

Improving Environmental Performance by Implementing the Activities of Supply Chain

Pebi Kurniawan^{#1}, Maria Lusiana Yulianti^{#2}, Ali Jufri^{#3}

^{#1,3}Cirebon Muhammadiyah University, West Java, Indonesia

^{#2}Winaya Mukti University, West Java, Indonesia

¹Pebikurniawa83@gmail.com

²Corresponding author: E-mail: maria.lusiana2707@gmail.com

³sunan-f@feb.unair.ac.id

Abstract- The objective of the ongoing study is to analyze the influence of cooperation with the customer, green purchasing and investment recovery on the environmental performance of the manufacturing companies of Bandung city Indonesia. The secondary aim of the current article is to examine the mediating role of supply chain management among the links of cooperation with the customer, green purchasing, investment recovery and environmental performance of the manufacturing companies of Bandung city Indonesia. The data has been obtained from the employees of manufacturing companies by using questionnaires while this data has been analyzed by using smart-PLS. The results indicated that green purchasing and investment recovery have a positive impact on the environmental performance of the manufacturing companies of Bandung city Indonesia. The results also exposed that supply chain management positively mediated among the links of cooperation with the customer, green purchasing, investment recovery and environmental performance. These findings are suitable for upcoming studies along with regulators in term of further study and develop the policies related to the supply chain and environmental performance.

Keywords; Cooperation with the customer, Supply chain management, Green purchasing, Environmental performance

1. Background

For the improvement of the firm's performance and sustainable development, the implementation of various elements could enhance the levels of significance. Supply chain activities have inserted eminence toward the significant implications of improvement measures for performance and development. The green supply chain management has become a rising topic in the past few decades where the numerous endeavors are used for the management of logistics and administrations [13]. The global economy has expanded with eminent elements where the focus on revenue and yield has certainly growth rather than the element of services and products. Usually, every company is striving for the rise of profits and significant yield values for its sustainable performance [30]. Generally, the statement about sun and earth is depicted where the significance of ozone layer has some

eminence which is protecting the earth from various scenarios; therefore, the implementation of green supply chain management has been countered as protecting measure [8]. The numerous consequences occurred with the development of environmental behaviors in the business where the behaviors are the most significant element for a sustainable environment. The elements of social sustainability and eco-friendly has caught much importance in the management of companies whereas systems of the supply chain also insert some dominant measure along with the efficacy of long term benefits [2]. The dominant integration of supply chain has attained much attention by the global world which is consistently elaborated as the mean of establishing sustainable environment among the networks of organizations [32]. With the emergence of market-based economies, some mechanisms proficiently enacted for the allocation of various resources into the businesses not only for the enhancement of performance but also for the sustainable environments.

The pressures of environments are highlighted by the variant mechanisms where the sustainable advantages are inserted with eminent means of covering the variant scenarios [29]. The depiction of various strategies that are inserted in economies has lasted the effects from which many companies have attained the gains [9]. Therefore, the monetary edge for the firms are dominant which usually influence the performance of firms; therefore, where the existence of monetary edge prevails, the edge of competitiveness also prevails. It is dominant to have a link of companies with their customers not only for the profits but also for the sustainability advantage in competitive markets [14]. Cooperation with customers helps various companies to take advantage of minor variation in products which could help companies to retain their competitive advantage. The role of positive purchasing has enabled the doors for companies to enhance their profits while many disasters prevail in the natural environment [17]. The recovery procedures of companies are dependent on the ways where companies have made investments and their ultimate means prevail on the products rendering profits [11]. Companies usually enjoy

all the benefits that are to be obtained through the means of employing various strategies into markets; therefore, the significance of aim induces major reasons on which companies usually attain sustainability [31]. Management that prevails in the companies denoting the friendly environment of the practices of the supply chain usually provides various measures of business to improve the sustainable environments of business [4]. The elements of sustainability and firm performance involve various measures where the dominance of cost-effectiveness and efficiency of operations are countered as eminent one which influences the overall benefits of firms.

Some influences render positive impacts which denote the factor as improvement tools while some are depicted as the negative elements which do influences the sustainable efforts with the firm performance [3]. The progressiveness of green supply chain practices endorses various measures toward the improvement of sustainable efforts with the eminent performance of firms [19]. Although, many factors also influence the measurement tools which prevail in the sustainability of firms and firm performance the effective strategies put enormous measures upon them and pressure them to uphold the influences [1]. Some friendly environment strategies that are adopted by the academia involve the systems of information, management of logistics and purchasing where the environments are well integrated with the company's structure. Cooperation with the customer usually influences the environmental performance whereas the dominance of green purchasing is also dominant for the performance measures [26]. The implications of investment recovery help firms to enable sustainable advantages and also strives variant to enhance environmental performance. The significance of all factors have eminent contribution toward the environmental performance but the significance of the supply chain also helps to insert role among the relationship between them which strive for the performance of the environment. Some generic dimensions of social sustainability for the companies involve various measures through which the performance of companies are measured; therefore, the significance of various supply chain practices enables the achievement of advantages [33]. Green supply chain management usually enables the era to firms in various ways to achieve the objectives with a vast variety of elements. Therefore, the eminence of sustainability and firm performance are interlinked with each other and could be performed effectively through the implication of the green supply chain.

2. Hypotheses development

Literature reported the studies about green practices that are better for the improvement of performance in various dimensions. Socially, green practices help companies to build various links with the customers as well as

companies of various objectives and levels. It is consistent to analyze the performance through the channel of operational activities that are performed internally and externally about the level of objected aims [16]. Using the measure of environmental strategies, the development is sustained with the implication of significant green practising measures. Although factors of green practices are eminent in describing the influence toward the global challenges as well as internal challenges that companies usually face [22]. Therefore, it is dominant for the companies to analyze the performance of the economy because of its impact on the overall sustainable development and performance of firms [23]. Some studies established the links of collaboration with other companies for the enhancement of various objectives where the internal reliance is not sufficing as the levels of risk increases due to variation of external and internal elements. Literature positively enumerated the aspects of green purchasing and cooperation with customers, while some studies have interlinked the relation among them which are dominant in influencing the environmental performance. Investments are recovered through the variety of businesses launched by companies where the effectiveness of strategies could help companies to attain the recovery element [24]. Various role of factors elected in this study is denoted by studies, while the eminence of supply chain management positively contributed role among them.

The working of joint people helps to achieve various objectives wherein the terms of business the role of cooperation with customers induces eminent impact on the performance of the environment [23, 34]. It is prevalent on the companies to maintain environments on various objectives; therefore, companies usually establish cooperation with customers to retain various margins in markets. The cooperation is established by providing hands to other people generally, while businesses establish certain cooperation for the stability of their product which could create the ideas of increasing performance [13]. Company objectives are obtained when the problem cause of cooperation between customers and companies are established. It is not only beneficial for the companies but also helps various sectors to maintain the performance of environments by inserting positive measures. Cooperation usually establishes by the ways of resolving issues that prevail between the companies and customers which could influence the environmental performances [18]. The significant praises between both customers and companies are also mean of cooperation.

H1: Cooperation with customer significantly influences the environmental performance.

Some purchasing are referred by digital marketing which could have benefits and disadvantages both, while the element of environment saving dominates in some products. Green purchasing is based on the intentions of

consumers who are ready to buy the product with intentions of notifying about the benefits of the product [34]. Green purchasing usually help customers to get acknowledge about the safety of a product which elaborates the overall performance with all benefiting measures [16]. Concept of green purchasing came up with the grown literature where most of the researchers have mentioned the qualities of products while some companies have hidden in the past which include just for selling. It is dominant that there is no harm to the environments from the product which is usually focused by the customer with needs [30]. There is no negative or lesser harm to the environment as well as on human; therefore, the concept of green purchasing has risen.

H2: Green purchasing significantly influences the environmental performance.

The dominating factor of this study is named as investment recovery which usually endorses some effects on environmental performance. It is dependent on the variety of investments made in commercial markets by companies where the values of companies are also dominant [28]. The value of the company is dominant under the adaptation of various measures for the recovery of investments; therefore study mentioned a variety of tools that enable for investment recovery programs [5]. It is dependent upon the level of investments which are put forward by companies which may contain capital investment or working investment; therefore, the ultimate mean of recovery could insert some dominant impact on the performance of environments [6]. Some studies mentioned the interlinked relationship among investment recovery as well as environmental performance.

H3: Investment recovery significantly impacts environmental performance.

The difference among needs of customers and the needs of companies are not justified while the significance of supply chain positively helped to enumerate the differences that prevail among them [34]. Studies mentioned supply chain management a significant element which retains fit among various elements of the business but the significance of cooperation with customers is measured through various aspects. The relation between customers and companies are strengthened through the use of the product which is an important mean for the customer and companies though [30]. Integration of supply chain for the development of the link between customer and companies are elaborated through means of production. Usually, products help in the enhancement of profits to the companies but the sustainable environment is also dependent on the needs and demands of customers [21]. Supply chain management effectively inserts role among cooperation element and environmental performance, while the study depicted the mediating role of supply chain management among the relationship

between cooperation with customers and environmental performance.

H4: Supply chain management significantly and positively mediates among cooperation with customers and environmental performance.

Usually, customer intends to purchase the product with a variety of benefits whereas the environmental performance is also based on the green purchasing [28]. Link of the product successfully establishes the dominance of green purchasing where supply chain management inserts the role of distribution toward the markets. Supply chain management insert role of distributor among the companies and customers while product development from the initial stage to the end stage is pertinent by the ways of supply chain management [1]. Role of green purchasing discusses the mind of the customer where the involvement of customer defines the intentions of buying in local markets as well as international markets. Environmental performance is based on the levels of green purchasing because the ultimate green purchasing prevail on the effectiveness of the product; therefore, supply chain management countered as an effective mean of retaining the role among performance and green purchasing [15]. The mediating role of supply chain management between green purchasing and environmental performance is depicted in this study with various effective measures.

H5: Supply chain management significantly and positively mediates among green purchasing and environmental performance.

Companies usually make investments in products with a variety of intentions; therefore, the recovery element is also dominant which is sometimes not achieved [25]. Some time frames exist the companies and customers with the relation of product which endorse the effectiveness of supply chain. Usually, companies supply product on demands whereas the products varied with the level of availability; therefore, demands and orders are met in the relativeness of supply chain management [10]. Investment recoveries are easily achieved if there is the consistency of supply chain management between the dominance of environmental performance. Link of both variables differentiates with the dominance of strategic measures which include supply chain management, while eminent use of supply chain management between environmental performance and investment recovery could establish strong relationships [20]. There is a significant mediating role of supply chain management among the relationship between investment recovery and environmental performance, while some studies mentioned the individual role of supply chain management with effective strategic positions.

H6: Supply chain management significantly and positively mediates among investment recovery and environmental performance.

3. Methodology

The objective of the ongoing study is to analyze the influence of cooperation with the customer, green purchasing and investment recovery on the environmental performance of the manufacturing companies of Bandung city Indonesia. The secondary aim of the current article is to examine the mediating role of supply chain management among the links of cooperation with the customer, green purchasing, investment recovery and environmental performance of the manufacturing companies of Bandung city Indonesia. The data has been obtained from the employees of manufacturing companies by using questionnaires. These questionnaires have been sent to them by personal visit while these respondents were selected by using simple random sampling. Around 540 questionnaires have been sent to them but only 380 were returned that has around 70.37 percent response rate. In addition, this data has been analyzed by using smart-PLS due to very complex model has been adopted by the study and PLS-SEM provided the best results in this case. Moreover, the variables such as cooperation with the customer (CC) has ten items, green purchasing (GP) also has ten items and investment recovery (IR) has five items. In addition, the dependent variable such as environmental performance (EP) has six items while the mediator variable named as supply chain management (SCM) has four items [27]. These variables along with relationships are mentioned in Figure 1.

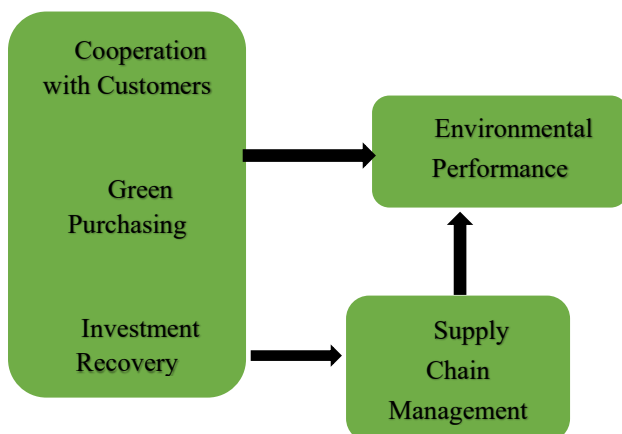


Figure 1. Theoretical model

4. Results

The findings indicated the valid convergent validity and high linkage among the items because the Alpha and CR are more than the standard value such as 0.70 while loading and AVE values are more than the standard value such as 0.50. These values are mentioned in Table 1.

Table 1. Convergent validity

Items	Loadings	Alpha	CR	AVE
CC1	0.762	0.938	0.948	0.668
CC10	0.844			
CC2	0.839			
CC3	0.788			
CC4	0.796			
CC5	0.823			
CC6	0.832			
CC7	0.840			
CC9	0.829			
EP1	0.774	0.879	0.912	0.675
EP2	0.861			
EP4	0.838			
EP5	0.806			
EP6	0.827			
GP1	0.704	0.944	0.945	0.632
GP10	0.786			
GP2	0.619			
GP3	0.826			
GP4	0.830			
GP5	0.863			
GP6	0.763			
GP7	0.868			
GP8	0.782			
GP9	0.874			
IR1	0.860	0.918	0.939	0.754
IR2	0.870			
IR3	0.870			
IR4	0.887			
IR5	0.854			
SCM1	0.892	0.923	0.946	0.813
SCM2	0.909			
SCM3	0.897			
SCM4	0.909			

The findings indicated the valid discriminant validity and no high linkage among the variables according to the Fornell Larcker and cross-loadings methods because the values that highlighted the links with variable itself are larger than the values that highlighted the link with other variables. These values are mentioned in Table 2 and Table 3.

Table 2. Fornell Larcker

	CC	EP	GP	IR	SCM
CC	0.818				
EP	0.510	0.822			
GP	0.288	0.280	0.795		
IR	0.432	0.410	0.280	0.868	
SCM	0.497	0.506	0.296	0.398	0.902

Table 3. Cross-loadings

	CC	EP	GP	IR	SCM
CC1	0.762	0.423	0.282	0.330	0.656
CC10	0.844	0.463	0.228	0.364	0.748
CC2	0.839	0.468	0.318	0.342	0.806
CC3	0.788	0.442	0.257	0.365	0.725
CC4	0.796	0.401	0.238	0.339	0.686
CC5	0.823	0.400	0.197	0.374	0.690
CC6	0.832	0.319	0.161	0.345	0.665
CC7	0.840	0.474	0.253	0.367	0.896
CC9	0.829	0.314	0.157	0.353	0.663
EP1	0.453	0.774	0.224	0.362	0.447
EP2	0.416	0.861	0.245	0.344	0.415
EP4	0.422	0.838	0.255	0.330	0.396
EP5	0.384	0.806	0.203	0.304	0.407
EP6	0.410	0.827	0.219	0.336	0.408
GP1	0.138	0.107	0.704	0.113	0.112
GP10	0.105	0.084	0.786	0.108	0.094
GP2	0.449	0.416	0.619	0.411	0.462
GP3	0.132	0.188	0.826	0.163	0.144
GP4	0.172	0.206	0.830	0.158	0.170
GP5	0.137	0.118	0.863	0.138	0.139
GP6	0.061	0.091	0.763	0.123	0.103
GP7	0.143	0.123	0.868	0.149	0.150
GP8	0.117	0.103	0.782	0.111	0.103
GP9	0.145	0.125	0.874	0.151	0.156
IR1	0.326	0.346	0.217	0.860	0.307
IR2	0.391	0.345	0.235	0.870	0.355
IR3	0.361	0.326	0.248	0.870	0.320
IR4	0.385	0.323	0.283	0.887	0.347
IR5	0.403	0.422	0.235	0.854	0.385
SCM1	0.774	0.446	0.287	0.334	0.892
SCM2	0.839	0.471	0.249	0.380	0.909
SCM3	0.782	0.438	0.289	0.337	0.897
SCM4	0.837	0.467	0.244	0.380	0.909

The findings indicated the valid discriminant validity and no high linkage among the variables according to the Heterotrait Monotrait ratio because the values are lower than 0.90. These values are mentioned in Table 4.

Table 4. Heterotrait Monotrait ratio

	CC	EP	GP	IR	SCM
CC					
EP	0.553				
GP	0.207	0.210			
IR	0.463	0.450	0.214		
SCM	0.453	0.560	0.215	0.428	

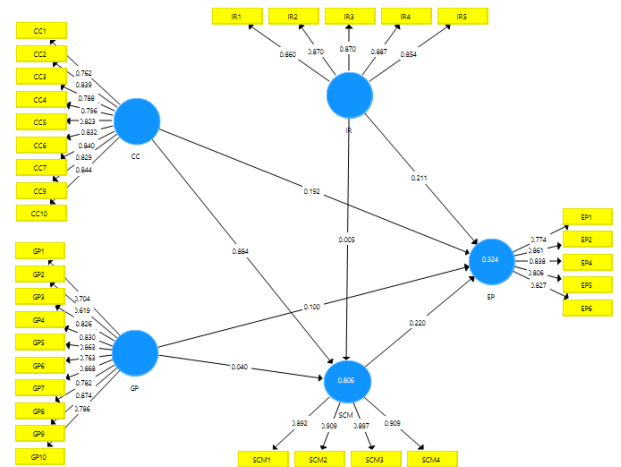


Figure 2. Measurement model assessment

The findings indicated that green purchasing and investment recovery have a positive impact on environmental performance and accept H2 and H3. However, cooperation with customer insignificantly impacted environmental performance and reject H1. In addition supply chain management positive mediating among the links of cooperation with the customer, green purchasing, investment recovery and environmental performance and accept H4, H5 and H6. These links are mentioned in Table 5.

Table 5. Path analysis

Relationships	Beta	S.D.	t-statistics	p-values
CC -> EP	0.192	0.123	1.557	0.061
GP -> EP	0.100	0.053	1.888	0.031
IR -> EP	0.211	0.068	3.105	0.001
SCM -> EP	0.220	0.121	1.815	0.036
CC -> SCM -> EP	0.194	0.108	1.801	0.037
GP -> SCM -> EP	0.109	0.024	4.542	0.035
IR -> SCM -> EP	0.101	0.034	2.971	0.041

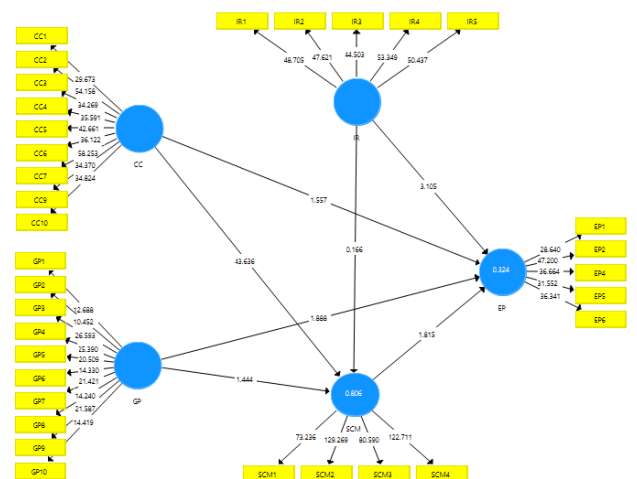


Figure 3. Structural model assessment

This article analyzes the environmental, performance, and supply chain management. This article is in line with previous articles including: Environmental [36], [37]. Performance [38], [39], [40], [41], and [42]. Supply Chain Management [43], [44], [45], [46].

5. Discussion and conclusion

The results indicated that green purchasing and investment recovery have a positive impact on the environmental performance of the manufacturing companies of Bandung city Indonesia. These results are matched with the outcomes of Zhu, Feng [35] who examined that green purchasing has a positive association with the environmental performance of the organization. A study by Inman and Green [12] investigated that environmental performance has depended on the strong investment recovery strategy of the organization and this finding same as the findings of the ongoing study. The results also exposed that supply chain management positively mediated among the links of cooperation with the customer, green purchasing, investment recovery and environmental performance. These findings are also similar to the outcomes of Feng, Yu [7] who also exposed that effective supply chain practices are necessary for the high environmental performance in the organization. These findings are suitable for upcoming studies along with regulators in term of further study and develop the policies related to the supply chain and environmental performance. Thus, it is concluded that the manufacturing companies of Indonesia has managed high cooperation with the customer along with high green purchasing, and effective supply chain practices that enhance the environmental performance of the organization. This study has recommended that the upcoming literature should expand the study scope by expanding the target population of the study. In addition, it also included in the suggestion that future studies should add any moderating impact in the framework that is ignored by the ongoing study.

REFERENCES

- [1] H. Alzoubi, "Empirical study on sustainable supply chain strategies and its impact on competitive priorities: The mediating role of supply chain collaboration," *Management Science Letters*, Vol. 10, No. 3, pp. 703-708, 2020.
- [2] D. Andalib Ardakani and A. Soltanmohammadi, "Investigating and analysing the factors affecting the development of sustainable supply chain model in the industrial sectors," *Corporate Social Responsibility and Environmental Management*, Vol. 26, No. 1, pp. 199-212, 2019.
- [3] M. Ashfaq, "Critical issues at the upstream level in sustainable supply chain management of agri-food industries: Evidence from Pakistan's citrus industry," *Sustainability*, Vol. 11, No. 5, pp. 1326-1331, 2019.
- [4] X. Bu, "Environmental orientation, green supply chain management, and firm performance: empirical evidence from chinese small and medium-sized enterprises," *International Journal of Environmental Research and Public Health*, Vol. 17, No. 4, pp. 1199-1205, 2020.
- [5] R. Budiharjo, "Effect of environmental performance and corporate governance structure on financial performance," *International Journal of Academic Research in Accounting, Finance and Management Sciences*, Vol. 9, No. 2, pp. 11-22, 2019.
- [6] P. K. Cornejo, "Sustainability metrics for assessing water resource recovery facilities of the future," *Water Environment Research*, Vol. 91, No. 1, pp. 45-53, 2019.
- [7] M. Feng, "Green supply chain management and financial performance: The mediating roles of operational and environmental performance," *Business strategy and the Environment*, Vol. 27, No. 7, pp. 811-824, 2018.
- [8] A. Habib and Y. Bao, "Impact of knowledge management capability and green supply chain management practices on firm performance," *International Journal of Research in Business and Social Science (2147-4478)*, Vol. 8, No. 6, pp. 240-255, 2019.
- [9] M. A. Habib, Y. Bao, and A. Ilmudeen, "The impact of green entrepreneurial orientation, market orientation and green supply chain management practices on sustainable firm performance," *Cogent Business & Management*, Vol. 7, No. 1, pp. 174-186, 2020.
- [10] M.-C. Huang and H.-H. Huang, "How transaction-specific investments influence firm performance in buyer-supplier relationships: The mediating role of supply chain integration," *Asia Pacific Management Review*, Vol. 24, No. 2, pp. 167-175, 2019.
- [11] M. S. Hussain, M. M. Musa, and A. Omran, "The impact of regulatory capital on risk taking by Pakistani banks," *SEISENSE Journal of Management*, Vol. 2, No. 2, pp. 94-103, 2019.
- [12] R. A. Inman and K. W. Green, "Lean and green combine to impact environmental and operational performance," *International Journal of Production Research*, Vol. 56, No. 14, pp. 4802-4818, 2018.
- [13] M. Jawaad and S. Zafar, "Improving sustainable development and firm performance in emerging economies by implementing green supply chain activities," *Sustainable Development*, Vol. 28, No. 1, pp. 25-38, 2020.
- [14] K. Jermsittiparsert, W. Joemsittiprasert, and S. Phonwattana, "Mediating role of sustainability capability in determining sustainable supply chain management in tourism industry of Thailand," *International Journal of Supply Chain Management*, Vol. 8, No. 3, pp. 47-58, 2019.
- [15] K. Jermsittiparsert, P. Siriattakul, and N. Sangperm, "Predictors of environmental performance: mediating role of green supply chain management practices," *International Journal of Supply Chain Management*, Vol. 8, No. 3, pp. 877-888, 2019.

- [16] K. Jermsittiparsert, P. Siriattakul, and S. Wattanapongphasuk, "Determining the environmental performance of Indonesian SMEs influence by green supply chain practices with moderating role of green HR practices," *International Journal of Supply Chain Management*, Vol. 8, No. 3, pp. 59-70, 2019.
- [17] X. Jia and M. Wang, *The impact of green supply chain management practices on competitive advantages and firm performance*, in *environmental sustainability in asian logistics and supply chains*. 2019, Springer. p. 121-134.
- [18] T. Le, "The effect of green supply chain management practices on sustainability performance in Vietnamese construction materials manufacturing enterprises," *Uncertain Supply Chain Management*, Vol. 8, No. 1, pp. 43-54, 2020.
- [19] L. Liu, "Top management characteristics, green supply chain management and corporate performance—moderating effects of competition intensity," *Journal of Human Resource and Sustainability Studies*, Vol. 7, No. 01, pp. 55, 2019.
- [20] M. Mira, Y. Choong, and C. Thim, "Mediating role of port supply chain integration between involvement of human resource practices and port performance in Kingdom of Saudi Arabia," *Uncertain Supply Chain Management*, Vol. 7, No. 3, pp. 507-516, 2019.
- [21] F. Naway and A. Rahmat, "The mediating role of technology and logistic integration in the relationship between supply chain capability and supply chain operational performance," *Uncertain Supply Chain Management*, Vol. 7, No. 3, pp. 553-566, 2019.
- [22] M. A. Nawaz and S. Hassan, "Investment and Tourism: Insights from the literature," *Journal of Economic & Management Perspectives*, Vol. 10, No. 4, pp. 581-590, 2016.
- [23] W. Ni and H. Sun, "Does construct multidimensionality matter? A nuanced examination of the relationship among supply chain integration, green supply chain management, and business performance," *Sustainability*, Vol. 11, No. 19, pp. 5455-5460, 2019.
- [24] X. Pan, "The influence of green supply chain management on manufacturing enterprise performance: moderating effect of collaborative communication," *Production Planning & Control*, Vol. 31, No. 2-3, pp. 245-258, 2020.
- [25] T. Panichayakorn and K. Jermsittiparsert, "Mobilizing organizational performance through robotic and artificial intelligence awareness in mediating role of supply chain agility," *International Journal of Supply Chain Management*, Vol. 8, No. 5, pp. 757-768, 2019.
- [26] M. Saad and D. A. Siddiqui, "The impact of green supply chain management on firm performance: a case of manufacturing industry of Karachi. Saad, M. and Siddiqui, DA (2019). The Impact of Green Supply Chain Management on Firm Performance: A Case of Manufacturing Industry of Karachi. *Social Science and Humanities Journal*, Vol. 3, No. 4, pp. 993-105, 2019.
- [27] N. A. A. Seman, "The mediating effect of green innovation on the relationship between green supply chain management and environmental performance," *Journal of Cleaner Production*, Vol. 229, pp. 115-127, 2019.
- [28] K. Shanmugam, "Advanced high-strength steel and carbon fiber reinforced polymer composite body in white for passenger cars: Environmental performance and sustainable return on investment under different propulsion modes," *ACS Sustainable Chemistry & Engineering*, Vol. 7, No. 5, pp. 4951-4963, 2019.
- [29] A. Singsa, "Willingness of supply chain employees to support disability management at workplace: a case of Indonesian supply chain companies," *Journal of Computational and Theoretical Nanoscience*, Vol. 16, No. 7, pp. 2982-2989, 2019.
- [30] T. Sriyakul, R. Umam, and K. Jermsittiparsert, "Supplier relationship management, tqm implementation, leadership and environmental performance: does institutional pressure matter," *International Journal of Innovation, Creativity and Change*, Vol. 5, No. 2, pp. 211-227, 2019.
- [31] J. Sutduean, "Supply chain integration, enterprise resource planning, and organizational performance: the enterprise resource planning implementation approach," *Journal of Computational and Theoretical Nanoscience*, Vol. 16, No. 7, pp. 2975-2981, 2019.
- [32] A. Wu and T. Li, "Gaining sustainable development by green supply chain innovation: Perspectives of specific investments and stakeholder engagement," *Business Strategy and the Environment*, Vol. 29, No. 3, pp. 962-975, 2020.
- [33] Z. Yang, "Synergy between green supply chain management and green information systems on corporate sustainability: an informal alignment perspective," *Environment, Development and Sustainability*, Vol. 22, No. 2, pp. 1165-1186, 2020.
- [34] Y. Yu, M. Zhang, and B. Huo, "The impact of supply chain quality integration on green supply chain management and environmental performance," *Total Quality Management & Business Excellence*, Vol. 30, No. 9-10, pp. 1110-1125, 2019.
- [35] Y. Keho, "Revisiting the exports and economic growth nexus: Rolling window cointegration and causality evidence from Cote d'Ivoire, Malaysia, Pakistan and South Africa. *Asian Journal of Economics and Empirical Research*, Vol. 6, No. 1, pp. 27-35, 2019.
- [36] S. Sardjijo and H. Ali, "Integrating character building into mathematics and science courses in elementary school," *International Journal of Environmental and Science Education*. <https://doi.org/10.1007/s10648-016-9383-1>, 2017
- [37] S. Khaled, J. Hossan, and A. Anannya, "Does good governance practice leads to sound financial performance? Evidence from RMG companies enlisted in Dhaka stock exchange (DSE)," *International Journal of Management and Sustainability*, Vol. 9, No. 2, pp. 76-90, 2020.
- [38] A. Rivai, Suharto, and H. Ali, "Organizational performance analysis: Loyalty predictors are

- mediated by work motivation at urban village in Bekasi City," International Journal of Economic Research, 2017.*
- [39] M. Khan, B. Uddin, and I. J. Shathi, "*Nature of sexual harassment against the female students of Bangladesh: A cross-sectional study in Tangail Municipality,*" *International Journal of Social and Administrative Sciences*, Vol. 3, No. 2, pp. 73-82, 2018.
- [40] M. Agussalim, M. Ayu Rezkiana Putri, and H. Ali, "*Analysis work discipline and work spirit toward performance of employees (case study tax office Pratama two Padang),*" *International Journal of Economic Research*, 2016.
- [41] P. E. S. Silitonga, D. S. Widodo, and H. Ali, "*Analysis of the effect of organizational commitment on organizational performance in mediation of job satisfaction (Study on Bekasi City Government),*" *International Journal of Economic Research*, 2017.
- [42] M. Ridwan, S. R. Mulyani, and H. Ali, (2020). "*Building behavior and performance citizenship: Perceived organizational support and competence (case study at SPMI private university in west Sumatra),*" *International Journal of Psychosocial Rehabilitation*, <https://doi.org/10.37200/IJPR/V24I6/PR260195>, 2020.
- [43] S. Harini, M. R. Hamidah, Luddin, and H. Ali, "*Analysis supply chain management factors of lecturer's turnover phenomenon,*" *International Journal of Supply Chain Management*, 2020.
- [44] A. Desfiandi, M. A. E. Yusendra, N. Paramitasari, and H. Ali, "*Supply chain strategy development for business and technological institution in developing start-up based on creative economy,*" *International Journal of Supply Chain Management*, 2019.
- [45] A. S. Sulaeman, B. Waluyo, and H. Ali, "*Making dual procurement and supply chain operations: Cases in the Indonesian higher education,*" *International Journal of Supply Chain Management*, 2019.
- [46] H. Mappesona, K. Ikhsani, and H. Ali, "*Customer purchase decision model, supply chain management and customer satisfaction: Product quality and promotion analysis,*" *International Journal of Supply Chain Management*, 2020.