*, 22(3), 375-403.
- Khan, A., Khan, M. A., & Jan, S. A. (2021). Nexuses Of Ethical Leadership, Job Satisfaction and Job Performance in Academia of Khyber Pakhtunkhwa Pakistan. *Gomal University Journal of Research*, 37(2), 179–194
- 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.
- Kilic, E., & Gok, M. S. (2023). Employee proactivity and proactive initiatives towards creativity: exploring the roles of job crafting and initiative climate. *International Journal of Organizational Analysis*, 31(6), 2492-2506.
- Kim, E. J., & Park, S. (2020). Transformational leadership, knowledge sharing, organizational climate and learning: an empirical study. *Leadership & organization development journal*, 41(6), 761-775.
- Kim, T. Y., Cable, D. M., & Kim, S. P. (2005). Socialization tactics, employee proactivity, and person-organization fit. *Journal of Applied Psychology*, 90(2), 232.
- Lambovska, M., & Todorova, D. (2021). 'Publish and Flourish' instead of 'Publish or Perish': A Motivation Model for Top-quality Publications. *Journal of Language and Education*, 7(1), 141-155. <https://doi.org/10.17323/jle.2021.11522>
- Li, C. J., Li, F., Chen, T., & Crant, J. M. (2022). Proactive personality and promotability: Mediating roles of promotive and prohibitive voice and moderating roles of organizational politics and leader-member exchange. *Journal of business research*, 145, 253-267.
- Li, H., Sajjad, N., Wang, Q., Muhammad Ali, A., Khaqan, Z., & Amina, S. (2019). Influence of transformational leadership on employees' innovative work behavior in sustainable organizations: Test of mediation and moderation processes. *Sustainability*, 11(6), 1594. <https://doi.org/10.3390/su11061594>
- Liu, X., Huang, Y., Kim, J., & Na, S. (2023). How ethical leadership cultivates innovative work behaviors in employees? Psychological safety, work engagement and openness to experience. *Sustainability*, 15(4), 3452.
- Manzoor, A., Zhang, B., & Ma, H. (2023). Knowledge-Oriented Leadership in Powering Team Performance and Sustainable Competitive Advantages through Innovation: Evidence from Higher Education Institutions. *Sustainability*, 15(20), 14715.
- Martini, N. (2023). The effect of transactional leadership and transformational leadership on innovative behavior., 645-654. [https://doi.org/10.2991/978-94-6463-146-3\\_60](https://doi.org/10.2991/978-94-6463-146-3_60)
- Men, C., Fong, P. S. W., Huo, W., Zhong, J., Jia, R., Luo, J. (2020). Ethical leadership and knowledge hiding: A moderated mediation model of psychological safety and mastery climate. *J. Bus. Ethics*, 166, 461–472.
- Mohd Rasdi, R., Tauhed, S. Z., Zaremohzzabieh, Z., & Ahrari, S. (2022). Determinants of research performance of university academics and the moderating and mediating roles of organizational culture and job crafting. *European Journal of Training and Development*. Advance online publication. <https://doi.org/10.1108/EJTD-11-2021-0192>
- Musenze, I. A., & Mayende, T. S. (2023). Ethical leadership (EL) and innovative work behavior (IWB) in public universities: examining the moderating role of perceived organizational support (POS). *Management Research Review*, 46(5), 682-701.

- Musneh, S. N. H., & Roslin, R. M. (2021). The effect of innovative work behaviour on the performance of service sector SMEs in Sabah. *Journal of International Business, Economics and Entrepreneurship*, 6(1), 20-20.
- Mustafa, M., Coetzer, A., Ramos, H. and Fuhrer, J. (2021). Exploring the effects of small-and medium-sized enterprise employees' job satisfaction on their innovative work behaviours: the moderating effects of personality. *Journal of Organizational Effectiveness*, Vol 8 NO 2, pp 228-250, doi:10.1108/JOEPP-07-2020-0133.
- Ndalamba, K. K., Caldwell, C., & Anderson, V. (2018). Leadership vision as a moral duty. *Journal of Management Development*, 37(3), 309-319.
- Newman, A., Donohue, R. and Eva, N. (2017), "Psychological safety: a systematic review of the literature", *Human Resource Management Review*, Vol. 27 No. 3, pp. 521-535.
- Ng, T. W., & Wang, M. (2019). An actor-partner interdependence model of employees' and coworkers' innovative behavior, psychological detachment, and strain reactions. *Personnel Psychology*, 72(3), 445-476.
- Nguyen, T. P. L. (2022), "Factors affecting innovative behavior of Vietnamese enterprises employees", *International Journal of Innovation Science*, doi: 10.1108/IJIS-09-2021-0166.
- Oei, M. W., Pasinringi, S. A., Sidin, A. I., Noor, N. B., & Rivai, F. (2024). The Influence of Organizational Culture and Group Climate on Innovation Readiness at Hasanuddin University Hospital. *Pharmacognosy Journal*, 16(1).
- Oke, A., & Fernandes, F. A. P. (2020). Innovations in teaching and learning: Exploring the perceptions of the education sector on the 4th industrial revolution (4IR). *Journal of Open Innovation: Technology, Market, and Complexity*, 6(2), 31.
- Oldham, G., & Cummings, A. (1996). Employee creativity: Personal and contextual factors at work. *Academy of Management Journal*, 39(3), 607-634.
- Prameswari, M., Asbari, M., Purwanto, A., Ong, F., Kusumaningsih, S. W., Mustikasiwi, A., ... & Sopa, A. (2020). The impacts of leadership and organizational culture on performance in Indonesian public health: The mediating effects of innovative work behavior. *International Journal of Control and Automation*, 13(2), 216-227.
- Purwanto, A., Purba, J. T., & Sijabat, R. (2021). The Role of Transformational Leadership, Organizational Citizenship Behaviour, Innovative Work Behaviour, Quality Work Life, Digital Transformation and Leader Member Exchange on Universities Performance. Organizational Citizenship Behaviour, Innovative Work Behaviour, Quality Work Life, Digital Transformation and Leader Member Exchange on Universities Performance (December 17, 2021).
- Qi, L., Liu, B., Wei, X., & Hu, Y. (2019). Impact of inclusive leadership on employee innovative behavior: Perceived organizational support as a mediator. *PloS one*, 14(2), e0212091.
- Rahim, R. A., Khalijah, M. N., Wan Nor Syazana, W. H, Fatanah, J., & Nurbarirah, A. (2024). Innovative Work Behaviour: A Bibliometric Analysis and Future Research Directions. *Global Business and Management Research: An International Journal*, 16 (2s), 696 – 704
- Rast III, D. E., Hogg, M. A., & Randsley de Moura, G. (2018). Leadership and social transformation: The role of marginalized individuals and groups. *Journal of Social Issues*, 74(1), 8-19.
- Ren, F., & Zhang, J. (2015). Job stressors, organizational innovation climate, and employees' innovative behavior. *Creativity Research Journal*, 27(1), 16-23.

- Schmitt, A., Den Hartog, D. N., & Belschak, F. D. (2022). Understanding the initiative paradox: the interplay of leader neuroticism and follower traits in evaluating the desirability of follower proactivity. *European Journal of Work and Organizational Psychology, 31*(2), 186-199.
- Scott, S. G., & Bruce, R. A. (1994). Determinants of innovative behavior: A path model of individual innovation in the workplace. *Academy of Management Journal, 37*(3), 580–607. <https://doi.org/10.2307/256701>
- Selamat, M. H. and Zhang, Y. (2019). Organizational climate and knowledge sharing towards employees' innovative behavior in design industry. *International Journal of Business and Management, 14*(9), 76. <https://doi.org/10.5539/ijbm.v14n9p76>
- Shafique, I., Ahmad, B., & Kalyar, M. N. (2020). How ethical leadership influences creativity and organizational innovation: Examining the underlying mechanisms. *European Journal of Innovation Management, 23*(1), 114-133.
- Tan, C.-S., Lau, X.-S., Kung, Y.-T., & Kailsan, R. A. L. (2019). Openness to experience enhances creativity: The mediating role of intrinsic motivation and the creative process engagement. *Journal of Creative Behavior, 53*(1), 109–119. <https://doi.org/10.1002/jocb.170>
- Taylor, S. G., and Pattie, M. W. (2015), "When does ethical leadership affect workplace incivility? The moderating role of follower personality", *Business Ethics Quarterly, Vol. 24* No. 4, pp. 595-616.
- Tu, Y., Lu, X., Choi, J. N., and Guo, W. (2019), "Ethical leadership and team-level creativity: mediation of psychological safety climate and moderation of supervisor support for creativity", *Journal of Business Ethics, Vol. 159* No. 2, pp. 551-565.
- Tu, Y. D., and Lu, X. X., (2013), "How ethical leadership influence employees' innovative work behavior: a perspective of intrinsic motivation", *Journal of Business Ethics, Vol. 116* No. 2, pp. 441-455.
- Van de Ven, A. H. (1986). Central Problems in the Management of Innovation. *Management Science, 32*, 590-607. <https://doi.org/10.1287/mnsc.32.5.590>
- Volery, T., & Tarabashkina, L. (2021). The impact of organisational support, employee creativity and work centrality on innovative work behaviour. *Journal of Business Research, 129*, 295-303.
- Wahab, F. A., Subramaniam, A., Ho, J. A., & Bali Mahomed, A. S. (2024). Augmenting Effect of Inclusive and Ambidextrous Leadership on Public University Academic Staffs' Innovative Performance: The Mediating Role of Innovative Work Behavior. *SAGE Open, 14*(1), 21582440241232761.
- Waheed, A., Xiao-Ming, M., Ahmad, N., & Waheed, S. (2017, August). Impact of work engagement and innovative work behavior on organizational performance; moderating role of perceived distributive fairness. In *2017 International Conference on Management Science and Engineering (ICMSE)* (pp. 127-133). IEEE.
- Waldman, D., Wang, D., Hannah, S. and Balthazard, P. (2017), "A neurological and ideological perspective of ethical leadership", *Academy of Management Journal, Vol. 60* No. 4, pp. 1285-1306.
- Walumbwa, F. O., and Schaubroeck, J. (2009), "Leader personality traits and employee voice behavior: mediating roles of ethical leadership and work group psychological safety", *Journal of Applied Psychology, Vol. 94* No. 5, pp. 1275-1286.

- Walumbwa, F. O., Hartnell, C. A., and Misati, E. (2017), "Does ethical leadership enhance group learning behavior? Examining the mediating influence of group ethical conduct, justice climate, and peer justice", *Journal of Business Research*, Vol. 72, pp. 14-23.
- Wang, Fang, Qureshi, & Janssen. (2015). Understanding employee innovative behavior: Integrating the social network and leader–member exchange perspectives. *36(3)*, 403-420.
- Wen, Q., Wu, Y., & Long, J. (2021). Influence of ethical leadership on employees' innovative behavior: The role of organization-based self-esteem and flexible human resource management. *Sustainability*, *13(3)*, 1359.
- Yang, F., & Zhang, L. (2012). The impact of cognitive style on innovative behavior: The moderating role of team psychological safety and work unit structure. *Nankai Business Review*, *15(5)*, 13–25. <https://doi.org/10.3969/j.issn.1008-3448.2012.05.003>
- Yu, M.-C., Mai, Q., Tsai, S.-B., & Dai, Y. (2018). An empirical study on the organizational trust, employee-organization relationship and innovative behavior from the integrated perspective of social exchange and organizational sustainability. *Sustainability*, *10(3)*, 864. <https://doi.org/10.3390/su10030864>
- Zaleniene, I., & Pereira, P. (2021). Higher education for sustainability: a global perspective. *Geography and Sustainability*, *2(2)*, 99–106
- Zhang, W. (2022). Mechanism of inclusive leadership on employee innovation behavior: a moderated mediation. *Proceedings of the 2022 3rd International Conference on Mental Health, Education and Human Development (MHEHD 2022)*. <https://doi.org/10.2991/assehr.k.220704.196>
- Zhou, J., & George, J. (2001). When job dissatisfaction leads to creativity: Encouraging the expression of voice. *Academy of Management Journal*, *44(4)*, 682-696.