PalArch's Journal of Archaeology of Egypt / Egyptology

STAKEHOLDER, GOVERNMENTAL AND CUSTOMERS ORIENTED DETERMINANTS OF QUALITY DRUG MAKING PERFORMANCE IN THAILAND: MEDIATING ROLE OF SUSTAINABILITY EFFORTS OF PHARMACEUTICAL FIRMS

Thanakorn Thanathanchuchot¹, Pong Horadan², Sittachai Jirathanyasakul³, Kanokros Sudprapai⁴

^{1,3,4}Pathumthani University, Thailand ²Graduate School, Bansomdejchaopraya Rajabhat University

¹Dr.thanakorn@gmai.com, ²Pong1952@hotmail.com

Thanakorn Thanathanchuchot, Pong Horadan, Sittachai Jirathanyasakul, Kanokros Sudprapai. Stakeholder, Governmental and Customers Oriented Determinants of Quality Drug Making Performance in Thailand: Mediating Role of Sustainability Efforts of Pharmaceutical Firms. – Palarch's Journal of Archaralogy of Egypt/Egyptogy 17(1), 199-210. ISSN 1567-214X

Keywords: Stakeholder, Governmental, Customers Oriented Determinants, Quality Drug Sustainability Efforts.

ABSTRACT

Stakeholder's pressure, costumer's willingness to pay and government regulations are the factors that might have direct or indirect impact on quality performance. Therefore, this study has been designed in order to to find out the the impact of stakeholder's pressure, costumers' willingness to pay and government regulation on the quality performance of an organization in the mediating role of environmental and social sustainability factors. In order to achieve this objective, the researcher has collected data from 284 employees of the pharmaceutical companies. The data was collected by administering a carefully designed questionnaire. When the analysis techniques were applied to the collected data, it was found out that the impact of stakeholder's pressure and government on the quality performance of the organization is significant but the impact of costumer's willingness to pay on quality performance has been found as insignificant. On the other hand, the mediating impact of environmental and social sustainability factors between all the independent variables i.e. stakeholder's pressure, costumers' willingness to pay and government regulations and the dependent variable, quality performance has been found as significant. These results of the study are having various theoretical, practical and policy making implications as discussed by the author.

INTRODUCTION

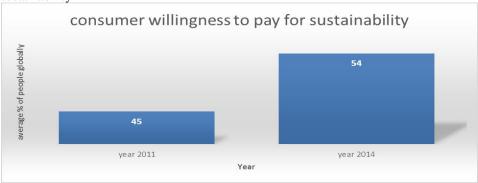
The quality drug making has been a challenging task to do because of the changing mindset of the society regarding the workplace safety, abusive labor practices and the unfair working conditions provided to the workers (Anbarasan, 2018; Bamgbade, Kamaruddeen, & Nawi, 2017; Duran & Rodrigo, 2018; Ferro et al., 2017). In the past few years, the regulations regarding these aspects have been developed so that safe and friendly working conditions could be provided to the workers where they can perform well and show a quality performance (Awang & Iranmanesh, 2017; Loredo, Lopez-Mielgo, Pineiro-Villaverde, & García-Álvarez, 2019; Tatoglu et al., 2020). The use of non-hazardous and environmental friendly chemicals is one of the steps that have been taken to improve the business environment. The use of harmful hazardous chemical shave posed a threat risk to the lives of workers working around/ with them. Therefore, necessary actions have been taken at different levels including stakeholders, governmental and also consumers (Awang & Iranmanesh, 2017; Loredo et al., 2019; Tatoglu et al., 2020). The stakeholders pressure is very important for changing the working conditions and raw material, the consumer acceptance to any brand is therefore, determined by the point of view of the stakeholders (Anbarasan, 2018; Bamgbade et al., 2017; Duran & Rodrigo, 2018; Ferro et al., 2017). Moreover, the governmental regulations are also very important for determining the working conditions, use of chemical materials and the workplace safety. If the governmental does not take effective measures for the safety of the workers at a working site, there would not be a company that would pay more for the safety of the workers. However, the consumer acceptance is most important among them (Awang & Iranmanesh, 2017; Loredo et al., 2019; Tatoglu et al., 2020). If the consumers decide not to buy any product form a specific company because of the unsafe and hazardous chemical use, the company will have to face a huge loss. Thus, all the three determinants affect the willingness of companies to pay for the safety of the workers and to bring environmental sustainability by reducing the use of hazardous chemical materials (de Jesus Pacheco, ten Caten, Jung, Navas, & Cruz-Machado, 2018; Papagiannakis, Voudouris, Lioukas, & Kassinis, 2019; Testa, Boiral, & Iraldo, 2018).

Table 1: Global sustainability leaders of 2012

Rank	Company
1	Unilever
2	Interface
3	GE
4	Patagonia
5	Walmart

Source: (Greenbiz).

Figure 1. Global average of people who are willing to pay the price for environmental sustainability



Source: (WEforum)

Following are the objectives of the study are:

- 1. To determine the effect of stakeholder pressure on the environmental and social sustainability efforts.
- 2. To determine the effect of willingness of customers to pay on the environmental and social sustainability efforts.
- 3. To determine the effect of governmental regulations on the environmental and social sustainability efforts.
- 4. To determine the effect of the environmental and social sustainability efforts on the quality performance of the businesses.

The research study will address the contrary findings of the previous literature studies regarding the role of stakeholders and governmental organizations and the consumers regarding the sustainable and environmental friendly manufacturing practices. Moreover, the study will provide empirical evidence for the role of individual determinant in changing the manufacturing practices in the industrial sector. Thus, the study will contribute in the theoretical development in this sector.

REVIEW OF THE LITERATURE

Theoretical background

The investments made by the industries in the manufacturing practices and processes are driven by both internal and external forces. The external pressure is from the stakeholders, consumers and governmental organizations (de Jesus Pacheco et al., 2018; Papagiannakis et al., 2019; Testa et al., 2018). The role of external factors is more as compared to the others and this is because of the loss that the industry might have to face if it goes against the likability of the stakeholders, consumers or the governmental agencies (Mani & Gunasekaran, 2018; Mena, Hult, Ferrell, & Zhang, 2019; Quan, Wu, Li, & Ying, 2018; Yadav, Saini, & Yadav, 2019). That is why the use of hazardous chemicals in the manufacturing processes has been reduced over the years and the production of quality drugs is being considered. This is all because of the incased awareness among the consumers that have pushed the governmental agencies to construct effective regulations and the stakeholders to pressurize the industrial sector to invest more in the quality production (Khurana, Haleem, & Mannan, 2019; Saunders, Tate, Zsidisin, & Miemczyk, 2019; Varadarajan, 2017).

To determine the effect of stakeholder pressure on the environmental and social sustainability efforts

According to the stakeholder theory, the individuals having share in the company have the ability to influence the decision making and get their desired benefits (Mani & Gunasekaran, 2018; Mena et al., 2019; Quan et al., 2018; Yadav et al., 2019). The efforts of the manufacturing industries to comply with the environmental and social sustainability practices can be easily affected with the pressure form the stakeholders. This is because of the interest of stakeholders in getting benefit which will be affected if the company does not have precise safety regulations and does not comply with the sustainability practices (Kerdpitak, 2020a; Khurana et al., 2019; Saunders et al., 2019; Varadarajan, 2017). As a result of this non-compliance with the sustainability practices, the consumers will eventually cut off the buying of products form the company and it will face a back lash. Therefore, the following hypothesis has been generated from the literature studies:

H1: There is a significant relationship between the stakeholder pressure and the environmental and social sustainability efforts.

To determine the effect of willingness of customers to pay on the environmental and social sustainability efforts

Consumers are the target group of every manufacturing industry and without the consumers, there would not be a need to have manufactured products. If the consumers are unwilling to pay for a specific product, that product will eventually be replaced in the market. That is why the consumer's perspective is the focus point of the manufacturing companies. With the environmental awareness and the sense of social responsibility among the consumers, research studies shows that the manufacturing plants have also changed their practices and processes and shifted towards better alternatives only to gain consumer trust (Brulhart, Gherra, & Quelin, 2019; Saunders et al., 2019; Soundararajan, Brown, & Wicks, 2019; Varadarajan, 2017). Therefore, the following hypothesis has been generated from the literature studies:

H2: There is a significant relationship between the willingness of consumers to pay and the environmental and social sustainability efforts of the manufacturing industry.

To determine the effect of governmental regulations on the environmental and social sustainability efforts

The global patterns of manufacturing have been changed and the industries have shifted towards more environmental friendly and socially sustainable practices (Brulhart et al., 2019; Saunders et al., 2019; Soundararajan et al., 2019; Varadarajan, 2017). Therefore, the pressure is upon the governmental agencies to construct, develop and implement necessary regulations for the sustainable practices so that their manufactured goods could be exported to the international markets. Researchers (Khurana et al., 2019; Mani & Gunasekaran, 2018; Mena et al., 2019; Quan et al., 2018; Yadav et al., 2019) have argued that the governments have to ensure that their manufacturing industries comply with the international standards and this is also good for the government not only for the manufacturing companies. Therefore, the following hypothesis has been generated from the literature studies:

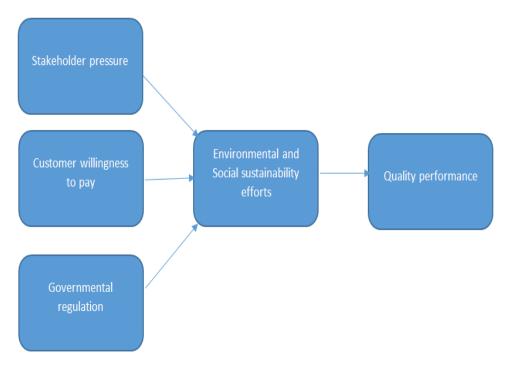
H3: There is a significant relationship between the governmental regulation and the environmental and social sustainability efforts of the manufacturing industry.

To determine the effect of the environmental and social sustainability efforts on the quality performance

Literature studies (Khurana et al., 2019; Mani & Gunasekaran, 2018; Mena et al., 2019; Quan et al., 2018; Yadav et al., 2019) shows that the increase in the environmental sustainability practices results in increasing the environmental performance and social sustainability of the firms. Researchers have found empirical evidence for the quality performance of the industries by doing social and environmental sustainability efforts. The reduction in water pollution and waste emission and increasing practices of reusing and recycling have decreased the cots to an extent and have also resulted in the production of products having better quality (de Jesus Pacheco et al., 2018; Loredo et al., 2019; Papagiannakis et al., 2019; Testa et al., 2018). Through the environmental management system, the manufacturing firms become able to have life cycle assessment and environmental friendly product designs that attract consumers (Awang & Iranmanesh, 2017; Duran & Rodrigo, 2018; Tatoglu et al., 2020; Kerdpitak, 2020). Therefore, the following hypothesis has been generated from the literature studies:

H4: There is a significant relationship between the environmental and social sustainability efforts and the quality performance of the manufacturing industries.

Theoretical model



METHODOLOGY

Sampling and data collection

Data collected for thus study is actually the input obtained from different pharmaceutical firms of Thailand and all the data collected from these firms was then accumulated together. The data has been collected from 284 employees working in these pharmaceutical firms. The purposive sampling technique has been employed by the researcher so that an appropriate sample may be selected for research and questionnaire filling. The indicators that have been used by the researcher in this study are obtained from the past studies and thus the validity of the measures can be made sure. The employees from which the questionnaire was filled include the senior management of the pharmaceutical firms that are involved in the production and operation department. In addition, the officials from higher positions such as directors were also involved in questionnaire filling. All of them were selected on the basis of their enough and appropriate knowledge about the concerned topic of the study. The questionnaire used for the research process was carefully designed by using appropriate order of questions and the content easily understood by the respondents.

Measurement

The variables have been measured by using appropriate measurement items, which have been discussed in this section vividly. Stakeholder pressure, customer willingness to pay, governmental regulation, environmental and social sustainability factors and quality performance are different variables that have been used in the study. The first one is quality performance, which is the dependent variable of the study and may be measured by using two items named as "Conformance quality" and "Product quality and reliability". These items are developed based on the past study (Garvin, 1987). Stakeholder pressure is the independent variable of the study and is measured by 2 items in total. These include "environmental pressure" and "social pressure". These items have been taken from the past study by a researcher (Longo, Mura, & Bonoli, 2005). "Governmental regulations" is another independent variable and has been measured by 3

measuremnet items, developed by a researcher in the past study (Sitkin, Sutcliffe, & Schroeder, 1994). Costumer willingness to pay is the last independent variable and has been measured by 3 items, developed by a researcher in the past study (Russo, 2009). One of these items is "Higher contribution to the development and welfare of the society". The mediating variable of the study is environmental and social sustainability factors and it has been measured by 6 items, developed by a researcher in the past study (Krause, Scannell, & Calantone, 2000; Sarkis, Gonzalez-Torre, & Adenso-Diaz, 2010). One of these items is "Pollution emission reduction and waste recycling programmes".

Statistical analysis

In order to analyze the collected data, SPSS and AMOS have been used by the researcher. Different tests and techniques have been employed through these software and the analysis results have been obtained by the researcher. Demographic analysis, descriptive analysis and factor analysis have been obtained from SPSS. In the similar way, confirmatory factor analysis and structure equation modeling have been obtained by using AMOS.

DATA ANALYSIS Demographics

The total number of respondents from which the data was collected was 284, among which 154 males and 130 females were included. Other than this, according to the age of the respondents, 87 respondents are having age less than 25 years, 121 are having age from 25 to 35 years, 65 people are having age from 35 to 45 years and in the last, just 11 respondents are having age more than 45 years. Apart from age, experience of the employees has also been considered and the researcher has found out that 44 respondents were having the experience of less than 2 years in the organization. Moreover, 124 respondents are having the experience of 2 to 5 years, 90 respondents are having the experience of 5 to 8 years while the remaining 26 employees have the working experience of more than 8 years in that particular organization.

Descriptive Statistics

As per the obtained results related to the descriptive statistics of the collected data, it has been confirmed that there is no out liar in the data. This result is supported by the values of minimum and maximum statistics, which are lying in the range of five point Likert scale. On the other hand, as the skewness values from the table are seen to be within the appropriate range i.e. in between -1 and +1. Thus the data is considered to be normal and fit to enter the next step.

Table 1: Descriptive Statistics.

					Std.		
	N	Minimum	Maximum	Mean	Deviation	Skew	ness
							Std.
	Statistic	Statistic	Statistic	Statistic	Statistic	Statistic	Error
EnvSocSE	284	1.00	5.00	3.3879	1.05811	414	.145
StakeProc	284	1.00	5.00	3.6954	1.18352	649	.145
CustWiPay	284	1.00	5.00	3.6479	1.18575	681	.145
GovtRegu	284	1.00	5.00	3.5751	1.18831	706	.145
QualityPerf	284	1.00	5.00	3.4718	1.03264	435	.145
Valid N	284						
(listwise)							

KMO and Bartlett's Test

KMO and Bartlett's test are used in order to find out if the factor analysis of a particular study is useful or not. In this regard, it is estimated that if the value of KMO test is very close to 1.00, it will be beneficial for the study. In addition, it has also been estimated that if the value of Bartlett's test is less than 0.05, it will also be beneficial for the study. The fulfillment of both conditions can be seen in the table 2.

Table 2: KMO and Bartlett's Test.

Kaiser-Meyer-Olkin Measure of Sa	.898	
Bartlett's Test of Sphericity	Approx. Chi-Square	5533.373
	Df	120
	Sig.	.000

Rotated Component Matrix

The results of rotated component matrix have been given in table 3. As per these results, the values of factor loading have been observed to be greater than 70% thus indicating that the data collected is eligible to be applied different tests and techniques. Moreover, cross loading error is absent in the data.

Table 3: Rotated Component Matrix^a

	Component						
	1	2	3	4	5		
ES1	.854						
ES2	.895						
ES3	.831						
ES4	.796						
ES5	.838						
ES6	.866						
SP1				.871			
SP2				.901			
CW1		.898					
CW2		.905					
CW3		.891					
GR1			.892				
GR2			.892				
GR3			.884				
QP1					.842		
QP2					.861		

Convergent and discriminant validity

In table 4, the results of convergent and discriminant validity can be seen evidently. According to the results presented in the table, the composite reliability CR values for all variables are more than 0.7 while average variance extracted AVE values are more than 0.5. The researcher has also found out that the variables are having loadings different from each other. This confirms the authenticity of the collected data.

Table 4: Convergent and Discriminant Validity

	CR	AVE	MSV	SP	ES	QP	GR	CW
SP	0.934	0.876	0.286	0.936				
ES	0.953	0.773	0.299	0.474	0.879			
QP	0.873	0.774	0.299	0.535	0.547	0.880		
GR	0.921	0.817	0.325	0.436	0.503	0.514	0.957	
CW	0.915	0.856	0.325	0.490	0.502	0.443	0.570	0.978

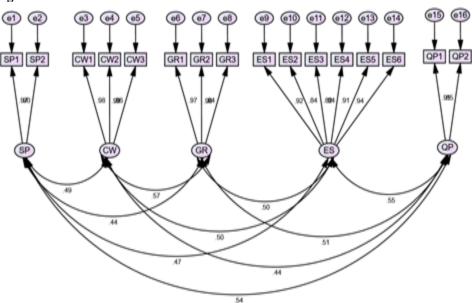
Confirmatory Factors Analysis

According to the results of confirmatory factor analysis CFA given in table 5, it can be observed that the values for all the indicators linked with CFA are present within the appropriate range given in the table (Hassan, Hameed, Basheer, & Ali, 2020; Iqbal & Hameed, 2020). This indicates that the hypothetical model is fit for use in the study.

Table 5: Confirmatory Factors Analysis

Indicators	Threshold range	Current values
CMIN/DF	Less or equal 3	2.957
GFI	Equal or greater .80	.927
CFI	Equal or greater .90	.984
IFI	Equal or greater .90	.984
RMSEA	Less or equal .08	.058

Figure 1. CFA



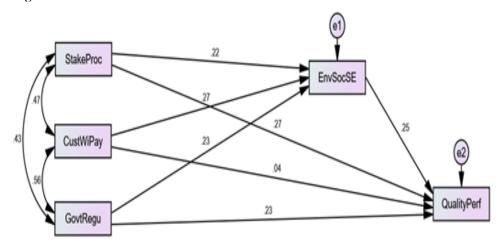
Structural equation modeling

The table 6 of structure equation modeling shows that the impact of stakeholder's pressure and government on the quality performance of the organization is significant but the impact of costumer's willingness to pay on quality performance has been found as insignificant. On the other hand, the mediating impact of environmental and social sustainability factors between all the independent variables i.e. stakeholder's pressure, costumers' willingness to pay and government regulations and the dependent variable, quality performance has been found as significant.

Table 6: S	Structural	Equation	Modeling
------------	------------	----------	----------

Total Effect	StakeProc	GovtRegu	CustWiPay	EnvSocSE
EnvSocSE	.217**	.227**	.267**	.000
QualityPerf	.319***	.282**	.105	.246**
Direct Effect	StakeProc	GovtRegu	CustWiPay	EnvSocSE
EnvSocSE	.217**	.227**	.267**	.000
QualityPerf	.266**	.226**	.039	.246**
Indirect Effect	StakeProc	GovtRegu	CustWiPay	EnvSocSE
EnvSocSE	.000	.000	.000	.000
QualityPerf	.053**	.056**	.066**	.000

Figure 2: SEM



DISCUSSION AND CONCLUSION Discussion

It has been made very clear in the earlier sections that the basic objective or aim of this study was to find out the impact of stakeholder's pressure, costumers' willingness to pay and government regulation on the quality performance of an organization in the mediating role of environmental and social sustainability factors. In this regard, the first hypothesis has been accepted which indicates that there is significant relationship between stakeholder's pressure and quality performance and this result is confirmed from the past studies (Zhao, Chen, Su, & Tian, 2019). The second hypothesis that costumer's willingness to pay has significant impact on quality performance has been rejected while the third hypothesis of significant impact of government regulations of quality performance has been accepted, in accordance with the past studies (Arda, Bayraktar, & Tatoglu, 2019; Lawson, Dietrich, & Murray, 2019). Moreover, the last three hypothesis of significant mediating impact of environmental and social sustainability factors between the relationship of stakeholder's pressure, costumers' willingness to pay and government regulation; and quality performance have also been accepted as per the results obtained. These results are in line with the similar studies of the past (Ahinful, Tauringana, Essuman, Boakye, & Sha'ven, 2019; Norambuena et al., 2018).

Conclusion

There are various factors such as stakeholder's pressure, costumer's willingness to pay and government regulations that have the impact on quality performance in one way or the other. In this regard, this study has been designed in order to to find out the the impact of stakeholder's pressure, costumers' willingness to pay and government regulation on the quality performance of an organization in the mediating role of environmental and social sustainability factors. The analysis of the results indicated that all the independent variables except costumers' willingness to pay have significant impact on quality performance. Furthermore, it was found out that the mediating impact of environmental and social sustainability factors is significant in the relationship of all the independent and dependent variables.

Implications

This study contains much information about the aspects such as stakeholder's pressure, costumer's willingness to pay, government regulations, environmental and social sustainability factors and quality performance of organization, which might be useful for the other researchers as well as the industries to take steps for the improvement of quality performance.

Limitations and Future Research Indications

The sample size and sampling techniques may be improved in the future studies by other researcher. Moreover, other analysis methods and tests may also be employed in order to get a broader perspective on the given topic.

References

- Ahinful, G. S., Tauringana, V., Essuman, D., Boakye, J. D., & Sha'ven, W. B. (2019). Stakeholders pressure, SMEs characteristics and environmental management in Ghana. *Journal of Small Business & Entrepreneurship*, 1-28.
- Anbarasan, P. (2018). Stakeholder engagement in sustainable enterprise: Evolving a conceptual framework, and a case study of ITC. *Business strategy and the environment*, 27(3), 282-299.
- Arda, O. A., Bayraktar, E., & Tatoglu, E. (2019). How do integrated quality and environmental management practices affect firm performance? Mediating roles of quality performance and environmental proactivity. *Business Strategy and the Environment*, 28(1), 64-78.
- Awang, H., & Iranmanesh, M. (2017). Determinants and outcomes of environmental practices in Malaysian construction projects. *Journal of Cleaner Production*, 156, 345-354.
- Bamgbade, J. A., Kamaruddeen, A. M., & Nawi, M. (2017). Malaysian construction firms' social sustainability via organizational innovativeness and government support: The mediating role of market culture. *Journal of Cleaner Production*, 154, 114-124.
- Brulhart, F., Gherra, S., & Quelin, B. V. (2019). Do stakeholder orientation and environmental proactivity impact firm profitability? *Journal of Business Ethics*, 158(1), 25-46.
- de Jesus Pacheco, D. A., ten Caten, C. S., Jung, C. F., Navas, H. V. G., & Cruz-Machado, V. A. (2018). Eco-innovation determinants in manufacturing SMEs from emerging markets: Systematic literature review and challenges. *Journal of Engineering and Technology Management*, 48, 44-63.
- Duran, I. J., & Rodrigo, P. (2018). Why do firms in emerging markets report? A stakeholder theory approach to study the determinants of non-financial disclosure in Latin America. *Sustainability*, 10(9), 3111.
- Ferro, C., Padin, C., Svensson, G., Varela, J. C. S., Wagner, B., & Høgevold, N. M. (2017). Validating a framework of stakeholders in connection to business sustainability efforts in supply chains. *Journal of Business & Industrial Marketing*. Garvin, D. A. (1987). Competing on the eight dimensions of quality.

- Hassan, S. G., Hameed, W. U., Basheer, M. F., & Ali, J. (2020). ZAKAT COMPLIANCE INTENTION AMONG SELF-EMPLOYED PEOPLE: EVIDENCE FROM PUNJAB, PAKISTAN. *AL-ADWAH*, *34*(2), 80-96.
- Iqbal, J., & Hameed, W. U. (2020). Open Innovation Challenges and Coopetition-Based Open-Innovation Empirical Evidence From Malaysia *Innovative Management and Business Practices in Asia* (pp. 144-166): IGI Global.
- Kerdpitak, C.(2020). The Effects of Environmental Management and HRM Practices on the Operational Performance in Thai Pharmaceutical Industry. *Systematic review in Pharmacy*. Vol. 11(2): 555 565.
- Kerdpitak, C. (2020a) The Antecedents to Performance of Creative Behaviour: *A case study. Journal of Security and sustainability issues.* Vol. 9 January. 83-95.
- Khurana, S., Haleem, A., & Mannan, B. (2019). Determinants for integration of sustainability with innovation for Indian manufacturing enterprises: Empirical evidence in MSMEs. *Journal of Cleaner Production*, 229, 374-386.
- Krause, D. R., Scannell, T. V., & Calantone, R. J. (2000). A structural analysis of the effectiveness of buying firms' strategies to improve supplier performance. *Decision sciences*, 31(1), 33-55.
- Lawson, C., Dietrich, C., & Murray, T. (2019). The Effect of Trade Barriers and Governmental Regulation on Overall Economic Well-Being.
- Longo, M., Mura, M., & Bonoli, A. (2005). Corporate social responsibility and corporate performance: the case of Italian SMEs. *Corporate Governance: The international journal of business in society*.
- Loredo, E., Lopez-Mielgo, N., Pineiro-Villaverde, G., & García-Álvarez, M. T. (2019). Utilities: Innovation and sustainability. *Sustainability*, *11*(4), 1085.
- Mani, V., & Gunasekaran, A. (2018). Four forces of supply chain social sustainability adoption in emerging economies. *International Journal of Production Economics*, 199, 150-161.
- Mena, J. A., Hult, G. T. M., Ferrell, O., & Zhang, Y. (2019). Competing assessments of market-driven, sustainability-centered, and stakeholder-focused approaches to the customer-brand relationships and performance. *Journal of Business Research*, 95, 531-543.
- Norambuena, M., Rodriguez, J., Zhang, Z., Wang, F., Garcia, C., & Kennel, R. (2018). A very simple strategy for high-quality performance of ac machines using model predictive control. *IEEE Transactions on Power Electronics*, *34*(1), 794-800.
- Papagiannakis, G., Voudouris, I., Lioukas, S., & Kassinis, G. (2019). Environmental management systems and environmental product innovation: The role of stakeholder engagement. *Business strategy and the environment*, 28(6), 939-950.
- Quan, Y., Wu, H., Li, S., & Ying, S. X. (2018). Firm sustainable development and stakeholder engagement: The role of government support. *Business strategy and the environment*, 27(8), 1145-1158.
- Russo, M. V. (2009). Explaining the impact of ISO 14001 on emission performance: a dynamic capabilities perspective on process and learning. *Business Strategy and the Environment*, 18(5), 307-319.
- Sarkis, J., Gonzalez-Torre, P., & Adenso-Diaz, B. (2010). Stakeholder pressure and the adoption of environmental practices: The mediating effect of training. *Journal of Operations Management*, 28(2), 163-176.
- Saunders, L. W., Tate, W. L., Zsidisin, G. A., & Miemczyk, J. (2019). The influence of network exchange brokers on sustainable initiatives in organizational networks. *Journal of Business Ethics*, 154(3), 849-868.
- Sitkin, S. B., Sutcliffe, K. M., & Schroeder, R. G. (1994). Distinguishing control from learning in total quality management: a contingency perspective. *Academy of management review*, 19(3), 537-564.
- Soundararajan, V., Brown, J. A., & Wicks, A. C. (2019). Can multi-stakeholder initiatives improve global supply chains? Improving deliberative capacity with a stakeholder orientation. *Business Ethics Quarterly*, 29(3), 385-412.

- Tatoglu, E., Frynas, J. G., Bayraktar, E., Demirbag, M., Sahadev, S., Doh, J., & Koh, S. L. (2020). Why do emerging market firms engage in voluntary environmental management practices? A strategic choice perspective. *British Journal of Management*, 31(1), 80-100.
- Testa, F., Boiral, O., & Iraldo, F. (2018). Internalization of environmental practices and institutional complexity: Can stakeholders pressures encourage greenwashing? *Journal of Business Ethics*, 147(2), 287-307.
- Varadarajan, R. (2017). Innovating for sustainability: a framework for sustainable innovations and a model of sustainable innovations orientation. *Journal of the Academy of Marketing Science*, 45(1), 14-36.
- Yadav, J., Saini, A., & Yadav, A. K. (2019). Analysing and securing the sustainability of e-Government projects from technical aspect using employees perspective approach. *International Journal of Information Technology*, 1-13.
- Zhao, Z., Chen, M.-H., Su, C.-H. J., & Tian, L. (2019). Asymmetric price responses to hotel competition caused by heterogeneous customers' willingness to pay. *International Journal of Hospitality Management*, 102409.
- $\underline{\text{https://www.greenbiz.com/news/2012/03/28/unilever-tops-sustainability-leadership-list-second-year}$
- $\underline{\text{https://www.weforum.org/agenda/2018/09/sustainability-is-now-mission-critical-for-businesses-heres-why/}$