

Research Trends on the Integration of Science and Character Education: A Bibliometric Analysis Review

Hamdi ^{a,1,*}, Ahmad Riduan ^{a,2}, Puspita Ais Anggraini ^{a,3}, Luqman Baehaqi ^{a,4}, Abdul Syahid ^{a,5}, Ali Anhar Syi'bul Huda ^{b,6}, Muallimin ^{c,7}

^a Institut Agama Islam Negeri Palangka Raya, Kalimantan Tengah, Indonesia

^b Universitas Pendidikan Indonesia, Bandung, Indonesia

^c Sakarya University, Sakarya, Turkey

¹ hamdi.pasca2410160289@iain-palangkaraya.ac.id; ² ahmadriduan.pasca2410160280@iain.palangkaraya.ac.id; ³ puspita.pasca2410160286@iain-palangkaraya.ac.id; ⁴ luqmanbae@gmail.com; ⁵ abdul.syahid@iain-palangkaraya.ac.id; ⁶ alianhar99@upi.edu; ⁷ muallimin.muallimin@ogr.sakarya.edu.tr

* Corresponding Author

<https://doi.org/10.23917/suhuf.v37i1.10022>

ARTICLE INFO

ARTICLE HISTORY

Received Month 04, 2025

Revised Month 04, 2025

Accepted Month 05, 2025

KEYWORDS

Bibliometric analysis

Science and technology

Moral crisis

Islamic educational institutions

Educational dilemma

ABSTRACT

The dilemma between science and character creates a debate, especially with various phenomena of knowledgeable people showing bad character in front of the public in teacher education institutions that have tried to provide good character, but public figures destroy it. The research aims to describe the Integration of Knowledge and Education, Character Perspective, Qur'anic Perspective, and Review of Bibliometric Analysis; the research design in this study uses a qualitative type. More clearly, the method used is research bibliometric used to find the latest research opportunities that have not been widely researched (Huda, 2024). The results of this study are based on network analysis, overlay, and density visualisation research related to the integration of science and character education, showing the topic of character education integration, which is often researched. However, the topic of Islamic educational institutions and science and technology shows a colour that is not bright, so it is interpreted that the topic is rarely researched. Therefore, it is very interesting that the topic of integration of science and character education is associated with Islamic educational institutions and related to science and technology, and what is interesting in the above view is still not related to the perspective of the Qur'an. So, the recommendations of this research are very important, especially in overcoming the dilemmatic phenomenon between science and character education, which, of course, must be integrated in order to be able to provide useful value.

This is an open-access article under the [CC-BY](#) license.



1. Introduction

Integrating science and character education is essential to form individuals who are not only academically intelligent but also have strong morals and ethics. Through a contextual approach involving local values, the use of technology, and implementation at various levels of education, this integration can significantly contribute to building a generation of character and competence [1]. However, the integration process lacks public existence, and no bibliometric studies analyse research trends on the Integration of science and character education. The current era emphasises the urgency of strengthening science to build character. However, this condition is increasingly eroding the character due to technological developments that can affect and damage character. The current condition shows the phenomenon of religious leaders who are outwardly knowledgeable people, but this is not reflected in their behaviour, so religious leaders are found to violate religious and state laws. As a phenomenon that occurs, some religious leaders do not reflect a good example. The phenomenon of a preacher known as a knowledgeable person quickly damages the existence of his da'wah due to a bullying phenomenon, so for a group of netizens to excuse this to make a preacher who does not have a good character. This condition certainly needs to be explored in terms of the dilemma of the character of a person who externally has knowledge, so there is a need to strengthen religion based on religious instructions, namely the Qur'an and Hadith [2]. This can be done by participating in religious education [3].

Knowledge is the knowledge individuals possess about objects (knowledge itself) correctly. A field based on methods used to solve various phenomena [4]. Seeking knowledge is considered an obligation for every Muslim, as the Prophet Muhammad emphasised, "Seeking knowledge is an obligation on every Muslim [5]. The pursuit of knowledge is mandatory for both men and women. Islamic teachings emphasise that education is essential for all Muslims, regardless of gender, and that women play an important role in the education and education of future generations [6]. As in Islam it is very important for its people to seek knowledge [7], this is done in order to attain happiness in this world and the hereafter [8]. The knowledge possessed is certainly not enough if it is not accompanied by good behaviour, so in this case, it is very important to continue to control behaviour as this is in line with the theory of reasoned action [9]. Controlling behaviour can be important by integrating science with character education. Learning is very effective at integrating character [10], so they have knowledge and good character.

Character education is an attitude that habituates the role of teachers [11]. This character education has an initial basis in the family environment [12]. The family environment is the first environment for children to form character, so it is very important to instil it from an early age so that they are more ready to enter the wider environment. In general, the concept of character education is an effort to improve ethics, mind and body [13]. The importance of interpreting science and character education so that this becomes an interesting thing to integrate so that hope can minimise moral disintegration [14].

This research is driven by the increasing awareness of the importance of integrating science and character education in the context of education. Several previous studies, including those conducted by Mansir, have highlighted this [15]. A discussion has been held about strengthening character by integrating science into learning. On the other hand, Shafwan [16] examine an integrative approach between science and Islamic values in the context of Islamic Religious Education learning. However, based on the literature review that has been conducted, it is revealed that the approach applied in these studies is generally qualitative and still focused on learning models or practices in the field. Almost no research has utilised bibliometric approaches to identify trends, gaps, and directions in the development of integration between science and character education, especially from the perspective of the Qur'an. The novelty of this research lies in applying bibliometric analysis, a quantitative method to systematically trace the development of the scientific literature in the context of integrating science with character education. Initial search results in some scientific databases, such as Scopus and Google Scholar, show that few publications, i.e. fewer than five in the last five years, discuss integrating science and character education with bibliometric approaches. Moreover, there are no publications that specifically link the bibliometric approach to the perspective of the Qur'an in the context of

education. In addition, the approach of the Qur'an perspective as a basis for integrating knowledge and character is an aspect that is still rarely studied in bibliometric studies. Actually, the Qur'an contains many verses that emphasise the importance of knowledge, morals, and the development of human character. Therefore, this research is relevant and significant, as it seeks to bridge the gap between normative studies in Islam and modern approaches to scientific analysis. Based on this, this study aims to answer the question of what topics are popular in research on integrating science and character education. Through a more structured and data-based approach, this research is expected to make a more significant contribution both methodologically and conceptually to the development of the literature on the integration of science and character, as well as enriching the value-based educational approach from an Islamic perspective. So, this study analyses the topic of Integration of science and character education through the Google Scholar database in the 2020-2024 publication.

2. Method

The research design in this study uses a qualitative type. More clearly, research bibliometrics summarises articles on certain topics [17]. Specifically, it is an analysis to look for the latest research opportunities that have not been widely researched [18]. So, this analysis is very useful because it produces straightforward and intelligent data [19]. The data source is sourced from Google Scholar, which is then assisted by the Publish or Perish (PoP) application version 8.12. The data source for this research was carried out in November 2024 by entering the keywords for integration research, values, and character education in the search menu in the PoP application. Search range from 2015-2025. The search based on these keywords is described in the following image.

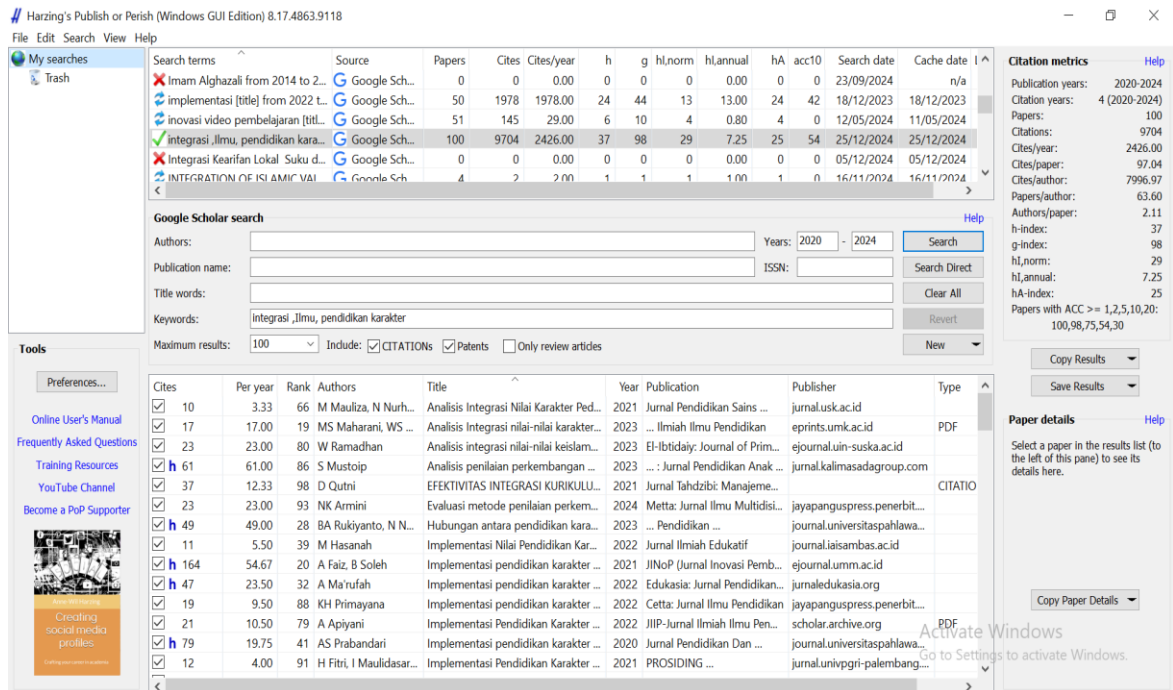


Fig.1. Metadata search results through PoP version 8.12 keywords integration, science, and character education

Fig. 1 shows that search results through the Publish or Perish application appeared in as many as 100 articles in the last 5 years (2020-2024). The data is then stored in RIS (Research Information System) format. Furthermore, an analysis was conducted using the VOSViewer application version 1.6.20 to see research recommendations related to integrating science and character education.

3. Results and Discussion

Based on a search through the Google Scholar database with the keywords integration, science, and character education in the time frame (2020-2024), the search results and the results of the researcher's analysis show that the research topic continues to show the existence of research trends in the 2020-2024 time period which is seen to have gradually increased publications and has also decreased in 2024. The peak of the development of publications related to integrating science and character education in 2020 was 28 publications. The results can be seen in Fig. 2 below.

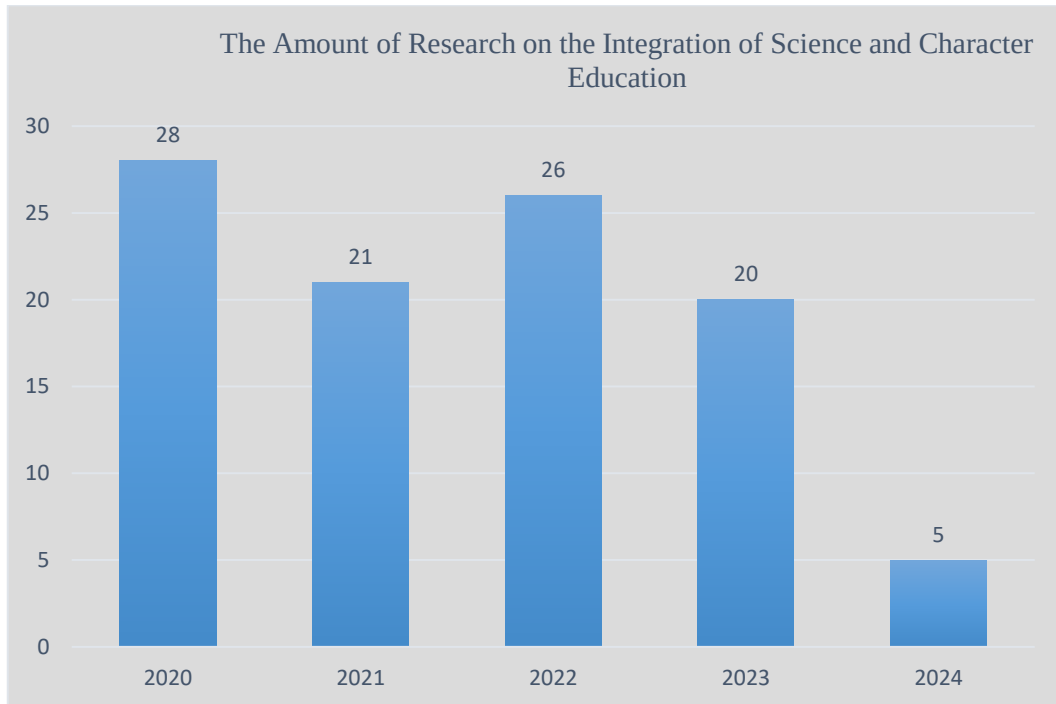


Fig.2. Number of research on the integration of science and character education

The above results show that the topic of the integration of science and character education is very interesting to study, as evidenced by continuing to show its development. In 2020, it reached 28 publications but decreased in 2021, so only 21 publications were relevant to the topic. Furthermore, in 2022, it increased again to the previous level, reaching 26 publications. However, it declined again in 2023, with only 20 publications. The rise and fall of publications relevant to the topic of science integration and character education has experienced a very significant decline; namely, in 2024, there will be only five publications. So, it is necessary for researchers to study the topic more deeply.

3.1. Sources in National Publications on the Topic of Integration of Science and Character Education

Based on the analysis results, 100 relevant articles were obtained through the Google Scholar database sourced from e-journals with a total of 87 publications, e-proceedings of as many as 2 publications, e-books of as many as 8 publications, and repositories of 3 publications. The following is a breakdown of publication sources that discuss the integration of science and character education.

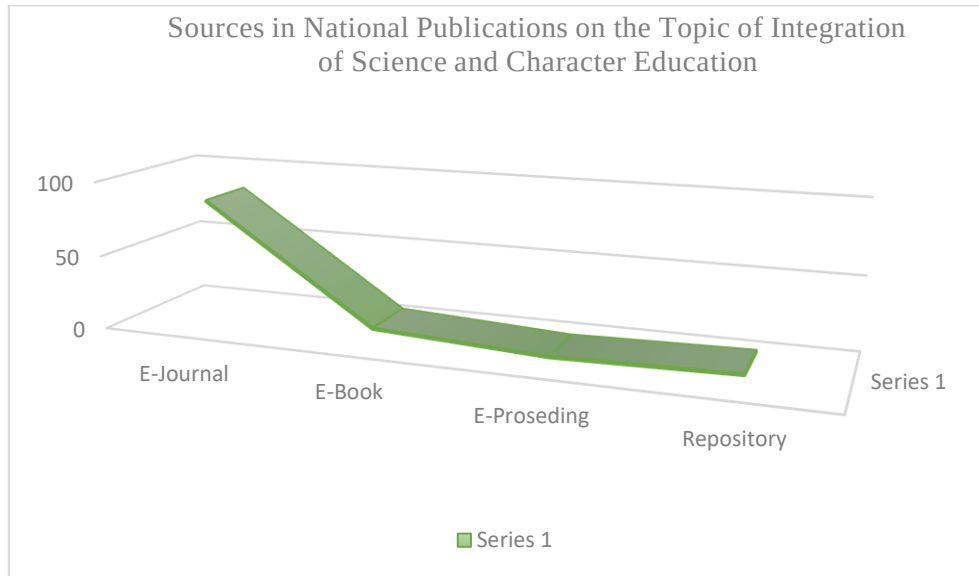


Fig.3. Sources that appear with the keywords integration, science, and character education

Based on the results above, the e-journal has the advantage of publishing as many as 87 publications relevant to science integration and character education. The excellence of e-journals is because they are widely liked and chosen to publish the results of research and service [20].

3.2. Productive Researchers Produce Research with the Keywords: Integration of Science and Character Education

This research is very useful and, of course, able to make a significant contribution to research development, one of which is to identify researchers who focus on studying the integration of science and character education. This research is supported by the VosViewer application version 1.6.20. The first step taken by the researcher is to choose the data type by selecting the option "create a map based on bibliographic data" and selecting "read data from type RIS". Then, select "full counting" and determine the maximum number of authors per document as many as 35 and the minimum number of documents per writer as many as 2. Based on the results of the analysis of 186 researchers, 5 researchers were selected who met the criteria, as shown in the figure.

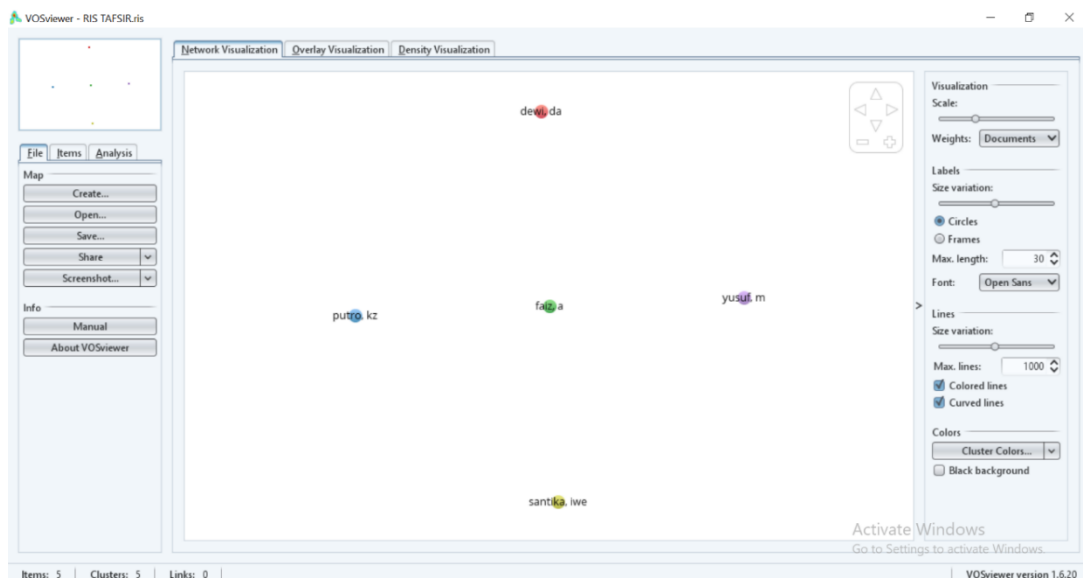


Fig.4. Productive Researcher with the topic of integration of science and character education

Based on the image above shows that the productivity of researchers who study the topic of science integration and character education consists of 5 researchers (Dewi, Faiz, Putro, Santika, and Yusuf). Then, from the network display and density visualisation modes, the five researchers did not have network connectivity, as shown in Fig. 5 and Fig. 6 below.

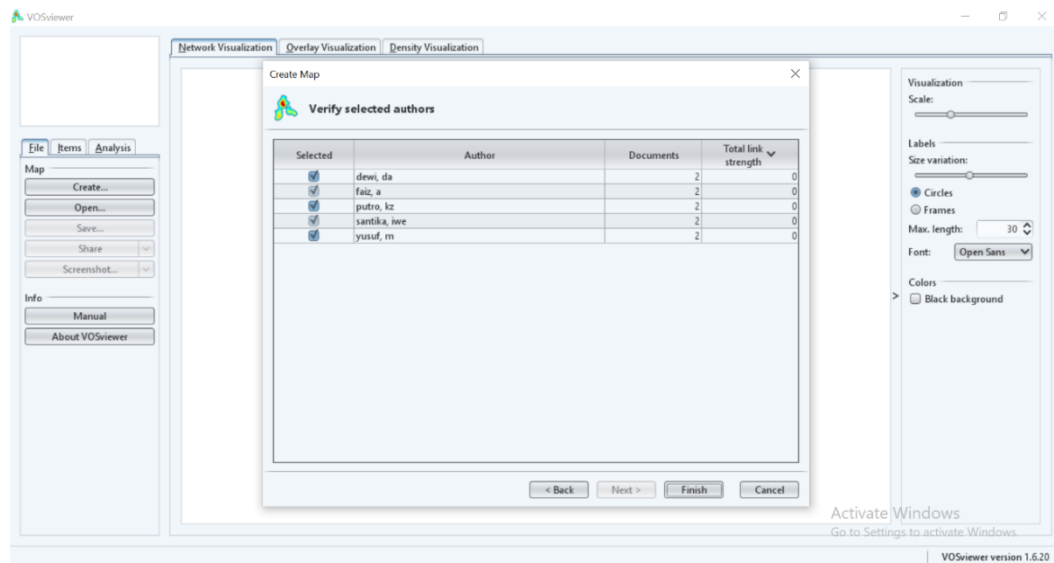


Fig.5. Productive researcher with the topic of integration of science and character education based on network vizualitati's view

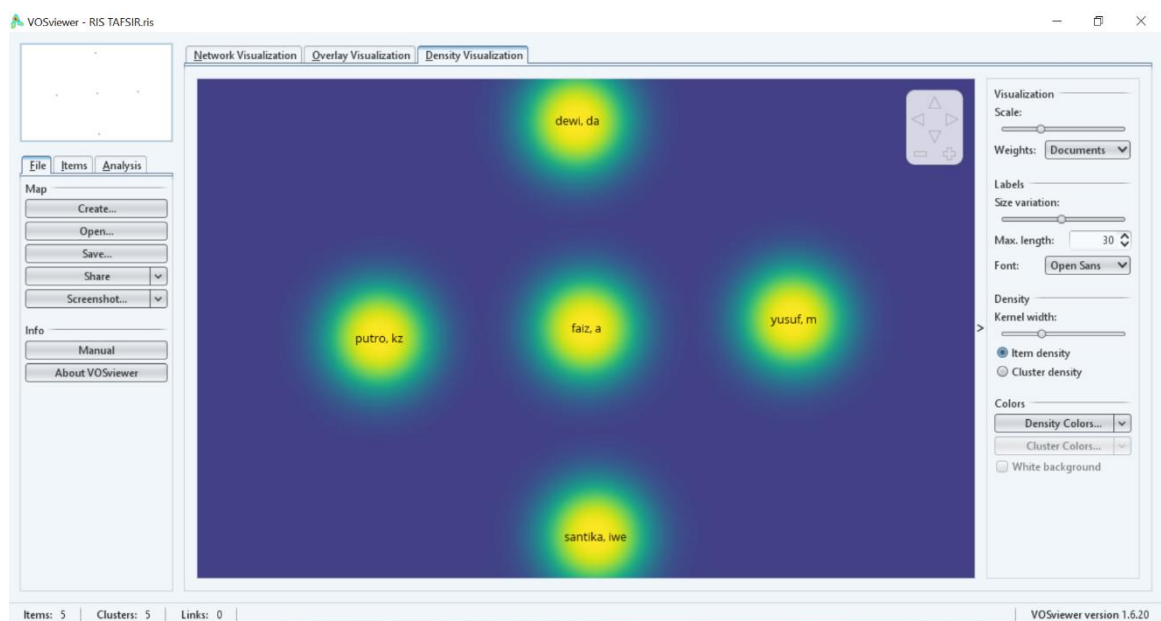


Fig.6. Productive researcher with the topic of integrating science and character education according to the density vizualitation display

The five prolific researchers who are relevant to the topic of integrating science and character education have research publications in the 2020-2024 time span described as follows.

Table 1. Number of publications of productive researchers with the topic of integration of science and character education

Name	Number of Publications
Dewi	2 Publications
Faiz	2 Publications
Putro	2 Publications
Santika	2 Publications
Yusuf	2 Publications

3.3. Development of Research on the Integration of Science and Character Education

The development of research on integrating science and character education has made a significant contribution to the scientific field, which is certainly supported by using the VOSViewer application version 1.6.20. The analysis process begins with determining the type of data model, followed by selecting the create a map-based text data category, opening the data source menu, and choosing read data from reference manager files with supported RIS file formats. In the counting method section, the researcher chose the Binary Counting category and determined a minimum number of terms of occurrence of 2, and the number of terms chosen is 35 out of 586 items, as shown in Fig. 7 and Fig. 8. Several processes have been carried out to map research developments on integrating science and character education, as seen in Fig. 9.

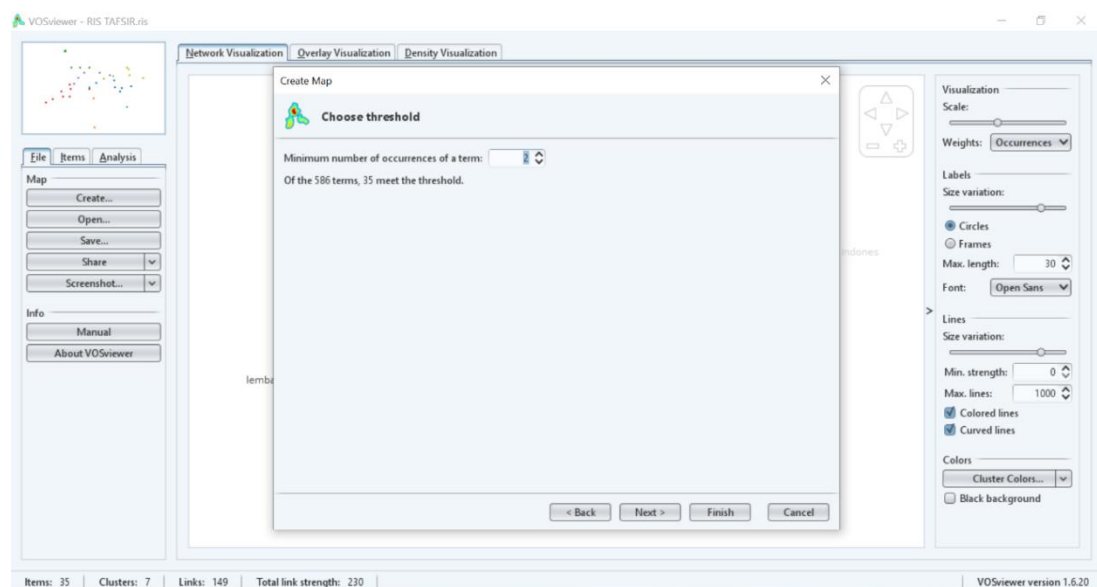


Fig.7. Binary analysis results counting with minimum numbers of occurrences of term

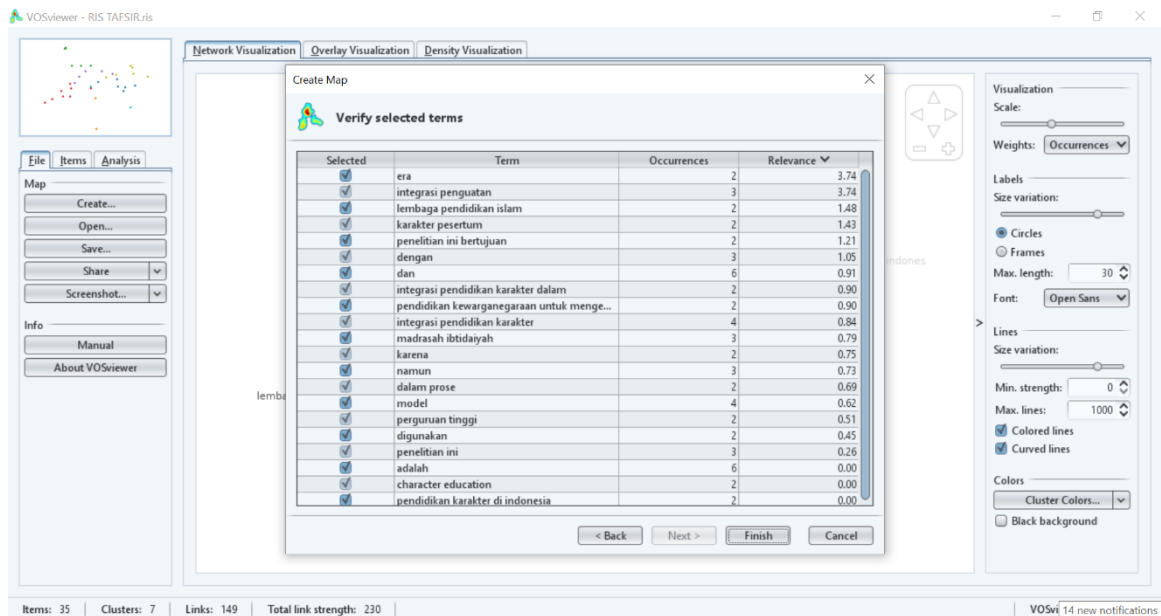


Fig.8. Results of 35 selected items from 586 terms research document on the integration of science and character education

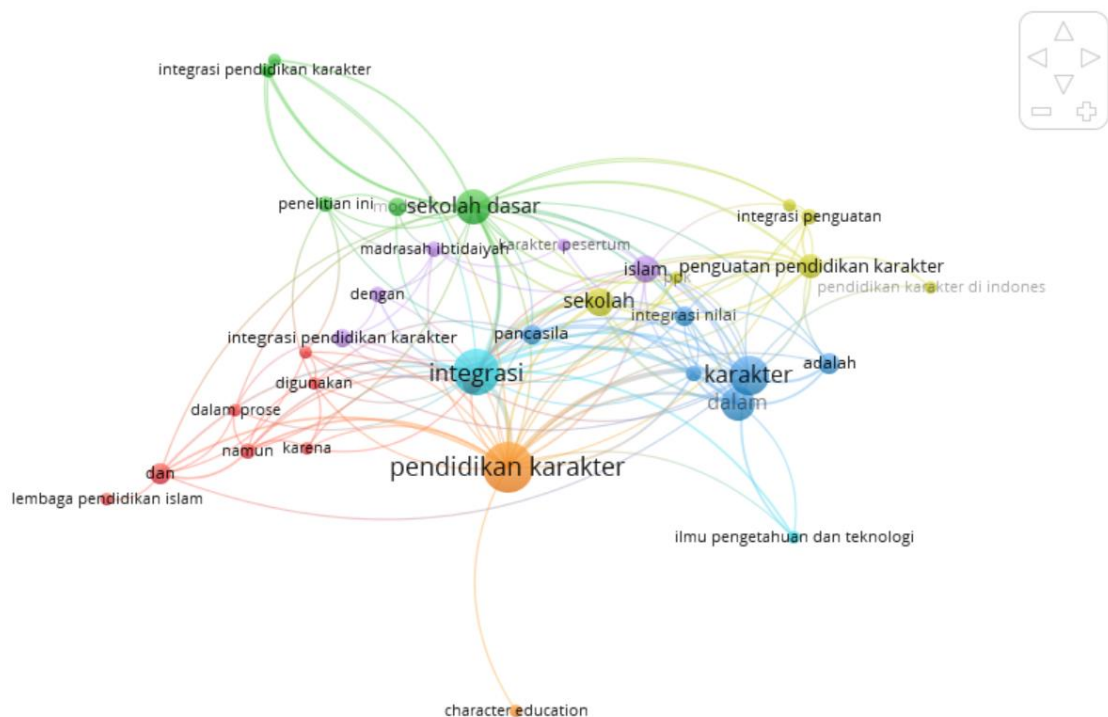


Fig.9. Results of mapping topics of integration of science and character education on network visualization display

Based on the analysis results on the integration of science and character education, which is connected to 149 research links, as many as 230 have links that are included in the category of very strong ones. Some of the most powerful links are characterized by large circular shapes. The related links are not so strong, marked with small circles. The picture above shows the recommended research trends on the topic of integration of science and character education. The word "Character education" is often researched and integrated into various discussions as there is a line of connection between schools, the integration of character education, and others. As for those not researched or studied much, it can be seen in a small circle, namely the Institute of Islamic Education and Science and

Technology. These two findings are highly recommended for future researchers to research the integration of science and character education in knowledge- and technology-based Islamic educational institutions, as well as to add interest and strengthen further research based on the analysis of the results of Network Visualization, nor has there been anyone who has linked the integration of science and character education according to the perspective of the Qur'an.

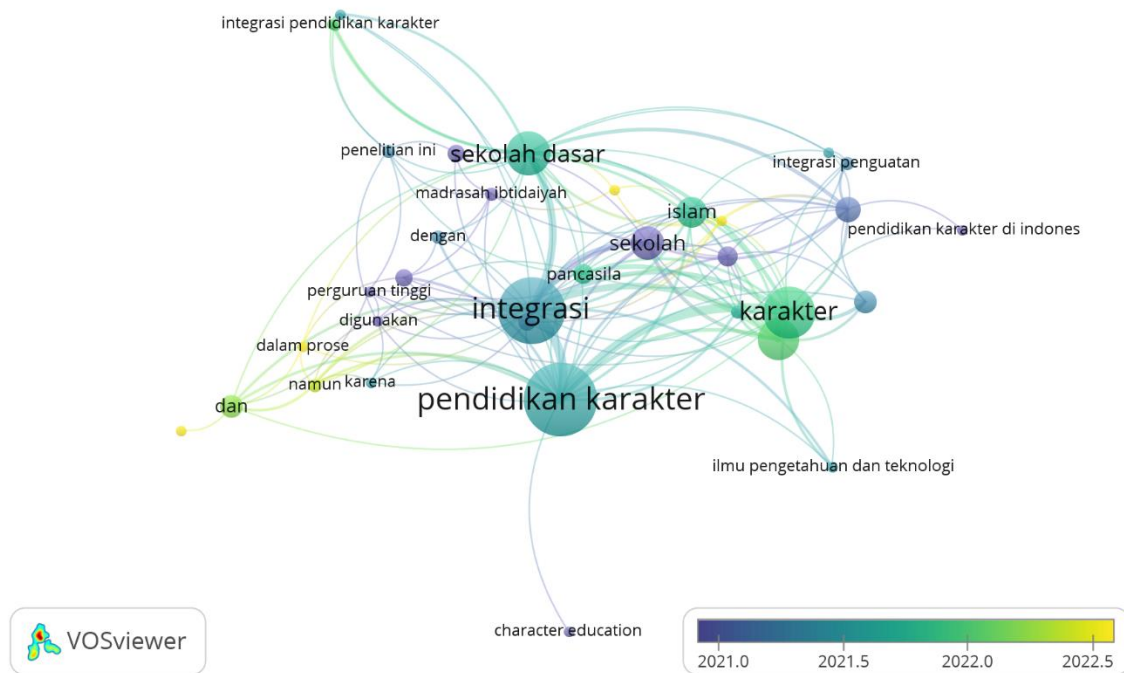


Fig.10. Results of mapping topics of integration of science and character education by overlay display

Based on the visualisation above with the version of the overlay visualisation display, it shows that the research is relevant to the topic of integrating science and character education sourced from publications in 2021 and 2022, namely Islamic education institutions and science and technology.

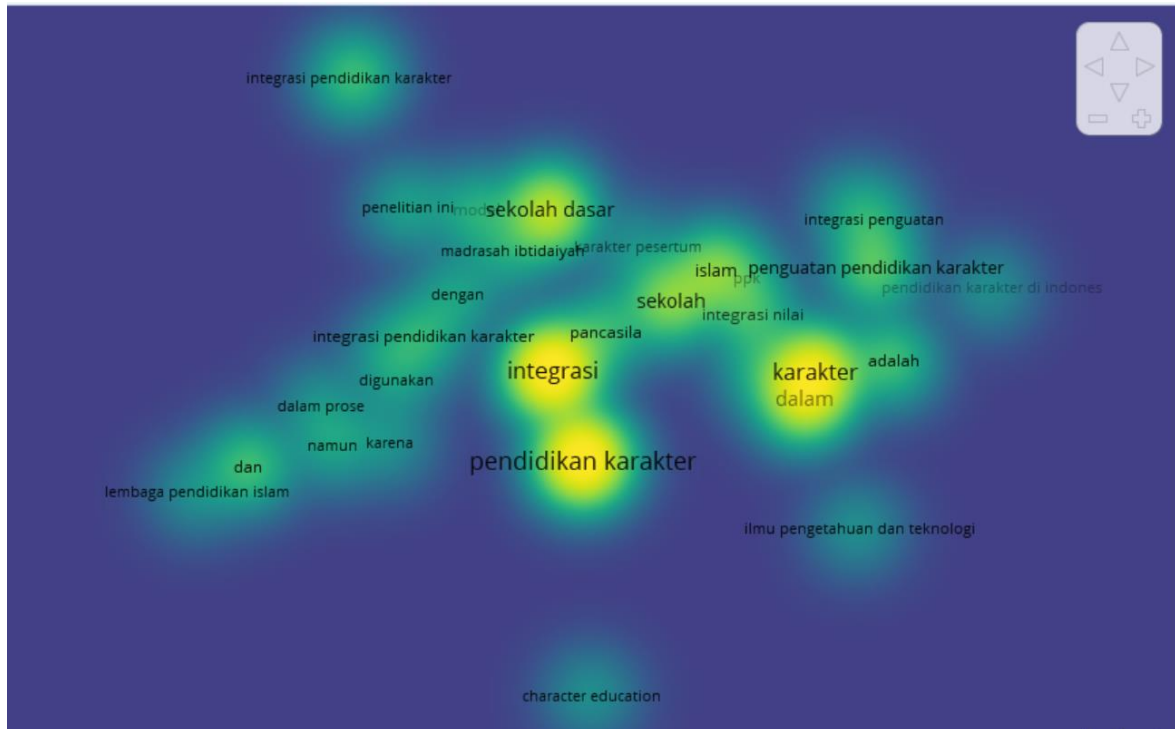


Fig.11. Results of mapping topics for the integration of science and character education version of the density visualization display

Fig. 11 above shows that research related to the integration of science and character education in a bright image display shows that the topic of character education integration is often researched. However, the topic of Islamic educational institutions and science and technology shows colours that are not bright, so it is interpreted that the topic is rarely researched. Therefore, it is very interesting that the topic of integration of science and character education is associated with Islamic educational institutions as well as related to science and technology, and what is interesting in the view above is that there is still no connection with the perspective of the Qur'an. Educational institutions play a very important role in providing a positive influence [21], which is achieved through an attractive strategy [22]. This is still very possible because Islamic educational institutions are still trusted by the community and recognised by the government [23]. Efforts to build trust certainly require the important role of human resources, which can provide good management, especially in Islamic educational institutions [24].

Islamic educational institutions are a forum to shape the character of the nation's children and a source of knowledge transfer and value-based to measure human behaviour [25], [26], [27]. This process is also a form of supporting education, as the presence of knowledge is to continue to be developed. One of the interesting things in this era is the very rapid development of science and technology [28], [29]. Advances in the field of technology are very vulnerable as the young generation, who are very vulnerable, easily receive information in the media without filtering first [30].

4. Conclusion

The topic of the integration of science and character education is very interesting to study, as evidenced by continuing to show its development. In 2020, it reached 28 publications but decreased in 2021, so only 21 publications were relevant to the topic. Furthermore, in 2022, it increased again from the previous year, reaching 26 publications. However, it declined again in 2023, with only 20 publications. The rise and fall of publications relevant to the topic of science integration and character education has experienced a very significant decline; namely, in 2024, there will be only 5 publications. The productivity of researchers who studied the topic of science integration and character education consisted of 5 researchers: Dewi, Faiz, Putro, Santika, and Yusuf. The topic of character

education integration is often researched based on the results of network analysis, overlay, and density visualisation research related to the integration of science and character education. However, the topic of Islamic educational institutions and science and technology shows colours that are not bright, so it is interpreted that the topic is rarely researched. Therefore, it is very interesting that the topic of the integration of science and character education is associated with Islamic educational institutions as well as related to science and technology and what is interesting is that in previous research, there is still no association with the perspective of the Qur'an.

Author Contribution: The first author contributes to the first draft of the article, while the other authors improve the existing content. All authors have read and approved the final paper.

Acknowledgment: Not related.

Conflicts of Interest: The authors declare no conflict of interest.

References

- [1] M. Ilham and F. Rahman, "Character Education of Local Wisdom-based: A Study of Moral Aspect of Quotes belong to Bugis People," *J. Ecohumanism*, vol. 3, no. 3, pp. 1125–1140, 2024, doi: <https://www.cceol.com/search/article-detail?id=1277970>.
- [2] M. Murjazin, A. Nurhuda, L. Susanti, and Y. S. Azami, "Psychological and Physiological Motives in Humans (Study on Verses of The Qur'an)," *Suhuf Int. J. Islam. Stud.*, vol. 35, no. 1, pp. 30–44, 2023, doi: <https://doi.org/10.23917/suhuf.v35i1.22581>.
- [3] F. Arfan, A. Nirwana, M. Fuadi, N. Fadli, and A. S. Ana, "Contribution of Ali Hasjmy's Legacy of Thought to Aceh Islamic Education," *Suhuf Int. J. Islam. Stud.*, vol. 36, no. 2, pp. 183–199, 2024, doi: <https://doi.org/10.23917/suhuf.v36i2.4764>.
- [4] A. K. Amrullah, "Keutamaan Ilmu Dan Adab Dalam Persepektif Islam [The Virtue of Knowledge and Manners from an Islamic Perspective]," *At-Ta'lim J. Kaji. Pendidik. Agama Islam*, vol. 2, no. 1, pp. 33–46, (in Indonesia), 2020, [Online]. Available: <https://ejournal.an-nadwah.ac.id/index.php/Attalim/article/view/133>
- [5] L. Z. Adhito, H. B. Santoso, and K. Junus, "Development and Evaluation of M-Learning Application for Learning the Foundation of Islamic Knowledge," in *2020 International Conference on Advanced Computer Science and Information Systems (ICACSIS)*, IEEE, 2020, pp. 447–456. doi: <https://doi.org/10.1109/ICACSIS51025.2020.9263152>.
- [6] J. Aslam, A. Saleem, N. T. Khan, and Y. B. Kim, "Factors Influencing Blockchain Adoption in Supply Chain Management Practices: A Study Based on the Oil Industry," *J. Innov. Knowl.*, vol. 6, no. 2, pp. 124–134, 2021, doi: <https://doi.org/10.1016/j.jik.2021.01.002>.
- [7] R. N. N. Azizah, "Hadist Pentingnya Menuntut Ilmu: Motivasi dan Manfaatnya [The Importance of Seeking Knowledge in Hadith: Motivation and Its Benefits]," *Tabsyir J. Dakwah Dan Sos. Hum.*, vol. 5, no. 4, pp. 34–42, (in Indonesia), 2024, doi: <https://doi.org/10.59059/tabsyir.v5i3.1562>.
- [8] Z. Mardiya and A. R. Sofa, "Keutamaan menuntut ilmu dalam perspektif Islam di kehidupan modern: Tantangan, peluang, dan pengaruh teknologi dalam pembentukan karakter di era digital [The Virtue of Seeking Knowledge in Islam in Modern Life: Challenges, Opportunities, and the Influence]," *Inspirasi Dunia J. Ris. Pendidik. Dan Bhs.*, vol. 4, no. 1, pp. 13–26, (in Indonesia), 2025, doi: <https://doi.org/10.58192/insdun.v4i1.2774>.
- [9] P. Dangaiso, D. C. Jaravaza, and P. Mukucha, "Evaluating the predictors of mobile health acceptance among Zimbabwean university students during the COVID-19 era: an integrated framework," *Cogent Soc. Sci.*, vol. 10, no. 1, pp. 1–17, 2024, doi: <https://doi.org/10.1080/23311886.2023.2299141>.
- [10] V. Y. Erviana, "Penanganan dekadensi moral melalui penerapan karakter cinta damai dan nasionalisme [Addressing Moral Decline Through the Implementation of Peace-Loving Character and Nationalism]," *J. Penelit. Ilmu Pendidik.*, vol. 14, no. 1, pp. 1–9, (in Indonesia), 2021, doi:

- <https://doi.org/10.21831/jpipfip.v14i1.27149>.
- [11] Y. Tira, I. Suwandi, and M. Rifki, "Pendidikan Karakter Siswa Sekolah Dasar dalam Perspektif Islam [Character Education for Elementary School Students from an Islamic Perspective]," *Murid J. Pemikir. Mhs. Agama Islam*, vol. 2, no. 1, pp. 1–12, (in Indonesia), 2024, [Online]. Available: <https://ejournal.stai-mifda.ac.id/index.php/buhun/article/view/532>
 - [12] S. W. Utami, "Penerapan Pendidikan Karakter Melalui Kegiatan Kedisiplinan Siswa [The Implementation of Character Education Through Student Discipline Activities]," *J. Pendidik*, vol. 4, no. 1, pp. 63–66, (in Indonesia), 2019, doi: <https://doi.org/10.26740/jp.v4n1.p63-66>.
 - [13] M. Mery, M. Martono, S. Halidjah, and A. Hartoyo, "Sinergi Peserta Didik dalam Proyek Penguatan Profil Pelajar Pancasila [Student Synergy in the Project to Strengthen the Profile of Pancasila Students]," *J. Basicedu*, vol. 6, no. 5, pp. 7840–7849, (in Indonesia), 2022, doi: <https://doi.org/10.31004/basicedu.v6i5.3617>.
 - [14] M. N. Huda, M. Duwila, and R. Rohmadi, "Menantang Disintegrasi Moral di Era Revolusi Industri 4.0: Peran Revolusioner Pondok Pesantren [Challenging Moral Disintegration in the Era of the Industrial Revolution 4.0: The Revolutionary Role of Islamic Boarding Schools (Pondok Pesantren)]," *J. Islam. Educ.*, vol. 9, no. 1, pp. 1–13, (in Indonesia), 2023, doi: <https://doi.org/10.18860/jie.v9i1.22805>.
 - [15] F. Mansir, S. Jamaluddin, M. Ikhsan, B. Wadham, A. Salim, and J. Inayah, "Integration of Science and Islamic Education Towards The Building of Student Character," in *Conference: Proceedings of the 5th International Graduate Conference in Islam and Interdisciplinary Studies*, Lombok, 2023, pp. 1–7. doi: <http://dx.doi.org/10.4108/eai.19-10-2022.2329025>.
 - [16] M. H. Shafwan and R. I. Syah, "The Integration Model of Islam and Science Learning in Islamic Education and Character Building at SMK Muhammadiyah 8 Paciran," *Ar-Fachruddin J. Islam. Educ.*, vol. 1, no. 1, pp. 33–44, 2024, doi: <https://doi.org/10.7401/bw4ynr09>.
 - [17] H. S. Batubara, M. Giatman, W. Simatupang, and R. Watrianthos, "Pemetaan Bibliometrik Terhadap Riset pada Sekolah Menengah Kejuruan Menggunakan VOSviewer [Bibliometric Mapping of Research on Vocational High Schools Using VOSviewer]," *Edukatif J. Ilmu Pendidik.*, vol. 4, no. 1, pp. 233–239, (in Indonesia), 2021, doi: <https://doi.org/10.31004/edukatif.v4i1.1818>.
 - [18] A. A. S. Huda and F. Fahrudin, "Bibliometric Analysis of School Religious Activities in Developing Students' Morality in Indonesia," *J. At-Tarbiyat J. Pendidik. Islam*, vol. 7, no. 1, 2024, doi: <https://doi.org/10.37758/jat.v7i1.790>.
 - [19] A. Karim and J. Soebagyo, "Pemetaan Bibliometrik Terhadap Trend Riset Matematika Terapan Di Google Scholar Menggunakan Vosviewer [Bibliometric Mapping of Research Trends in Applied Mathematics on Google Scholar Using VOSviewer]," *Teorema Teor. Dan Ris. Mat.*, vol. 6, no. 2, pp. 234–241, (in Indonesia), 2021, doi: <http://dx.doi.org/10.25157/teorema.v6i2.5835>.
 - [20] E. Wahyudi, "Implementasi E-Journal berbasis Open Journal System (OJS) untuk Meningkatkan Jumlah Publikasi Penelitian Dosen IPDN Kampus NTB [Implementation of E-Journal Based on Open Journal System (OJS) to Increase the Number of Research Publications by IPDN NTB Camp]," *Explore*, vol. 14, no. 1, pp. 35–41, (in Indonesia), 2024, doi: <https://doi.org/10.35200/ex.v14i1.110>.
 - [21] W.-L. Hsu, S. Andri Dayarana K., E. Ixora Javanisa, and D. T. T. and Phuong, "Fostering creativity and performance through authentic leadership in educational institutions," *Cogent Soc. Sci.*, vol. 10, no. 1, pp. 1–17, Dec. 2024, doi: <https://doi.org/10.1080/23311886.2024.2425774>.
 - [22] M. Kautsar and S. Julaiha, "Langkah-langkah Manajemen Strategik di Lembaga Pendidikan Islam [Strategic Management Steps in Islamic Educational Institutions]," *J. Instr. Dev. Res.*, vol. 3, no. 1, pp. 24–28, (in Indonesia), 2023, doi: <https://doi.org/10.53621/jider.v3i1.203>.
 - [23] C. Iwan Hermawan, "Konsep Membangun Branding Image untuk Meningkatkan Kepercayaan terhadap Lembaga Pendidikan Islam [The Concept of Building a Branding Image to Increase Trust in Islamic Educational Institutions]," *ASCENT Al-Bahjah J. Islam. Educ. Manag.*, vol. 2, no. 1, pp. 12–26, (in Indonesia), 2024, doi: <https://dx.doi.org/10.61553/ascent.v2i1.96>.

- [24] R. A. Gusli, Z. Sesmiarni, M. Akhyar, and K. M. Lestari, "Pendekatan Efektif dalam Pengelolaan Sumber Daya Manusia di Lembaga Pendidikan Islam [Effective Approaches in Human Resource Management at Islamic Educational Institutions]," *Dirasah J. Stud. Ilmu Dan Manaj. Pendidik. Islam*, vol. 7, no. 2, pp. 477–488, 2024, doi: <https://doi.org/10.58401/dirasah.v7i2.1324>, (in Indonesia).
- [25] U. Nasution, "Integrasi Pemikiran Imam Al-Ghazali & Ivan Pavlov Dalam Membentuk Prilaku Peserta Didik [The Integration of Imam Al-Ghazali's and Ivan Pavlov's Thought in Shaping Student Behavior]," *Insa. J. Pemikir. Altern. Kependidikan*, vol. 25, no. 1, pp. 103–113, (in Indonesia), 2020, doi: <https://doi.org/10.24090/insania.v25i1.3651>.
- [26] M. Husni, "Kearifan Lokal Handep Masyarakat Dayak: Perspektif Cendekiawan Muslim Dayak di IAIN Palangkaraya Raya [Local Wisdom of Handep in Dayak Society: The Perspective of Dayak Muslim Scholars at IAIN Palangkaraya]," *Rihlah J. Sej. dan Kebud.*, vol. 8, no. 2, pp. 113–133, (in Indonesia), 2020, doi: <https://doi.org/10.24252/rihlah.v8i2.15941>.
- [27] M. R. Baharuddin, "Adaptasi Kurikulum Merdeka Belajar Kampus Merdeka (Fokus: Model MBKM Program Studi) [Adaptation of the Merdeka Belajar Curriculum in the Merdeka Campus (Focus: MBKM Study Program Model)]," *J. Stud. guru dan pembelajaran*, vol. 4, no. 1, pp. 195–205, (in Indonesia), 2021, doi: <https://doi.org/10.30605/jsgp.4.1.2021.591>.
- [28] N. H. Fitri Mulyani, "Analisis perkembangan ilmu pengetahuan dan teknologi (IPTEK) dalam pendidikan [Analysis of the Development of Science and Technology (S&T) in Education]," *J. Pendidik. Dan Konseling. J. Pendidik. Dan Konseling*, vol. 3, no. 1, pp. 101–109, (in Indonesia), 2021, doi: <https://doi.org/10.31004/jpdk.v3i1.1432>.
- [29] E. Syahputra, "Pembelajaran abad 21 dan penerapannya di Indonesia [21st Century Learning and Its Implementation in Indonesia]," *J. Inf. Syst. Educ. Dev.*, vol. 2, no. 4, pp. 10–13, (in Indonesia), 2024, doi: <https://doi.org/10.62386/jised.v2i4.104>.
- [30] W. Wardani and T. W. Mahfuzh, "Hijrah Among the Youth: Religious Conversion and Modes of Understanding of Related Qur'anic Verses," *Khazanah J. Stud. Islam dan Hum.*, vol. 22, no. 1, pp. 47–73, 2024, doi: <https://doi.org/10.18592/khazanah.v22i1.13735>.