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Financial Performance, Asset Management, and Sustainability in Emerging Market Industries

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Abstract
India depends on coal industry to grow its economy. Massive investments in coal mining are required in order to enhance a stable energy supply. Effective management of assets enhances efficiency of capital investment, financial performance, and is critical in encouraging investing activities in the industry. This paper examines the correlation between asset management and financial performance of both the publicly and privately owned coal companies in Jharkhand, India, to elucidate the relationship of asset management in the industry and to find out whether ownership type influences asset management efficiency and its performance.

This study uses a panel econometric model to investigate a rich data set of Jharkhand coal companies which had been in operation between 2013 and 2021. An input-oriented non-parametric technique is a technique of estimating the efficiency of asset management as a relevant firm-specific proxy. The financial performance is evaluated based on the liquidity, profitability and productivity indicators. Capital structure, governmental assistance, operational sustainability among other firms-specific factors vary immensely between public and private firms in the Jharkhand coal industry and this requires the two types of ownership structures to be compared as a way of explaining the significance of asset management.

The process of asset management can be perceived as the increase of the efficiency of capital investment and use in and use of both fixed and current assets . However, the precise definition is quite diverse in the available literature, so it is impossible to find a single consistent theoretical framework. As reported by Zheng et al. two applicable dimensions in the decision-making situation are efficiency in capital investment with the goal of enhancing future revenue and efficiency in assets utilization with the aim of enhancing turnover. In the specifics of industry, the physical essence of the coal resources presupposes fewer opportunities of adjustment and changes in the utilization, which limits the scope of adoption to the turnover of assets. Extra financial resources, governmental assistance, and state-sponsored infrastructural investment enhance access to capital in the public companies and promote their functioning and developmental opportunities; whereas the political guidance to the government sector and the subsidy supply tends to reduce the quality of services and productivity in the context of the private companies)

Key Words: Asset Management, Financial Performance, Coal Industry, Public and Private Ownership, Capital Investment Efficiency, Profitability, Liquidity, Operational Sustainability

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Introduction

The given review attempts to address this gap by conducting a systematic review of the interaction between ESG performance, working capital efficiency, and overall financial stability with a particular emphasis on the emerging markets where the relationships are in moderation by the institutional context and governance frameworks. Moreover, it is essential to learn the consequences of these combined strategies, considering that an efficient working capital management is directly correlated with the performance of a firm in the long run, and the negative impact of the suboptimal choice on its financial sustainability . This especially applies to the developing economies, in which the perception and adoption of ESG as part of the corporate strategy tend to be slower because of the less effective enforcement framework and the focus of the majority of economic policies on the short term, although the globalized economy requires sustainability . In turn, the study on the impact of ESG disclosure on the working capital management and the financial resilience in such markets is crucial to the comprehensive explanation of sustainable corporate growth. Although this interest increases, how exactly ESG disclosures are transformed into a concrete financial advantage and particularly in improving the efficiency of working capital in these settings is poorly studied . Such a gap prompts the further exploration of the correlation between ESG performance metrics and, in particular, environmental and social pillars and lower working capital requirements and more efficient liquidity strategies . Thus, the systematic review will examine how a shift to the comprehensive ESG practices can result in better working capital management results, and eventually, the development of better financial performance and value creation over the long term in emerging economies . Subsequent studies might also examine how these two variables, managerial skill, intellectual resources, and genuine earnings management influence firm performance under these conditions . Additionally, their connection with ESG factors can provide subtle details about the process through which companies in the emerging markets find their way through financial policy and sustainable development . Longitudinal research is essential to merit the long-term gain and losses of ESG efforts, which give more in-depth understanding of the impact of ESG initiatives on the risky behavior of firms and their performance over various economic cycles . Specific ESG indicators, including climate change efforts, or employee welfare programs, would also be advantageous to such investigations in order to establish their unique role in lowering the cost of financing and supporting the performance of firms . Also, the study of effectiveness and effects of regulatory interventions on the sustainability disclosure in various countries may provide useful information on the role of policy frameworks in shaping the ESG-finance nexus It was also possible to gain a more thorough picture by examining a wider set of data on a variety of emerging markets, potentially endogeneity issues could be handled more rigorously and ESG can be disaggregated into its various elements to reveal specific relationships . In this way, a more subtle analysis of the impact of individual environmental, social, and governance aspects on or against financial performance would be possible, instead of assuming that ESG is a one-dimensional phenomenon . Also, the future research might examine the possible mediating and moderating variables including stakeholder pressures, institutional environments, and contextual dynamics that might contribute to the ESG-finance nexus and provide a more detailed insight into how ESG factors change corporate financial strategies . More studies of the diverse overtones of implementing ESG principles in corporate finance are necessary, particularly as the existing perception can be overemphasized with the operational cost and reduced profitability Rather, further empirical research is needed to measure the true returns on investment of ESG integration and distinguish the impact of these effects in each industry sector and geopolitical environment . Also the dynamism of macroeconomic indicators should be taken into account in such research as it could have a significant impact over time, on the ESG-financial performance relationship, at various economic conditions. Going deeper into the

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comparative studies of the dissimilar ESG scoring procedures would also provide invaluable knowledge on rating variances and its effect on the firm valuation and stakeholder assurance . In addition, an analysis of the moderating effect of green innovation and the difference between substantive and symbolic ESG activities may also be invaluable to understand the sincerity of the firm and the reliability of the information that the company offers to investors. More rigorous data-gathering techniques, including direct observations or longitudinal analysis, should also be used in future investigations to make the results more reliable and valid and more closely reflect the dynamic nature of these interactions over time . Also, it is possible to examine the effects that various instruments of green finance, including green credit and green insurance, have on the ESG performance of enterprises, and not only the aggregated ESG score but also the dimensions in particular . These studies would offer a more detailed perspective of how certain financial instruments can enable the realization of sustainability goals and affect the financial performance and sustainability of companies in the long-term. More research is required to comprehend how green finance impacts the performance and corporate social responsibility of high-energy-consuming businesses, as well as the transmission channels by which green finance impacts businesses . Also, the study can be extended to understand the impact of the combination of different elements of ESG compliance with green financing on the performance of the firm, including social capital, human rights, and health and safety of employees . Besides, the dynamic interaction of ESG performance with financial performance in different business sectors and geographical locations is the subject of additional research to be conducted to understand its consequences in terms of long-term growth and competitiveness . The qualitative testing might also be included in future research to boost the explanatory effectiveness of the models that concentrate on this connection . Lastly, there might also be future studies on the economic implications depending on the increased ESG ratings and the mechanisms, in particular, investor trust and publicity that ESG performance affects corporate innovation . Also, investigating the extent to which different degrees of transparency in sustainability reporting influence market perceptions and, eventually, the value of the firms may be indispensable knowledge on the effectiveness of disclosure regulation. Additionally, there is a need to deal with endogeneity using rigorous statistical procedures or natural experiments to determine the cause and effect relationships in sustainability. Primary data or natural experiments should also be used in future studies to better investigate what factors are behind the increasing relationship between ESG performance and firm value, especially how the decision-making of the investors can change in terms of incentives and preference. To offer a more dynamic view of ESG-finance nexus, longitudinal studies on such relationships over time, in particular in reaction to changing environmental policies and technology changes, are also required (Kwilinski et al., 2025). In addition, a deeper investigation of the independent and interactive influences of each ESG dimension on firm value would help gain a better idea of the intricate presence of such relationships both on the industry- and region-level . The interdependence between the corporate governance mechanisms and ESG factors should be also examined in future research, in relation to the impact of comprehensive ESG disclosures on the firm value and investor perception in the long-term . This may entail the study of the effect of developing forms of governance and the use of technology in supporting ESG reporting . Moreover, an evaluation of the causal variables that provoke the effect of ESG on financial performance, including activities on emissions, innovation, and community participation, might provide a more accurate perception of how particular ESG initiatives can be converted into real economic gains . Moreover, a thorough examination of the interaction between ESG scandals and firm value with the help of sophisticated econometric models such as difference-in-differences, propensity score matching, may clarify the causal effects of reputational and financial effects . The particular mechanisms by which sustainability reporting is likely to impinge organizational outcomes, particularly in financial performance, risk management, and stakeholder engagement in various industries and geographical locations should also be studied in more empirical research .

2. Methodology

This SLR studies a filtered body of over 40 research summaries and abstracts. Four general thematic clusters were identified in the literature i.e., working capital efficiency and profitability, physical asset management and digitalization, ESG and sustainability impacts and capital structure and corporate governance.

This criterion framework contributed to the systematic analysis of the current research trends, underlying theory, and empirical findings in any direction, which leads to a solid foundation in identifying the significant gaps in knowledge and the direction of research in the future. In the subsequent paragraphs of this paper, all thematic areas are going to be addressed in a more detailed manner, as the available evidence will be summarized, and the methods, in which the previous researchers conducted their research, will also be critically estimated . This type of organization allowed to identify recurrent themes and discrepancies in the literatures and, therefore, synthesize the knowledge of corporate sustainability and financial performance on a holistic basis . Specifically, the intermediated role of corporate governance between the sustainability disclosures and financial performance were taken into consideration bearing in mind the intricacies posed by the variable reporting standards and the need to have more transparency in the sustainability reporting . In this respect, the solution to this predicament must be establishing objective signifiers of credibility and consistency between ESG reporting and actual corporate practices, which can be achieved through cross-country comparative studies to ascertain how well the policies work across varying legal and financial systems . The importance of the financial management in sustainable business operations also needs further examination particularly during the procedure of standardizing the methods of determining the financial implications of sustainability projects . This would entail the pursuit of the interdependency of short term needs of profit making and long term environmental values that the companies generate especially in the mobilization of resources towards sustainability projects that incur heavy initial investments . Additionally, there is a need to observe how corporate governance constructions and governmental policies can be used in the implementation and success of sustainable practices, particularly in the light of the new themes of Industry 4.0 and supply chain management . This involves an overall inclusion of various dimensions including corporate governance practices, environmental, social, and ethical dimensions in the conventional financial measures to reflect the more holistic picture of performance . This interdisciplinary approach is critically needed to rationalize the contribution of the non-faith variables, including environmental and social responsibility, on financial performance, in terms of sustainable investing . Furthermore, the associations between corporate governance policies and sustainability in financial performance and market value in the long term and between the mediating and moderating variables that amplify or reduce the same should be addressed in future studies . To gain a better understanding of the complex relationship between corporate sustainability performance and the financial performance, one should take the interdisciplinary approach, integrating the knowledge of corporate finance, environmental science, and social psychology . It also implies a closer study of the way the corporate governance mechanisms and incentives may be employed to reconcile the potential conflicts of interests and align the financial policies with environmentally friendly operations . The longitudinal studies are also needed to follow the evolving nature of the sustainability initiatives and their financial consequences over the long term These could use a state-of-the-art panel data, decomposing causality in such research and identifying the specific ways in which sustainability projects can become sustained financial gains in the long term.Finally, to get a more nuanced understanding of these relations, it is essential to

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understand how the status of the situation in different industries and specific peculiarities of firms can influence the sustainability-financial performance nexus, the development status being one of the factors . It will be able to create tailor-made strategies that can raise the market value and achieve sustainable economic prosperity within a large population of organizations The future research can expand the subject to involve more sample and a broader geographical area particularly those with exemplary policies in climate protection to validate the generalizability of the current findings . This would entail research of some industry-specific measures, comparative research on the different hybrid financial analysis methods, and the effects of the long-term sustainability of sustainable practices to the financial performance in long-term studies . The mediating and moderating factors, not mentioning the potential presence of greenwashing activity, are critical to the discovery of the complicated causal connection among the environmental, social, and governance practices and the financial performance . In addition, the research of these types of intangible resources as corporate reputation and their effects on the relationship between performance of corporate social responsibility and financial performance can provide more strategic data concerning the utilization of CSR as a competitive advantage . Besides, comparisons and cost-benefit analysis of the green initiatives across sectors would provide viable information to various stakeholders who are interested in aligning organizational performance to the global sustainability). Additionally, the institutional frameworks and their influence on the process of implementing sustainability practices into the core strategic business decisions is a field with limited research . It is the approach to addressing the endogeneity problems through dynamic panel estimators, e.g. system GMM, to make stronger causal inferences . Future research should also focus on the existence of sector-specific peculiarities and identify what influences carbon disclosure other than the financial profitability and how the environmental performance acts as the mediator between the market value and the carbon emission disclosure . In addition, the future studies can examine the effects of the size of the firm and ownership arrangement on the relationship between sustainability and financial performance , and the impact of sustainability on the strategic performance of an organization. The areas of future research are to include the sustainability norms and legislation into the analyses, examine this phenomenon in the context of harmonization of sustainability practice perspective, and consider the different periods, including the long-term perspective. This might involve a confirmatory factor analysis that can used to examine the relationships between high financial performance and effective governance practices . Moreover, the lack of bibliometric approaches and the utilization of more diverse databases and languages could provide a larger view of the complex interconnection between Corporate Social Performance and Corporate Financial Performance . Specifically, the possibility of finding the nonlinear correlation between the variables and applying an alternative operationalization scheme could help obtain a more detailed picture of a complex interaction between the variables .

Furthermore, future studies may expand the current framework with the help of the organizational variables, such as the organizational performance, CSR skepticism, and employee branding and implement the longitudinal and hybrid designs on the scope of the shifting role of CSR . Besides, the corporate governance mechanisms, including the characteristics of the board of directors as mediators between social corporate performance and financial performance of the firms, are to be explored further, along with the effects of the mechanisms on the sustainability and financial performance of the firms . The control variables that would be required to ensure the soundness of the results would include the size of the company, environmental performance, and the type of industry . There is also research interest to study the moderation nature of various internal and external factors such as the nature of industry and regulation on the ESG-financial performance nexus though in a holistic view to such complex relationships.

3. Results and Thematic Analysis

3.1 Working Capital Management and Profitability

It can be seen that the relationship between WCM and firm performance is complex and non-linear in nature, as depicted in the literature. Optimal Levels and the Inverted U-Shape: The relationship between WCM and profitability is also inverted U-shaped with multiple studies having found this particularly regarding a sample of 437 non-financial firms and another of 2122 SMEs. This means an increase in investment in working capital can bring about improvement in performance to a certain extent, but the higher the investment in working capital, the higher the returns will decrease. Life Cycle and Business Nature: According to a study on non-financial companies in Pakistan (2005-2014), it is observed that the adverse effect of WCM is the most significant at the stages of introduction and decline of the corporate life cycle. Further, the importance of WCM also depends on the sector, and Indian companies in manufacturing, trading and services are more or less sensitive to the net trade cycle. Crisis Resilience: Comparative analysis demonstrates that WCM affected the performance of the firm in the COVID-19 pandemic significantly than in the 2008 financial crisis. Manufacturing vs. Mining: Conservative investment policy only increased profitability in 829 Indian manufacturing firms, whereas WCM showed no clear effect on profitability in the Indian mining sector where environmental factors such as the temperature played a greater role. The connections between environmental, social, and governance issues and working capital management deserve additional research, especially considering the evidence that the higher the ESG performance, the shorter the cash conversion times and the lower the working capital, in the sample of different firms . This finding can imply that sound ESG standards can drive operational efficiencies to reduce risks posed by working capital movement and increase financial stability . This interaction also indicates that the integrated reporting of ESG-measures and working capital policies might allow showing a more comprehensive picture of corporate performance and resilience . This inverted U-shaped relationship can be explained by the fact that inadequate working capital limits the efficiency of operations, and high investment in working capital raises operational expenses, which leads to a decrease in profits due to the high financing and opportunity costs (Silva & Silva, 2026). This principle is consistent with empirical evidence that shows that there is an optimal level of working capital that does not maximize the cost and benefits but maximizes the performance of the firm . In particular, it can lead to increased profitability through a reduction in accounts receivable and inventory, which will reduce the cash conversion cycle, but excess reduction may damage customer satisfaction or interfere with production . On the other hand, having the right amount of inventory and giving generous credit terms will lead to improved customer relations and continuity of operation though at the possible expense of working capital Nevertheless, there are also works that suggest that the application of aggressive working capital financing strategy can positively affect the performance of corporations in the periods of the economic downturn and that strategic changes are needed in this period of instability . This subtle connection shows that companies should be able to actively regulate their working capital according to the peculiarities of the economic environment and industry environment to increase profitability and long-term development . As an example, the cash conversion cycle and the turnover of working capital should have a U-shaped relation, which means that excessively active and excessively passive working capital policies may have adverse outcomes on the profitability . This is the optimal amount of working capital investment in the sense that it trades off between liquidity and profitability, and eventually will maximize the value of the firm .Thus, managers should strategically trade off the nature of working capital to ensure the best profitability of the firm . Additionally, the modulating role of financial leverage is an issue that firms should take into account when examining the working capital-performance relationship since it may convert a U-shaped influence into a more intricate one .

3.2 Physical Asset Management and Technological Integration

Asset management is recognized as one of the direct causes of operational and financial prosperity.
Core Practices: A study has shown that there is a direct positive effect of the integration of PAM core practices (such as strategy, risk management, and lifecycle delivery) to operational performance.

Digital Transformation: It is noted that the implementation of digital twins and Industry 4.0 technologies is important in the sphere of monitoring performance and anticipating errors in the mining industry. A study on 1028 Spanish industrial companies supports the idea that industry 4.0 strengthens the positive connection between the environmental asset management and the social economic performance.

Asset Structure: In the coal mining industry, the asset structure and the size of a firm have a very important influence on capital structure by mediating through profitability. Moreover, competitiveness is made by strategic asset management practices, including internal and external knowledge acquisition, which allows organizations to overcome the difficult economic environment . Such proactive handling of physical assets, together with technological integration, is essential in improving the financial performance in general and business sustainability . This type of integrated approach that aims at maximizing the use of assets and financial management aspects leads to the increase of financial stability and enhanced competitive position of business . This strategic merger is also applied to the working capital management, where the optimization of cash, inventory and accounts receivable can go a long way in improving the liquidity and profitability . As an example, good working capital management, i.e., inventory or accounts receivables, is directly linked with better cash conversion cycles, thus, positively influencing the performance of the firm . This comprehensive viewpoint indicates that the strategy of working capital that is balanced both in terms of short-term assets and liabilities is essential to guarantee the efficiency of operations of the fintech companies and their development . Moreover, strategic asset management, including such components as maintenance and replacement, require a trade-off between standardization and idiosyncratic practices in various industries and organizations and leads to the most appropriate capacity, greater equipment efficacy, and lower operational costs . These stringent measures are also essential in the capital-intensive mining business where continuous economic growth and strategic innovations are essential to the long-term profitability and stability of the business . Besides, the successful adoption of an environmental management system, such as the environmental auditing and lifecycle analysis, plays a crucial role in promoting sustainable development and showing readiness of a company to be an ecological custodian . In addition to the effects associated with the environment, sophisticated financial model applications also help in achieving economic stability because the models will incorporate risk management and maximize the strategic business zones portfolios . This holistic financial planning, and innovative financing, can convert business challenges into a business opportunity, and increase the resilience against market fluctuations and fast-track technological change . Cash flow forecasting is further enhanced by the incorporation of digital tools and financial technologies that support precise management that facilitates immediate liquidity requirements and prepares companies to operate towards sustainable development by increasing investments and mitigating risks . This allows the businesses to increase liquidity in

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the short term and ensure stability in their operations to promote sustainable growth Such accurate financial control especially in a dynamic market uses advanced analytical dynamics to forecast financial patterns and neutralize any possible risks and thus increases the overall enterprise value. In particular, the use of modern financial technologies, which include automated accounting systems and financial analytics, simplify work and optimize the decision-making . This integration enables real-time perspectives on financial health, which provides a responsive way to market changes and better capital allocation to strategic initiatives. The transparency and efficiency of the supply chain, along with the sustainable behaviours and less impact on the environment, are also improved in the application of these digital tools, especially in the area of resource extraction . This comprehensive strategy that incorporates financial and operational plans promotes long-term competitive advantages and guarantees the leadership in the industry in dynamic markets . Moreover, the financial potential of the enterprise through efficient use of resources and a high level of strategic flexibility is the most important to achieve sustainable development and improve competitiveness . Digitalization of all financial operations requires a close focus on the social implications of the same, where it is crucial to focus on building human potential with high cybersecurity and technology literacy to accommodate the entire society and overcome the challenges arising thereof . Such developments enable businesses to capitalize on the modern financial management tools, allowing them to respond swiftly to the external changes in the market and guarantee a prompt adjustment to the new circumstances and demands, as well as gaining a crucial competitive edge . This proactivity is also applied to risk management, where there is an enhanced threat forecasting and reconfigured structures as essential in the handling of the dynamics of digital business and sophisticated accounting systems (Dzhereleiko et al., 2024). Financial management Laissez-faire Organizations can no longer afford to rely on traditional, passive analysis to make a decision but can make decisions in real time with the digital transformation of financial management supported by AI and predictive analytics, which is essential in the dynamic adaptation of core operations such as financing, investment, and dividend in highly coupled and uncertain digital economies.

3.3 ESG, Sustainability, and Financial Risk

The mining and energy firms integration of the financial analysis with the ESG factors is increasingly being integrated.

Risk Mitigation: ESG ratings have been found to significantly reduce the financial risk of the mining firms by alleviating the financing constraint and it reduces the agency issues.
Financial Correlation: There is no conclusive evidence of the direct profitability. A survey conducted among 25 companies in India reveals that sustainable supply chain practice would not impact positively on ROA and ROE in the coming five years. On this same note, although the size of the ESG-rated mining firms is generally larger than the unrated ones they do not generally make better profits than the latter.

Environmental Performance: Quite on the contrary, the enhanced financial performance through the enhancement of the environmental performance in Australian mining presupposes that the case of the large reduction of emissions assumes the presence of financial stability. This interdependence emphasizes the importance of possessing a robust financial health to finance the enormous investment on capital that is normally required in large-scale environmental cleanup and sustainability in operation changeover. This interdependence underlines the reality that financial resilience acts as a key enabler of firms in order to be capable of making the major investments that they have to make to enhance the environment and to react to the market developments . It would involve a proactive and reactive regulatory framework, where structures can quickly evolve to address new market trend and technologies which may necessitate such a framework as regulatory sandboxes to facilitate innovation, whilst maintaining compliance (Efunniyi et al., 2024). Moreover, the green financial accounting and clear ESG reporting should also help decrease the financial risks and earn more trust of the stakeholders in the mining industry This openness also assists investors to make more appropriate decisions, in the event that they know that positive ESG execution correlates with less financial risk and greater long-term value creation This applies particularly to the mining sector, where environmental hazards, fluctuations in the price of goods and other commodities, and regulatory shifts have a harsh effect on financial health and necessitate well-constructed approaches to risk management . Increased ESG performance, in its turn, leads directly to the minimization of the financial risks in the mining companies because the risk management and governance systems become more efficient . However, it should be mentioned that the ESG initiatives can also be associated with financial expenses in the short-term period, which in turn leads to possible decrease of financial indicators, including Return on Equity and Capital Expenditure, within the short-run period, as a consequence of adaptation expenses . Nevertheless, these initial costs will prove beneficial in the future in terms of facilitating long-term sustainability, improving the stakeholder relations, and ultimately bringing the improvement of the financial performance in terms of greater efficiency and reduced operation costs . It is a long-term perspective which means that the ESG integration has a strategic value as a path to financial well-being and potential to survive in the market, to attract an investment and to reduce risks . It is an approach which is highly rated by the regulatory bodies, and investors, as they are more concerned with the holistic sustainability report to determine the viability of a company in the long run, and the ethical practice of its operating activities . This high level of attention may sometimes result in a rethink by financial approaches of factoring in non-financial outcomes realised by way of ESG reports, which would provide a more meticulous financial analysis that incorporates risk, uncertainty, and corporate life cycles . As a matter of fact, the good ESG performance could be considered as an indicator of effective risk management, management competence, and corporate sustainability in the long term that would appeal to long-term investors and would give the resilience against the external shocks The long-term values of any company are ultimately enhanced by such a holistic approach to corporate strategy, which takes into consideration the environmental, social, and governance elements, by enabling the management of risks and the exploitation of opportunities that would occur in the environment of a broader societal and environmental issue

3.4 Capital Structure and Corporate Governance

Pecking Order Theory: Pecking Order Theory is supported by studies of Indonesian coal mining companies (2020-2022) and it was found that profitability and liquidity are negatively related to capital structure since companies choose internal financing.

Governance Indicators: good corporate governance and an audit committee has been found to have positive effect on performance in the Indonesian mining companies. In Indian scenario, corporate social responsibility enhances the social reputation as well as profitability of manufacturing companies.

Board Dynamics: In coal mining, the board of directors and the managerial ownership can be a disastrous factor in financial distress, but there are findings that managerial ownership is detrimental to financial distress across various studies. Also, strategic deployment of capital also known as capital structure is a careful balance of debt and equity to ensure optimal financing of long term operations and attaining of strategic purposes . An optimal capital structure is one that is set to maximize shareholder wealth by weighing lower cost of debt

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against financial risk that it introduces to the firm, which subsequently may affect stock prices and the ability of a firm to sustain the growth . Moreover, the companies that have strong ESG performance show both the decreased dependence in debt funding, preferring retained earnings and equity to finance sustainable projects, which, in turn, reduces the funding costs because of the reduced environmental hazards, improved healthier financial statements, and better credit ratings . Such a strategic choice of an equity-based funding is frequently reflected in the companies with good ESG performance, which have lower costs of equity, implying that investors believe in their sustainability policies . Such a correspondence between ESG performance and financing decisions means that the relationship between sustainability metrics and capital structure decisions is subtle, and equity financing terms may be much better under these conditions . This means that the higher the ESG performance, the stronger the credit worthiness of a firm making access to equity financing easier and the use of debts to fund such initiatives low . Such preference is consistent with the pecking order theory, according to which the companies that practice strong sustainability, which can be seen as less risky, focus on internal financing and equity rather than debt . Additionally, this strategic fit with the pecking order theory, in which the strong sustainability practices can result in the preference to internal and equity finance, highlights the importance of strong governance mechanisms, including a well-functioning board of directors and audit committees, which increase investor confidence and enhance financial performance through its visibility of operations and the careful distribution of resources . Such forms of governance are pivotal in advancing the implementation of ESG principles in the main business strategies, resulting in better choices of capital structure that are more beneficial to sustainable growth and creating long-term value This social focus benefits the firms as it keeps them in line with the long-term societal and regulatory expectations, which results in sustainable growth . This type of an integrated approach is not only financially rejuvenating in terms of reducing a range of risks but also cost-of-capital optimal, which in turn makes the firm more appealing to a greater pool of investors . The intersection between strong ESG performance and financing decision also indicates that the higher the company scores, the higher the chances of raising its equity capital . It indicates a strategic change towards equity as the favorite source of funding the companies being focused on the sustainability as such, the proxy of the investor confidence in the long-term sustainability and minimal vulnerability to the environmental, social, and governance risks . This equity financing tendency is commonly found in companies who consider the timing of equity markets by strategically using their ESG performance to observe better moments to participate in stock overvaluation effects to use them to a more favorable capital structure . On the other hand, a substantial part of shortages in certain companies is covered by issuing debts which implies different capital structure strategies in relation to the peculiar features of this or that firm and market conditions . In contrast, companies that have good ESG performance can frequently have more favorable terms of debt financing since they are perceived as less risky and companies that have a better reputation, though it does not always happen based on the particular ESG indicators that are used . Moreover, the serious focus on strong governance in the ESG framework is crucial, and the effective corporate governance framework, including transparent reporting and accountability systems, is imperative to implement sustainability projects and to make sure that capital allocation is related to long-term value.

4. Discussion

One of the common ones is the necessity of tailored approaches. It can be the WCM policies during the corporate life cycle or the asset management frameworks combined with the IT facilities, the literature indicates that standardized practices are not as effective in the emerging markets. Moreover, mining companies as complex adaptive systems imply that conventional strategic planning should be transformed so that it can manage high level of

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volatility of commodity prices and change in regulations. This would require a dynamic and flexible approach to financial management, especially in the optimal capital structures, that would take into consideration internal firm attributes as well as external, usually uncertain, external economic conditions and regulatory environment. The popularity of internal financing and the use of debt over equity to obtain external capital where this is seen in emerging economies only serve to accentuate the special issues of special opportunity that are presented by firms operating in these settings . The pecking order theory is consistent with this point of view; according to it, firms prefer to use internal funds, and then debt over equity, to finance new investments . Nonetheless, this preference of internal and debt financing can be moderated by the effect of firm size, in which large organizations tend to be more stable and have economies of scale and, thus, more flexibility in choosing capital structure (Wiratama & Prasetio, 2025). In addition, the complexities of the capital structure optimization in the mining industry tend to operate through the strategic trade-offs between different finance sources with the strategic significance of matching the capital expenditure and ESG principles to increase the long-term value and stakeholder trust . As an example, mining firms, in spite of their capital-intensive character, often tend to use equity and short-term liabilities instead of interest-bearing debt, and the amount of debt does not exceed 45 percent of the financing structure . This subtle treatment of capital structure, especially in the mining sector, suggests a balancing exercise with financial flexibility, on the one hand, and the exploitation of growth prospects, on the other hand, with both the risk of volatility in the commodity price and the substantial capital expenditure involved . This dynamism highlights the significance of an advanced interpretation of capital structure theories, including trade-off and theories, in creating robust financial plans to help firms increase their value in addition to remaining stable in the changing market environments . To be more precise, the Trade-off Theory states that an optimal capital structure would combine the tax benefits of debt and the costs of a financial distress , and for larger corporations in the emerging markets, such a balance would be easier to reach because of the improved market accessibility and reduced cost of borrowing . On the other hand, smaller companies might find it more expensive to enter financial distress, and so may prefer to finance themselves through equity or a mixture of internal sources of funds rather than use one debt source when debt may be beneficial. In addition, there is the theory of pecking order which implies that companies focus on internal financing, then debt, then equity which can be frequently observed in the mining industry since companies may have to use debt to finance the investment in high-paying projects in case of the lack of internal funds .Nevertheless, the empirical data shows that companies are not necessarily stuck to this order since the market conditions, the particularities of the company, and external pressures might affect the financing choices . Such disillusionment of theoretical predictions underscores the importance of taking into consideration dynamic conditions like institutional stability and political dynamics especially in emerging economies where the two influencing factors have a strong role to play in financing behavior and optimization of capital structure by firms . Such situational aspects may require more flexible and less mechanistic implementation of conventional capital structure models, to enable the adaptive reaction to idiosyncratic market opportunities and challenges . The dilemma of maximisation of leverage ratios is especially high in emerging markets where a firm that is very lucrative could choose to deleverage and raise its own funds, whereas a less profitable firm can hardly secure access to external funding because of severe ratios during a crisis . This situation tends to increase financial limitations of the troubled firms leading them to less viable financing options. Therefore, the use of capital structure theories in emerging markets needs to involve more variables than the standard financial indicators, as they should be based on the current institutional structures and market failure that can influence financing choices . The identified tendency of internal financing, followed by debt, and, eventually, equity corresponds to the pecking order theory, even though it lacks the ability to clarify the specific reason behind the

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preference of debt over equity . This theory, in turn, cannot explain the low rates of borrowing in the most profitable companies and the existence of different capital structures within firms that have the same tax rate . Nevertheless, there are still certain studies, including and outside of Africa, which still support the relevance of the pecking order theory to small and medium-sized enterprises . The subtle usage of this theory is further shown in the circumstances of certain nation economies, including Romania, Bulgaria, and Hungary, in which unique firm and country-related factors affect the choice of capital structure in the long-term . This explains the importance of learning institutional and market-specific factors in financial strategy formation, especially in areas where the capital market development can be underdeveloped . The diverse legal and institutional setting, as well as different market structures and tax regimes among nations, are indeed a culprit to the substantial differences in international application and results of capital structure theories . As an example, a study on Sub-Saharan African companies has found that macroeconomic variables have a substantial effect on capital structure choices along with other firm-specific considerations, which makes the direct applicability of theories tested in Western economies more difficult . It implies that the analysis of capital structure determinants in the emerging markets needs to be conducted in the form of an integrated approach, thus involving both the existing theoretical frameworks and the macroeconomic and institutional specificities . Moreover, although the theory of the pecking order is largely justified in other scenarios, such as in the case of African economies, it is due to the fact that less profitable, liquid, and less intangible firms are more likely to use debt financing .

5. Conclusion

This review of the literature underscores the fact that financial sustainability in the industrial sectors comes with the harmonizing forces of effective working capital, sound physical assets management, as well as proactive ESG participation. The traditional financial theories are still crucial in the context of micro and small firms in the less developed economies, yet their management has to be informed by the level of growth and maturity of technologies, and the one-size-fits-all approach is insufficient . This subtle comprehension plays a key role in advancing sustainable economic growth through the customization of financial instruments and regulatory systems to meet the unique needs and business realities of such businesses . As an example, profitability, age, liquidity, growth, size, and asset tangibility are relevant to the capital structure of SMEs in Ghana, which also contributes to the necessity of such local modifications of the financing theories . In particular, the pecking order theory that hypothesizes internal equity preference prior to the debt is connected with the financial behavior of Ghanaian SMEs, confirming that internal capital is crucial in alleviating the liability of newness . It is an important lesson to the stakeholders as it encourages them to improve the financial sustainability and sustainable development of nascent SMEs, as internal funding followed by debt and subsequently equity is a potent formula . Moreover, the regression analysis implemented in several studies on micro and small businesses in Ghana also underlines the complexity of interaction between the firm-specific financial features, including financial management experience and bank loans ratio, in access to debt finance, hence affecting their growth patterns . Sound financial management is thus a priority so that micro, small, and medium businesses can overcome these hurdles since it has a direct effect on the need to access the required capital and the realistic growth immediately . Furthermore, financial limitations, management deficiencies, regulatory issues, and insufficient infrastructure are often among the factors that lead to SME failures, which means that such specific measures as better access to finance and training managers are urgently needed . The effective financial management, including the optimization of cash flows, the careful recording of transactions, and long-term financial planning, is therefore an essential element of the future success of MSMEs .

References:

1. Abdeljawad, I., & Farhood, H. (2025). The trade-off behavior of capital structure in firms within politically unstable emerging countries. Management & Sustainability: An Arab Review, 1. https://doi.org/10.1108/msar-10-2024-0156
2. Abor, J. Y., & Biekpe, N. (2009). How do we explain the capital structure of SMEs in sub-Saharan Africa? Journal of Economic Studies, 36(1), 83. https://doi.org/10.1108/01443580910923812
3. Adegbola, A. E., Adegbola, M. D., Amajuoyi, P., Benjamin, L. B., & Adeusi, K. B. (2024). Advanced financial modeling techniques for reducing inventory costs: A review of strategies and their effectiveness in **manufacturing.** [Review of advanced financial modeling techniques for reducing inventory costs: A review of strategies and their effectiveness in manufacturing]. Finance & Accounting Research Journal, 6(6), 801. Fair East Publishers. https://doi.org/10.51594/farj.v6i6.1180
4. Adow, A. H. (2025). Corporation financialization and its impact on green project investments: A systematic literature review. Journal of Project Management, 10(4), 745. https://doi.org/10.5267/j.jpm.2025.7.003
5. Agapova, A., & Garanina, T. (2024). Guest editorial: A short review of the role of ESG activities in business and research [Review of Guest editorial: A short review of the role of ESG activities in business and research]. Managerial Finance, 50(1), 1. Emerald Publishing Limited. https://doi.org/10.1108/mf-01-2024-644
6. Agyei, J., Sun, S., & Abrokwah, E. (2020). Trade-Off Theory Versus Pecking Order Theory: Ghanaian Evidence. SAGE Open, 10(3). https://doi.org/10.1177/2158244020940987
7. Akbar, M., Akbar, A., & Draz, M. U. (2021). Global Financial Crisis, Working Capital Management, and Firm Performance: Evidence From an Islamic Market Index. Sage Open, 11(2). https://doi.org/10.1177/21582440211015705
8. Amoa-Gyarteng, K., & Dhliwayo, S. (2023). Capital structure, profitability, and short-term solvency of nascent SMEs in Ghana: An empirical study. Journal of Entrepreneurship Management and Innovation, 19(4), 83. https://doi.org/10.7341/20231943
9. Amoa-Gyarteng, K., & Dhliwayo, S. (2024). Overcoming the liability of newness: The interplay of debt, equity, and profitability in nascent SMEs. Journal of the International Council for Small Business, 5(3), 246. https://doi.org/10.1080/26437015.2024.2336454
10. An Extractive Sector Perspective of Risk Management and Its Influence on Corporate Sustainability: An Empirical Analysis. (2022). Journal of Applied Business and Economics, 24(4). https://doi.org/10.33423/jabe.v24i4.5352
11. Andrade, D. C. de, Braga, B. M., Fiirst, C., & Mello, G. R. de. (2026). Capital structure strategies through the lens of ESG: assessing trends between Brazil and China. REVISTA AMBIENTE CONTÁBIL - Universidade Federal Do Rio Grande Do Norte - ISSN 2176-9036, 18(1). https://doi.org/10.21680/2176-9036.2026v18n1id42506
12. Andrian, T., & Sudibyo, Y. A. (2019). Disclosure Effect of Carbon Emission and Corporate Social Responsibility to Financial Performance. Deleted Journal. https://doi.org/10.7176/jesd/10-12-09
13. Arum, R. A. (2025). A Systematic Literature Review on the Role of Financial Management in Corporate
14. Sustainability. JEKAMI Journal of Accounting, 5(2), 338. https://doi.org/10.54065/jekami.5.2.2025.484
15. Avira, S., Rofiah, R., Setyaningsih, E., & Utami, S. S. (2023). Digital Transformation in Financial Management: Harnessing Technology for Business Success. INFLUENCE

International Journal of Science Review, 5(2), 336. https://doi.org/10.54783/influencejournal.v5i2.161
16. Aydoğmuş, M., Gülay, G., & ERGUN, K. (2022). Impact of ESG performance on firm value and profitability. Borsa Istanbul Review, 22. https://doi.org/10.1016/j.bir.2022.11.006
17. Azizah, U. S. A., & Haron, R. (2025). Environmental, Social, and Governance (ESG) Practices and Their Financial Implications: A Study of Indonesia and Malaysia Capital Markets. Finance Theory and Practice, 29(4), 88. https://doi.org/10.26794/2587-5671-2025-29-4-88-99
18. Baby, A., Mia, M. A., & Pitchay, A. A. (2024). A systematic review of financial performance in the manufacturing industry [Review of A systematic review of financial performance in the manufacturing industry]. Future Business Journal, 10(1). Springer Science+Business Media. https://doi.org/10.1186/s43093-024-00353-1
19. Badrane, N., & Bamousse, Z. (2025). Innovative Financing Solutions: A Transformative Driver for Financial Performance of Businesses in Morocco. arXiv (Cornell University). https://doi.org/10.48550/arxiv.2502.14393
20. Bagh, T., Hunjra, A. I., & Corbet, S. (2025). The impact of corporate governance on firm value: Understanding the role of strategic change. International Review of Economics & Finance, 103, 104472. https://doi.org/10.1016/j.iref.2025.104472
21. Bajwa, M. M. T., Wood, M. O., & Rus, H. A. (2023a). Scoping the Mediating Role of Corporate Governance on the
22. Relationship Between Sustainability and Financial Performance of Firms. Journal of Management and Sustainability, 13(2), 88. https://doi.org/10.5539/jms.v13n2p88
23. Bajwa, M. M. T., Wood, M. O., & Rus, H. A. (2023b). Does Financial Performance in Firms Benefit from Sustainability Performance? The Mediating Effect of Governance on Firm Performance of Listed Firms in Canada. Journal of Management and Sustainability, 14(1), 1. https://doi.org/10.5539/jms.v14n1p1
24. Bamfo, D. (2024). Small and Medium Enterprises Failure in Ghana: Causes, Effects, and Solutions. International Journal of Research and Innovation in Social Science, 4278. https://doi.org/10.47772/ijriss.2024.803309s
25. Bani-Khaled, S., Azevedo, G., & Oliveira, J. (2025). Environmental, social, and governance (ESG) factors and firm value: A systematic literature review of theories and empirical evidence. AMS Review, 15, 228. https://doi.org/10.1007/s13162-025-00303-2
26. Barnabas, B., & Oloyede, J. (2025). Cash Flow Optimization: Strategies for Enhancing Short-Term Liquidity. SSRN Electronic Journal. https://doi.org/10.2139/ssrn.5004465
27. Bashir, R., Chishti, M. F., Khan, I., Khan, N. R., Khan, M., & Ghouri, A. M. (2025). The role of environmental, social, and governance practices and green innovation in enhancing firm financial performance. Discover Sustainability, 6(1). https://doi.org/10.1007/s43621-025-02246-x
28. Basiru, J. O., Ejiofor, C. L., Onukwulu, E. C., & Attah, R. U. (2023). Financial management strategies in emerging markets: A review of theoretical models and practical applications. Magna Scientia Advanced Research and Reviews, 7(2), 123. https://doi.org/10.30574/msarr.2023.7.2.0054
29. Billio, M., Murgia, M., & Vismara, S. (2024). Sustainable and Climate Finance: An Integrative Framework from Corporates to Markets and Society. Review of Corporate Finance, 4, 1. https://doi.org/10.1561/114.00000058
30. Brighi, P., Bina, A. C. F. D., & Venturelli, V. (2025). Firm value and risk: how relevant are ESG factors and ESG controversies? Journal of Financial Reporting & Accounting. https://doi.org/10.1108/jfra-12-2024-0953

31. Brogi, M., & Lagasio, V. (2025). Do Corporate Governance Frameworks Affect Sustainability Reporting? Corporate Social Responsibility and Environmental Management, 32(3), 3928. https://doi.org/10.1002/csr.3159
32. Cardillo, M. A. dos R., & Basso, L. F. C. (2024). Revisiting knowledge on ESG/CSR and financial performance: A bibliometric and systematic review of moderating variables. Journal of Innovation & Knowledge, 10(1), 100648. https://doi.org/10.1016/j.jik.2024.100648
33. Cerón, L. Á. M., Álvarez, J. E. O., Zúñiga, D. F. M., & Pareja, A. (2022). Las prácticas ESG y su efecto en el desempeño financiero corporativo: análisis empírico en el mercado de valores brasileño. Dictamen Libre, 31, 93. https://doi.org/10.18041/2619-4244/dl.31.10195
34. Chakradhar, G., Apku, M., Anusha, G., & Madhavedi, S. (2020). A COMPREHENSIVE STUDY OF ASSETS MANAGEMENT COMPANY , FOCUSING ON INVESTMENT STRATEGIES, PERFORMANCE, AND REGULATORY. Türk Bilgisayar ve Matematik Eğitimi Dergisi, 11(3), 2656. https://doi.org/10.61841/turcomat.v11i3.14489
35. Chau, L. P., Anh, L. H., & Đức, V. H. (2025). Valuing ESG: How financial markets respond to corporate sustainability. International Business Review, 34(3), 102418. https://doi.org/10.1016/j.ibusrev.2025.102418
36. Chebo, A. K., Dhliwayo, S., & Batu, M. M. (2024). The linkage between global financial crises, corporate social responsibility and climate change: unearthing research opportunities through bibliometric reviews. Frontiers in Climate, 6. https://doi.org/10.3389/fclim.2024.1388444
37. Chipeta, C., & Deressa, C. (2016). Firm and country specific determinants of capital structure in Sub Saharan Africa. International Journal of Emerging Markets, 11(4), 649. https://doi.org/10.1108/ijoem-04-2015-0082
38. Chita, P., Baya, C., & Ndlovu, M. J. (n.d.). The Contribution of Financial Management Practices to the Growth of SMEs in Bulawayo CBD: A Case Study of Bulawayo Centre, Imbali Mall and Haddon & Sly Complex. RePEc: Research Papers in Economics. Retrieved February 2026, from
39. https://www.rsisinternational.org/journals/ijriss/articles/the-contribution-of-financial-management-practices-to-the-growth-of-smes-in-bulawayo-cbd-a-case-study-of-bulawayo-centre-imbali-mall-and-haddon-sly-complex/
40. Dash, S. R., Sethi, M., & Swain, R. K. (2023). Financial condition, working capital policy and profitability: evidence from Indian companies. Journal of Indian Business Research, 15(3), 318. https://doi.org/10.1108/jibr-12-2020-0378
41. Dasinapa, M. B. (2024). The Integration of Sustainability and ESG Accounting into Corporate Reporting Practices. Advances in Applied Accounting Research, 2(1), 13. https://doi.org/10.60079/aaar.v2i1.167
42. Daviesi, S., & Utam, A. A. G. S. (2025). Unveiling the quantitative impact of capital structure on firm value: A study of manufacturers of food, produce companies in South Africa. Accounting, 11(3), 181. https://doi.org/10.5267/j.ac.2025.5.002
43. Delcoure, N. (2006). The determinants of capital structure in transitional economies. International Review of Economics & Finance, 16(3), 400. https://doi.org/10.1016/j.iref.2005.03.005
44. Dewangan, S., & Kannadhasan, M. (2025). Analyzing the impact of sustainable performance on working capital management: Evidence from emerging markets. Pacific-Basin Finance Journal, 92, 102791. https://doi.org/10.1016/j.pacfin.2025.102791
45. Dharma, F., Marimutu, M., & Alvia, L. (2024). Profitability and Market Value Effect on Carbon Emission Disclosures: The Moderating Role of Environmental Performance. International Journal of Energy Economics and Policy, 14(3), 463.

https://doi.org/10.32479/ijeep.15915
46. Dsouza, S., Kathavarayan, K., Mathias, F., Bhatia, D., & Alkhawaja, A. (2025). Leveraging Success: The Hidden Peak in Debt and Firm Performance. Econometrics, 13(2), 23. https://doi.org/10.3390/econometrics13020023
47. Ed-Dafali, S., Adardour, Z., Derj, A., Bami, A., & Hussainey, K. (2024). A PRISMA-Based Systematic Review on Economic, Social, and Governance Practices: Insights and Research Agenda. Business Strategy and the Environment, 34(2), 1896. https://doi.org/10.1002/bse.4069
48. Efunniyi, C. P., Abhulimen, A. O., Obiki-Osafiele, A. N., Osundare, O. S., Agu, E. E., & Adeniran, I. A. (2024). Strengthening corporate governance and financial compliance: Enhancing accountability and transparency.
49. Finance & Accounting Research Journal, 6(8), 1597. https://doi.org/10.51594/farj.v6i8.1509
50. Eke, A. B., Batmaz, O., Gülen, M. F., Uflaz, E., & Arslan, Ö. (2024). Strategic Management Modeling for Offshore Tugboat and Support Vessel Operations: A Hybrid SWOT-TOWS Fuzzy DEMATEL-TOPSIS Framework. Journal of ETA Maritime Science, 12(4), 427. https://doi.org/10.4274/jems.2024.80774
51. Eke, C., & Akperi, T. (2025). Capital Structure and Firm Performance in Emerging Markets: Fresh Evidence from Nigerian Manufacturing Companies Using Advanced Dynamic Panel Techniques. SSRN Electronic Journal. https://doi.org/10.2139/ssrn.5396941
52. Elgayar, A., Serag, S., & Metawa, N. (2024). Navigating Financial Performance of the MENA Region Energy Sector: The Interplay of Working Capital and Leverage. International Journal of Economics and Financial Issues, 14(2), 45. https://doi.org/10.32479/ijefi.15877
53. Elsheikh, T., Almaqtari, F. A., Al-Hattami, H. M., Al-Bukhrani, M. A., & Ettish, A. A. (2024). The Influence of Women in Boardrooms on the Relationship Between Control of Corruption and Sustainability in an International Study. Research Square (Research Square). https://doi.org/10.21203/rs.3.rs-3954605/v1
54. Fidanza, B. (2025). The Effects of Environmental, Social and Governance Orientation: An International Empirical Literature Review. Journal of Management and Sustainability, 15(2), 24. https://doi.org/10.5539/jms.v15n2p24
55. Fu, C., Lü, L., & Pirabi, M. (2023). Advancing green finance: a review of sustainable development [Review of Advancing green finance: a review of sustainable development]. Digital Economy and Sustainable Development, 1(1). Springer Science+Business Media. https://doi.org/10.1007/s44265-023-00020-3
56. Fu, C., Yu, C., Guo, M., & Zhang, L. (2023). ESG rating and financial risk of mining industry companies. Resources Policy, 88, 104308. https://doi.org/10.1016/j.resourpol.2023.104308
57. Gniadkowska-Szymańska, A., & Keller, J. K. (2025). THE IMPACT OF SUSTAINABLE DEVELOPMENT ON THE RETURN ON EQUITY (ROE) AND CAPITAL EXPENDITURE (CAPEX) IN MINING COMPANIES IN EUROPE. Scientific
58. Papers of Silesian University of Technology Organization and Management Series, 2025(225), 176.
59. https://doi.org/10.29119/1641-3466.2025.225.11
60. Gostkowska-Drzewicka, M., & Koralun-Bereźnicka, J. (2024). Strategie finansowania w przemyśle wydobywczym w Europie. Gospodarka Surowcami Mineralnymi - Mineral Resources Management, 121. https://doi.org/10.24425/gsm.2024.150830
61. Gregová, E., Smrčka, L., Michalkova, L., & Švábová, L. (2021). Impact of Tax Benefits and Earnings Management on Capital structures Across V4 Countries. Acta Polytechnica Hungarica, 18(3), 221. https://doi.org/10.12700/aph.18.3.2021.3.12

62. Gunawan, I., Achsani, M., Faisal, Y. A., & Fajri, M. (2025). INDONESIA AND ASEAN+ GREEN VS NON-GREEN HOSPITAL PERFORMANCE COMPARISON. Jurnal Riset Bisnis Dan Manajemen, 18(2), 250. https://doi.org/10.23969/jrbm.v18i2.22342
63. Gupta, R., Jatav, S., & Prakash, G. (2023). Does management of working capital enhance firm value? Empirical analysis of manufacturing enterprises in India. Investment Management and Financial Innovations, 20(3), 224. https://doi.org/10.21511/imfi.20(3).2023.19
64. Habib, A., Anwar, S., Hussain, W. M., & Fenyves, V. (2024). The role of sustainable investment practices in maintaining efficient working capital management. JOURNAL OF INTERNATIONAL STUDIES, 17(2), 206. https://doi.org/10.14254/2071-8330.2024/17-2/11
65. Habib, A., & Huang, X. (2018). Investigating the Nonlinear Relationship between Working Capital and Profi tability: a Case of Pakistan Textile Firms. Tekstilec, 61(1), 42. https://doi.org/10.14502/tekstilec2018.61.42-53
66. Habib, A., Khan, M. A., & Oláh, J. (2023). DOES GREEN FINANCE SUPPORT TO REDUCE THE INVESTMENT SENSITIVITY OF ENVIRONMENTAL FIRMS? Journal of Business Economics and Management, 24(3), 405. https://doi.org/10.3846/jbem.2023.18865
67. Habib, A., Khan, M. A., & Tangl, A. (2024). Integration of green finance with ESG compliance to enhance the firm value. Managerial approach to determining the level of liquidity. International Journal of Innovative Research and Scientific Studies, 7(3), 1289. https://doi.org/10.53894/ijirss.v7i3.3290
68. Habib, A. M. (2022). Does the efficiency of working capital management and environmental, social, and governance performance affect a firm's value? Evidence from the United States. Financial Markets Institutions and Risks, 6(3), 18. https://doi.org/10.21272/fmir.6(3).18-25.2022
69. Habib, A. M. (2023). Does real earnings management affect a firm's environmental, social, and governance (ESG), financial performance, and total value? A moderated mediation analysis. Environment Development and Sustainability, 26(11), 28239. https://doi.org/10.1007/s10668-023-03809-6
70. Habib, A. M., & Mourad, N. (2023). The Influence of Environmental, Social, and Governance (ESG) Practices on US Firms' Performance: Evidence from the Coronavirus Crisis. Journal of the Knowledge Economy, 15(1), 2549. https://doi.org/10.1007/s13132-023-01278-w
71. Hael, M., Belhaj, F. A., Hazaea, S. A., Eldaia, M., & Al-Dalaien, B. O. A. (2025). A bibliometric and content analysis of the role of corporate social responsibility in enhancing competitive advantage. Discover Sustainability, 6(1). https://doi.org/10.1007/s43621-025-02019-6
72. Hailegebreal, D., & Wang, M. (2018). Determinants of Capital Structure of African Firms: A Categorical Analysis. VNU Journal of Science: Natural Sciences and Technology (Vietnam National University), 10(1), 1. http://iiste.org/Journals/index.php/EJBM/article/view/40598
73. Handriani, E. (2025). The role of debt in optimizing the capital structure of manufacturing firms in Indonesia. Investment Management and Financial Innovations, 22(3), 227. https://doi.org/10.21511/imfi.22(3).2025.17
74. Hieu, P., Dang, V. Q., & Thu, Q. N. (2025). WORKING CAPITAL AND FIRM PERFORMANCE: NON-LINEAR EVIDENCE FROM VIETNAM. Financial and Credit Activity Problems of Theory and Practice, 4(63), 118. https://doi.org/10.55643/fcaptp.4.63.2025.4798
75. Hoan, N. D., Anh, N. T. T., & Anh, N. T. L. (2024). The impact of supply chain management on firm performance: The case of Vietnam. Uncertain Supply Chain

Management, 12(4), 2221. https://doi.org/10.5267/j.uscm.2024.6.009
76. Islam, I. M. M. (2025). Linking working capital efficiency to profit maximisation: A conceptual analysis. Економічний Форум, 93. https://doi.org/10.62763/ef/1.2025.93
77. Kaban, M. (2024). Understanding financial management as a determining factor for the success of MSMEs: A qualitative study. Journal of Multidisciplinary Academic Business Studies, 2(1), 241. https://doi.org/10.35912/jomabs.v2i1.2571
78. Kalombo, K., Pepe. (2025). Capital Structure Strategies for Catalyzing the Growth of Mining Companies in Developing Countries. ScholarWorks (Walden University). https://scholarworks.waldenu.edu/dissertations/17470
79. Kamilah, F., Meutia, M., Bastian, E., & Muchlish, M. (2025). The role of corporate governance mechanisms, debt policy, profitability, and corporate social responsibility in strengthening company financial performance. Decision Science Letters, 14(4), 943. https://doi.org/10.5267/j.dsl.2025.7.004
80. Kara, K., Özyürek, H., Yalçın, G. C., & Burgaz, N. (2024). Enhancing Financial Performance Evaluation: The MEREC-RBNAR Hybrid Method for Sustainability-Indexed Companies. Journal of Soft Computing and Decision Analytics, 2(1), 236. https://doi.org/10.31181/jscda21202444
81. Karki, U., Seth, H., & Bhatia, V. (2024). Demystifying the efficiency in managing the working capital through the lens of sustainability. Managerial Finance, 51(6), 942. https://doi.org/10.1108/mf-04-2024-0328
82. Kayani, U. N., Dsouza, S., Husain, Z., Nawaz, F., & Hasan, F. (2025). Does the performance of financial technology (fintech) firms matter: evidence from North American and European fintech firms. Cogent Economics & Finance, 13(1). https://doi.org/10.1080/23322039.2025.2451050
83. Khan, M. A., Hassan, M. K., Maraghini, M. P., Biancone, P., & Valentinuz, G. (2024). Valuation effect of ESG and its impact on capital structure: Evidence from Europe. International Review of Economics & Finance, 91, 19. https://doi.org/10.1016/j.iref.2024.01.002
84. Khémiri, W., & Noubbigh, H. (2018). Determinants of capital structure: Evidence from sub-Saharan African firms. The Quarterly Review of Economics and Finance, 70, 150. https://doi.org/10.1016/j.qref.2018.04.010
85. Kounouwewa, J., & Azon, A. T. (2025). Pecking Order Theory and Financing Decisions: Evidence from African Small and Medium-Sized Enterprises. International Journal of Economics and Financial Issues, 15(6), 677. https://doi.org/10.32479/ijefi.21477
86. Krystella, Sitorus, T., & Purwanto, E. (2020). Composition of Commissioners and Directors, Profitability, Capital Structure and Investor Investment Decisions: Role of Sustainable Investment. KnE Social Sciences. https://doi.org/10.18502/kss.v4i14.7932
87. Küçükkocaoğlu, G., & Gökten, S. (2018). Financial Management from an Emerging Market Perspective. In InTech eBooks. https://doi.org/10.5772/67898
88. Kukeli, A., Deari, F., Sargsyan, G., Bărbuță-Mișu, N., & Barbuta-Misu, N. (2024). Firm Profitability and Economic Crises: The Non-Linear Role of the Cash Conversion Cycle. Preprints.Org. https://doi.org/10.20944/preprints202412.2400.v1
89. Kunaifi, A., Oktari, V., & Soewarno, N. (2025). ESG disclosure and firm sustainable growth nexus in Indonesia's emerging markets: does working capital management matter? Asian Review of Accounting, 1. https://doi.org/10.1108/ara-03-2025-0068
90. Kunytska, M., Piskun, I., Kotenko, V., & Kryvoruchko, A. (2024). Digital modelling technologies in the mining industry: Effectiveness and prospects of digitalisation of open-pit mining enterprises. Вісник Черкаського Державного Технологічного Університету,

29(1), 52. https://doi.org/10.62660/bcstu/1.2024.52
91. Kusumawati, N. D. (2024). Balancing Profit and Planet: How ESG Criteria Are Reshaping Capital Structure in Indonesia. Jurnal Mebis (Manajemen Dan Bisnis), 9(2), 208. https://doi.org/10.33005/mebis.v4i2.612
92. Kuteesa, K. N., Akpuokwe, C. U., & Udeh, C. A. (2024). Exploring global practices in providing small and medium enterprises access to sustainable finance solutions. World Journal of Advanced Science and Technology, 5(2), 35. https://doi.org/10.53346/wjast.2024.5.2.0034
93. Lee, M. T., & Suh, I. (2022). Understanding the effects of Environment, Social, and Governance conduct on financial performance: Arguments for a process and integrated modelling approach. Sustainable Technology and Entrepreneurship, 1(1), 100004. https://doi.org/10.1016/j.stae.2022.100004
94. Lemana, P., Matemane, R., & Mokabane, M. (2025). The evolution of research on corporate social responsibility and financial performance: a bibliometric analysis. Cogent Business & Management, 12(1). https://doi.org/10.1080/23311975.2025.2507230
95. León-Castro, D. A., Martín, P. S., & López-Iturriaga, F. J. (2025). The effect of ESG on working capital: Two for the price of one. SSRN Electronic Journal. https://doi.org/10.2139/ssrn.5497698
96. Li, X., Saat, M. M., Khatib, S. F. A., & Liu, Y. (2024). Sustainable development and firm value: How ESG performance shapes corporate success—a systematic literature review. Business Strategy & Development, 7(4). https://doi.org/10.1002/bsd2.70026
97. Liao, Y., Márquez, R., Zhen, C., & Li, Y. (2025). Can ESG Performance Sustainably Reduce Corporate Financing Constraints Based on Sustainability Value Proposition? Sustainability, 17(17), 7758. https://doi.org/10.3390/su17177758
98. Liu, C., & Wu, S. (2023). Green finance, sustainability disclosure and economic implications. Fulbright Review of Economics and Policy, 3(1), 1. https://doi.org/10.1108/frep-03-2022-0021
99. Liu, T., Abdelbaky, A., Elamer, A. A., & Elmahgoub, M. (2023). Real earnings management and ESG disclosure in emerging markets: The moderating effect of managerial ownership from a social norm perspective. Heliyon, 9(12). https://doi.org/10.1016/j.heliyon.2023.e22832
100. Madyan, M., & Widuri, S. K. (2023). Environmental, Social, Governance (ESG) Performance and Capital Structure: The Role of Good Corporate Governance. Jurnal Manajemen Teori Dan Terapan | Journal of Theory and Applied Management, 16(3), 560. https://doi.org/10.20473/jmtt.v16i3.47483
101. Mahmood, F., Ahmed, Z., Hussain, N., & Zaied, Y. B. (2022). Macroeconomic factors and financing strategies in working capital: Evidence from China. International Journal of Finance & Economics, 29(1), 35. https://doi.org/10.1002/ijfe.2666
102. Malik, N., Kashiramka, S., & Sharma, P. (2026). ESG disclosures and capital structure: An analysis of debt and equity dynamics in India. International Review of Economics & Finance, 105, 104890. https://doi.org/10.1016/j.iref.2026.104890
103. Martinho, V. J. P. D. (2021). Bibliometric Analysis for Working Capital: Identifying Gaps, Co-Authorships and Insights from a Literature Survey. International Journal of Financial Studies, 9(4), 72. https://doi.org/10.3390/ijfs9040072
104. Mehta, M., Singh, S., & Dipika, D. (2025). Unveiling the drivers of working capital management efficiency: a systematic literature review and content analysis. Journal of Economic and Administrative Sciences., 1. https://doi.org/10.1108/jeas-09-2024-0379
105. Minhas, A. S., Maqsood, N., Shahid, T. A., & Rehman, A. U. (2024). Investment

Performance in Green Finance: Assessing the Impact of Environmental Social and Governance Integration. iRASD Journal of Economics, 6(1), 27. https://doi.org/10.52131/joe.2024.0601.0192

106. Moolkham, M. (2024). The impact of sustainable development on the relevance of accounting information and financial activities: Evidence from Thailand. PLoS ONE, 19(11). https://doi.org/10.1371/journal.pone.0313299
107. Moussa, A. S., Elmarzouky, M., & Shohaieb, D. (2024). Green Governance: How ESG Performance Drives Financial Performance in UK Firms. Sustainability, 16(24), 10894. https://doi.org/10.3390/su162410894
108. Msomi, T. S. (2025). The nexus of ESG performance and equity financing: Evidence from JSE-listed non-financial firms in South Africa. Investment Management and Financial Innovations, 22(3), 92. https://doi.org/10.21511/imfi.22(3).2025.07
109. Munteanu, I., Ionescu-Feleagă, L., Ionescu, B. Ștefan, Condrea, E., & Romanelli, M. (2025). From Metrics to Meaning: Research Trends and AHP-Driven Insights into Financial Performance in Sustainability Transitions. Sustainability, 17(14), 6437. https://doi.org/10.3390/su17146437
110. Naibaho, E. A. B., Simatupang, A., & Nadira, Z. (2025). Evaluating the Impact of ESG Practices on Company Values in ASEAN-5 Region: The Moderating Roles of Financial Flexibility and Capital Structure. JAS (Journal of ASEAN Studies), 13(1), 187. https://doi.org/10.21512/jas.v13i1.12072
111. NAIDU, MONISHA. Y. (2024). A Systematic Literature Review of Working Capital Management in Business Organizations. INTERANTIONAL JOURNAL OF SCIENTIFIC RESEARCH IN ENGINEERING AND MANAGEMENT, 8(5), 1. https://doi.org/10.55041/ijsrem33393
112. Narayanan, S., & Pradhan, S. K. (2023). Exploring the research landscape of socially responsible investment through bibliometrics. Multidisciplinary Reviews, 7(1), 2024022. https://doi.org/10.31893/multirev.2024022
113. Nastiti, P. K. Y., Atahau, A. D. R., & Supramono, S. (2019). Working capital management and its influence on
114. profitability and sustainable growth. Verslas Teorija Ir Praktika, 20, 61. https://doi.org/10.3846/btp.2019.06
115. Ndruru, F., & Ananda, P. (2025). Impact of factors influencing capital structure: An analysis of the literature on public companies in emerging markets. Journal of Economic Business & Accounting Research, 2(2). https://doi.org/10.61511/jembar.v2i2.2025.1383
116. Nguyễn, Q. N., Nguyen, T. T., & Nguyen, T. Y. (2026). WORKING CAPITAL MANAGEMENT AND FIRM PROFITABILITY: IMPLICATIONS FOR FINANCIAL SUSTAINABILITY IN VIETNAM. Veredas Do Direito Direito Ambiental e Desenvolvimento Sustentável, 23(2). https://doi.org/10.18623/rvd.v23.n2.4245
117. Nsiah, J., Agyemang, A. O., & Bawuah, B. (2025). Advancing environmental performance in emerging economies: the roles of working capital management and capital expenditure. Cogent Business & Management, 12(1). https://doi.org/10.1080/23311975.2025.2566902
118. Nurhayati, N. (2025). Sustainability Reporting, Corporate Governance, and Financial Performance: Analyzing the Role of ESG Factors in Investment Decisions. Journal of Hunan University Natural Sciences. https://doi.org/10.55463/issn.1674-2974.52.3.8
119. Odonkor, T. N., Urefe, O., Biney, E., & Obeng, S. (2024). Comprehensive financial strategies for achieving sustainable growth in small businesses. Finance & Accounting Research Journal, 6(8), 1349. https://doi.org/10.51594/farj.v6i8.1376

120. Ogundipe, T., Ewim, S. E., & Sam-Bulya, N. J. (2024). A review of strategic cash flow management models and their role in driving financial growth and sustainability for energy companies in developing markets [Review of A review of strategic cash flow management models and their role in driving financial growth and sustainability for energy companies in developing markets]. GSC Advanced Research and Reviews, 21(1), 115. https://doi.org/10.30574/gscarr.2024.21.1.0378
121. Oteng, S. (2024). Determinants of capital structure decisions: an empirical analysis of small and medium enterprises in Ghana from 2016 to 2020. African J of Accounting Auditing and Finance, 8(4), 386. https://doi.org/10.1504/ajaaf.2024.10066031
122. Owusu, C. K., Ababio, K. O., Winful, E. C., & Bosomtwi, E. B. (2024). Examining the role of financial characteristics of micro and small enterprises in accessing debt financing: evidence from Ghana. International Journal of Research in Business and Social Science (2147-4478), 13(7), 343. https://doi.org/10.20525/ijrbs.v13i7.3680
123. Öztekin, Ö. (2024). Corporate Leverage: Insights From International Data. In Oxford Research Encyclopedia of Economics and Finance. https://doi.org/10.1093/acrefore/9780190625979.013.939
124. Pangestuti, D. C., Muktiyanto, A., Geraldina, I., & Darmawan, D. (2024). Optimizing firm performance through contingency factors, enterprise risk management, and intellectual capital in Southeast Asian mining enterprises. Investment Management and Financial Innovations, 21(2), 355. https://doi.org/10.21511/imfi.21(2).2024.29
125. Parra-Domínguez, J., Dote-Pardo, J., Severino-González, P., Rebolledo-Aburto, G., & Romero-Argueta, J. (2026). Corporate social responsibility and financial performance in emerging markets: A systematic review to enhance decision-making frameworks. Social Sciences & Humanities Open, 13, 102512. https://doi.org/10.1016/j.ssaho.2026.102512
126. POPESCU, C.-E., Pentescu, A., & Shivarov, A. (2023). Sustainability, ESG Ratings and Corporate Performance in the Manufacturing Sector: A Research Review [Review of Sustainability, ESG Ratings and Corporate Performance in the Manufacturing Sector: A Research Review]. European Journal of Interdisciplinary Studies, 15(2), 186. Academy of Economic Studies (ASE). https://doi.org/10.24818/ejis.2023.24
127. PrabhaSingh, SumatiSidharth, & Nadkarni, P. S. (2024). Exploring the Role of Sustainable Green Finance in Addressing Global Economic Challenges: A Literature Review [Review of Exploring the Role of Sustainable Green Finance in Addressing Global Economic Challenges: A Literature Review]. Advances in Economics, Business and Management Research/Advances in Economics, Business and Management Research, 589. Atlantis Press. https://doi.org/10.2991/978-94-6463-433-4_45
128. Predicting impending bankruptcy and financial distress of a mining company using the HGN model. (2024). Acta Montanistica Slovaca, 29, 804. https://doi.org/10.46544/ams.v29i4.03
129. Pujiastuti, A., Yunita, R. D. S., & Astuti, F. Y. (2024). ESG PERFORMANCE, DEBT EQUITY CHOICES, AND RAPID ADJUSTMENTS IN INDONESIA. Jurnal Akuntansi Dan Keuangan Indonesia, 21(1), 64. https://doi.org/10.21002/jaki.2024.04
130. Rahi, A. F., Akter, R., & Johansson, J. (2021). Do sustainability practices influence financial performance? Evidence from the Nordic financial industry. Accounting Research Journal, 35(2), 292. https://doi.org/10.1108/arj-12-2020-0373
131. Rahi, A. F., Johansson, J., & Lions, C. (2023). Reinventing the wheel? Factors influencing relationship: links between sustainability and financial performance. European evidence. International Journal of Accounting and Information Management, 32(1), 147. https://doi.org/10.1108/ijaim-02-2023-0023

132. Retnosari, R., Astutik, E. P., & Frimasika, A. V. (2025). The Impact of Environmental, Social, and Governance Disclosure on Financial Performance in Indonesian Mining Companies. Jurnal Ilmiah Akuntansi Kesatuan, 13(5), 1227. https://doi.org/10.37641/jiakes.v13i5.4207
133. Roffé, M. A., & González, F. A. I. (2023). The Impact Of Sustainable Practices On The Financial Performance Of Companies: A Review Of The Literature [Review of The Impact Of Sustainable Practices On The Financial Performance Of Companies: A Review Of The Literature]. Visión de Futuro, 228. National University of Misiones. https://doi.org/10.36995/j.visiondefuturo.2023.28.01.006.en
134. Salvi, A., Doronzo, E., Giakoumelou, A., & Petruzzella, F. (2019). CSR and Corporate Financial Performance: An Inter-Sectorial Analysis. International Journal of Business and Management, 14(11), 193. https://doi.org/10.5539/ijbm.v14n11p193
135. Sedovandara, D. F., & Mahardika, D. P. K. (2023). Financial Performance Determinant: Evidence On Energy And Mineral Sector. Jurnal Akuntansi, 27(2), 299. https://doi.org/10.24912/ja.v27i2.1392
136. Shiro, A., & Biiranee, K. (2025). TESTING THE TRADE-OFF THEORY OF CAPITAL STRUCTURE IN NIGERIAN FIRMS. International Journal of Education and Social Science Research, 8(3), 262.
137. https://doi.org/10.37500/ijessr.2025.8317
138. Sierpińska, M. (2023). Determinants of mining companies' capital structure. Gospodarka Surowcami Mineralnymi - Mineral Resources Management. https://doi.org/10.24425/gsm.2021.137561
139. Silva, F., & Silva, S. (2026). Working Capital Management and Corporate Performance: The Role of Financial Constraints. International Review of Economics & Finance, 104926. https://doi.org/10.1016/j.iref.2026.104926
140. Škuláňová, N. (2020). Impact of selected determinants on the financial structure of the mining companies in the selected countries. Review of Economic Perspectives, 20(2), 197. https://doi.org/10.2478/revecp-2020-0009
141. Strekalina, A., Zakirova, R., Шинкаренко, А. В., & Vatsaniuk, E. (2023). The Impact of ESG Ratings on Financial Performance of the Companies: Evidence from BRICS Countries. Journal of Corporate Finance Research / Корпоративные Финансы | ISSN 2073-0438, 17(4), 93. https://doi.org/10.17323/j.jcfr.2073-0438.17.4.2023.93-113
142. SULIK-GÓRECKA. (2025). The Impact of Formal and Legal Conditions on Environmental Disclosures in the ESG Framework by Capital Groups in the Hard Coal Mining Sector: Evidence from Poland. Acta Montanistica Slovaca, 259. https://doi.org/10.46544/ams.v30i1.19
143. Sutomo, S., Wahyudi, S., Pangestuti, I. R. D., & Muharam, H. (2020). The determinants of capital structure in coal mining industry on the Indonesia Stock Exchange. Investment Management and Financial Innovations, 17(1), 165. https://doi.org/10.21511/imfi.17(1).2020.15
144. Tamasiga, P., Onyeaka, H., Bakwena, M., & Ouassou, E. houssin. (2024). Beyond compliance: evaluating the role of environmental, social and governance disclosures in enhancing firm value and performance. SN Business & Economics, 4(10). https://doi.org/10.1007/s43546-024-00714-6
145. Thabethe, M. F., & Toerien, F. E. (2025). The effects of economic crises on capital structure: Evidence from an emerging economy. South African Journal of Economic and Management Sciences, 28(1). https://doi.org/10.4102/sajems.v28i1.6134
146. Toader, D. A., Vintilă, G., & Gherghina, Ş. C. (2022). Firm- and Country-Level Drivers of Capital Structure: Quantitative Evidence from Central and Eastern European Listed

Companies. Journal of Financial Studies & Research, 1. https://doi.org/10.5171/2022.572694
147. Turek, J., Ocicka, B., Rogowski, W., & Jefmański, B. (2023). The role of Industry 4.0 technologies in driving the financial importance of sustainability risk management. Equilibrium Quarterly Journal of Economics and Economic Policy, 18(4), 1009. https://doi.org/10.24136/eq.2023.032
148. Tuzzohra, F., Satria, H., Pardede, R. M., Marlinda, C., & Sahara, Masyitah As. (2025). Corporate Governance and Financial Performance toward Sustainability Reporting: A Moderation Study of Firm Size in IDX Companies. Summa Journal of Accounting and Tax, 3(3), 31. https://doi.org/10.61978/summa.v3i3.611
149. Ullah, G. M. W., Nehring, M., Kizil, M. S., & Knights, P. (2023). Environmental, Social, and Governance Considerations in Production Scheduling Optimisation for Sublevel Stoping Mining Operations: a Review of Relevant Works and Future Directions [Review of Environmental, Social, and Governance Considerations in Production Scheduling Optimisation for Sublevel Stoping Mining Operations: a Review of Relevant Works and Future Directions]. Mining Metallurgy & Exploration, 40(6), 2167. Springer Science+Business Media. https://doi.org/10.1007/s42461-023-00869-0
150. Veera, S., Bietsch, S., Jones, S. R., & Ward, P. (2024). Systematic Literature Review of Corporate Sustainability and Financial Performance Linkages. Management of Organizations Systematic Research, 91(1), 115. https://doi.org/10.2478/mosr-2024-0007
151. Vierescu, E.-M., Rusu, A.-G., Bozagiu, A. M., & Călin, A. E. (2025). The ESG Effect: Unveiling Its Influence on Capital Structure in Finance. Proceedings of the … International Conference on Business Excellence, 19(1), 3017. https://doi.org/10.2478/picbe-2025-0231
152. Vijayakumaran, R., & Vijayakumaran, S. (2018). Working Capital Management and Corporate Performance: Evidence from Sri Lankan Listed Manufacturing Firms. International Journal of Accounting and Financial Reporting, 7(2), 577. https://doi.org/10.5296/ijafr.v7i2.12453
153. Villamizar, J. A. P., Macías, H. A., Quintana, L. F. C., Zapata, R. E., & Almanza, S. D. la C. (2025). Analysis of the Capital Structure of Latin American Companies in Light of Trade-Off and Pecking Order Theories. Journal of Risk and Financial Management, 18(7), 399. https://doi.org/10.3390/jrfm18070399
154. Wahyudhi, W. S., Sanny, L., Simatupang, B., & Furinto, A. (2024). The role of asset management on project performance moderated by environmental dynamism on Indonesia's mining project. Uncertain Supply Chain Management, 12(4), 2123. https://doi.org/10.5267/j.uscm.2024.7.003
155. Wahyuningtyas, E. T., Majidi, L. M. S., Murtadho, M., Musriha, Susesti, D. A., & Primasari, N. S. (2024). Environment Social Governance Performance and Capital Structure: Evidence in Indonesia and Malaysia. Revista de Gestão Social e Ambiental, 18(5). https://doi.org/10.24857/rgsa.v18n5-089
156. Wang, S. (2026). Harnessing AI-Enhanced Financial Statement Analytics for Intelligent Resource Management. Information Resources Management Journal, 39(1), 1. https://doi.org/10.4018/irmj.399504
157. Wang, Y., & Wang, X. (2024). From ratings to action: The impact of ESG performance on corporate innovation. Heliyon, 10(4). https://doi.org/10.1016/j.heliyon.2024.e26683
158. Wiratama, R. H., & Prasetio, J. E. (2025). The Role of Good Corporate Governance and Corporate Social Responsibility in Shaping the Financial Performance of IDX-Listed Mining Companies (2019–2023). International Journal of Applied Business and International Management, 10(2), 228. https://doi.org/10.32535/ijabim.v10i2.3854
159. Xiang, W., Lan, Y., Qi, Q., & Gan, L. (2023). The impact mechanism of China's green

finance on the transformation and innovation of high-energy-consumption enterprises. PLoS ONE, 18(10). https://doi.org/10.1371/journal.pone.0293022
160. Xue, S., Jiang, Y., & Wei, Q. (2024). Green financial accounting and transition in the mining sector in emerging
161. economies. Resources Policy, 89, 104683. https://doi.org/10.1016/j.resourpol.2024.104683
162. Yadiati, W., Meiryani, M., Lindawati, A. S. L., Wahyuningtias, D., Daud, Z. M., & Lusianah, L. (2024). Exploring Carbon Disclosure Research for Future Research Agenda: A Bibliometric Analysis. International Journal of Energy Economics and Policy, 14(3), 684. https://doi.org/10.32479/ijeep.15452
163. Ye, H., Ji, J., & Zou, Y. (2023). A Critical Review of the Effects of Stock Returns and Market Timing on Capital Structure [Review of A Critical Review of the Effects of Stock Returns and Market Timing on Capital Structure]. Advances in Economics, Business and Management Research/Advances in Economics, Business and Management Research, 503. Atlantis Press. https://doi.org/10.2991/978-94-6463-246-0_61
164. Yeboah, M., Yeboah, B., Atuahene, S. O. O., & Darko, E. A. (2024). Macroeconomic and firm-specific determinants of capital structure of listed firms in emerging markets. Risk Governance and Control Financial Markets & Institutions, 14(4), 136. https://doi.org/10.22495/rgcv14i4p13
165. Yılmaz, İ. (2025). Unraveling the influence of ESG performance on working capital management: An empirical analysis of a global panel dataset. Borsa Istanbul Review, 26(1), 100772. https://doi.org/10.1016/j.bir.2025.100772
166. Yu, Z., Farooq, U., Alam, M. M., & Dai, J. (2024). How does environmental, social, and governance (ESG) performance determine investment mix? New empirical evidence from BRICS. Borsa Istanbul Review, 24(3), 520. https://doi.org/10.1016/j.bir.2024.02.007
167. Zahid, R. M. A., Saleem, A., Maqsood, U. S., & Sági, J. (2023). Moderating role of audit quality in ESG performance and capital financing dynamics: insights in China. Environment Development and Sustainability, 26(5), 12031. https://doi.org/10.1007/s10668-023-03636-9
168. Zaighum, I., Aman, A., & Karim, M. Z. B. A. (2024). Peer effects, industry concentration and capital structure: evidence from emerging market economies. Journal of Applied Economics, 27(1). https://doi.org/10.1080/15140326.2024.2375682
169. Zengin, B. (2025a). The Impact of ESG Performance on Financial Profitability: Evidence from the Aviation Sector in EU Countries. Journal of Aviation, 9(3), 600. https://doi.org/10.30518/jav.1768349
170. Zengin, B. (2025b). Does size matter? Exploring the moderating role of firm size in the ESG– profitability relationship. Gazi Iktisat ve Işletme Dergisi, 11(3). https://doi.org/10.30855/gjeb.2025.11.3.005
171. Zhang, H., & Wei, S. (2024). Green finance improves enterprises' environmental, social and governance performance: A two-dimensional perspective based on external financing capability and internal technological innovation. PLoS ONE, 19(4). https://doi.org/10.1371/journal.pone.0302198
172. Zhao, X., & Zhang, H. (2024). How does ESG performance determine the level of specific financing in capital structure? New insights from China. International Review of Financial Analysis, 95, 103508. https://doi.org/10.1016/j.irfa.2024.103508
173. Zhao, Y., Gao, Y., & Hong, D. (2024). Sustainable Innovation and Economic Resilience: Deciphering ESG Ratings' Role in Lowering Debt Financing Costs. Journal of the Knowledge Economy. https://doi.org/10.1007/s13132-024-02129-y
174. Zheng, C., Khan, M. A. M., Rahman, M. M., Moudud-Ul-Huq, S., & Rahman, Md. S. (2025).

ESG Performance and Financial Stability: A Bibliometric and Meta-Analysis. SAGE Open, 15(4). https://doi.org/10.1177/21582440251381772

175. Zveruk, L. A. (2025). Digitalization of Financial Management of Enterprises in the Context of Sustainable Development. Business Inform, 6(568), 322. https://doi.org/10.32983/2222-4459-2025-6-322-331
176. Джерелейко, С., Borisova, V., Конєва, І., Яковенко, О. І., & Зінченко, А. (2024). ІННОВАЦІЙНІ ПІДХОДИ ДО МІНІМІЗАЦІЇ ФІНАНСОВИХ РИЗИКІВ: ПЕРСПЕКТИВИ ДЛЯ ЦИФРОВОГО БІЗНЕСУ ТА СИСТЕМ БУХГАЛТЕРСЬКОГО ОБЛІКУ. Financial and Credit Activity Problems of Theory and Practice, 4(57), 67. https://doi.org/10.55643/fcaptp.4.57.2024.4411
177. Kwilinski, A., Lyulyov, O., & Pimonenko, T. (2025). The role of green finance in attaining environmental sustainability within a country's ESG performance. Journal of Innovation & Knowledge, 10(2), 100674. https://doi.org/10.1016/j.jik.2025.100674
178. Халатур, С., Масюк, Ю., & Strozkii, V. (2023). MODEL OF FORMATION OF FINANCIAL RESOURCES IN CONDITIONS OF DIGITALIZATION. Investytsiyi Praktyka Ta Dosvid, 23, 59. https://doi.org/10.32702/2306-6814.2023.23.59