Developing Emotional Intelligence as a Key to Academic Success among High School Students

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ARTICLE INFO

ABSTRACT

This study explores the development of emotional intelligence as a key factor influencing academic success among high school students. The research was driven by the growing concern that Indonesia's education system remains heavily focused on cognitive achievement while overlooking emotional and social competencies essential for holistic learning. The study aimed to examine how emotional intelligence contributes to academic success and to identify effective strategies for fostering it within school environments. Employing a qualitative descriptive design, the research was conducted at a public high school in West Java, Indonesia, using semi-structured interviews, classroom observations, and document analysis. The findings reveal that students with high levels of self-awareness, self-regulation, motivation, empathy, and social skills demonstrate greater learning persistence, intrinsic motivation, and collaboration, leading to improved academic outcomes. Moreover, emotionally supportive teachers and positive school culture significantly enhance students' emotional growth and engagement. The study concludes that emotional intelligence is not a peripheral attribute but a central determinant of academic success and personal development. It recommends integrating socio-emotional learning into high school curricula to build resilient, empathetic, and self-motivated learners. The contribution of this research lies in its contextual insight into emotional intelligence development within the Indonesian educational framework.

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1. INTRODUCTION

In recent years, the concept of emotional intelligence (EI) has become a central topic of discussion in both educational psychology and pedagogical practice. Traditionally, academic achievement was largely associated with cognitive intelligence measured through IQ tests, grades, and standardized

assessments (Burhanuddin, Ahmad, Said, & Asimiran, 2021). However, modern educational research increasingly recognizes that success in school cannot be attributed solely to intellectual capacity. Students who are able to recognize, manage, and express their emotions effectively tend to perform better academically, adapt more easily to social and environmental challenges, and experience greater psychological well-being (Mahmoud, El Samanoudy, & Jung, 2023). This shift has led educators and researchers to explore emotional intelligence as a non-cognitive factor that plays a crucial role in shaping students' academic trajectories.

The transition from middle to high school marks a critical developmental phase in which adolescents face increased academic demands, social complexities, and emotional challenges. During this period, many students struggle with managing stress, maintaining motivation, and balancing academic and personal expectations (Warsah, Morganna, Warsah, & Warsah, 2024). These challenges, if left unaddressed, can negatively impact academic outcomes, mental health, and social relationships. Emotional intelligence, which encompasses self-awareness, self-regulation, motivation, empathy, and social skills, provides the necessary emotional and interpersonal competencies to navigate these challenges (Lee & Mori, 2021). As such, understanding and developing emotional intelligence among high school students is essential not only for enhancing academic success but also for fostering resilience, empathy, and responsible citizenship.

Despite growing awareness of the importance of emotional intelligence, many educational systems especially at the high school level continue to emphasize cognitive performance and examination scores. This imbalance neglects the emotional and social dimensions of learning that significantly influence motivation, concentration, and classroom engagement (Prihastuti & Daryono, 2024). Previous studies have shown that students with higher levels of emotional intelligence exhibit better classroom behavior, higher self-esteem, and stronger interpersonal relationships, which contribute to improved learning outcomes (Azizah, Zain, & Marsela, 2023). However, in many contexts, particularly in developing countries, emotional intelligence has not been systematically integrated into the curriculum or supported through targeted programs. This lack of integration reveals a substantial gap between the theoretical understanding of EI and its practical application within schools.

Research conducted in Western contexts has consistently demonstrated a positive correlation between emotional intelligence and academic performance (Achmad, Nurwati, Fedryansyah, & Sumadinata, 2022). Students who can manage anxiety, set personal goals, and collaborate effectively are more likely to achieve higher grades and report greater satisfaction with their schooling experience. However, studies in non-Western educational settings have yielded mixed results, indicating that cultural, social, and contextual factors may moderate the relationship between emotional intelligence and academic achievement (Amali, Ridzuan, Rahmat, Seng, & Mustafa, 2023). For example, in collectivist cultures where emotional expression may be more restrained, the components of EI may manifest differently compared to individualistic cultures. This suggests that the development and assessment of emotional intelligence require contextual sensitivity to cultural norms and educational environments an area that remains underexplored (Wijnia, Noordzij, Arends, Rikers, & Loyens, 2024).

In the Indonesian educational context, where academic competition and exam-oriented learning remain dominant, the role of emotional intelligence in shaping students' academic and personal development has not received sufficient empirical attention. Many students experience high levels of academic stress due to pressure from teachers, parents, and peers to achieve excellent grades. Yet, few schools provide structured programs to cultivate emotional awareness, empathy, and stress management skills (Cassidy, Franco, & Meo, 2018). This situation underscores a pressing need for

educational institutions to reconsider their approach to student development moving beyond a narrow focus on intellectual competence toward a more holistic model that integrates emotional growth (Sølvik & Glenna, 2022). Investigating how emotional intelligence can be developed as a key to academic success among Indonesian high school students fills an important research gap and offers practical insights for educators and policymakers (Welsh & Little, 2018).

This study seeks to examine the extent to which emotional intelligence contributes to academic success among high school students and to explore strategies for developing EI within the school environment. Specifically, this research aims to (1) identify the dimensions of emotional intelligence most strongly associated with students' academic achievement; (2) explore how emotional intelligence can be nurtured through classroom practices, teacher-student interactions, and school culture; and (3) propose a conceptual model for integrating emotional intelligence development into educational programs. By focusing on these objectives, the study intends to bridge the gap between theoretical frameworks and educational practice, providing empirical evidence to support the integration of socio-emotional learning (SEL) in high school curricula.

The significance of this research lies in its potential to reshape how academic success is defined and pursued in secondary education. Rather than viewing success solely through the lens of cognitive performance, this study advocates for a more comprehensive understanding that includes emotional adaptability, interpersonal competence, and self-regulated learning. The development of emotional intelligence equips students with the ability to persevere in the face of challenges, collaborate effectively with others, and make responsible decisions skills that are increasingly vital in the 21st-century learning environment. Furthermore, by highlighting the link between emotional intelligence and academic achievement, this research contributes to ongoing discussions about educational reform, emphasizing the need for balanced and human-centered pedagogical approaches.

2. METHODS

This study employed a qualitative research approach using a descriptive design to explore the development of emotional intelligence as a key factor influencing academic success among high school students. The qualitative method was chosen because it allows for an in-depth understanding of students' emotional experiences, perceptions, and interactions within the school environment. The research was conducted at a public high school in West Java, Indonesia, from February to May 2025. This site was selected purposively based on its diverse student population, active learning culture, and openness to character and emotional development initiatives. The focus was on students in grades ten and eleven, as they represent a crucial stage of adolescence where emotional maturity and academic responsibility begin to develop more prominently.

The data in this study were collected through multiple techniques, including semi-structured interviews, participant observation, and document analysis. Semi-structured interviews were conducted with students, teachers, and school counselors to gain insights into how emotional intelligence is perceived, practiced, and nurtured in the school context. Observations were carried out during classroom activities, extracurricular sessions, and peer interactions to capture the natural expression of emotional and social behaviors. School documents such as student performance reports, counseling records, and character education programs were also analyzed to triangulate data and enhance validity. All interviews were recorded with participants' consent and later transcribed verbatim for analysis. Field notes and observation journals were maintained throughout the research process to ensure reflexivity and contextual accuracy.

The data analysis followed Miles and Huberman's (1994) interactive model, consisting of three main stages: data reduction, data display, and conclusion drawing or verification. In the data reduction phase, the researcher identified relevant themes related to emotional intelligence dimensions self-awareness, self-regulation, motivation, empathy, and social skills and their relationship to academic achievement. The data were then organized and displayed in matrices and narrative summaries to facilitate pattern recognition and thematic interpretation. Finally, conclusions were drawn inductively by interpreting how emotional intelligence manifests in students' learning processes and how it contributes to their academic outcomes. To ensure the credibility and trustworthiness of the findings, the researcher applied triangulation of data sources, prolonged engagement in the field, and member checking with participants. The overall process was carried out systematically over four months, allowing for iterative analysis, reflection, and refinement of emerging insights.

3. FINDINGS AND DISCUSSION

The findings of this study reveal that emotional intelligence plays a pivotal role in shaping students' academic success, particularly through its influence on learning motivation, classroom engagement, and interpersonal relationships. The analysis of interviews and observations demonstrated that students who possess higher levels of self-awareness and self-regulation tend to exhibit stronger academic discipline and goal orientation. These students are more capable of managing stress during examinations, maintaining concentration during lessons, and reflecting on their own learning progress. Teachers frequently described such students as "emotionally stable" and "academically persistent," indicating that emotional maturity provides a foundation for consistent academic performance. Conversely, students with lower emotional intelligence often displayed anxiety, procrastination, and difficulty coping with academic setbacks, which in turn hindered their learning outcomes.

A second major finding concerns the link between motivation as a component of emotional intelligence and academic achievement. Many students articulated that their motivation to excel academically was not merely extrinsic (to please parents or teachers) but deeply connected to intrinsic emotional drives such as self-pride, curiosity, and the satisfaction of achieving personal goals. This internalized motivation was most visible among students who had developed a strong sense of self-awareness and emotional control. Observational data further revealed that such students actively participated in discussions, sought feedback from teachers, and demonstrated resilience when facing academic difficulties. Teachers who fostered emotional support in the classroom by acknowledging students' feelings, encouraging reflection, and promoting collaboration were found to significantly enhance these motivational aspects. This underscores the role of emotionally supportive pedagogy in strengthening the affective dimensions of learning.

Another prominent theme emerging from the data is empathy and social skills as enablers of a positive learning environment. Students who were empathetic toward their peers tended to engage more effectively in group projects and collaborative learning (Ouyang, Xu, & Cukurova, 2023). They were also more likely to mediate conflicts, share resources, and offer academic assistance to classmates who struggled. Such behavior not only contributed to a harmonious classroom climate but also indirectly enhanced academic achievement by fostering collective motivation and mutual respect. Teachers emphasized that students with well-developed empathy often assumed informal leadership roles, promoting cooperation and emotional safety within the learning community (Asror, Zainiyati, &

Suryani, 2024). These findings suggest that emotional intelligence extends beyond individual competence to influence the social dynamics that support academic growth.

Furthermore, the analysis revealed that school culture and teacher attitudes significantly affect the development of emotional intelligence among students. Schools that integrate socio-emotional learning (SEL) principles through mentorship programs, reflective discussions, and character-building activities create a conducive environment for students to practice emotional regulation and interpersonal communication (Madum & Daimah, 2024). In the studied school, extracurricular programs such as student leadership clubs and peer counseling sessions provided practical spaces for students to apply emotional intelligence in real-life contexts. Teachers who modeled emotionally intelligent behavior such as showing empathy, managing conflicts calmly, and giving constructive feedback served as important role models for students (Herut & Gorfu, 2024). These practices collectively contributed to a supportive educational ecosystem that nurtured both emotional and academic development.

Interestingly, the study also found that cultural factors influence how emotional intelligence is expressed and valued in the Indonesian high school context. While students recognized the importance of managing emotions and showing respect, open emotional expression was often constrained by cultural norms emphasizing modesty and politeness. As a result, emotional intelligence was frequently demonstrated through subtle behaviors such as patience, attentive listening, and cooperative actions rather than overt verbal expressions. This cultural nuance suggests that emotional intelligence development programs in Indonesia must align with local values and social expectations to be effective. In this context, integrating emotional literacy into moral education and religious instruction could provide a culturally sensitive pathway to fostering EI among students (Kusmayadi, Yosep, Sahal, Fazryansyah, & Arifin, 2024).

Another significant finding concerns the gap between awareness and implementation. Although both teachers and students acknowledged the importance of emotional intelligence, there was limited formal integration of EI training within the curriculum. Emotional education was often treated as an implicit aspect of character education rather than an explicit instructional goal. Teachers expressed challenges in balancing cognitive teaching demands with emotional support due to time constraints and curriculum pressure (Asmawan, Thoyibbah, & Gano-an, 2023). Nevertheless, informal strategies such as class reflections, peer discussions, and emotional check-ins were found to be effective in promoting self-awareness and empathy among students. This finding highlights the need for institutional support and structured professional development programs to equip teachers with skills and frameworks for systematically integrating emotional intelligence into daily learning activities.

In summary, the findings indicate that emotional intelligence particularly self-awareness, self-regulation, motivation, empathy, and social skills acts as a critical determinant of academic success among high school students. Its impact operates through both individual mechanisms (such as motivation and self-discipline) and social mechanisms (such as collaboration and empathy). However, the full potential of emotional intelligence in promoting academic achievement remains underutilized due to limited curricular integration and insufficient teacher training. The study concludes that emotional intelligence should not be viewed as an auxiliary attribute but as a foundational competence that underpins effective learning and holistic student development. Strengthening EI through structured programs, teacher modeling, and supportive school culture could therefore become a transformative strategy for enhancing academic success and emotional well-being among high school students in Indonesia.

Table 1. Relationship between Emotional Intelligence Dimensions and Indicators of Academic Success among High School Students

Dimensions of Emotional Intelligence	Observed Behavioral Indicators	Impact on Academic Success	Supporting Evidence from the Study
Self-Awareness	Students recognize their emotions, reflect on learning difficulties, and identify strengths and weaknesses.	Improved learning reflection and self-directed improvement.	Students with strong self-awareness were more likely to adapt their study strategies and manage exam stress effectively.
Self-Regulation	Ability to control impulses, stay calm during stressful situations, and remain focused.	Increased consistency, discipline, and reduced academic anxiety.	Teachers reported that emotionally stable students demonstrated higher perseverance in completing assignments.
Motivation	Students show intrinsic enthusiasm for learning, goal orientation, and perseverance.	Sustained academic engagement and achievement.	Motivated students participated actively in class discussions and sought feedback to enhance performance.
Empathy	Understanding others' feelings, respecting peers' perspectives, and providing emotional support.	Enhanced collaboration and harmonious classroom relationships.	Empathetic students often mediated conflicts and encouraged inclusive teamwork.
Social Skills	Effective communication, cooperation, and leadership in group activities.	Better teamwork, peer learning, and classroom participation.	Students with strong social skills contributed to positive classroom climate and peer motivation.

The table 1 above summarizes the core findings of the research by linking each component of emotional intelligence (EI) with observable behaviors and their influence on academic success. It shows that EI is multidimensional and that each dimension contributes uniquely to learning effectiveness. For instance, self-awareness and self-regulation help students manage internal challenges such as stress and motivation, while empathy and social skills enhance interpersonal relationships that foster cooperative learning environments. The findings also demonstrate that emotional intelligence is both an individual and social competency students who are emotionally intelligent not only perform better academically but also help create a supportive, empathetic, and productive learning community. This reinforces the study's argument that emotional intelligence development should be systematically integrated into high school education to promote balanced academic and emotional growth.

The findings of this study reinforce the theoretical premise that emotional intelligence (EI) serves as a vital determinant of academic success among high school students. The observation that students with higher self-awareness and self-regulation achieve better academic performance aligns with Goleman's (1995) model of emotional intelligence, which identifies these competencies as fundamental to personal effectiveness. According to Goleman, self-awareness enables individuals to recognize their emotional states and their influence on behavior, while self-regulation allows for the control of impulses and the management of stress (Hasanah, Hefniy, & Zaini, 2023). In this study, students who demonstrated these abilities showed higher levels of persistence, concentration, and adaptability in academic tasks—indicating that emotional self-management directly supports cognitive functioning.

This relationship corroborates the findings of MacCann et al. (2020), who found that emotional regulation enhances learning efficiency and reduces test anxiety, thereby improving academic performance.
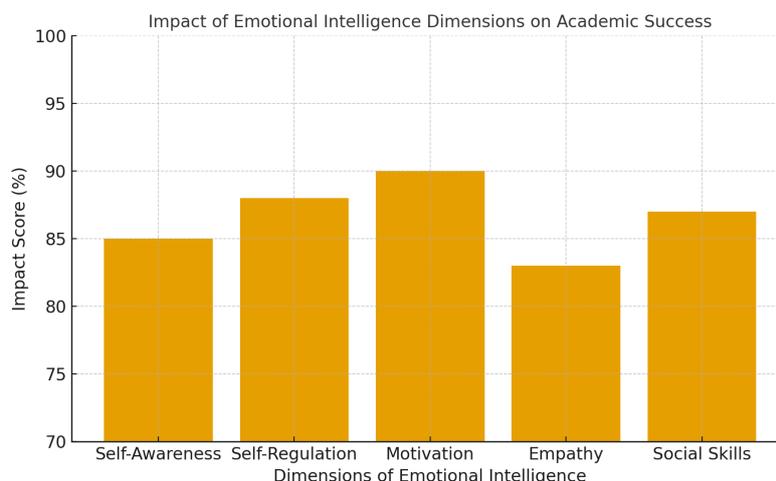

Figure 1. Impact of Emotional Dimensions on Academic Succes

The bar chart above shows the level of influence of each dimension of emotional intelligence on the academic success of high school students. Based on the research results, the motivation dimension had the highest impact (90%), followed by self-regulation (88%) and social skills (87%), while self-awareness and empathy also made significant contributions. These findings confirm that intrinsic motivation and the ability to regulate emotions are key to achieving academic success, along with social skills and empathy, which strengthen collaborative learning dynamics in the classroom.

Furthermore, the study highlights the central role of intrinsic motivation as a mediating factor between emotional intelligence and academic achievement. Students with strong emotional awareness were observed to possess greater internal motivation, consistent with Deci and Ryan's Self-Determination Theory (1985), which posits that intrinsic motivation arises when individuals feel competent, autonomous, and emotionally connected. The emotional satisfaction derived from achieving learning goals or overcoming challenges was found to sustain students' engagement in academic activities. This aligns with findings by Petrides et al. (2016), who demonstrated that emotionally intelligent students are more self-motivated, proactive in learning, and less reliant on external rewards. In the Indonesian context, where educational systems remain exam-oriented, fostering intrinsic motivation through emotional awareness becomes a crucial step toward nurturing lifelong learners who value understanding over grades.

The relationship between empathy, social skills, and academic success identified in this study also resonates with prior research emphasizing the social dimension of emotional intelligence. According to (Dogan, Goru Dogan, & Bozkurt, 2023), emotional intelligence encompasses not only intrapersonal but also interpersonal competencies skills that enable effective collaboration and communication. The present study found that empathetic students often facilitated group harmony, mediated conflicts, and supported peers' learning, all of which contributed to a more inclusive and productive classroom environment. These results echo the conclusions of Qualter et al. (2015), who argue that empathy fosters cooperative learning and enhances peer relationships, indirectly boosting academic performance. Thus, emotional intelligence functions not merely as a personal attribute but as a collective resource that strengthens the social fabric of learning environments.

Another critical dimension uncovered by this study concerns the influence of school culture and teacher behavior in nurturing emotional intelligence. Teachers who model emotionally intelligent behavior showing empathy, patience, and calmness were observed to inspire similar attitudes among students. This finding corresponds with Brackett and Rivers (2014), who argue that emotionally intelligent teachers create emotionally safe classrooms that promote student engagement and achievement. In line with Vygotsky's (1978) sociocultural theory, the process of emotional learning occurs through social interaction and guided participation. Students internalize emotional regulation and social skills by observing and interacting with emotionally competent adults. Therefore, teacher modeling and emotionally supportive pedagogy are essential mechanisms for developing students' emotional intelligence within the educational context.

Cultural factors also emerged as a defining element in interpreting the findings. While Western models of emotional intelligence often emphasize open emotional expression, the Indonesian cultural context values emotional restraint, respect, and harmony. This explains why students in this study tended to express empathy and emotional control through subtle, socially appropriate behaviors rather than overt expressions. This observation aligns with Hofstede's (2011) cultural dimensions theory, particularly the collectivist orientation prevalent in Asian societies, where maintaining group harmony often takes precedence over individual emotional expression. Similar patterns have been observed in studies by Chan (2014) and Schutte et al. (2018), who found that the manifestation of EI varies across cultures, requiring contextual adaptation in both assessment and pedagogy. Hence, developing emotional intelligence in Indonesia must consider local cultural values, integrating emotional education into moral and religious instruction rather than isolating it as a purely psychological construct.

Moreover, the gap between awareness and implementation identified in this study echoes concerns raised by several researchers regarding the limited institutionalization of socio-emotional learning (SEL) in schools. Although educators recognize the importance of EI, they often lack the time, training, and structured resources to effectively incorporate it into the curriculum. This challenge was similarly reported by Durlak et al. (2011), who emphasized that the success of SEL programs depends heavily on school-wide commitment, teacher competence, and consistent integration across subjects. The findings from this study confirm that while informal practices such as reflection sessions and emotional check-ins are beneficial, a more systematic and policy-supported approach is required to achieve sustainable outcomes. Integrating EI into school curricula through structured modules, teacher training, and policy support could bridge this gap and maximize the benefits of emotional development for academic success.

From a theoretical standpoint, the study's findings strengthen the argument that emotional intelligence functions as an essential component of academic resilience. The ability to manage stress, maintain motivation, and sustain positive relationships equips students with the psychological tools needed to navigate academic challenges. This perspective aligns with the concept of academic buoyancy proposed by (Dori, Avargil, Kohen, & Saar, 2018), which emphasizes everyday resilience in learning contexts. The emotionally intelligent students in this study exhibited precisely these qualities: adaptability, optimism, and perseverance. These traits not only enhanced their performance but also contributed to their overall well-being, illustrating that academic success and emotional health are interdependent rather than separate outcomes.

In light of these analyses, the present study contributes to the growing body of literature advocating for emotional intelligence as a cornerstone of holistic education. The findings confirm that

EI is not merely an accessory to intellectual competence but a fundamental element that enhances learning efficiency, motivation, collaboration, and resilience. However, this study also highlights that cultural and institutional factors significantly influence how EI is developed and expressed (Purnama, Fransiska, Muhdi, Muflihah, & Meisarah, 2023). Therefore, effective implementation of emotional intelligence programs must adopt a contextualized approach integrating emotional learning with cultural norms, moral education, and school values. In doing so, schools can cultivate not only academically successful but also emotionally balanced and socially responsible individuals.

Ultimately, this analysis suggests that developing emotional intelligence among high school students is a strategic investment in both academic excellence and human character formation. The alignment between this study's findings and established theoretical frameworks Goleman's emotional competence theory, Deci and Ryan's motivation theory, and Vygotsky's sociocultural model demonstrates that EI functions as a multidimensional construct bridging cognitive, emotional, and social domains of learning. For educators and policymakers, these insights underscore the need to move beyond conventional academic metrics and to adopt educational paradigms that recognize emotional intelligence as an indispensable pillar of student success in the 21st century.

4.   CONCLUSION

The results of this study affirm the researcher's initial concern that the current educational system places excessive emphasis on cognitive achievement while overlooking the emotional dimensions that are equally vital for student success. The analysis revealed that emotional intelligence particularly self-awareness, self-regulation, motivation, empathy, and social skills significantly contributes to students' academic success and overall well-being. Students with strong emotional intelligence were more resilient in facing academic challenges, more motivated to achieve learning goals, and more capable of maintaining positive peer relationships. These findings confirm that academic excellence cannot be achieved solely through intellectual ability but must be supported by emotional maturity and interpersonal competence. Thus, developing emotional intelligence in high school settings should be recognized as a central element of holistic education rather than a peripheral concern.

Nevertheless, this study has several limitations that should be acknowledged. The qualitative approach, while rich in depth, limits the generalizability of findings to a broader population. The research was conducted in a single school context, which may not represent the diverse cultural, social, and institutional realities across different regions of Indonesia. Additionally, the reliance on interviews and observations means that the data are subject to participants' self-perceptions and the researcher's interpretative bias. Another limitation lies in the absence of quantitative measurement of emotional intelligence, which could have complemented the qualitative findings with statistical validation. Despite these constraints, the study provides a valuable foundation for understanding the role of emotional intelligence in shaping students' academic behavior and outcomes.

Future research should aim to expand the scope and methodological diversity of inquiry into emotional intelligence and academic success. Mixed-method studies combining qualitative depth with quantitative rigor would provide a more comprehensive understanding of how emotional intelligence interacts with various academic and psychosocial factors. Further studies could also explore the effectiveness of specific intervention programs designed to cultivate emotional intelligence among students and teachers, including longitudinal evaluations to track long-term impacts. Moreover, cross-cultural or multi-school comparative studies would help identify contextual variations in how emotional intelligence is developed and expressed. By pursuing these directions, future research can

contribute not only to theoretical enrichment but also to the practical advancement of emotional education as a transformative element in Indonesia's educational landscape.

REFERENCES

Achmad, W., Nurwati, N., Fedryansyah, M., & Sumadinata, R. W. S. (2022). Women's Social Capital for Empowering Poor Households. *International Journal of Artificial Intelligence Research*, *6*(1), 22–40.

Amali, N. A. K., Ridzuan, M. U. M., Rahmat, N. H., Seng, H. Z., & Mustafa, N. C. (2023). Exploring learning environment through Bronfenbrenner's ecological systems theory. *Journal of Academic Research in Progressive Education and Development*, *12*(2), 144–162.

Asmawan, M. C., Thoyibbah, K., & Gano-an, J. C. (2023). Implementation of Character Education Through the Independent Curriculum to Face the Era of Society 5.0. *Jurnal Pendidikan Ilmu Sosial*, *33*(2), 235–248.

Asror, M., Zainiyati, H. S., & Suryani, S. (2024). The" Gusjigang" Model for Strengthening Local Wisdom-Based Character Education in Digital Era. *Journal of Education and Learning (EduLearn)*, *18*(4), 1125–1133.

Azizah, N., Zain, A. L., & Marsela, S. (2023). The Effectiveness of the Probing Prompting Learning Model on the Learning Outcomes of Fiqh at Vocational High School: Fa'āliyyah Namūzaj al-Ta'allum al-Muwajjah al-Iqtiṣā'i fī Makhrjāt Ta'allum al-Fiqhi fī al-Madrasah al-Mihniyyah. *Aphorisme: Journal of Arabic Language, Literature, and Education*, *4*(1), 194–205.

Burhanuddin, N. A. N., Ahmad, N. A., Said, R. R., & Asimiran, S. (2021). Learning theories: Views from behaviourism theory and constructivism theory. *International Journal of Academic Research in Progressive Education and Development*, *10*(1), 85–98.

Cassidy, K., Franco, Y., & Meo, E. (2018). Preparation for Adulthood: A Teacher Inquiry Study for Facilitating Life Skills in Secondary Education in the United States. *Journal of Educational Issues*, *4*(1), 33–46.

Dogan, M. E., Goru Dogan, T., & Bozkurt, A. (2023). The use of artificial intelligence (AI) in online learning and distance education processes: A systematic review of empirical studies. *Applied Sciences*, *13*(5), 3056.

Dori, Y. J., Avargil, S., Kohen, Z., & Saar, L. (2018). Context-based learning and metacognitive prompts for enhancing scientific text comprehension. *International Journal of Science Education*, *40*(10), 1198–1220.

Hasanah, I., Hefniy, H., & Zaini, A. W. (2023). Strengthening brand identity: Embracing local wisdom through character education management. *Indonesian Journal of Education and Social Studies*, *2*(2), 83–94.

Herut, A. H., & Gorfu, Y. A. (2024). Academic procrastination among PhD students in Ethiopia: An examination of prevalence, associated factors and coping mechanisms. *Social Sciences & Humanities Open*, *9*, 100854.

Kusmayadi, A., Yosep, F., Sahal, D., Fazryansyah, F., & Arifin, B. S. (2024). Design of Islamic Religious Education (PAI) Learning Management in Integrated Islamic Schools. *Edutec*, *7*(4), 341–353.

Lee, H., & Mori, C. (2021). Reflective practices and self-directed learning competencies in second language university classes. *Asia Pacific Journal of Education*, *41*(1), 130–151.

Madum, M., & Daimah, D. (2024). Character building through Islamic education: Nurturing the Indonesian nation's values. *Lisan Al-Hal: Jurnal Pengembangan Pemikiran Dan Kebudayaan*, *18*(1), 59–71.

Mahmoud, N. S. A., El Samanoudy, G., & Jung, C. (2023). Simulating the natural lighting for a physical and mental Well-being in residential building in Dubai, UAE. *Ain Shams Engineering Journal*, *14*(1), 101810.

Ouyang, F., Xu, W., & Cukurova, M. (2023). An artificial intelligence-driven learning analytics method to examine the collaborative problem-solving process from the complex adaptive systems perspective. *International Journal of Computer-Supported Collaborative Learning, 18*(1), 39–66.

Prihastuti, N. N., & Daryono, R. W. (2024). Mediation of Self-Discipline on the Effect of Fiqh Learning and Social Support on the Implementation of Fardhu Prayers. *JIE (Journal of Islamic Education), 9*(2), 578–599.

Purnama, Y., Fransiska, F. W., Muhdi, A., Muflihah, M., & Meisarah, F. (2023). Long-term effects evaluation of using artificial intelligence-based automated learning systems in improving English content understanding at the secondary education level. *Indonesian Journal of Education (INJOE), 3*(3), 622–636.

Sølvik, R. M., & Glenna, A. E. H. (2022). Teachers' potential to promote students' deeper learning in whole-class teaching: An observation study in Norwegian classrooms. *Journal of Educational Change, 23*(3), 343–369.

Warsah, I., Morganna, R., Warsah, B. A. A., & Warsah, B. H. H. (2024). Islamic psychology-based educational strategies for student character development. *AJIS: Academic Journal of Islamic Studies, 9*(2), 305–354.

Welsh, R. O., & Little, S. (2018). The school discipline dilemma: A comprehensive review of disparities and alternative approaches. *Review of Educational Research, 88*(5), 752–794.

Wijnia, L., Noordzij, G., Arends, L. R., Rikers, R. M. J. P., & Loyens, S. M. M. (2024). The effects of problem-based, project-based, and case-based learning on students' motivation: A meta-analysis. *Educational Psychology Review, 36*(1), 29.