

GOLD DINAR AS A CONSUMER PRODUCT: MODIFIED VERSION OF THE THEORY OF PLANNED BEHAVIOUR

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ABSTRACT

This study is a conceptual discussion that explores the literature concerning the purchase intention of the gold dinar in Malaysia. Although some research has been done on gold dinar acceptance in the past, a thorough marketing research perspective has been missing in this niche. Yet the gold dinar market is quite dynamic with many public and private initiatives yielding mixed response from the public. The literature suggests that the theory of planned behaviour (TPB) is a good analytical approach to understand the purchase intention of Malaysian customers. However, the author of this theory, Ajzen, has discarded the construct of knowledge as irrelevant to the process of formation of behavioural intention. On the other hand, the competing cognitive behavioural theories postulate knowledge as an important variable, at least in the context of consumer behaviour. Thus, this study proposes a modified version of the TPB that includes objective product knowledge and subjective productive knowledge as exogeneous variables. A conceptual framework is presented with attitude and perceived behavioural control as mediators. A total of 16 hypotheses were generated. Fresh marketing behavioural perspective and consumer knowledge inclusion offers new and potentially more insightful avenues for understanding public behaviour towards gold dinar by academics and practitioners.

JEL Classification: H31, M31, P40

Key words: Theory of planned behaviour, Purchase intention, Gold dinar, Consumer knowledge

1. INTRODUCTION

Recent decade has witnessed a shift in perspective on gold dinar. The first gold dinar in Malaysia (Kelantan Gold Dinar) was introduced as

an alternative medium of exchange (Muhammad, 2011). This initiative was in response to the Asian Financial crisis that erupted in 1997. The practitioners and scholars alike first turned to gold dinar as an alternative monetary system – the true store of value that could help to anchor shaky, unstable economies (El-Diwany, 1997; Yusuf, Dali, and Husin, 2002; Meera, 2002; Zuhaimy, 2003; Meera and Larbani, 2004; Hosein, 2008). However, the reality of the day brought both groups to an understanding that the gold dinar does not seem to be a viable alternative as a medium of exchange (Mohamad et al., 2009; Yaacob, 2012; Muflih, 2012; Dali and Razak, 2013; Omerčević, 2014; Yaacob, Ahmad, and Mujani, 2014; Peie et al., 2017). A gold-based monetary system is not easy to implement due to vehement challenges and strong opposition by financial superpowers like the United States as well as others who benefit most from the present hegemonic fiat system through seigniorage, speculation and arbitrage (Meera, 2013; Omerčević, 2014; Peie et al, 2017).

Unlike the viability of the gold dinar as a medium of exchange, the role of gold itself as a consistent hedging tool and means for wealth preservation is a well-established empirical fact (Ghosh et al., 2004; Worthington and Pahlavani, 2007; Baur and McDermott, 2010: Ibrahim. 2012: Idris et al., 2013: Ghazali, Lean, and Bahari, 2015; Lean and Yeap, 2016; Cheong, 2018; Maghyereh, Abdoh, and Awartani, 2019). In light of these established studies on gold as a viable instrument of value preservation during times of uncertainty, introducing various gold coins was one of the initiatives undertaken by various Malaysian State Governments in order to make gold investment available to the public. To just name a few alternatives for gold coins investment: - they are the Kijang Emas issued by Bank Negara (Central Bank), Royal Mint Gold Dinar, Kelantan State Gold Dinar and the Perak State Gold Dinar. Placing these products in the hands of people is seen as the starting point towards allowing people to diversify their investments and protect their wealth.

This shift in perspective on gold dinar of viewing it as a public wealth preservation tool rather than alternative medium of exchange requires different theoretical approaches to study the factors that may influence its successful adoption by the public. There is an apparent void in the literature of treating the gold dinar as a consumer product in the market (Ab Hamid et al., 2013) while this approach has a potential to provide new and more realistic insights into how to make its distribution among the public a successful enterprise. The intent of the present research is to finally fill up this lacuna.

2. LITERATURE REVIEW

To date there has been rather a limited research focusing on the explanation of purchase behaviour towards the gold dinar. Several studies aimed at identifying various aspects of the public behaviour towards the gold dinar including, acceptance of it as a medium of exchange, as an alternative currency or actual usage of it in daily transactions (Dali, 2009; Adewale et al., 2012; Yusuf et al., 2015; Yusuf, Ghani and Meera, 2017; Kosnin, 2018; Mulatsih, Ratnasari, and Saepuloh, 2018), investment or savings tool (Mohamad et al., 2012; Nordin, Hasyyati, and Hamid, 2012), and the acceptance by the public in general (Muhammad, 2011). These different definitions of the behaviour in question towards gold might be measuring phenomena different from that of customer purchase behaviour. The scarcity of studies on gold dinar from the marketing perspective was also brought to attention by Ab Hamid et al. (2013). However, it appears that to date none of the researchers have looked at the gold dinar as a consumer product in the market and studied the behavioural dynamics that drive customer purchase response towards it.

2.1 THEORY OF PLANNED BEHAVIOR AND ITS CORE CONSTRUCTS

Among the theories that have established possible antecedents of customer purchase intention, while looking at it through cognitive behavioural lenses, are the Theory of Reasoned Action by Fishbein and Ajzen (1977) and its extension – the Theory of Planned Behaviour (TPB) by Ajzen (1991). Due to the inclusion of perceived behavioural control construct, TPB framework is more applicable to the situations that might be constrained by internal or external barriers. High consumer involvement nature of gold dinar, as a product, being the gold coin (Martin, 1998) is likely to trigger careful consideration of all the factors that facilitate or impede the purchase. Additionally, many customers may still have very limited purchase experience with gold dinars. Therefore, with the above logic, the present study adapts TPB framework as more appropriate to identify the immediate determinants of customer purchase intention towards gold dinar.

As TPB postulates, three most important immediate antecedents of any behavioural intention are attitude, subjective norm and perceived behavioural control. In the domain of customer purchase behaviour ample empirical support has been accumulated to support the existence of positive relationships between the TPB

antecedents of purchase intention and the purchase intention itself. Researchers have provided strong unanimous empirical support for the direct positive influence of attitude, subjective norms and perceived behavioural control on purchase intention in the context of organic products (Tarkiainen and Sundqvist, 2005; Gracia and de Magistris, 2007; de Magistris and Gracia, 2008; Kim and Chung, 2011; Zhou et al., 2013; Zhu, 2018), pirated or counterfeit products (Alam et al., 2011; Cheng, Fu, and Tu, 2011; Budiman, 2012; Hidayat and Diwassari, 2013; Chiu, Lee, and Won, 2014), halal products (Alam and Sayuti, 2011; Mukhtar and Butt, 2012; Haqueet al., 2018; Bashir et al., 2019), green and sustainable products (Aman, Harun, and Hussein, 2012; Kumar, 2012; Shariff, Amran, and Goh, 2012; Tan, 2013; Verma and Chandra, 2018) and others.

Furthermore, within the TPB framework, three groups of behaviour-related beliefs, behavioural, normative and control, directly affect the formation of one's attitude, subjective norms and perceived behavioural control respectively towards the behaviour in question. Armitage and Conner (2001) who conducted a rigorous meta-analytical review of empirical studies that applied TPB across various behavioural domains, including purchase situations, found strong empirical support for the links between behaviour-related beliefs and attitudes, subjective norms, and perceived behavioural control, exactly as it was conceptualised by Ajzen (1991). Additionally, in the context of customer purchase behaviour Chan and Lau (1998), McCarthy et al. (2003) and also Ha and Janda (2012) found the evidence of positive influence exhibited on TPB antecedents of purchase intention by their corresponding purchase-related beliefs.

2.2 CONSUMER PRODUCT KNOWLEDGE AS EXOGENEOUS VARIABLE

2.2.1 CONSUMER PRODUCT KNOWLEDGE AND PURCHASE INTENTION

Consumer product knowledge is one of the theory compelling constructs when it comes to consumer purchase behavior. For more than three decades, consumer product knowledge has been vastly researched and empirically linked to various aspects of the consumer's cognitive process of purchase decision-making. For instance, it has been found to influence consumers' search for product related information (Raju, Lonial, and Mangold, 1995; Philippe and Ngobo, 1999; Bouzaabia and Salem, 2010), evaluation of a product (Alba, 1983; Muthukrishnan and Weitz, 1991; Raju et al., 1995; Blair and

Innis, 1996; Cordell, 1997; Gou and Meng, 2008; Tomaseti and Ruiz, 2009; Lee and Lee, 2009, 2011), confidence in purchase decision (Biswas and Sherrell, 1993; Aydin et al., 2011), perceived decision outcomes (Raju et al., 1995), amount of cognitive efforts (Philippe and Ngobo, 1999), memory capability to store product related information (Philippe and Ngobo, 1999; Gou and Meng, 2008), organization and retrieval of information (Cowley and Mitchel, 2003) and processing of advertisement message (Chuang and Tsai, 2005; Lee and Lee, 2011; Bei, Chu, and Shen, 2011). Therefore, it is only logical to see the overall outcome of the consumer purchase-decision making, that is purchase or non-purchase decision, as a function of what consumer knows about a product (Alba and Hutchinson, 2000).

Furthermore, the concept of product knowledge is linked with customers' purchase decision process implicitly and explicitly according to two alternative cognitive models of customer purchase behaviour — consumer decision model (Blackwell et al., 2006) and theory of buyer behaviour (Howard and Sheth, 1969). According to the consumer decision model (Blackwell et al., 2006), consumer decision process is composed of the following six steps: need recognition, information search, pre-purchase evaluation of alternatives, purchase, consumption, and post-purchase evaluation. The purchase step is directly influenced by individual differences that among other factors include consumer product knowledge.

On the other hand, according to the theory of buyer behaviour, attitude is immediate and sole antecedent of purchase intention that consecutively influences purchase behaviour. Unlike in TPB, in Howard and Sheth's model, attitudes are influenced in two ways. First, through predisposition formed by perceptual bias closely resembling beliefs construct in TPB. Second, attitudes are influenced by the ability to comprehend information, which is again related to knowledge. Therefore, consumer product knowledge influences not only purchase behaviour itself but also the entire process of establishment of beliefs, attitudes and purchase intentions.

Additionally, due to a strong link between pre-purchase information search and consumer product knowledge (Jiang and Rosenbloom, 2013), consumer product knowledge becomes the especially critical components of decision process in the purchase situations that can be characterized as high-involvement purchase (Smith, 2000; Lin and Chen, 2006; Lo, Harvey, and Thompson, 2012). This is probably due to increased information processing demand for consumer in high-involvement purchase situation: it requires

increased total and directed cognitive-response activity, increased recall and comprehension from the consumer (Andrews, Durvasula, and Akhter, 1990). High consumer involvement nature of gold dinar, as a consumer product, as mentioned above, further supports the necessity of consumer product knowledge inclusion into conceptual model of customer behaviour towards gold dinar.

Furthermore, any type of knowledge that people hold appears to be very closely related to their beliefs. To illustrate the close epistemic ties between these constructs it is sufficient to say that knowledge itself is often defined as belief that holds true and can be factually proven (Hunt, 2003). These close ties make it difficult to distinguish between these two constructs. In the literature there are very limited number of studies that systematically examined the distinction between knowledge and beliefs (Sinatra, Reynolds, and Jacobson, 2003; Murphy and Alexander, 2004; Maggioni, Riconscente, and Alexander, 2006; Boldrin and Mason, 2009). Through the mix of quantitative and qualitative techniques, these authors demonstrated that although knowledge and beliefs are indeed not easy to distinguish one from another, they do not constitute a single construct.

Since knowledge and beliefs are two closely related constructs, when consumer product knowledge construct is included in the TPB model, it should be expected to directly affect the formation of attitude, subjective norms and perceived behavioural control similar to that of beliefs as an exogenous variable. Nevertheless, the author of the theory specifically pointed out that knowledge, defined as information accuracy, "is neither necessary nor sufficient; indeed, it can be irrelevant to decision making" (Ajzen et al., 2011, p. 115). However, with all the preceding logic and theoretical support, this study argues, that the knowledge construct, might although be irrelevant to certain types of behaviour, should certainly be included in models aimed at explaining customer purchase behaviour.

2.2.2 COMPONENTS OF CONSUMER PRODUCT KNOWLEDGE

Subjective and objective product knowledge are two widely conceptualised dimensions of the consumer product knowledge (Carlson et al., 2009). Among the seminal works that introduced the notion of objective and subjective dimensions of consumer product knowledge are Brucks (1985), Selnes (1986), Park, Mothersbaugh, and Feick (1994), Alba and Hutchinson (2000). When Brucks (1985)

first introduced objective and subjective dimensions of consumer product knowledge, she emphasised the importance of including both into studies pertaining to the consumer decision-making as they may influence different aspects of the consumer decision making process differently. Later research has empirically confirmed that objective and subjective product knowledge, although correlated, exert different effects on different consumer decision-making related tasks such as product evaluation, information search, and perceived decision outcomes (Raju et al., 1995) or customers' cognitive efforts and the amount of information stored in memory (Philippe and Ngobo, 1999).

3. RESULTS

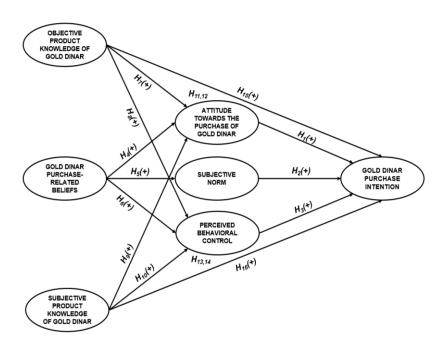
Based on the review of the extant literature as presented in the above discussion of relevant theories and theoretical constructs, the conceptual framework depicted in Figure 1 below is suggested. Theory of planned behaviour constitutes the core of the proposed model. However, in this study TPB is extended to incorporate subjective and objective product knowledge constructs as exogenous variables.

TPB postulates, three most important immediate As antecedents of any behavioural intention are attitude, subjective norm and perceived behavioural control. Likewise, TPB-postulated positive influence of the purchase-related beliefs on customers' attitudes, subjective norms and perceived behavioural control cannot be dismissed from the model explaining customers' purchase intention towards gold dinar. In fact, according to the Ajzen et al. (2011), behavioural-related beliefs constitute near single most important cognitive base for the formation of attitudes, subjective norms, perceived behavioural control and eventually the behavioural intention and actual behaviour itself. In the domain of customer purchase behaviour ample empirical support has been accumulated to support the existence of these relationships, therefore, they should be retained within the proposed model of customer purchase behaviour towards the gold dinar:

- H1: Attitude has a positive relationship with the gold dinar purchase intention.
- H2: Subjective norms have a positive relationship with the gold dinar purchase intention.
- H3: Perceived behavioural control has a positive relationship with the gold dinar purchase intention.

- H4: Gold dinar purchase-related beliefs have a positive relationship with the attitude.
- H5: Gold dinar purchase-related beliefs have a positive relationship with the subjective norms.
- H6: Gold dinar purchase-related beliefs have a positive relationship with the perceived behavioural control.

FIGURE 1 Proposed Conceptual Framework



Furthermore, this study has built strong theoretical ground for the inclusion of objective and subjective product knowledge constructs as exogenous variables within TPB framework. As depicted in Figure 1, this study hypothesizes that objective and subjective product knowledge constructs play similar role to purchase-related beliefs in the model. Specifically, the following relationships are hypothesized:

H7: Objective product knowledge of gold dinar has a positive relationship with the attitude.

- H8: Objective product knowledge of gold dinar has a positive relationship with the perceived behavioural control.
- H9: Subjective product knowledge of gold dinar has a positive relationship with the attitude.
- H10: Subjective product knowledge of gold dinar has a positive relationship with the perceived behavioural control.
- H11: Attitude mediates the relationship between the objective product knowledge of gold dinar and gold dinar purchase intention.
- H12: Perceived behavioural control mediates the relationship between the objective product knowledge of gold dinar and gold dinar purchase intention
- H13: Attitude mediates the relationship between the subjective product knowledge of gold dinar and gold dinar purchase intention.
- H14: Perceived behavioural control mediates the relationship between the subjective product knowledge of gold dinar and gold dinar purchase intention.

This study does not suggest the inclusion of link between product knowledge and subjective norms. According to its conceptualization, subjective norms, defined as perceived level of being under pressure from important others to perform the behaviour seem to have little to do with consumer product knowledge. Subjective norms therefore are influenced by the beliefs about expectations of important others rather than subjective or objective product knowledge.

Finally, the findings from the previous research on TPB in the context of different purchase situations also provide support for the existence of positive direct relationship between consumer product knowledge constructs, subjective and objective, and purchase intention (Lin and Chen, 2006; McEachern and Warnaby, 2008; Shariff et al., 2012; Fu and Elliott, 2013; Wang et al., 2013). Based on this empirical evidence as well as inputs from the consumer decision model, as discussed in the preceding section, this study proposes to include the following relationships:

- H15: Objective product knowledge of gold dinar has a positive relationship with gold dinar purchase intention.
- H16: Subjective product knowledge of gold dinar has a positive relationship with the gold dinar purchase intention.

4. CONCLUSION

The conceptual discussion within this study aims at filling the gap in the literature on the gold dinar. To date, the literature on gold dinar is dominated by the studies that attempt to explain its acceptance by the public as a medium of exchange. With the realization of the fact that, although highly desired, the gold dinar is not a viable alternative to the present monetary system, the Malaysian government has already taken on the humble objective of distributing gold dinars in the hands of public as mere means of preserving their wealth.

The demand for gold never seems to slow-down. According to Attitudes Survey in the Knight Frank Wealth Report 2019 (Knight Research. 2019). Asia-Pacific's ultra-high-net-worth individuals are expected to allocate more of their wealth to cash and less cyclical assets such as bonds and gold. The survey estimated that China's and Malaysia's ultra-high-net-worth individuals are expected to increase their holdings of gold by 20% in 2019 alone. Ultra-highnet-worth individuals understand the importance of gold and have bigger pockets to buy gold in large quantities such as bullion bars. However, it is of paramount importance to allow general public to acquire even meager amounts of gold to protect their wealth. This is gold dinar coins can play their role especially when another global recession is already in sight (De Backer, Deroose, and Nieuwenhuyze, 2019; Isley and Hall, 2019).

To help the above initiative of placing gold coins into the hands of general public, a perspective shift is required from the current research on the gold dinar. A consumer marketing perspective on gold dinar is needed to understand why people buy gold dinars. Although this perspective is currently missing in the literature, it can offer a potentially more insightful and practical explanation to public behavior towards gold dinar.

This paper has also developed the conceptual model for the explanation of customer purchase intention towards gold dinar on the basis of previous relevant empirical studies. TPB served as the basis of this model. However, two other important cognitive constructs – subjective and objective product knowledge about gold dinar were included in this model as exogenous variables. Although knowledge construct per se was not included in TPB as initially devised by Ajzen, there is strong theoretical ground as well as empirical evidence of the relevance of consumer product knowledge constructs in the context of purchase situation. Therefore, this study proposes that consumer product knowledge constructs may play an important role in

influencing customer purchase intention towards gold dinar either directly or through TPB antecedents of purchase intention – attitudes, subjective norms and perceived behavioural control.

The proposed theoretically appealing conceptual model requires empirical evidence from further research. If future research can test this model and find evidence of consumer product knowledge influence, either direct or indirect, on gold dinar purchase intention, then it can become an important entry point to tap into formation of consumer's purchase intention. When the proposed conceptual framework is tested, in line with Ajzen's proposition, we might expect purchase-related beliefs having a stronger influence on purchase intention antecedents than knowledge constructs. In practice, however, beliefs are stickier and more difficult to change while objective product knowledge can be manipulated easier through skilfully designed intervention programs by gold dinar marketers. Moreover, the idea can be taken on by marketers of other high-involvement products that alike gold dinar requires a rigorous process of pre-purchase information search.

REFERENCES

- Ab Hamid, Siti Ngayesah, Siti Aisyah Ya'kob, Indri Dwi Wardhani, and Nurul Aflah. "Customer Adoption of Dinar and Dirham in Daily Transactions." Paper presented at the 4th International Conference on Business and Economic Research, Bandung, Indonesia, March 2013. http://acrwebsite.org/volumes/6184/volumes/v10/NA-10
- Adewale, A.A., M.B.O. Yusuf, G.M. Ghani, A.K.M. Meera, and T.A.A. Manap. "The Role of Institutional Trust in the Adoption of Gold Dinar in Kelantan: An Empirical Analysis." *Journal of Applied Sciences* 12, no. 20 (2012): 2148-55.
- Ajzen, I. "The Theory of Planned Behavior." *Organizational Behavior* and Human Decision Processes 50, no. 2 (1991): 179-211.
- ______, N. Joyce, S. Sheikh, and N.G. Cote. "Knowledge and the Prediction of Behavior: The Role of Information Accuracy in the Theory of Planned Behavior." *Basic and Applied Social Psychology* 33, no. 2 (2011): 101-17.
- Alam, S.S., A. Ahmad, M.S. Ahmad, and N.M.H.N. Hashim. "An Empirical Study of an Extended Theory of Planned Behaviour Model for Pirated Software Purchase." *World Journal of Management* 3, no. 1 (2011): 124-33.

- ______, and N.M. Sayuti. "Applying the Theory of Planned Behavior (TPB) in Halal Food Purchasing." *International Journal of Commerce and Management* 21, no. 1 (2011): 8-20.
- Alba, J.W. "The Effects of Product Knowledge on the Comprehension, Retention, and Evaluation of Product Information." *Advances in Consumer Research* 10 (1983): 577-80.
- _______, and J.W. Hutchinson. "Knowledge Calibration: What Consumers Know and What They Think They Know." *Journal of Consumer Research* 27, no. 2 (2000): 123-56.
- Aman, A.H.L., A. Harun, and Z. Hussein. "The Influence of Environmental Knowledge and Concern on Green Purchase Intention: The Role of Attitude as a Mediating Variable." *British Journal of Arts and Social Sciences* 7, no. 2 (2012): 145-67.
- Andrews, J.C., S. Durvasula, and S.H. Akhter. "A Framework for Conceptualizing and Measuring the Involvement Construct in Advertising Research." *Journal of Advertising* 19, no. 4 (1990): 27-40.
- Armitage, C.J., and M. Conner. "Efficacy of the Theory of Planned Behaviour: A Meta-Analytic Review." *British Journal of Social Psychology* 40, no. 4 (2001): 471-99.
- Aydin, A.E., O. Aygoren, M. Bodur, and C. Yilmaz. "Preference Construction and Consumer Knowledge: How Do Levels of Objective and Subjective Knowledge Affect Preference Consistency Across Differing Decision Tasks?" *Asia-Pacific Advances in Consumer Research* 9 (2011): 33.
- Bashir, A.M., A. Bayat, S.O. Olutuase, and Z.A. Abdul Latiff. "Factors Affecting Consumers' Intention Towards Purchasing Halal Food in South Africa: A Structural Equation Modelling." *Journal of Food Products Marketing* 25, no. 1 (2019): 26-48.
- Baur, D.G., and T.K. McDermott. "Is Gold a Safe Haven? International Evidence." *Journal of Banking and Finance* 34, no. 8 (2010): 1886-98.
- Bei, L.T., C.H. Chu, and Y.C. Shen. "Positioning Brand Extensions in Comparative Advertising: An Assessment of the Roles of Comparative Brand Similarity, Comparative Claims, and Consumer Product Knowledge." *Journal of Marketing Communications* 17, no. 4 (2011): 229-44.

- Biswas, A., and D.L. Sherrell. "The Influence of Product Knowledge and Brand Name on Internal Price Standards and Confidence." *Psychology and Marketing* 10, no. 1 (1993): 31-46.
- Blackwell, Richard J, Paul Miniard, and James F. Engel. *Consumer Behaviour*, 10th International Edition. Cincinnati OH: Thomson, South-Western, 2006.
- Blair, M.E., and D.E. Innis. "The Effects of Product Knowledge on the Evaluation of Warranteed Brands." *Psychology and Marketing* 13, no. 5 (1996): 445-56.
- Boldrin, A., and L. Mason. "Distinguishing between Knowledge and Beliefs: Students' Epistemic Criteria for Differentiating." *Instructional Science* 37, no. 2 (2009): 107-27.
- Bouzaabia, R. and I. Salem. "The Relation between the Consumer's Knowledge and the Browsing Behavior." *Annals of "Dunarea de Jos" University of Galati Fascicle I: Economics and Applied Informatics* 2, (2010): 59–70.
- Brucks, M. "The Effects of Product Class Knowledge on Information Search Behavior." *Journal of Consumer Research* 12, no. 1 (1985): 1-16.
- Budiman, S. "Analysis of Consumer Attitudes to Purchase Intentions of Counterfeiting Bag Product in Indonesia." *International Journal of Management, Economics and Social Sciences* 1, no. 1 (2012): 1-12.
- Carlson, J.P., L.H. Vincent, D.M. Hardesty, and W.O. Bearden. "Objective and Subjective Knowledge Relationships: A Quantitative Analysis of Consumer Research Findings." *Journal of Consumer Research* 35, no. 5 (2008): 864-76.
- Chan, Y.K.R., and L. Lau. "A Test of the Fishbein-Ajzen Behavioral Intentions Model Under Chinese Cultural Settings: Are There Any Differences Between PRC and Hong Kong Consumers?" *Journal of Marketing Practice: Applied Marketing Science* 4, no. 3 (1998): 85-101.
- Cheng, S.I., H.H. Fu, and L.T.C. Tu. "Examining Customer Purchase Intentions for Counterfeit Products Based on a Modified Theory of Planned Behavior." *International Journal of Humanities and Social Science* 1, no. 10 (2011): 278-84.
- Cheong, C.W.H. "The Islamic Gold Dinar: A Hedge Against Exchange Rate Volatility." *Managerial Finance* 44, no. 6 (2018): 722-38.

- Chiu, W., K.Y. Lee, and D. Won. "Consumer Behavior Toward Counterfeit Sporting Goods." *Social Behavior and Personality: An International Journal* 42, no. 4 (2014): 615-24.
- Chuang, S.C., and C.C. Tsai. "The Impact of Consumer Product Knowledge on the Effect of Terminology in Advertising." *Journal of American Academy of Business* 7, no. 1 (2005): 223-7.
- Cordell, V.V. "Consumer Knowledge Measures as Predictors in Product Evaluation." *Psychology and Marketing* 14, no. 3 (1997): 241-60.
- Cowley, E., and A.A. Mitchell. "The Moderating Effect of Product Knowledge on the Learning and Organization of Product Information." *Journal of Consumer Research* 30, no. 3 (2003): 443-54.
- Dali, Nuradli Ridzwan Shah Mohd. "Factors Contributing to the Acceptance of Gold Dinar as a Medium of Exchange: A Revisit." Paper presented at the *Seminar Antarabangsa Penjanaan Ekonomi Melalui Transaksi Wang Dinar*, August 2009.
- Dali, S.Z.M., and N.B.A. Razak. "Implementation Gold Dinar: Is It Feasible." *Prosiding Persidangan Kebangsaan Ekonomi Malaysia VIII, Jilid* 3 (2013): 1272-9.
- De Backer, B., M. Deroose, and C.V. Nieuwenhuyze. "Is a Recession Imminent? The Signal of the Yield Curve." *Economic Review* I, (2019): 69-93.
- De Magistris, T., and A. Gracia. "The Decision to Buy Organic Food Products in Southern Italy." *British Food Journal* 110, no. 9 (2008): 929-47.
- El-Diwany, Tarek. *The Problem with Interest*. UK:TA-HA Publishers, 1997.
- Fishbein, M., and I. Ajzen. "Belief, Attitude, Intention, and Behavior: An Introduction to Theory and Research." *Journal of Business Venturing* 5, (1977): 177-89.
- Fu, F.Q., and M.T. Elliott. "The Moderating Effect of Perceived Product Innovativeness and Product Knowledge on New Product Adoption: An Integrated Model." *Journal of Marketing Theory and Practice* 21, no. 3 (2013): 257-72.
- Ghazali, M.F., H.H. Lean, and Z. Bahari. "Sharia Compliant Gold Investment in Malaysia: Hedge or Safe Haven?" *Pacific-Basin Finance Journal* 34 (2015): 192-204.

- Ghosh, D., E.J. Levin, P. Macmillan, and R.E. Wright. "Gold as an Inflation Hedge?" *Studies in Economics and Finance* 22, no. 1 (2004): 1-25.
- Gracia, R.A., and T. de-Magistris. "Organic Food Product Purchase Behaviour: A Pilot Study for Urban Consumers in the South of Italy." *Spanish Journal of Agricultural Research* 5, no. 4 (2007): 439-51.
- Guo, L., and X. Meng. "Consumer Knowledge and Its Consequences: An International Comparison." *International Journal of Consumer Studies* 32, no. 3 (2008): 260-8.
- Ha, H.Y., and S. Janda. "Predicting Consumer Intentions to Purchase Energy-Efficient Products." *Journal of Consumer Marketing* 29, no. 7 (2012): 461-9.
- Haque, A., N. Anwar, A. Tarofder, N. Ahmad, and S. Sharif. "Muslim Consumers' Purchase Behavior Towards Halal Cosmetic Products in Malaysia." *Management Science Letters* 8, no. 12 (2018): 1305-18.
- Hidayat, A., and A.H.A. Diwasasri. "Factors Influencing Attitudes and Intention to Purchase Counterfeit Luxury Brands Among Indonesian Consumers." *International Journal of Marketing Studies* 5, no. 4 (2013): 143-51.
- Howard, John A., and Jagdish N. Sheth. *The Theory of Buyer Behavior*. New York: Taylor & Francis, 1969.
- Hunt, D.P. "The Concept of Knowledge and How to Measure It." *Journal of Intellectual Capital* 4, no. 1 (2003): 100-13.
- Ibrahim, M.H. "Financial Market Risk and Gold Investment in an Emerging Market: The Case of Malaysia." *International Journal of Islamic and Middle Eastern Finance and Management* 5, no. 1 (2012): 25-34.
- Idris, N.H., N.A. Aziz, S. Ismail, M. Sahiq, A. Nadiah, S. Idrus, Z. Yazid, and N.A. Mohamed. "Gold as an Exchange Rate Hedge: Empirical Study in Malaysia." 2013 IEEE Symposium on Business, Engineering and Industrial Applications, ISBEIA, (2013): 591-4.
- Isley, P., and R. Hall. "Grand Rapid Economic Forecast 2019." *Seidman Business Review* 25, no. 1 (2019): 1-5.
- Jiang, Pingjun, and Bert Rosenbloom. "Consumer Knowledge and External Pre-Purchase Information Search: A Meta-Analysis of the Evidence." *Consumer Culture Theory (Research in Consumer Behavior* 15 (2014): 353-89.

- Kim, Y.H., and J.E. Chung. "Consumer Purchase Intention for Organic Personal Care Products." *Journal of Consumer Marketing* 28, no. 1 (2011): 40-7.
- Knight Frank Research. "The Wealth Report 2019: The Global Perspective on Prime Property and Investment". Knight Frank, 2019.
- Kosnin, R. "Gold Dinar Acceptance in Modern Monetary System: Empirical Evidence in the Context of Gold Dinar Community in Malaysia." PhD dissertation, Institute of Graduate Studies, UiTM, Shah Alam, Malaysia, 2018.
- Kumar, B. "Theory of Planned Behaviour Approach to Understand the Purchasing Behaviour for Environmentally Sustainable Products." Working paper in Indian Institute of Management, 2012.
- Lean, Hooi Hooi, and Geok Peng Yeap. "The Inflation Hedging Ability of Domestic Gold in Malaysia." In *Causal Inference in Econometrics*, edited by Van Nam Huynh, Vladik Kreinovich, and Songsak Sriboonchitta, 227-41. Cham, Cambodia: Springer, 2016.
- Lee, J.K., and W.N. Lee. "Country-of-Origin Effects on Consumer Product Evaluation and Purchase Intention: The Role of Objective Versus Subjective Knowledge." *Journal of International Consumer Marketing* 21, no. 2 (2009): 137-51.
- Lee, B.K., and W.N. Lee. "The Impact of Product Knowledge on Consumer Product Memory and Evaluation in the Competitive Ad Context: The Item-Specific-Relational Perspective." *Psychology and Marketing* 28, no. 4 (2011): 360-87.
- Lin, L.Y., and C.S. Chen. "The Influence of the Country-of-Origin Image, Product Knowledge and Product Involvement on Consumer Purchase Decisions: An Empirical Study of Insurance and Catering Services in Taiwan." *Journal of Consumer Marketing* 23, no. 5 (2006): 248-65.
- Lo, H.Y., N. Harvey, and M. Thomson. "Information Search and Product Knowledge: Differences between Shopaholics and General Shoppers in the UK and Taiwan." *Journal of Customer Behaviour* 11, no. 4 (2012): 348-70.
- Maggioni, L., M.M. Riconscente, and P.A. Alexander. "Perceptions of Knowledge and Beliefs Among Undergraduate Students in Italy and in the United States." *Learning and Instruction* 16, no. 5 (2006): 467-91.

- Maghyereh, A.I., H. Abdoh, and B. Awartani. "Connectedness and Hedging between Gold and Islamic Securities: A New Evidence from Time-Frequency Domain Approaches." *Pacific-Basin Finance Journal* 54 (2019): 13-28.
- Martin, C.L. "Relationship Marketing: A High-Involvement Product Attribute Approach." *Journal of Product and Brand Management* 7, no. 1 (1998): 6-26.
- McCarthy, M., M. de Boer, S. O'Reilly, and L. Cotter. "Factors Influencing Intention to Purchase Beef in the Irish Market." *Meat Science* 65, no. 3 (2003): 1071-83.
- McEachern, M.G., and G. Warnaby. "Exploring the Relationship Between Consumer Knowledge and Purchase Behaviour of Value-Based Labels." *International Journal of Consumer Studies* 32, no. 5 (2008): 414-26.
- Meera, Ahamed Kameel Mydin. *The Islamic Gold Dinar*. Kuala Lumpur, Malaysia: Pelanduk Publications, 2002.
- _____, and M. Larbani. "The Gold Dinar: The Next Component in Islamic Economics, Banking and Finance." *Review of Islamic Economics* 8, no. 1 (2004): 5-34.
- _____. "Fiat Money and Interest Groups." *Ahamed Kameel* (blog). May 14, 2013. http://www.ahamedkameel.com/fiat-money-and-interest-groups/
- Mohamad, Ani Munirah, Md Nor, Mohd Zakhiri, and Nazli Mahdzir.

 "The Return to Gold Dinar: Historical and Practical Analysis."

 Paper presented at the *International Conference on Corporate Law (ICCL)*, Surabaya, Indonesia, June 2009.
- Mohamad, Wan Mohd Firdaus Wan, Azzah Amran, Syazwani A. Malek, Abdul Malek, Nor Aslily Sarkam, and Wan Saiful Azzam Wan Ismail. "A Study of the Factors That Influence Investor in Making Gold Dinar Investment at Kota Bharu, Kelantan." Paper presented at the 2nd International Conference on Management, Langkawi Kedah, Malaysia, June 2012.
- Muflih, M. "The Impossibility of Reviving Dinar and Dirham Currency System in the Modern Economy World." *Journal of Indonesian Economy and Business* 27, no. 1 (2012): 122-33.
- Muhammad, N.M.N. "Public Acceptance Towards Kelantan Gold Dinar." *Business and Management Quarterly Review* 2, no. 3 (2011): 79-87.
- Mukhtar, A., and M.M. Butt. "Intention to Choose Halal Products: The Role of Religiosity." *Journal of Islamic Marketing* 3, no. 2 (2012): 108-20.

- Mulatsih, S.N., A. Ratnasari, and D. Saepuloh. "The Role of Gold Dinar and Silver Dirham User Entrepreneurship Community in Dinar-Dirham Replacement Equipment as a Medium of Exchange." Paper presented at the 2nd International Conference on Islamic Economics, Business, and Philanthropy, Surabaya, Indonesia, 22 November 2018.
- Murphy, P.K., and P.A. Alexander. "Persuasion as a Dynamic, Multidimensional Process: An Investigation of Individual and Intraindividual Differences." *American Educational Research Journal* 41, no. 2 (2004): 337-63.
- Muthukrishnan, A.V., and B.A. Weitz. "Role of Product Knowledge in Evaluation of Brand Extension." *Advances in Consumer Research 18*, no. 1 (1991): 407-13.
- Nordin, Norizaton Azmin Mohd, Nur Hasyyati, and Abdul Halim Abdul Hamid. "Factors Influencing the Acceptance of Savings in Gold Dinar: The Case of Depok, Indonesia." Paper presented at the 3rd International Conference on Business and Economic Research, Bandung, Indonesia, March 2012.
- Omerčević, E. "Introducing Good Money: Legal Tender Problem or Question of Structured Approach?" *Danube* 5, no. 1 (2014): 53-64.
- Park, C.W., D.L. Mothersbaugh, and L. Feick. "Consumer Knowledge Assessment." *Journal of Consumer Research* 21, no. 1 (1994): 71-82.
- Philippe, A., and P.V. Ngobo. "Assessment of Consumer Knowledge and Its Consequences: A Multi-Component Approach." *Advances in Consumer Research* 26, no. 1 (1999): 569-75.
- Peie, N., S. Mohamad, M. Yusoff, N. Syahirah, A.A. Joreme, and M.A. Rosli. "Can Gold Dinar Replace Fiat Money as Currency?" *Journal of Emerging Economies and Islamic Research* 5, no. 3 (2017): 63-71.
- Raju, P.S., S.C. Lonial, and W.G. Mangold. "Differential Effects of Subjective Knowledge, Objective Knowledge, and Usage Experience on Decision Making: An Exploratory Investigation." *Journal of Consumer Psychology* 4, no. 2 (1995): 153-80.
- Selnes, F. "Subjective and Objective Measures of Product Knowledge Contrasted." *Advances in Consumer Research 13* (1986): 67-71.
- Shariff, A.H.M., A. Amran, and Y.N. Goh. "Determinants of Behavioural Intention on Sustainable Food Consumption

- Among Consumers' of Low Income Group: Empirical Evidence from Malaysia." *Journal of WEI Business and Economics* 1, no. 1 (2012): 29-38.
- Sinatra, Gale, Ralph Reynolds, and Tina Jacobson. "Knowledge and Beliefs: Empirical Investigation of Conceptual Difference." In Annual Meeting of the American Educational Research Association, Chicago. 2003.
- Smith, G.E. "Search at Different Price Levels: The Impact of Knowledge and Search Cost." *Journal of Product and Brand Management* 9, no. 3 (2000): 164-78.
- Tan, T.H. "Use of Structural Equation Modeling to Predict the Intention to Purchase Green and Sustainable Homes in Malaysia." *Asian Social Science* 9, no. 10 (2013): 181-91.
- Tarkiainen, A., and S. Sundqvist. "Subjective Norms, Attitudes and Intentions of Finnish Consumers in Buying Organic Food." *British Food Journal* 107, no. 11 (2005): 808-22.
- Tomaseti, E., and S. Ruiz. "The Evaluation of New Utilitarian and Symbolic Products: The Effect of Attribute Type and Product Knowledge." *Advances in Consumer Research* 36 (2009): 919-22.
- Verma, V.K., and B. Chandra. "An Application of Theory of Planned Behavior to Predict Young Indian Consumers' Green Hotel Visit Intention." *Journal of Cleaner Production* 172 (2018): 1152-62.
- Wang, Y., V. Wiegerinck, H. Krikke, and H. Zhang. "Understanding the Purchase Intention Towards Remanufactured Product in Closed-Loop Supply Chains: An Empirical Study in China." *International Journal of Physical Distribution and Logistics Management* 43, no. 10 (2013): 866-88.
- Worthington, A.C., and M. Pahlavani. "Gold Investment as an Inflationary Hedge: Cointegration Evidence with Allowance for Endogenous Structural Breaks." *Applied Financial Economics Letters* 3, no. 4 (2007): 259-62.
- Yaacob, S.E. "Study of Implementation Gold Dinar as Currency." *World Applied Sciences Journal* 20, no. 7 (2012): 1014-23.
- ______, S. Ahmad, and W.K. Mujani. "The Prospect of Gold Dinar as a Currency: Physical or Gold Backed?" *Energy Education Science and Technology Part B: Social and Educational Studies* 6, no. 1 (2014): 33-46.

- Yusuf, D., N.R.S.B.M. Dali, and N.M. Husin. "Implementation of The Gold Dinar: Is It the End of Speculative Measures?" *Journal of Economic Cooperation* 23, no. 3 (2002): 71-84.
- Yusuf, M.B.O., G.M. Ghani, and A.K.M. Meera. "The Challenges of Implementing Gold Dinar in Kelantan: An Empirical Analysis." *Institutions and Economies* 5, no. 3 (2017): 97-114.
- _______, A.K.M. Meera, G.M. Ghani, T.A.A. Manap, and M. Larbani.
 "Acceptance of Gold as an Alternative Currency: An
 Empirical Validation of Adoption of Innovation
 Theory." *Asian Journal of Business and Accounting* 8, no. 2
 (2015): 123-54.
- Zhou, Y., J. Thøgersen, Y. Ruan, and G. Huang. "The Moderating Role of Human Values in Planned Behavior: The Case of Chinese Consumers' Intention to Buy Organic Food." *Journal of Consumer Marketing* 30, no. 4 (2013): 335-44.
- Zhu, Y. "Using the Theory of Planned Behavior to Investigate What Influences Chinese Intention to Purchase Organic Food." *China-USA Bus. Rev* 17 (2018): 324-33.
- Zuhaimy, Ismail. *The Returns of Golden Dinar and Silver Dirham*. Skudai, Johor: UTM Press, 2003.