

CASH AND LIQUIDITY MANAGEMENT ANALYSIS OF COMPANIES IN IMPROVING PROFITABILITY RATIOS ON THE INDONESIAN STOCK EXCHANGE (IDX) IN THE FOOD & BEVERAGE SUBSECTOR

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Abstract

Cash and liquidity management are critical aspects in optimizing the financial performance of a company, especially in the capital market such as the Indonesia Stock Exchange (IDX). This study aims to investigate the impact of cash management and corporate liquidity in improving profitability ratios, with a focus on the Food & Beverage subsector on the IDX. Purposive sampling in this study with multiple linear regression data analysis and descriptive statistics. The findings of this study conclude that profitability is affected by cash management, whereas profitability is not affected by liquidity. Furthermore, the research highlights the importance of efficient cash management practices in maximizing profitability and overall financial health. By effectively managing cash flows and maintaining adequate liquidity levels, companies in the Food & Beverage subsector can improve their financial performance and potentially attract more investors on the IDX. This study provides valuable insights for companies looking to optimize their cash and liquidity management strategies to drive sustainable growth and success in the competitive capital markets of Indonesia.

Keywords: Cash Management, Liquidity, Profitability

1. INTRODUCTION

In the midst of globalization and increasingly fierce commercial competition, companies in the F&B sector on the Indonesia Stock Exchange (IDX) face various obstacles in managing their organizations effectively. The food and beverage industry, or better known as the Food & Beverage (F&B) sector, has become one of the main pillars in the global economy. In 2019, the processed coffee company experienced a year-on-year sales decline of 8.24%, with revenue falling from Rp. 1.33 trillion in the previous year to Rp. 1.22 trillion. Based on its 2019 financial report, PSDN reported net sales of Rp 1.02 trillion, most of which came from overseas sources. The decline in sales was due to the pressure of declining commodity prices in the international market due to the trade war between the United States and China. Furthermore, PSDN reported a significant increase in other operating income to reach Rp. 14.95 billion from only Rp527.18 million in 2018. As a result, the company achieved an operating profit of IDR33 billion, a considerable increase from the previous loss of IDR2.5 billion. However, after taking into account the final tax, PSDN still suffered a loss of Rp. 47.35 billion for the year, down from the previous loss of Rp. 62.23 billion.

Companies in this sector not only fulfill consumers' basic needs but also play an important role in creating culinary trends, product innovations and unique consumer experiences. The food and beverage production process involves a complex set of manufacturing activities, from processing raw materials to packaging the finished product.

The manufacturing industry is critical to engine development due to its significant advantages over other sectors. These advantages include high levels of embedded capital, the ability to accommodate large numbers of workers, and the ability to generate added value through the processing of inputs or raw materials.

The Food & Beverage subsector refers to a portion of the food and beverage industry that can be further segmented based on various criteria such as product type, production process, and market characteristics. This subsector includes various business entities working in the distribution, sales, and production of food and beverages. The Food & Beverage subsector on the IDX, as a vital part of the national economy, requires smart financial management strategies to face the challenges of a dynamic market.

Profitability is a metric used to assess overall management performance. It is calculated by comparing the level of profit generated with the amount of investment and sales. A superior profitability ratio shows the stronger capacity of the business entity to generate tangible profits. The following financial data details the net profit statement for 2018 to 2022.

Table 1. Net Profit Data for the Period 2018 – 2022

Nama Perusahaan	2018	2019	2020	2021	2022
MLBI	Rp. 1.224.807	Rp. 1.206.059	Rp.285.617	Rp. 665.850	Rp. 924.906
ADES	Rp. 52.958	Rp. 83.885	Rp.135.789	Rp. 265.758	Rp.364.972
DLTA	Rp. 338.130	Rp. 317.815	Rp.123.465.762	Rp. 187.992.998	Rp. 230.065.807
ALTO	Rp. -33.021.220.862	Rp. -7.383.289.239	Rp.-10.506.939.189	Rp. -8.932.197.718	Rp. -16.129.026.748
ICBP	Rp. 4.658.781	Rp. 5.360.029	Rp.7.418.574	Rp. 7.900.282	Rp. 5.722.194
INDF	Rp. 4.961.851	Rp. 5.902.729	Rp.8.752.066	Rp. 11.203.585	Rp. 9.192.569
MYOR	Rp. 1.760.434.280.304	Rp.2.039.404.206.764	Rp.2.098.168.514.645	Rp. 1.211.052.647.953	Rp. 1.970.064.538.149
ULTJ	Rp. 701.607	Rp. 1.035.865	Rp. 1.109.666	Rp. 1.276.793	Rp. 965.486
STTP	Rp. 255.088.886.019	Rp. 482.590.522.840	Rp.628.628.879.549	Rp. 617.573.766.863	Rp. 624.524.005.786
ROTI	Rp. 127.171.436.363	Rp.236.518.557.420	Rp.168.610.282.478	Rp. 281.340.682.456	Rp. 432.247.722.254
SKLT	Rp. 31.954.131.252	Rp.44.943.627.900	Rp.42.520.246.722	Rp. 84.524.160.228	Rp. 74.865.302.076
CEKA	Rp. 92.649.656.775	Rp.215.459.200.242	Rp.181.812.593.992	Rp. 187.066.990.085	Rp. 220.704.543.072
BUDI	Rp. 50.467	Rp. 64.021	Rp. 67.093	Rp. 91.723	Rp. 93.065
SKBM	Rp. 15.954.632.472	Rp.957.169.058	Rp. 5.415.741.808	Rp. 29.707.421.605	Rp. 86.635.603.936
AISA	Rp. -103.041	Rp.1.613.969	Rp.1.204.972	Rp. 8.762	Rp. -62.359
PSDN	Rp. -46.599.426.588	Rp.-25.762.573.884	Rp.-52.304.824.027	Rp. -82.495.584.993	Rp. -25.834.965.122

Financial management must prioritize elements that have an impact on profitability to optimize company profits. It is important to focus on cash management, liquidity, and profitability to maintain a balanced financial position and assess the company's financial

effectiveness for future business growth. Ardansyah & Widarto (2015) showed a direct correlation between debt utilization and company profitability, thus showing a beneficial impact. Based on the research findings of Halim et al (2021), cash turnover and liquidity do not have a major impact on profit levels.

Based on the information provided above, researchers can define the problem in the following way: 1. Does cash management have a significant impact on the profitability of Food & Beverage companies? 2. Does liquidity have a significant impact on the profitability of Food & Beverage companies? 3. Does cash and liquidity have a significant effect on the profitability of Food & Beverage companies? The purpose of this research is to test and find out cash management in increasing profitability on the Indonesia Stock Exchange banking subsector.

2. LITERATURE REVIEW

2.1. Cash Management

Cash is a highly liquid asset with a positive balance that is utilized (Hilaliyah, 2016). As stated by Sudibyo (2021), cash is considered the most critical asset. Therefore, it is imperative to implement a number of strict security measures to prevent potential breaches that could harm the organization. Kasmir (2014), Increased cash turnover leads to increased use of cash and superior profits. Therefore, it can be stated that cash management has an impact on profitability. In this study, cash management is measured using the cash flow ratio indicator (cash flow ratio) SAP Business (2017) is a cash flow statement is part of a financial report that provides details of cash equivalents and cash movements in and out of business entities during a certain period (Kasmir, 2014). The formula used for cash management is:

$$\text{Cash Flow Ratio} = \frac{\text{Net Cash Flow from Operations}}{\text{Short – term Debt}} \times 100\%$$

2.2. Liquidity

Liquidity is a metric that measures the capacity of a company to fulfill its financial obligations quickly and efficiently. The Cashmere Organization has external duties towards people outside the organization, such as financial entities, and internal obligations within the company itself, as of 2016. Liquidity refers to the capacity of a company to fulfill its immediate financial obligations immediately (Sartono, 2008).

An institution is required to disclose the amount, category, and existence of unencumbered assets that can be used as collateral for secured loans, as stated by the (Autorité des marchés financiers, 2016). Liquidity consistently has an impact on increasing company profitability.

Rudin et al (2016), this study uses the current ratio indicator to assess liquidity, which is a widely used metric to evaluate the capacity of a business entity to fulfill its financial obligations in the short term, thus measuring its solvency (Fahmi, 2013). The equation used to calculate it is:

$$\text{Current Ratio} = \frac{\text{Current Assets}}{\text{Current Debt}} \times 100\%$$

2.3. Profitability

Two profitability ratios that are often involved are Return On Equity (ROE) and Return On Assets (ROA) (Gunawan & Dailibas, 2023). Profitability ratios are used to assess the ability of business entities to generate profits by involving financial statement data (Fathiyyah, S. N., & Muflih, 2023). The stable profitability of a business entity indicates its ability to maintain its operations by generating income that exceeds the associated risks (Habibie & Parasetya, 2022). Theoretically, the value of a company is partly determined by its profitability Lubis et al (2017). This study uses statistics (ROA) to measure profitability. Stock return refers to the results obtained from investment, as stated by Legiman et al (2015). The equation used to calculate ROA is:

$$ROA = \frac{\text{Net Profit}}{\text{Total Assets}} \times 100\%$$

2.4. Effect of Cash Management on Profitability

According to the results of research (Putri, 2013) concluded that cash management has a positive and significant effect on profitability

H¹: Cash Management has a positive effect on profitability

2.5. Effect of Liquidity on Profitability

The findings of Dwiyanthi's (2017) study show that a significant increase in liquidity leads to a decrease in profitability due to the underutilization of cash by the organization. (Afriyanti, 2011) also arrived at the same findings, which showed that liquidity has a major adverse impact on profitability.

H²: Liquidity has no effect on profitability

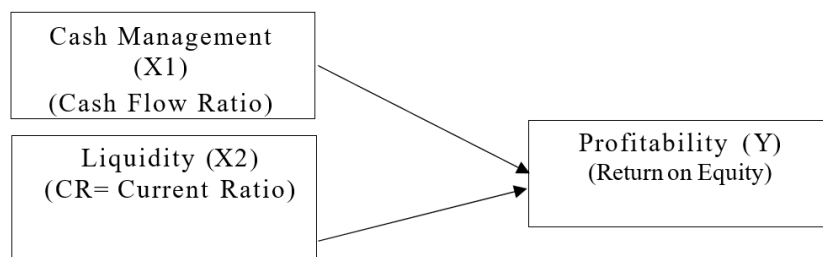


Figure 1. Conceptual Framework

3. RESEARCH METHODS

This study is quantitative in nature, using numerical data to analyze objective information and provide conclusive findings (Sugiono, 2014). The scope of this research includes F & B companies registered on the IDX from 2018 to 2022. The author uses a purposive sampling approach to select samples from a specific population. This research uses sampling criteria and uses several samples.

Table 2. Sampling Criteria

Description	Total
Food & Beverage companies listed on the IDX for the period 2018-2022	80

Description	Total
Companies that provide financial reports for the period 2018-2022	16

Source: Indonesia Stock Exchange Data

Table 3. List of Company Samples

No	Company Code	Name of Company	Sector
1	MLBI	MULTI BINTANG INDONESIA TBK	Beverage
2	ADES	PT. AKASHA WIRA INTERNATIONAL TBK	Beverage
3	DLTA	PT. DELTA DJAKARTA TBK	Beverage
4	ALTO	PT. TRI BANYAN TIRTA TBK	Beverage
5	ICBP	PT. INDOFOOD CBP SUKSES MAKMUR TBK	Food
6	INDF	PT. INDOFOOD SUKSES MAKMUR TBK	Food
7	MYOR	PT. MAYORA INDAH TBK	Food
8	ULTJ	PT. ULTRA JAYA MILK INDUSTRY & TRADING COMPANY TBK	Food
9	STTP	PT. SIANTAR TOP TBK	Food
10	ROTI	PT. NIPPON INDOSARI CORPINDO TBK	Food
11	SKLT	PT. SEKAR LAUT TBK	Food
12	CEKA	PT. WILMAR CAHAYA INDONESIA TBK	Food
13	BUDI	PT. BUDI STARCH & SWEETENER TBK	Food
14	SKBM	PT. SEKAR BUMI TBK	Food
15	AISA	PT. FKS FOOD SEJAHTERA TBK	Food
16	PSDN	PT. PRASIDHA ANEKA NIAGA TBK	Food

Source: Indonesia Stock Exchange

This research involves secondary data as the main source of information. Additional information is obtained from existing secondary data sources, as stated by Sari et al (2023), including financial reports and business annual reports. The secondary data collection procedure was carried out by accessing the IDN Financials website to receive financial reports of banking companies from the official IDX website (Kasmir, 2016). The data was collected for the period 2018 to 2022.

This study utilizes financial ratio analysis methodology to assist investors, management, and analysts in understanding certain aspects of a company's financial well-being and assessing its capacity to achieve its goals. Using several multiple linear regression analysis strategies, utilizing the equation:

$$\begin{aligned} \text{PROF}_{i,t} &= \alpha_0 + \beta_1 \text{PK}_{i,t} + \beta_2 \text{LIK}_{i,t} + \epsilon_{i,t} \\ \text{PROF}_{i,t} &= \alpha_1 + \beta_3 \text{PK}_{i,t} + \epsilon_{i,t} \quad \text{PROF}_{i,t} = \alpha_2 + \beta_4 \text{LIK}_{i,t} + \epsilon_{i,t} \end{aligned}$$

4. RESULTS AND DISCUSSION

4.1. Research Results

A. Normality Test

Table 4. Normality Test Results Using One-Sample Kolmogorov-Smirnov Test

		Unstandardized Residual
N		80
Normal Parameters ^{a,b}	Mean	.0000000
	Std. Deviation	.34780419
Most Extreme Differences	Absolute	.097
	Positive	.097
	Negative	-.084
Test Statistic		.097
Asymp. Sig. (2-tailed)		.200 ^{c,d}

a. Calculated from data.

b. Test distribution is Normal.

c. This is a lower bound of the true significance.

d. Lilliefors Significance Correction.

Source: Data processed using SPSS ver. 26, 2023

Terms: asymp sig > 0, 05 According to the normality of the data using the significance level shown in the table above 0, 200 > 0, 05 means that the data obtained is normally distributed.

B. Multicollinearity Test

Table 5. Multicollinearity Test Results

		Collinearity Statistics	
Model		Tolerance	VIF
1	(Constant)		
	LG10_PK	.730	1.370
	LG10_LIK	.730	1.370

a. Dependent Variable: Profitability

Source: Secondary data processed in 2023 Terms: VIF < 10 and Tolerance > 0, 1

Based on the findings presented in table 5, the VIF value of the cash management variable (X1) and the liquidity variable (X2) is $1.370 < 10$, and the tolerance value is $0.730 > 0.1$. Therefore, it can be concluded that there is no multicollinearity in the data.

C. Autocorrelation test

Table 6. Autocorrelation test result

Model Summary ^b					
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.448 ^a	.201	.174	.35365	2.199

a. Predictors: (Constant), LG10_LIK, LG10_PK

b. Dependent Variable: LG10_PROF

Source: Secondary data processed in 2023

Conditions: see the Durbin Watson table for $n = 80$ and $k' = 2$ (there are 3 x and y variables in total $k' = 3 - 1 = 2$), then the result is $du = 1,6882$

$$du < d < 4 - du$$

$$1,6882 < 2,199 < 4 - 1,6882$$

$$1,6882 < 2,199 < 2,3118$$

From the findings presented in table 6, the Durbin-Watson (DW) statistic is calculated to be 2.3118. This value is within the range that shows the absence of autocorrelation so it can be concluded that there is no autocorrelation found in the regression model of this study.

D. Heteroscedasticity Test

Table 7. Heteroscedasticity Result Coefficients^a

Model	Unstandardized Coefficients			Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.133	.032		4.187	.000
	LG10_PK	.050	.034	.223	1.486	.142
	LG10_LIK	-.023	.059	-.058	-.389	.699

a. Dependent Variable: ABS_RES

Source: Secondary data processed in 2023

From table 7, it can be observed that the sig value $> 0,05$ can conclude that there is no heteroscedasticity.

E. Descriptive Statistics

Table 8. Descriptive Statistical Analysis Results Descriptive Statistics

N		Minimum	Maximum	Mean	Std. Deviation
PK	80	-.32	2.04	.5746	.56794
LIK	80	.15	9.95	2.3447	1.88072
PROF	80	-.120000	.860000	.10060707	.139850360
Valid N (listwise)	80				

Source: Secondary data processed in 2023

From table 8 above, cash management has a maximum value of 2,04; minimum value - 0,32; standard deviation value 0,56794; and average value 0,5746.

F. Multiple Linear Regression

Table 9. Multiple Linear Regression result
Coefficients^a

Model	Unstandardized Coefficients			Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.891	.096		-9.295	.000
	LG10_PK	.359	.100	.488	3.579	.001
	LG10_LIK	-.120	.183	-.089	-.653	.517

a. Dependent Variable: LG 10_PROF

Coefficients^a

Model	Unstandardized Coefficients			Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.943	.053		-17.851	.000
	LG10_PK	.325	.085	.441	3.811	.000

a. Dependent Variable: LG 10_PROF

Coefficients^a

Model	Unstandardized Coefficients			Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-1.234	.090		-13.637	.000
	LG10_LIK	.378	.208	.219	1.823	.073

a. Dependent Variable: Profitability

Source: Secondary data processed in 2023

The regression model is based on the analysis above:

- 1) The value of α_0 , which is -0.891, indicates that when both the variables PK and LIK are zero, the value of PROF is also -0.891.
- 2) The coefficient α_1 is -0.943, showing that when the value of the PK variable is zero, the value of PROF is -0.943.
- 3) The value of α_2 is -1.234, indicating that when the LIK variable is zero, the PROF variable is -1.243.
- 4) The coefficient β_1 is 0.359, indicating that an increase of one unit in the PK variable will result in an increase in PROF by 0.359, provided all other independent variables are kept constant at zero.
- 5) The coefficient β_2 is -0.120, indicating that an increase of one unit in the LIK variable will result in a decrease in the PROF variable by 0.120, if all other independent variables are kept constant at zero.
- 6) The coefficient β_3 is 0.325, indicating that an increase of one unit in the PK variable will result in an increase in PROF by 0.325, provided all other independent variables are kept constant at zero.

- 7) The coefficient β_4 is 0.378. This means that an increase of one unit in the LIK variable will result in an increase in the PROF variable by 0.378, if all other independent variables are kept constant at zero

G. T test

**Table 10. T Test Result
Coefficients^a**

Model	Unstandardized Coefficients			Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.891	.096		-9.295	.000
	LG10_PK	.359	.100	.488	3.579	.001
	LG10_LIK	-.120	.183	-.089	-.653	.517

a. Dependent Variable: Profitabilitas

Source: Secondary data processed in 2023

According to the table above, the t-test results for cash management (X1) yield a significance of 0.001 using $\alpha = 0.05$. Therefore, the significance (0.001) is less than alpha (0.05). Thus, the null hypothesis (H_0) is rejected, and the alternative hypothesis (H_a) is accepted. It can be concluded that cash management has a significant effect on profitability.

Similarly, according to the table above, the t-test results for liquidity (X2) show a significance of 0.517 using $\alpha = 0.05$. The significance (0.517) is greater than alpha (0.05). Therefore, the null hypothesis (H_0) is accepted, and the alternative hypothesis (H_a) is rejected. It can be concluded that liquidity does not have a significant effect on profitability.

H. F test

**Table 11. F Test Result
ANOVA^a**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1.852	2	.926	7.404	.001 ^b
	Residual	7.379	59	.125		
	Total	9.231	61			

a. Dependent Variable: Profitabilitas

b. Predictors: (Constant): Liquidity, Cash Management

Source: Secondary data processed in 2023

By referring to the table provided, you can determine the significance value. The correlation coefficient between cash management (X1) and liquidity (X2) on profitability (Y) is $0.001 < 0.05$. This provides evidence that H_a is accepted and H_0 is rejected. This means that the presence of cash management (X1) and liquidity (X2) has a large impact on profitability (Y).

I. Coefficient of Determination

Table 12. Coefficient of Determination Results
Model Summary

Model		R	R Square	Adjusted R Square	Std. Error of the Estimate
1		.448 ^a	.201	.174	.35365

a. Predictors: (Constant), LG10_LIK, LG 10_PK

Source: Secondary data processed in 2023

Referring to table 12, SPSS ver. 26 provides an adjusted R-square on the independent variable of 0, 174. This means: the high and low profitability can be explained by the variables of cash management and liquidity worth 17, 4% and the other 82, 6% caused by other aspects.

4.2. Discussion

a. Cash management on Profitability

The hypothesis test value of the cash management variable shows results whose significant value is 0, 517 lower than 0, 5. Thus H1 is recognized because cash management is influenced by profitability variables. The more proficient in managing cash, the better the financial prospects.

b. Liquidity on Profitability

The significant value obtained by the financial attitude variable is 0, 001 < 0, 05. This means that there is no relationship between the liquidity variable and profitability practices so that H2 is rejected. Not always the high liquidity owned by the company makes profitability good.

5. CONCLUSION

The study findings described in the previous sections support the conclusion that profitability is influenced by cash management. What influences profitability is not influenced by liquidity. In addition to presenting the conclusions, the researcher also offers recommendations to future researchers to include additional variables and an extended timeframe so as to better characterize the current state of affairs.

REFERENCES

- Ardansyah, A., & Widarto, Y. D. (2015). Analisis Penggunaan Hutang Terhadap Profitabilitas Perusahaan Pada PT. Wahana Abadirukun Agungsejahtera Bandar Lampung. *Jurnal Manajemen Dan Bisnis*, 6(1).
- Autorité des marchés financiers. (2016). *Liquidity adequacy guideline*.
- Fahmi, I. (2013). *Analisis Laporan Keuangan Bandung: Alfabeta*. Cv.
- Fathiyyah, S. N., & Muflih, M. (2023). *Determinants of Islamic Banking Profitability: A Comparative Analysis of Indonesia and Malaysia Determinan Profitabilitas Perbankan Syariah: Analisis Komparatif Indonesia dan Malaysia* Open access

- under Creative Commons Attribution- Non Commercial- Share A.*
- Gunawan, D. N., & Dailibas, D. (2023). Pengaruh Pembiayaan Murabahah, Mudharabah, dan Musyarakah Terhadap Profitabilitas Bank BCA Syariah Periode 2018-2022. *Jurnal Ilmiah Wahana Pendidikan*, 9(9), 163–174.
- Habibie, S. Y., & Parasetya, M. T. (2022). Pengaruh Profitabilitas, Leverage, Likuiditas, dan Ukuran Perusahaan Terhadap Manajemen Laba (Studi Empiris pada Perusahaan Manufaktur yang Terdaftar di BEI Tahun 2016-2020). *Diponegoro Journal of Accounting*, 11(1).
- Halim, S., Felicia, F., Lius, V., Veronica, T., & Wulandari, B. (2021). Pertumbuhan Penjualan, Ukuran Perusahaan, Leverage, Modal Kerja, Likuiditas, Perputaran Kas dan Pengaruhnya Terhadap Profitabilitas Pada Industri Makanan dan Minuman yang Listing Di Bursa Efek Indonesia (BEI). *Ekonomis: Journal of Economics and Business*, 5(2), 545–550.
- Hilaliyah, H. (2016). *Guru pembelajar modul paket keahlian perbankan SMK Kelompok Kompetensi E: pengelolaan kas, TIK dalam pembelajaran.*
- Kasmir. (2014). *Analisis laporan keuangan~Kasmir: Analisis laporan keuangan. Edisi.*
- Kasmir. (2016). *Analisis Laporan Keuangan. Jakarta: Raja Grafindo Persada. In New Labor Forum (Vol. 25, Issue 1).*
- Legiman, F. M., Tommy, P., & Untu, V. (2015). Faktor-faktor yang mempengaruhi return saham pada perusahaan agroindustry yang terdaftar di Bursa Efek Indonesia periode 2009-2012. *Jurnal EMBA: Jurnal Riset Ekonomi, Manajemen, Bisnis Dan Akuntansi*, 3(3).
- Lubis, I. L., Sinaga, B. M., & Sasongko, H. (2017). Pengaruh profitabilitas, struktur modal, dan likuiditas terhadap nilai perusahaan. *Jurnal Aplikasi Bisnis Dan Manajemen (JABM)*, 3(3), 458.
- Rudin, M., Nurdin, D., & Fattah, V. Y. (2016). The effect of liquidity and leverage on profitability of property and real estate company in Indonesian Stock Exchange. *International Journal of Social Sciences and Management*, 3(4), 300–304.
- Sari, K. R., Iswanaji, C., & Nugraheni, A. P. (2023). Pengaruh Leverage, Capital Intensity, Dan Inventory Intensity Terhadap Tax Avoidance:(Studi Pada Industri Barang Konsumsi Yang Terdaftar Di BEI Tahun 2017-2021). *Applied Research in Management and Business*, 3(1), 13–24.
- Sartono, A. (2008). *Manajemen keuangan, teori dan aplikasi.*
- Sudibyo, S. K. (2021). Pengelolaan Kas, Persediaan, Aktiva Tetap Dan Piutang. *Penerbit Yayasan Prima Agus Teknik*, 1–108.
- Sugiono, P. D. (2014). Metode penelitian pendidikan pendekatan kuantitatif. pdf. *Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif Dan R&D*, 12, 42.

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