ISSN: 2799-1008

Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



Effect of Financial Leverage on Financial Performance of Listed Consumer Goods Firms in Nigeria

Bridget Aladi Lawani¹, James Tersoo Tsetim^{2*}, Habib Enatto³

¹Department of Business Education, College of Education Oju, Nigeria.

^{2*}Department of Business Administration, Joseph Sarwuan Tarka University Makurdi, Nigeria.

³Department of Business Management, Benue State University Makurdi, Nigeria.

Corresponding Email: 2* jamesttsetim8@gmail.com

Received: 02 May 2023 **Accepted:** 19 July 2023 **Published:** 01 October 2023

Abstract: This study examined the effect of financial leverage on financial performance of listed consumer goods firms in Nigeria. Data were collected from audited annual reports and accounts of 8 listed industrial goods firms in Nigeria from 2013-2022. Ex-post facto (after-the-fact) research design was adopted. Data were analyzed using Random Effect Regression. Results indicated that debt-equity ratio and long term debt ratio hade had significant negative effect on financial performance while short term debt ratio had negative insignificant effect on financial performance. Over all, the study found that financial leverage has negative effect on cash value added of listed industrial goods firms in Nigeria. Recommendations are also made.

Keywords: Debt to Equity Ratio, Long Term Debt, Short Term Debt, Cash Value Added.

1. INTRODUCTION

The business world has turned to a global settlement characterised by fierce competition such that for organisations to sustain a favourable financial performance requires holding tenaciously onto financial decisions. Everyone who invests in any organisation does so with the primary objective that the return on his investments will be maximized after taking a reasonable risk (Ofulue, Ezeagba, Amahalu & Obi, 2022). To this end, investors can only be willing to make investments in companies with increasing share prices which indicates the likelihood of boosting their wealth in the stock market (Alim, Ali & Minhas, 2022; Cheruiyot & Jagongo, 2022; Rahman, Saima & Jahan, 2020). In respect to recent financial crises bedevilling the Nigerian economy manifesting in skyrocketing inflation, it has become difficult for many organisations to meet their financial obligations (Matsoma, 2022), and as such many of them are increasingly depending on financial leverage as source for them to

Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



fund their financial obligations, to keep an acceptable return on their investments, and to forestall the likelihood of going bankruptcy (Abuamsha & Shumali, 2022).

Financial leverage is a ratio that explains the point to which an organisation makes use of debts to fund opportunities with the expectation of getting gains in return (Afolabi, Olabisi, Kajola & Asaolu, 2019; Nguyen, Nguyen, Tran & Nghiem, 2019). It is the deliberate use of borrowed money to invest in the business in order to boost the organisation's financial performance (Will, 2021). In a situation where financial obligations of an organisation are partly footed with loans and equity that firm can be said to be leveraged (Ravindran & Kengatharan, 2021; Al Habsi & Khalil, 2021). A lot of firms these days are using debts support their capital. By implication, firms are free to resort to debts in order to augment their assets so as to influence their financial performance (Alim, Ali & Minhas, 2022). Ofulue, Ezeagba, Amahalu and Obi (2022) presented three ways of assessing financial leverage to include: debt to equity ratio, long term debt and short term debt.

The debt-to-equity ratio (D/E) is a financial ratio that shows the portion of investors own money and borrowed money to fund the company's resources (Okoye, Amahalu, Nweze & Obi, 2016). This ratio analyses the credence of total debt and financial liabilities in relation to total shareholders' equity (Motsoma, 2022; Banal Estanol, Siciliani, & Yoon, 2022). The analysis of this ratio reveals the proportion of a firm's money that emanates from creditors and investors (Hongli, Ajorsu & Bakpa, 2019). While interpreting this financial ratio A higher debt to equity ratio is a practical exposition that a greater portion of the firms financing is gotten from bank loans as against shareholders (Olayoye & Olaoye, 2022).

Another form of leverage for firms is the short term debt which is same as current liabilities (Ravindran & Kengatharan, 2021). This explains the financial involvements that should be paid in one year (Chad, 2021). Short-term debt simply put is a financial assistance gotten procured by a firm in form borrowing whose repayment term does not exceed 12 months (Abubakar & Mohammed, 2021). When preparing a firms financial statement, short-term debts form part of the firms liabilities (Amahalu, Okoye, Nweze & Okika, 2017). The third approach of determining a firm' leverage ratio is what is known as long term debt. This represents the portion of debt that a firm owe that can be paid in a period longer than 12 months (Lestari, 2021). On the liability side of a company's balance sheet, this debt appears as a non-current liability (Papadimitri, Pasiouras & Tasiou, 2021; Mbonu & Amahalu, 2021a; Mamaro & Legotlo, 2021). Investors are relying on financial leverage to maximize the return on investment and achieve optimal financial performance (Adeniyi & Aderobaki, 2021). This suggests that financial leverage of a firm has a link with its financial performance.

Financial performance is an assessment of a firm's level of effective utilization of it asset in a manner that eventually brings revenue to the firm (Guo, Yang & Zhang, 2020). This term is also used to describe an inclusive analysis of a firm's general position in areas relating to the firm's assets, the liabilities of the firm, the concentration of equity, expenses incurred by the firm, the revenue generated into the firm and of course the firm's overall profitability (Mbonu, & Amahalu, 2021b). This assessment is done in series of approaches to ascertain a firm's potentials to run effectively (Amahalu & Obi, 2020a). One common and frequent measure of financial performance is cash value added. Cash value added as a measure of firm financial performance is the representation of a company's capability to create cash flow in excess of what is requisite to its investors (Sutomo, 2020).

Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



There are studies across the globe that focusing on financial leverage, however scarcely are there known researches focusing on listed consumer goods firms in Nigeria (Ofulue, Ezeagba, Amahalu and Obi, 2022). Studies like those of Afolabi, Olabisi, Kajoola and Asaolu (2019) and Abubakar (2021) were in Nigeria on quoted conglomerate and oil and gas companies respectively. Adeniyi and Ademola (2021) focused on quoted agricultural firms in Nigeria. On the other hand, the construction/real estate and natural resources sector was researched by Abubakar, Maishanu, Abubakar and Aleiro (2021). The striking observation that previous studies produced mixed findings prompted the current attempts to close the gap left in the consumer goods industry in Nigeria.

1.2 The Study Objectives

This study in broad terms seeks to examine the effect of financial leverage on financial performance of listed consumer goods firms in Nigeria. In specific terms, the study shall;

- i. examine the effect of debt to equity ratio on financial performance;
- ii. examine the effect of long term debt on financial performance; and
- **iii.** examine the effect of short term debt on financial performance of listed consumer goods firms in Nigeria.

Conceptual Review

Financial Leverage and Financial Performance

The connection between leverage and financial performance has been investigated by many researchers however the findings of these studies were not consistent. For instance, Akaji, Nwadialor & Agubata, 2021; Mbonu, & Amahalu, (2021b) all reported positive and significant effect of debt-equity financing on firms performance in Nigeria. On a contrary, a negative relationship was presented from the study by Ezejiofor, Nwakoby and Okoye (2019). Elaborately, DeMarzo and Zhiguo (2021) reiterated that the cost of financing largely determines the effectiveness of short-term financing on profitability. Noteworthy here are the studies by Vithessonthi and Tongurai (2015) and Iqbal and Usman (2018) that confirmed a negative connection since the cost of obtaining debt outweighed the advantage of initiating the debt. In comparison, Thomas and Zechner (2021), Kumar and Nanda (2020) and Egolum, Amahalu and Obi (2019) stated that optimal financial performance is traceable to firms that engage in short term debts than to their counterparts that engage in long term debts.

Achieving higher productivity in firms is fund to have a connection with debt obtained on long term basis as researched by Okegbe, Eneh and Amahalu (2019). In evaluating what could be responsible for variations in return on stocks, the study conducted by Guo, Yang and Zhang (2020) revealed that leveraging could be strong determinant. In search of reasons while firms alternate between long term and short term debt, Sutomo (2020) uncovered that short term debts are more favourable to organisations where the cost of diversifying assets is high, however, long term debt works better for companies whose fixed asset ratio is larger.

There are proofs of financial leverage yielding a positive influence on profitability of firms as demonstrated in research carried out by Banal Estanol, Siciliani, and Yoon (2022), Abubakar and Mohammed (2021), Lestari (2021), Mamaro and Legotlo (2021), Hongli, Ajorsu and Bakpa (2019), Dey, Hossain and Rahman (2018). However, there are still records of negative association between same variables as presented by Banal Estanol, Siciliani, and Yoon

ISSN: 2799-1008

Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



(2022), Ravindran and Kengatharan (2021), Papadimitri, Pasiouras and Tasiou (2021), Rahman, Saima, and Jahan (2020), Nguyen, Nguyen, Tran and Nghiem (2019), Jeleel and Olayiwola (2017). Leveraging may impede firms' performance, but it bails out firms when faced with external financing need in times of crisis (Didier, Huneeus, Larrain & Sergio, 2021; Ghardallou, 2022). Another set of studies professing a positive connection between leveraging and performance include studies by Dakua (2019) and Yang, Xia and Wen (2016), Zhang, Zhang and Guo (2019) and Xin, Sun, Zhang and Liu (2019). The variation in findings is predominantly noticed in cases where high leverage is adopted to build up costly marketing activities. Nevertheless, there is a likelihood of promoting the valuation of firm and averting possible distress by the instrumentality of marketing activities. Thus this study is guided by the following null hypotheses:

H01: Debt to equity ratio has no significant effect on financial performance

H0₂: Long term debt has no significant effect on financial performance

H03: Short term debt has no significant effect on financial performance of listed consumer goods firms in Nigeria

2. RESEARCH METHODOLOGY

The research method employed in carrying out this research was the Ex-post facto design. The study sampled 8 listed consumer goods firms that remained quated o the floor of Nigeria Exchange Group (NEG) during the period of 1st January 2013 to 31 December 2022 with reports constantly submitted to NEG within the said period. These firms were: Cadbury Nigeria Plc, Guinness Nig Plc., Honeywell Flour Mill Plc, Nestle Nigeria Plc, Nigerian Breweries Plc. P Z Cussons Nigeria Plc., Unilever Nigeria Plc. and Vitafoam Nigeria Plc. We made use of secondary data pull up from annual accounts of these companies for 10 years (2013-2022). To ascertain the effect of independent variables on the dependent, variable Random Effect Regression analysis was chosen while p-value was used to test the hypotheses. These hypotheses were tested at 0.05 level of significance.

3. RESULTS

Table 1: Descriptive Statistics

Variable	Obs	Mean	Std. Dev.	Min	Max
CVA	144	2.31e+07	3.12e+07	11587	1.27e+08
DE	144	.2464655	.4546368	0	3.489663
LTDTA	144	.1090154	.1183755	0	.5227015
STDTA	144	.3237531	.2449428	.0031121	.9507896

Source: STATA Output, 2023.

The dependent variable for this study, cash value added (CVA) as presented in Table 1 revealed an estimated lowest amount of \$0.15 and a highest amount of \$12.7. The average CVA during the period understudy is estimated at \$2.31 with standard deviation of \$3.21. This implies that the CVA is above 1 which makes the companies good for maintaining high rate of profitability.

ISSN: 2799-1008

Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



Table 1 also reflects a mean value of 0.2464 with a fluctuation of 0.4546 in respect to DE ratio. The lowest and greatest values of DE ratio recorded are 0.00 and 3.42 respectively. The amounts here are indicating that not all the sampled industrial goods companies were leveraged whereas others have debts more than their shareholders' equity. Apparently, this result affords evidence that on average, the companies placed their shareholders at low risk since debts have a small proportion when compared with equity.

Table 1 also reflects a mean value of 0.1090 with a fluctuation of 0.1184 in respect to long term to total assets ratio. The lowest and upper values of this ratio during the study period are 0.00 and 0.5227 accordingly. The meaning of these figures is that some of the companies have not used long term debt in financing their assets while others finance their assets with about 50% with long term debts. Apparently, this result affords evidence that on average, the listed consumer goods firms in Nigeria firms have financed their assets with minimal long term debts.

Furthermore, short term debts to total assets ratio revealed a mean with standard deviation values of 0.3238 and 0.2449 respectively. This result could be interpreted to connote that on average, the companies finance their assets with short term debts by 32.38%. The standard deviation suggests a low dispersion from the mean values of this ratio.

Test of Research Hypotheses

Table 2: Random Effect Regression Result

Variables	Coefficients	T	p>/t/
DE	-0.0058	-2.82	0.005
LTDTA	-0.0345	-4.28	0.000
STDTA	-0.0037	-1.08	0.279
-cons	1.0880	737.89	0.000
\mathbb{R}^2	0.3022		
Prob>F	0.000		
Obs.	80		

Source: Researcher's Compilation, 2023.

The result in Table 2 above indicates that the aggregate effect of the explanatory variables (debt equity ratio, long term debts to total assets ratio and short term debts to total assets ratio) and the explained variable (CVA) is estimated at 30.22 % as indicated by the R-squared while 69.78 % is determined by other variables that are not part of this study. The Model which is also significant at 1 % revealed it fitness and so provides adequate attestation that leverage has a significant effect on the CVA of listed consumer goods firms in Nigeria. Further analysis of the independent variables is done in the subsequent paragraphs:

The result also shows that DE ratio has a negative coefficient of -0.0058. This is verification that a unit variation in DE will trigger a decrease in CVA of listed consumer goods firms by 0.58 % and vice versa. This result again shows that CVA will decrease with increase in debt financing vis-à-vis equity financing. Table 2 also revealed that long term debt to total assets ratio has a negative coefficient value of -0.0345. This implies that variability of LTDTA negatively influences the CVA. This result suggests that a percentage variation in LTDTA will lead to 3.45 % decrease in the CVA of listed consumer goods firms in Nigeria.

ISSN: 2799-1008

Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



Furthermore, the result revealed that short term debts to total assets ratio has a negative coefficient value of -0.0037. This implies that STDTA negatively influences the CVA of listed consumer goods firms in Nigeria during the period under study. This result is anindication that a percentage change in STDTA will lead to 0.37 decrease in the CVA of listed consumer goods firms in Nigeria.

Summary of Results

The test in Table 3 revealed the following findings:

- **i.** Debt-equity ratio has a p-value of 0.005 which is less than 0.05. for this the null hypothesis was rejected. Therefore, DE ratio has a significant effect on the CVA of those companies.
- **ii.** Long term debts to total assets ratio has a p-value of 0.000 which is less than 0.05. on this note, the null hypothesis was rejected. The study therefore concludes that there is significant effect of long term debts on the CVA of listed consumer goods firms in Nigeria.
- iii. Short term debts have a p-value of 0.279 which is greater than the 0.05. This leads to the acceptance of the null hypothesis. The study therefore concludes that short term debts does not have significant effect on the CVA of firms under. Generally the study found that financial leverage has negative effect on financial performance of listed consumer goods firms in Nigeria, confirming the results earlier obtained by Matsoma (2022) while Ravindran and Kengatharan (2021) found financial leverage to affect financial performance negatively but significantly.

4. COCLUSION AND RECOOMMENATIONS

From the findings of this study, since all the variables of financial leverage are negative, it can be concluded that financial leverage has detrimental effect on financial performance of listed consumer goods firms in Nigeria. It is also concluded that long term solvency ratios are more relevant than short term solvency ratios. This shows that short term sources of finance are not good to finance long term investments in total assets. Based on the findings, the is recommended that management of listed consumer goods firms in Nigeria should increase the level at which they finance their assets with equity. By increasing this proportion, the reduced effect of repayment of both principal and interest could help in channelling such funds to other value creation activities.

5. REFERENCES

- 1. Abuamsha, M., & Shumali, S. (2022). Debt structure and its impact on financial performance: an empirical study on the Palestinian stock exchange. Journal of International Studies, 15(1), 211-229.
- 2. Abubakar, A. (2021). Financial Leverage and Financial Performance of Oil and Gas Companies in Nigeria: A Re-examination. Turkish Journal of Computer and Mathematics Education, 12(3), 4170-4180.

ISSN: 2799-1008

Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



- 3. Abubakar, A., Maishanu, M. M., Abubakar, M. Y. & Aliero, H. M. (2021). Financial Leverage and Financial Performance of Listed Construction/Real Estate and Natural Resources Companies in Nigeria. International Conference on Economics, Entrepreneurship and Management 2021 (ICEEM2021).
- 4. Abubakar, M.Y. & Mohammed, H. (2021). The financial leverage and financial performance of listed construction/real estate and natural resources companies in Nigeria.
- 5. Adeniyi, S. I. D & Aderobaki, V. A. (2021). Financial Leverage And Financial Performance of Listed Agricultural Firms on The Nigeria Stock Exchange. Journal of Contemporary Issues in Accounting, 1(1), 200-213.
- 6. Afolabi, A., Olabisi, J., Kajola, S. O., & Asaolu, T. O. (2019). Does leverage affect the financial performance of Nigerian firms? Journal of Economics & Management, 37(3), 5-22.
- 7. Akaji, O., Nwadialor E.O., Agubata, N. (2021). Effect of debt-equity financing on firms performance in Nigeria, Journal of Accounting and Financial Management, 7(3), 73-81.
- 8. Al Habsi, N.K.A. & Khalil, R. (2021). Financial Leverage and Firms' Performance: A Study of Tri- Sector Listed Companies in Oman, 7(1), 19-47.
- 9. Ali, M. (2020). Impact of Leverage on Financial Performance (Evidence from Pakistan Food and Fertilizer Sector). Journal of Critical Reviews, 2394-5125.
- 10. Alim, W. Ali, A. & Minhas, A. S. (2022). Impact of Leverage on the Firm Performance: A Case of Fertilizers Sector of Pakistan. Empirical Economics Letters, 21 (2), 51-61.
- 11. Amahalu, N.N., & Obi, J.C. (2020a). Effect of financial statement quality on investment decisions of quoted deposit money banks in Nigeria. International Journal of Management Studies and Social Science Research, 2(4), 99-109.
- 12. Amahalu, N.N., & Obi, J.C. (2020b). Effect of audit quality on financial performance of quoted conglomerates in Nigeria. International Journal of Management Studies and Social Science Research, 2(4), 87-98.
- 13. Amahalu, N.N., Okoye,E.I, Nweze, C.C & Okika, E.O. (2017). Effect of capital adequacy on financial performance of quoted deposit money banks in Nigeria. Proceedings of the 2017 Faculty of Management Sciences, International Conference on African Entrepreneurship and innovation for sustainable development, Nnamdi Azikiwe University, Awka, 26th-29th July, 2017, 841-862.
- 14. Anh, P. & Phuong, N. (2022). The Impact of Financial Leverage and Audit Quality on Firm Performance: The Case of Listed Firms in Vietnam, Journal of Southwest Jiaotong University, 57(3), 437-452.
- 15. Bae, J., Kim, S. J & Oh, H. (2017). Taming polysemous signals: The role of marketing intensity on the relationship between financial leverage and firm performance. Review of Financial Economics 33: 29–40.
- 16. Banal Estanol, A.; Siciliani, P. & Yoon, K. (2022). Competition, profitability and financial leverage (No. 962). Bank of England.
- 17. Berger, A. N., & Di Patti. E. B (2006). Capital structure and firm performance: A new approach to testing agency theory and an application to the banking industry. Journal of Banking & Finance 30: 1065–102.

Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



- 18. Chad, L. (2021). What is the short/current long-term debt account? https://www.investopedia.com/ask/answers/06/currentportionlongtermdebt.asp. Accessed 23/07/2023
- 19. Cheruiyot, D. K. & Jagongo, A. (2022). Firm Financing on Financial Performance of Unit Trust Firms Listed in Nairobi Securities Exchange, Kenya. International Journal of Finance and Accounting, 7(1), 76 89.
- 20. Dakua, S. (2019). Effect of determinants on financial leverage in the Indian steel industry: A study on capital structure. International Journal of Finance and Economics, 24(1), 427-436.
- 21. DeMarzo, P.M., & Zhiguo, H. (2021). Leverage dynamics without commitment. Journal of Finance, 3, 1 195–250.
- 22. Dey, R.; Hossain, S. & Rahman, R. (2018). Effect of corporate financial leverage on financial performance: A study on publicly traded manufacturing companies in Bangladesh. Asian Social Science, 14(12), 67-78.
- 23. Didier, T., Huneeus, F., Larrain, M. & Sergio L. S. (2021). Financing firms in hibernation during the COVID-19 pandemic. Journal of Financial Stability 53: 100837.
- 24. Egolum, P.U., Amahalu, N.N., & Obi, J.C. (2019). Effect of firm characteristics on environmental performance of quoted industrial goods firms in Nigeria. International Journal of Research in Business, Economics and Management, 3(6), 1-13.
- 25. Egolum, P.U., Amahalu, N.N., & Obi, J.C. (2019). Effect of firm characteristics on environmental performance of quoted industrial goods firms in Nigeria. International Journal of Research in Business, Economics and Management, 3(6), 1-13.
- 26. Etukudo, J. W., Etim, E. O. & James, O. J. (2022). Financial Leverage and Financial Performance of Listed Agricultural Firms in Nigeria. Phoenix International Journal Contemporary Studies, 4(2), 21-42.
- 27. Ezejiofor, R.A., Nwakoby, N.P. & Okoye, J.A. (2019). Financial leverage and shareholders' wealth: an empirical analysis of foods and beverages firms in Nigeria, International Journal of Application or Innovation in Engineering & Management, 8(12), 329-371.
- 28. Ezejiofor, R.A., Nwakoby, N.P. & Okoye, J.A. (2019). Financial leverage and shareholders' wealth: an empirical analysis of foods and beverages firms in Nigeria, International Journal of Application or Innovation in Engineering & Management, 8(12), 329-371.
- 29. Guo, M., Yang, N., & Zhang, Y. (2020). Focal enterprises' control and knowledge transfer risks in r&d networks: The mediating role of relational capability. Eur. J. Innov. Manag., 24, 870–892.
- 30. Hongli, J.; Ajorsu, E.S. & Bakpa, E.K. (2019). The Effect of Liquidity and Financial Leverage on Firm Performance: Evidence from Listed Manufacturing Firms on The Ghana Stock Exchange. Research Journal of Finance and Accounting, 10(8), 91-100.
- 31. Huynh, Q.L.; Hoque, M.E.; Susanto, P.;Watto,W.A. & Ashraf, M. (2022). Does Financial Leverage Mediates Corporate Governance and Firm Performance? Sustainability, 14, 13545. https://doi.org/10.3390/su142013545

Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



- 32. Iqbal, U. & Usman, M. (2018). Impact of financial leverage on firm performance: Textile composite companies of Pakistan. SEISENSE Journal of Management, 1: 70–78
- 33. Jeleel, A. & Olayiwola, B. (2017). Effect of leverage on firm performance in Nigeria: A case of listed chemicals and paints firms in Nigeria. Global Journal of Management and Business Research: Accounting and Auditing, 17(2), 2249-4588.
- 34. Jim, H.S., Xiaochen, J. & Chien, C.L. (2021). Toward an empirical investigation of the long-term debt and financing deficit nexus: Evidence from Chinese-listed firms. Applied Economics 53(33), 3832-3853
- 35. Kenn-Ndubuisi, J. I. & Nweke, C. J. (2019). Financial Leverage and Firm Financial Performance in Nigeria: A Panel Data Analysis Approach. Global Journal of Management and Business Research, 19(4), 13-19.
- 36. Khan, K. I., Qadeer, F., Mata, M. N., Chavaglia Neto, J., Sabir, Q. U., Martins, J. N. & Filipe, J. A. (2021). Core predictors of debt specialization: a new insight to optimal capital structure. Mathematics, 9, 975, 1-25
- 37. Khan, N., Ullah, H. & Afeef, M. (2021). The Effect of Leverage and Debt Maturity on the Corporate Financial Performance: Evidence from Non Financial Firms Listed at Pakistan Stock Exchange. Sustainable Business and Society in Emerging Economies, 3(1), 35-47.
- 38. Kijkasiwat, P., Anwar, H. & Amna, M. (2022). Corporate Governance, Firm Performance and Financial Leverage across Developed and Emerging Economies. Risks, 10: 185.
- 39. Korir, D., Sang, W. & Sirma, K. (2022). The relationship between financial leverage and financial performance of manufacturing firms listed at the Nairobi Securities Exchange in Kenya. Global Scientific Journal, 10(9), 1521-1539.
- 40. Kumar, P.A., & Nanda, S. (2020). Determinants of capital structure; a sector-level analysis for Indian manufacturing firms. International Journal of Productivity and Performance Management, 69, 1033–60.
- 41. Kumar, P.A., & Nanda, S. (2020). Determinants of capital structure; a sector-level analysis for Indian manufacturing firms. International Journal of Productivity and Performance Management, 69, 1033–60.
- 42. Lestari, H. S. (2021). Financial Leverage and Financial Performance of Conventional Banks in Indonesia. Journal of Hunan University Natural Sciences, 48(2), 24-35.
- 43. Mamaro, L. P. & Legotlo, T. G. (2021). The Financial Performance and Financial Leverage of Retail Listed Firms in South Africa. Acta Universitatis Danubius, 17(6), 115-130.
- 44. Matsoma, N. L. (2022). The Nexus Between Financial Leverage and Profitability: Evidence from Top-40 Johannesburg Security Exchange (JSE) Listed Companies. Acta Universitatis Danubius Audoe, 18(5), 397-410
- 45. Mbonu, C.M., & Amahalu, N.N. (2021a). Effect of Firm Characteristics on Capital Structure of Insurance Companies Listed on Nigeria Stock Exchange. International Journal of Management Studies and Social Science Research, 3(5), 217-228

Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



- 46. Mbonu, C.M., & Amahalu, N.N. (2021b). Effect of board diversity on borrowing cost of listed conglomerates in Nigeria. American Research Journal of Humanities Social Science, 04(10), 62-73.
- 47. Muchiri, M. J.; Muturi, W. M. & Ngumi, P. M. (2016). Relationship between Financial Structure and Financial Performance of Firms Listed at East Africa Securities Exchanges. Journal of Emerging Issues in Economics, Finance and Banking, 5(1), 1734 1755.
- 48. Musa, S. J. Ibrahim, K. M. & Success, B. E. (2022). Effect of Leverage on Profitability of Information and Communication Technology Companies Listed on the Nigeria Stock Exchange. Journal of Positive School Psychology, 6(6), 10386 10393.
- 49. Nguyen, V.; Nguyen, T.; Tran, T. & Nghiem, T. (2019). The impact of financial leverage on the profitability of real estate companies: A study from Vietnam stock exchange. Management Science Letters, 9(13), 2315-2326.
- **50.** Nyabaga, R. M. & Wepukhulu, J. M. (2020). Effect of Firm Characteristics on Financial Performance of Listed Commercial Banks in Kenya. International Journal of Economics and Financial Issues, 10(3), 255-262.
- 51. Ofulue, I., Ezeagba, C. E., Amahalu, N. N. & Obi, J. C. (2022). Financial Leverage and Financial Performance of Quoted Industrial Goods Firms in Nigeria. International Journal of Management Studies and Social Science Research, 4(1), 172-181.
- 52. Okegbe, T.O., Eneh, O.M., & Amahalu, N.N. (2019). Effect of firm characteristics on capital structure of deposit money banks listed on Nigeria stock. International Journal of Academic Research in Accounting, Finance and Management Sciences, 9(2), 198–210.
- 53. Olaoye, C. O. & Olaoye, A. A. (2022). Effects of Capital Structure on the Financial Performance of Listed Consumer Goods Firms in Nigeria (2011-2021). Journal of Marketing & Supply Chain Management, 1(3): 1-6.
- 54. Omabu, S.E., Okoye, Pius V.C., & Amahalu, N.N. (2021). Financial leverage and shareholders wealth creation of quoted industrial goods firms in Nigeria. International Journal of Trend in Scientific Research and Development, 5(6), 673-681
- 55. Papadimitri, P.; Pasiouras, F. & Tasiou, M. (2021). Financial leverage and performance: the case of financial technology firms. Applied Economics, 53(44), 5103-5121.
- 56. Rafiuddin, A. & Rafiqul, B. (2020). Capital structure and firm performance in Australian service sector firms: a panel data analysis. Journal of Risk and Financial Management, 13(214), 1-16.
- 57. Rahman, M.M.; Saima, F.N. & Jahan, K. (2020). The Impact of Financial Leverage on Firm's Profitability: An Empirical Evidence from Listed Textile Firms of Bangladesh. The Journal of Business Economics and Environmental Studies, 10(2), 23-31.
- 58. Ravindran, M. & Kengatharan, L. (2021). Impact of Financial Leverage on Firm Profitability: Evidence from Non-Financial Firms Listed in Colombo Stock Exchange-Sri Lanka. Journal Homepage, 1(1), 80-91.
- 59. Senan, N.A., Ahmad, A., Anagreh, S., Tabash, M.I. & Al-Homaidi, E.A. (2021). An empirical analysis of financial leverage and financial performance: Empirical evidence from Indian listed firms. Investment Management and Financial Innovations, 18(2), 322-334.

ISSN: 2799-1008 Vol: 03, No. 06, Oct-Nov 2023

http://journal.hmjournals.com/index.php/JPOME **DOI:** https://doi.org/10.55529/jpome.36.29.39



- 60. Shaika, A. R. & Sharmaa, R. B. (2021). Leverage, capital and profitability of the banks: Evidence from Saudi Arabia. Accounting, 7, 1363–1370
- 61. Shimenga, M. A., & Miroga, J. (2019). Influence of financial leverage and liquidity on financial performance of manufacturing firms listed at the Nairobi Securities Exchange. The Strategic Journal of Business & Change Management, 6 (2), 799 –814.
- 62. Thomas, D., & Zechner, J. (2021). Debt maturity and the dynamics of leverage. The Review of Financial Studies, 24, 148-151.
- 63. Tom-West, R., Okoye, P.V.C., & Amahalu, N.N. (2021). Intellectual capital and economic value added of quoted information communication and technology firms in Nigeria. International Journal of Management Studies and Social Science Research, 3(5), 281-294.
- 64. Xin, K, Sun, Y., Zhang, R. & Liu. X. (2019). Debt financing and technological innovation: Evidence from China. Journal of Business Economics and Management, 20: 841–59.
- 65. Yang, R., Xia, K. & Wen, H. (2016). Venture capital, financial leverage and enterprise performance. Procedia Computer Science 91: 114–21.
- 66. Zaitoun, M. & Alqudah, H. (2020). The Impact of Liquidity and Financial Leverage on Profitability: The Case of Listed Jordanian Industrial Firms. International Journal of Business and Digital Economy, 1(4) 29–35.
- 67. Zhang, L., Zhang, S. & Guo, Y. (2019). The effects of equity financing and debt financing on technological innovation: Evidence from developed countries. Baltic Journal of Management, 14: 398–715.