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Green Banking in Indonesian Islamic Banking: A Bibliometric Analysis of Publication Trends and Thematic Evolution

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ABSTRACT

The integration of green banking within Islamic financial institutions has become an increasingly prominent discourse in sustainable finance. Objective**:** This study aims to analyze the publication trends and thematic mapping of green banking research applied to Islamic bank financing products in Indonesia between 2019 and 2024. Methodology**:** A bibliometric analysis was conducted using a dataset of 60 peer-reviewed articles retrieved from Google Scholar, with network visualization and co occurrence analysis executed via VOSviewer software. Findings**:** The results demonstrate a consistent annual growth in publication volume. Thematic clustering reveals three dominant research streams: (1) the policy alignment of green banking principles with Sharia-compliant financing products, (2) the empirical impact of sustainable practices on financial performance and profitability, and (3) the role of technological innovation in fostering green banking adoption. Implication**:** This research contributes to the academic literature on sustainable Islamic finance and offers strategic insights for regulators and banking practitioners to enhance sustainable banking frameworks in Indonesia.

Introduction

Environmental sustainability has become an increasingly important issue in the global financial industry, including the banking sector. One concept that emerged from concerns about the environmental impact of economic activities is *green banking*.[1,2,3] This approach refers to banking efforts that promote environmentally friendly operations and social responsibility while supporting projects aligned with the principles of sustainable development.[4,5]

In Indonesia, the push to adopt green banking principles has been evident since the issuance of several government policies, such as Law No. 32 of 2009 on Environmental Protection and Management, as well as support from regulators like Bank Indonesia and the Financial Services Authority (OJK).[6,7] Furthermore, the implementation of green banking aligns closely with the Islamic banking approach, which emphasizes sustainability and social responsibility, as reflected in the objectives of *maqashid sharia*, particularly in preserving the environment.[8]

Islamic banks play a vital role in directing financing toward sectors that are not only economically viable but also environmentally responsible. Financing products such as *mudharabah* and *musyarakah* can be applied to support green initiatives like

[1] Harjoni Harjoni, 'Strengthening the Green Economy for Developing Countries through the Implementation of Maqasid Syariah', *Islamiyyat*, 46.1 (2024), pp. 45–55, doi:10.17576/islamiyyat-2024-4601-04.

[2] Muhammad Umar and others, 'Carbon Neutrality, Bank Lending, and Credit Risk: Evidence from the Eurozone', *Journal of Environmental Management*, 296.March (2021), p. 113156, doi:10.1016/j.jenvman.2021.113156.

[3] Huril A'ini, Intan Ayu, and Rizka Amaliyah Maghfiroh, 'Keuangan Islam Sebagai Katalisator Green Economy: Menuju Pencapaian SDGs Dalam Kerangka Maqashid Syariah', *MADANI Jurnal Politik Dan Sosial KemasyarakatanJurnal Politik Dan Sosial Kemasyarakatan*, 16.3 (2024), pp. 1–23.

[4] Vikas Nath, Nitin Nayak, and Ankit Goel, 'Green Banking Pracitices – A Review', *IMPACT: International Journal of Research in Business Management*, 2.4 (2014), pp. 45–62.

[5] Aslan Amat Senin and Muhammad Zaki Zaini Qaisar Ali, Shazia Parveen, 'Islamic Bankers' Green Behaviour for the Growth of Green Banking in Malaysia', *International Journal of Environment and Sustainable Development*, 19.4 (2020) <https://www.inderscienceonline.com/doi/pdf/10.1504/IJESD.2020.110650?download=true>.

[6] Ade Kurniadi, Andi Halim Rahman, and Farida Indriani, 'Green Banking Strategy to Support Business Sustainability in Banking Sector; A Literature Review', *Research Horizon*, 04.04 (2024), pp. 1–10, doi:https://doi.org/10.54518/rh.4.4.2024.297.

[7] Arin Setiyowati, Salma Nadia Salsabila, and Dina Novita, 'Green Banking in Sharia Banking; A Comprehensive Study of Environmentally Friendly Policies and Practices to Support Green Economy', *FALAH: Jurnal Ekonomi Syariah*, 10.2 (2025), pp. 1–17, doi:https://doi.org/10.22219/jes.v10i2.41198.

[8] Misnen Ardiansyah and others, 'The Role of Islamic Corporate Governance and Quality of Environmental Disclosures in Moderating the Application of Accounting Conservatism to Mitigate Financial Risks in Islamic Banks', *Journal of Islamic Accounting and Business Research*, 2025, pp. 1–19, doi:https://doi.org/10.1108/JIABR-01-2025-0038.

renewable energy and eco-friendly transportation.[9] This illustrates that green finance is not merely a trend, but an integral part of the ethical and strategic framework of Islamic banking.

As environmental awareness continues to grow, research on green banking has also expanded rapidly, especially within the Islamic banking context. To map this development, bibliometric analysis has proven to be a relevant method. Bibliometrics allows researchers to identify research trends, core keywords, and networks of authors and publications in a specific field of study.[10],[11],[12] By utilizing data from Google Scholar via the *Publish or Perish* application and VOSviewer software, this study explores the research trends on green banking in Indonesia's Islamic banking sector from 2019 to 2024.

Previous studies have shown that green banking has a positive impact on bank profitability, operational efficiency, and corporate image.[13],[14] Moreover, the sustainability report of Bank Syariah Indonesia (BSI) from 2021 to 2023 reveals a significant increase in green financing, particularly in sectors such as natural resource management and green transportation.[15] This supports the notion that Islamic banks are gradually responding to the demand for sustainability-oriented financing practices.[16],[17]

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[9] Kadlina and Agus Munandar, 'Artificial Intelligence in Islamic Finance: How the Maqashid Sharia Views It' (Proceedings of International Conference on Islamic Community Studies, 2025) <https://proceeding.pancabudi.ac.id/index.php/ICIE/article/view/894>.

[10] M. Ghazel, 'Bibliometric Analysis: A Research Methodology for Mapping the Scientific Field', *Journal of Scientometric Research*, 10.2 (2021), pp. 120–30.

[11] At-tijarah Jurnal Penelitian, Perbankan Syariah, and Vol Vi, 'Sharia Principles In Risk Management In Islamic Banking: A Literature Review', *AT-TIJARAH: Jurnal Penelitian Keuangan Dan Perbankan Syariah, PBS IAIN*, 06.02 (2024), pp. 63–80.

[12] Ananda Febrina Choirunnisak, Ahmad Roziq, and Whedy Prasetyo, 'Reducing Risk and Improving the Performance of Islamic Banks in Indonesia', *Asian Journal of Social Science and Management Technology*, 7.1 (2025), pp. 125–46.

[13] Nurul Annisa and Isnaini Harahap, 'Analisis Pengembangan Ekonomi Hijau Dengan Basis Pertanian Dengan Implementasi Maqashid Syariah Di Sumatera Utara', *Al-Kharaj : Jurnal Ekonomi, Keuangan & Bisnis Syariah*, 5.5 (2023), pp. 2535–43, doi:10.47467/alkharaj.v5i5.3505.

[14] Huril A'ini, Ayu, and Maghfiroh, 'Keuangan Islam Sebagai Katalisator Green Economy: Menuju Pencapaian SDGs Dalam Kerangka Maqashid Syariah'.

[15] Setiyowati, Nadia Salsabila, and Novita, 'Green Banking in Sharia Banking; A Comprehensive Study of Environmentally Friendly Policies and Practices to Support Green Economy'.

[16] Article Details, 'Impact of Green Finance and ESG on the Sustainable Performance of Islamic', *Sustainable Business and Society in Emerging Economies*, 7.June (2025), pp. 221–40.

[17] Ita Marianingsih, 'Green Islamic Finance : Sustainable Financing Strategies from the Perspective of Maqasid Al-Shariah', *PAPUA : International Journal of Sharia Business Management*, 2 (2025), pp. 84–100.

However, challenges remain, such as limited green finance literacy, lack of policy incentives, and inconsistency in sustainability reporting.[18],[19] Therefore, it is crucial to examine existing research trends to serve as a foundation for regulators, academics, and practitioners in developing more concrete strategies to promote green banking in Indonesia's Islamic financing system.

Research Methods

This study adopts a qualitative, approach using literature review and bibliometric analysis methods.[20],[21] These methods were chosen to systematically understand the development of research related to the implementation of green banking in Islamic bank financing products in Indonesia during the period of 2019–2024. This approach also allows the researcher to explore relationships across relevant academic publications.[22]

Data collection was carried out by searching for scientific articles through the Google Scholar database using keywords such as "green banking," "green finance," and "Islamic banking." The data retrieval process was assisted by the *Publish or Perish* software, which extracts publication metadata including author names, article titles, and publication years. The collected articles were then filtered using inclusion criteria such as the 2019–2024 publication range, topic relevance, and full-text accessibility.

Data analysis was conducted using bibliometric techniques. The selected articles were analyzed with the help of VOSviewer software to map keyword relationships (*co-occurrence*), topic trends, and publication networks. This analysis aims to identify dominant themes, publication frequency, and potential areas for future research.[23],[24] Through this approach, the study is expected to offer a comprehensive

[18] Chen Liu and Serena Shuo Wu, 'Green Finance , Sustainability Disclosure and Economic Implications', *The Emerging Areas of Green Finance*, 3.1 (2023), pp. 1–24, doi:10.1108/FREP-03-2022-0021.

[19] Joseph E. Stiglitz Muller, 'Sustainable Finance and Green Investment: Policy Frameworks and Implementation Challenges', *Journal of Nusantara Economy*, 4.2 (2025), pp. 88–111.

[20] Sugiyono, *Metode Penelitian Kuantitatif Kualitatif Dan R & D* (ALPABETA, 2013).

[21] Zhikun Ding;, Kairui Zheng;, and Yi Tan, 'BIM Research vs BIM Practice: A Bibliometric-Qualitative Analysis from China', *Engineering, Construction and Architectural Management*, 29.9 (2022), pp. 3520–3546, doi:https://doi.org/10.1108/ECAM-01-2021-0071.

[22] Adelia Vidya Rana, 'The Impact of Green Banking Initiatives: Assessing Environmentally Friendly Banking on Islamic Banks in Indonesia', *SUKUK: International Journal of Banking, Finance, Management and Business*, 3.1 (2024), pp. 1–15 <https://sukukjournal.org.uk/index.php/sukuk/article/view/38>.

[23] Ludo Waltman, Nees Jan van Eck, and Ed C.M. Noyons, 'A Unified Approach to Mapping and Clustering of Bibliometric Networks', *Journal of Informetrics*, 4.4 (2010), pp. 629–35, doi:https://doi.org/10.1016/j.joi.2010.07.002.

[24] Nees Jan and Van Eck Ludo, 'Software Survey : VOSviewer , a Computer Program for Bibliometric Mapping', *Scientometrics*, 84.5 (2009), pp. 523–38, doi:10.1007/s11192-009-0146-3.

overview of the development of green banking studies within the context of Islamic financing in Indonesia.

Research result

Network Visualization of Publication Trends and Research Focus on Green Banking Implementation

This study employs a bibliometric method to analyze 60 academic articles related to the implementation of green banking in financing products offered by Islamic banks in Indonesia. The articles were retrieved from Google Scholar and processed using *Publish or Perish* and VOSviewer software. This analysis was conducted to identify publication trends, topic interrelations, and dominant research focuses within the 2019–2024 period.[25],[26] The number of publications has increased significantly over time. In 2019, there were only 3 relevant articles, while in 2024, this number rose to 22 (see Figure 1). This upward trend reflects a growing academic interest in sustainability issues within the context of Islamic finance.[27],[28]

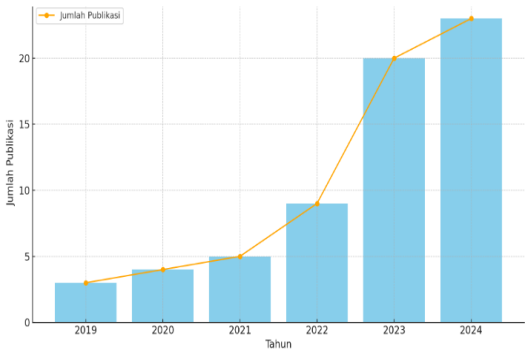


Figure 1. Number of Publications on Green Banking in Islamic Banking (2019–2024)

The VOSviewer keyword co-occurrence analysis identified *green banking*, *Islamic banking*, *sustainability*, *green finance*, and *profitability* as prominent terms within the research landscape. The relationships among these keywords indicate that green banking research in Indonesian Islamic banking is primarily associated with three interconnected themes. First, the relationship between green banking practices and financial performance reflects scholarly interest in understanding whether environmentally responsible banking operations and financing practices contribute to

[25] Jan and Ludo, 'Software Survey : VOSviewer , a Computer Program for Bibliometric Mapping'.

[26] Waltman, Eck, and Ed C.M. Noyons, 'A Unified Approach to Mapping and Clustering of Bibliometric Networks'.

[27] Liu and Wu, 'Green Finance , Sustainability Disclosure and Economic Implications'.

[28] Valerio Brescia and others, 'Exploring Sustainability from the Islamic Finance Perspective', *EJIF European Journal of Islamic Finance*, 19 (2021), pp. 45–53, doi:10.13135/2421-2172/6107-.

bank profitability. However, empirical evidence remains mixed, suggesting that the financial implications of green banking may depend on the scope of implementation, operational costs, and the time horizon considered in the analysis.[29] Second, the connection between sustainability and *maqāṣid al-sharīʿah* highlights the potential for integrating environmental responsibility with the broader objectives of Islamic finance, particularly the promotion of social welfare, justice, and the protection of human well-being.[30],[31] Third, the relationship between digital transformation and environmental sustainability suggests an emerging research direction in which digital banking services may support operational efficiency and reduce resource consumption, although their actual environmental benefits require further empirical investigation.

Taken together, these keyword relationships suggest that green banking research in Indonesian Islamic banking extends beyond conventional financial performance considerations toward a broader sustainability oriented framework.[32] Nevertheless, the co occurrence of keywords represents thematic associations within the literature rather than direct evidence of causal relationships. Further research is therefore needed to examine how green banking practices can be integrated into Islamic banking governance, sustainable financing, digital innovation, and *maqāṣid al-sharīʿah*-oriented performance measurement.

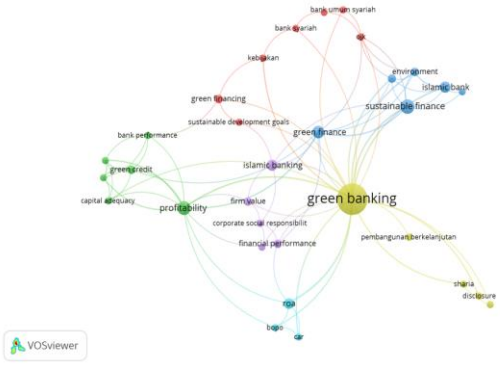


Figure 2. Dominant Keywords in Green Banking Research within Islamic Finance (2019–2024)

[29] Iqbal Rafiqi and others, 'Risk Mitigation Strategy in Financing Without Collateral at PT . BPRS Sarana Prima Mandiri Pamekasan', *Journal of Islamic Economics Perspectives*, 5.2 (2023), pp. 94–104.

[30] Harjoni, 'Strengthening the Green Economy for Developing Countries through the Implementation of Maqasid Syariah'.

[31] Iqbal Rafiqi and others, 'Typology Of Sharia-Compliant Business Capital Services to Support The Economic Development of Rural Communities', *Assyarikah : Journal of Islamic Economic Business*, 5.2 (2024), pp. 272–85.

[32] Zainal Abidin and others, 'Financing Innovation for Sustainable Supply Chain Management in Social Business: A Case of Qurban Rituals in Indonesia', *Journal of Islamic Accounting and Business Research*, 15.2 (2024), pp. 342–66, doi:10.1108/JIABR-09-2021-0250.

Furthermore, the author collaboration network provides insights into the institutional dynamics underlying green banking research in Indonesian Islamic banking. The participation of researchers affiliated with Islamic higher education institutions, including UIN Syarif Hidayatullah Jakarta and Universitas Islam Indonesia, highlights the contribution of Islamic economics and finance scholarship to sustainability oriented banking research. These institutions provide an academic context for examining the relationship between Islamic financial principles, environmental responsibility, and sustainable economic development. Contributions from academics at private Islamic higher education institutions may further broaden the perspectives through which green banking is investigated.[33]

From a bibliometric perspective, author collaboration networks help reveal patterns of knowledge exchange and the extent of scholarly cooperation among researchers. However, institutional representation should be distinguished from actual collaboration intensity. The presence of authors affiliated with particular universities does not necessarily indicate strong interinstitutional collaboration. Therefore, the distribution of co authorship clusters, the number of collaboration links, and total link strength in the VOSviewer visualization are important indicators for identifying influential researchers and collaborative research groups. These indicators can provide a more comprehensive understanding of how green banking knowledge is developed and disseminated within Indonesian Islamic banking research.

Despite the contributions of these academic institutions, further opportunities remain to strengthen collaboration across public and private universities and between researchers from different disciplines. Greater cooperation could facilitate research integrating green banking practices, Islamic financial governance, digital transformation, environmental sustainability, and *maqāṣid al-sharīʿah*.[34] Such an integrated approach would help expand the research agenda beyond conventional banking performance toward the broader environmental and socioeconomic

[33] Safeer Ullah Khan & Manzoor Ahmad Khan Ikram Ullah Khan, Zahid Hameed, 'Green Banking Practices, Bank Reputation, and Environmental Awareness: Evidence from Islamic Banks in a Developing Economy', *Environ Dev Sustain*, 26 (2024), pp. 16073–16093, doi:https://doi.org/10.1007/s10668-023-03288-9.

[34] Muhammad Shahrul Ifwat Ishak and Fathullah Asni, 'The Role of Maqasid Al-Shariʿah in Applying Fiqh Muamalat into Modern Islamic Banking in Malaysia', *Journal of Islamic Accounting and Business Research*, 11.9 (2020), pp. 2137–54, doi:10.1108/JIABR-12-2019-0224.

implications of Islamic banking.[35] Consequently, strengthening interinstitutional collaboration may contribute to a more coherent and contextually relevant body of knowledge on green banking in Indonesia.

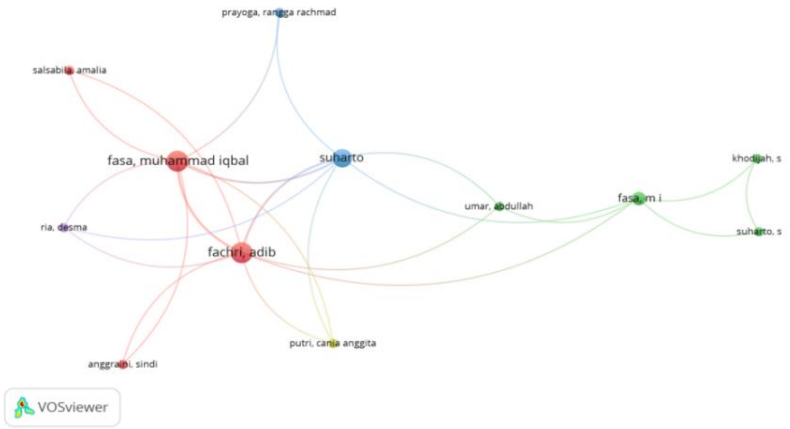


Figure 3. Network Visualization of Researcher Dominance in Green Banking Studies (2019–2024)

Discussion

Development of Research Discussions on Green Banking Implementation (2019–2024)

In 2019, three studies highlighted the initial academic interest in green banking within the Islamic banking sector.[36] reported that Bank Mandiri Syariah had already begun implementing sustainable finance in 2018, with green financing accounting for 29.56% of its total financing. The bank also formulated a five year sustainable finance roadmap. Hanif emphasized a positive correlation between green banking and profitability, and pointed out the alignment of this concept with Islamic principles.[37],[38] Meanwhile, Diah Anggraini analyzed the impact of green banking policies on profitability and found that although green banking showed a positive effect, it also posed challenges to bank efficiency, indicating early implementation barriers.[39],[40]

[35] Miranda and Iqbal Rafiqi, 'Pengaruh Perbankan Syariah Terhadap Financial Deepening Di Indonesia Dengan Inflasi Sebagai Variabel Moderating', *Journal of Sharia Economics*, 7.1 (2025), pp. 18–39 <http://dx.doi.org/10.35896/jse>; Iqbal Rafiqi and Annisa, 'Determinants of Profitability of Islamic Commercial Banks in Indonesia With Third-Party Funds As a Moderating Variable', *Assyarikah : Journal of Islamic Economic Business*, 4.1 (2023), pp. 75–90.

[36] Lucky Nugroho, 'Strategi Bank Mandiri Syariah Dalam Implementasi Green Banking Dan Sustainable Finance', *Jurnal Akuntansi & Perbankan Syariah*, 2019.

[37] M. Hanif, 'Keselarasan Green Banking Dengan Prinsip Ekonomi Islam', *Jurnal Ekonomi Syariah Indonesia*, 2029.

[38] Setiyowati, Nadia Salsabila, and Novita, 'Green Banking in Sharia Banking; A Comprehensive Study of Environmentally Friendly Policies and Practices to Support Green Economy'.

[39] I. B. Diah, A., Aryani, D. N., & Prasetya, 'Analisis Implementasi Green Banking Dan Kinerja Keuangan Terhadap Profitabilitas Bank Di Indonesia (2016–2019)', *JBMI: Jurnal Bisnis, Manajemen Dan Informatika.*, 2019.

In 2020, research began to expand its focus toward digital innovation and transparency. Muchyiddin emphasized that digital banking supports the implementation of green banking not only for efficiency but also as a form of financial sustainability in the era of Society 5.0.[41] Widyaningrum observed that BRI Syariah had started adopting environmental risk mitigation policies, although it still faced challenges related to standard operating procedures (SOPs).[42] Andarsari reviewed sustainability reports from state-owned banks and categorized green banking practices into four aspects: green products, green operations, green customers, and green policies.[43] Ningsih found that green banking had a positive influence on bank profitability,[44] though the impact was relatively minor compared to other contributing factors.

This year 2021 marked a strengthening of digital approaches and the evaluation of corporate social responsibility (CSR). Milza,[45] highlighted the role of BSI Mobile in promoting paperless banking.[46] Nurmalia examined the relationship between green banking and capital adequacy ratio (CAR) on profit growth.[47],[48] While the relationship was not significant when tested individually, both variables contributed positively when analyzed simultaneously. Rachman confirmed that green banking has a positive impact on return on assets (ROA).[49],[50] Winarto,[51] demonstrated that the disclosure of green banking initiatives significantly increases a bank's corporate value.

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[40] Iqbal Rafiqi and others, 'Investigasi Peran Fee Based Income Terhadap Profitabilitas (ROA) Di Bank Syariah Indonesia (Studi Kasus Pada PT. Bank Syariah Mandiri Periode 2005-2014)', *Masyrif: Jurnal Ekonomi, Bisnis Dan Manajemen*, 1.2 (2020), pp. 123–44, doi:10.28944/masyrif.v1i2.474.

[41] D. Muchyiddin, 'Peran Digital Banking Dalam Green Banking Perspektif Keuangan Syariah', *Jurnal Ekonomi Islam Modern*, 4.1 (2020), pp. 58–70.

[42] N. Widyaningrum, 'Evaluasi Implementasi Green Banking Di BRI Syariah', *Jurnal Ekonomi Syariah Nusantara*, 5.1 (2020), pp. 19–29.

[43] D. Andarsari, 'Analisis Laporan Keberlanjutan Bank BUMN Dalam Perspektif Green Banking', *Jurnal Riset Perbankan Syariah*, 5.2 (2020), pp. 40–52.

[44] T. I. Ningsih, 'Analisis Pengaruh Green Banking Terhadap Profitabilitas Bank Syariah Di Indonesia', *Jurnal Keuangan Syariah*, 5.1 (2020), pp. 15–27.

[45] M. A. Milza, 'Green Digital Banking Dalam Perbankan Syariah. Jurnal Ekonomi Dan Teknologi Syariah', 2021.

[46] Y P Angelina and A Yasin, 'Penerapan Model UTAUT Terhadap Minat Dan Perilaku Masyarakat Kota Surabaya Menggunakan Mobile Banking', *Jurnal Ekonomika Dan Bisnis Islam*, 7.1 (2024), pp. 18–30 <https://journal.unesa.ac.id/index.php/jei>.

[47] S. Nurmalia, 'Green Banking Dan CAR Terhadap Pertumbuhan Laba', *Jurnal Riset Perbankan Islam*, 2021.

[48] Yulia Purnama, 'Analisis Penilaian Tingkat Kesehatan Pada Bank Central Asia (BCA) Syariah Berdasarkan Metode Camel (Studi Kasus Pada PT Bank BCA Syariah Periode 2015-2019)', *EKSISBANK: Ekonomi Syariah Dan Bisnis Perbankan*, 6.1 (2022), pp. 90–108, doi:10.37726/ee.v6i1.408.

[49] A. Rachman, 'Green Banking Terhadap ROA Bank Syariah', *Jurnal Ekonomi Islam Terapan*, 5.1 (2021), pp. 21–33.

Research in 2022 showed a significant deepening in focus. Johan proposed the integration of green finance with *maqashid sharia* and the Sustainable Development Goals (SDGs).[52] Fauzin introduced the use of *cash waqf* as an alternative source of environmentally friendly financing.[53] Salsabila criticized the low level of practical implementation of green banking and called for policy intervention.[54] Khaer and Putri argued that digital innovations such as e-banking enhance environmentally friendly practices in Islamic banking.[55] Khamilia stressed the need for consistent sustainability disclosure standards.[56] Sindi Anggraini concluded that integrating green banking improves profitability, although the effects of specific variables still vary across studies.[57]

A total of 18 studies published this year 2023 revealed several major research trends. First, the relationship between green finance and profitability,[58] with mixed results ranging from positive, negative, to insignificant impacts. Second, the implementation of green banking in daily operations,[59] which demonstrated its influence on operational efficiency and bank reputation. Third, the role of e-banking and operational cost efficiency,[60] where green banking helped reduce the operational cost ratio,[61] although it had not yet shown a direct impact on return on assets.[62],[63]

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[50] Nur Fadjrih Asyik Zainurrafiqi, Gazali, Zef Risal, Rachman Hakim, Rusdiyanto, 'Organizational Resilience, Strategic Foresight, and Green Supply Chain Integration: A Pathway to Sustainable Performance in MSMEs Through Green Competitive Advantage', *Journal of Management World*, 4.856–866 (2024), doi:https://doi.org/10.53935/jomw.v2024i4.552.

[51] A. Winarto, 'Green Banking Dan Nilai Perusahaan Pada Bank Syariah', *Jurnal Keuangan Syariah*, 2021.

[52] R. Johan, 'Green Finance Dalam Perspektif Maqashid Syariah Dan SDGs', *El-Iqtishady*, 2022.

[53] F. Fauzin, 'Peran Wakaf Uang Dalam Mendukung Green Finance', *Jurnal Ekonomi Islam Nusantara*, 6.1 (2022), pp. 45–58.

[54] A. Salsabila, 'Evaluasi Implementasi Green Banking Dalam Pembiayaan Syariah', *Jurnal Keuangan Berkelanjutan Islam*, 2022.

[55] A. N. Khaer, M., & Putri, 'Digitalisasi Green Banking Pada Lembaga Keuangan Syariah', *Jurnal Keuangan Islam*, 3.2 (2022), pp. 33–45.

[56] N. Khamilia, 'Standarisasi Laporan Keberlanjutan Di Bank Syariah', *Jurnal Audit Syariah*, 5.1 (2022), pp. 70–82.

[57] A. Anggraini, S., Fasa, M. I., Suharto, & Fachri, 'Analisis Pengaruh Green Banking Terhadap Profitabilitas Bank Umum Syariah Di Indonesia', *JBMIB*, 2022.

[58] Febrianto Goeliling, Afifah, 'Analisis Empiris Hubungan Green Finance Dengan Profitabilitas Perbankan Syariah', *Jurnal Akuntabilitas Syariah*, 8.2 (2023), pp. 60–72.

[59] Khodijah Mutaqin, 'Efektivitas Implementasi Green Banking Terhadap Efisiensi Operasional Bank Syariah', *Jurnal Akuntansi Dan Bisnis Islam*, 2023.

[60] Mustika Umar, 'E-Banking Dan Efisiensi Biaya Operasional Bank Syariah', *Jurnal Perbankan Syariah Digital*, 2023.

[61] Ratih Puspita Ningrum, Muhammad Nur Alam, and Budi Sukardi, 'ANALISIS RASIO KEUANGAN UNTUK MENGETAHUI KINERJA BANK SYARIAH INDONESIA Ratih', *Jurnal Ekonomika Dan Bisnis Islam*, 6.3 (2023), pp. 43–51.

Fourth, contributions of green investment toward sustainability,[64] discussions on legal and regulatory frameworks,[65] and strategies toward achieving Net Zero Emission by 2060.[66]

This year marked the peak in publication volume, with 22 articles released. Research themes began shifting toward the integration of ESG (Environmental, Social, and Governance) and *green sukuk* into Islamic financial practices.[67] A study by Cindy Anggreni illustrated how Bank Syariah Indonesia's Kabanjahe branch incorporated environmental documentation into its financing assessment process.[68] Several other studies focused on evaluating green portfolios as reported in major banks' sustainability reports. Adelia was frequently cited as a comparative study to assess green banking adoption in developing countries.[69] Research by Loso et al.[70] emphasized the importance of technology based environmental risk management strategies and utilized VOSviewer analysis to identify research collaboration trends and keyword patterns.[71]

Conclusion

The number of studies on green banking in Islamic banking has significantly increased from 2019 to 2024. On average, publications on this topic grew by approximately 48.96% annually during this period. The year 2024 recorded the highest number of publications, with 22 articles (33.94% of the total analyzed), reflecting the

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[62] Saiful Saiful and others, 'The Impact of New Financial Instrument and Lease Accounting Standard on Financial Performance of Companies', *EKUITAS (Jurnal Ekonomi Dan Keuangan)*, 7.1 (2023), pp. 102–27, doi:10.24034/j25485024.y2023.v7.i1.5565.

[63] Saiful and others, 'The Impact of New Financial Instrument and Lease Accounting Standard on Financial Performance of Companies'.

[64] N. Asyura, 'Green Investment Pada Bank Syariah Dan Pengaruhnya Terhadap Pembangunan Berkelanjutan', *Jurnal Ekonomi Hijau*, 3.2 (2023), pp. 65–78.

[65] F Kontesa, 'Urgensi Regulasi Green Banking Dalam Perbankan Syariah', *Jurnal Hukum Keuangan Syariah*, 2.1 (2023), pp. 30–42.

[66] S. Hanum, 'Strategi Bank Syariah Menuju Net Zero Emission 2060', *Jurnal Keuangan Hijau Islam*, 3.1 (2023), pp. 22–34.

[67] Adelia Vidya Rana, 'The Impact of Green Banking Initiatives: Assessing Environmentally Friendly Banking on Islamic Banks in Indonesia'.

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growing academic interest in sustainable banking within the Islamic finance context. Over the past five years, research on green banking in Islamic banking has expanded across various dimensions, including financial performance and profitability, regulatory frameworks, environmental and social impact, as well as technological innovation and digital transformation. Future research may broaden the discussion by incorporating international journal sources that examine the implementation of green banking in Islamic financial institutions outside Indonesia. Such comparative studies could enrich the academic discourse and offer valuable insights into global best practices in Islamic green finance.

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