

elSSN: 0128-1844

Journal website: www.academicinspired.com/ijafb

DOI: 10.55573/IJAFB.106005

FROM CONCEPT TO CONSUMPTION: THE ROLE OF PRODUCT DESIGN IN SHAPING CONSUMER PREFERENCES AND BUYING DECISIONS

Muhammad Hanif Abdul Gafar^{1*} Nor Amira Mohd Ali²

¹ Faculty of Business and Management, University Teknologi Mara, 08400 Kedah, Malaysia (E-mail: hanifgafar@uitm.edu.my)

Article history To cite this document:

Received date : 18-3-2025 Abdul Gafar, M. H., & Mohd Ali, N. A. (2025). From concept to consumption: the role of product design in shaping consumer preferences and buying decisions.

Published date : 25-4-2025 International Journal of Accounting, Finance and

Business (IJAFB), 10 (60), 72 - 87

Abstract: In an increasingly competitive market, product design plays a crucial role in shaping consumer preferences and influencing purchasing decisions. Despite its significance, limited research has comprehensively examined how various design elements such as aesthetics, functionality, and sustainability have impact on the consumer behavior across different industries. This study aims to explore the intersection of product design and consumer behavior, focusing on emerging themes such as sustainable fashion consumption, neuromarketing, digital marketing, product customization, and sustainable product design. By analyzing existing literature and key theoretical frameworks, this study identifies how these themes contribute to evolving consumer preferences and market trends. A qualitative approach was adopted, utilizing a systematic review of peer-reviewed articles and emerging research trends to synthesize insights from multiple disciplines, including consumer psychology, design studies, and marketing science. The findings reveal that sustainable consumer behavior in fashion remains a consistent theme, with green marketing and corporate social responsibility initiatives significantly enhancing brand loyalty. Additionally, neuromarketing techniques demonstrate the power of emotional and sensory branding in influencing consumer decision-making. Due to the rising trends, such as digital and sustainable fashion marketing and product customization, highlight the increasing importance of personalized and transparent consumer experiences. Theoritically, the study's implications contributes to consumer behavior literature by reinforcing psychological and behavioral theories related to product design but practically, it provides businesses with actionable insights for developing sustainable, consumer-centric design strategies. However, further empirical research is needed to validate these findings through experimental and cross-cultural studies. Future research should also explore the role of AI and virtual reality in enhancing digital product experiences.

Keywords: Product Design, Consumer Behavior, Sustainable Consumption, Neuromarketing, Customization.

This work is licensed under CC BY 4.0

² Faculty of Business and Management, University Teknologi Mara, 08400 Kedah, Malaysia (E-mail: noram370@uitm.edu.my)

^{*}Corresponding author: hanifgafar@uitm.edu.my



International Journal of Accounting, Finance and Business (IJAFB)

eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb

DOI: 10.55573/IJAFB.106005

Introduction

Product design plays an essential role in shaping consumer behavior, influencing purchasing decisions through a combination of aesthetic appeal, functional value, and psychological impact. In an increasingly competitive market, businesses are leveraging design elements to differentiate their products and enhance consumer experiences. The intersection of product design and consumer behavior has been extensively studied across various disciplines, including marketing, psychology, and industrial design. Researchers have highlighted key factors such as customization, visual attention, and emotional values as critical determinants of consumer preferences (Lo, 2018; Bordegoni et al., 2023). However, a comprehensive understanding of how these elements collectively shape buying decisions remains a subject of ongoing inquiry.

As consumer expectations evolve, personalization and user-centric design approaches have gained prominence. Studies indicate that consumers prefer products tailored to their individual needs, which enhances satisfaction and strengthens brand loyalty (Dargahi et al., 2021; Moreau & Herd, 2010). Additionally, neuroscientific research suggests that visual design elements significantly influence decision-making processes, with features such as symmetry, minimalism, and packaging playing a crucial role in capturing consumer attention (Alvino et al., 2021). Despite these insights, existing research has yet to fully integrate the multifaceted impact of design on consumer behavior, leaving a gap in the literature regarding the interplay between aesthetic, functional, and emotional aspects of product design.

Thus, this study aims to bridge this gap by systematically analyzing the role of product design in shaping consumer preferences and purchasing decisions. By employing Scopus AI, this study synthesizes existing literature to identify emerging themes and conceptual frameworks within this research area. The review constructs a concept map to illustrate the relationships between key design factors and consumer behavior outcomes, providing a holistic perspective on the topic. Furthermore, insights from industry experts and recent advancements in design technologies will be incorporated to offer a forward-looking discussion on how product design will continue to evolve in response to changing consumer demands.

Following from that, the structure of this paper is as follows: First, it explores key design attributes influencing consumer behavior, including aesthetic appeal, customization, and contextual suitability. Next, it examines managerial implications, focusing on product differentiation, consumer segmentation, and sustainability-driven design approaches. Finally, the review concludes with a discussion of emerging trends and future research directions, emphasizing the potential of AI-driven design innovations in consumer markets.

Methodology

To systematically analyze the role of product design in shaping consumer preferences and purchasing decisions, this study employed Scopus AI during the trial period from March 3rd to March 18th, 2025. Scopus AI was utilized to synthesize existing literature, identify emerging themes, and construct a conceptual framework relevant to this research area. As stated in figure 1 at the end of this section, the methodology consisted of five key components: Summary, Expanded Summary, Concept Map, Topic Experts, and Emerging Themes.

In this method, the search strategy was designed to capture a comprehensive range of studies that address the intersection of product design and consumer behavior whereby the search string has been used in Scopus AI as stated below:



International Journal of Accounting, Finance and Business (IJAFB)
eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb

DOI: 10.55573/IJAFB.106005

("product design" OR "design process" OR "product development" OR "innovation") AND ("consumer behavior" OR "consumer preference" OR "buying behavior" OR "purchase decision") AND ("user experience" OR "usability" OR "customer satisfaction" OR "feedback") AND ("market research" OR "consumer insights" OR "trends" OR "segmentation") AND ("aesthetics" OR "functionality" OR "ergonomics" OR "usability testing").

The Summary feature of Scopus AI provided a high-level synthesis of the most relevant studies, allowing for the identification of overarching trends in product design and its influence on consumer behavior. This automated synthesis facilitated an efficient and structured review of key themes and research directions, ensuring that critical insights were systematically extracted from a vast body of literature. By summarizing key findings concisely, this feature enabled a more effective comparison of various studies, reducing redundancy and highlighting the most significant contributions in the field. As a result, a clear foundation was established for understanding how product design elements shape consumer preferences and decision-making processes.

Beyond this high-level synthesis, the Expanded Summary function was employed to conduct a more in-depth analysis of individual studies. This feature provided detailed insights into specific aspects of product design, such as customization, visual attention, functional values, and market segmentation. By offering a more granular exploration of these themes, the Expanded Summary allowed for a nuanced understanding of the multifaceted ways in which product design influences consumer behavior. For instance, customization has been shown to enhance consumer engagement by fostering a sense of ownership, while visual attention plays a crucial role in capturing consumer interest. Additionally, functional values, such as usability and practicality, significantly affect purchasing decisions, particularly among consumers prioritizing convenience. Meanwhile, market segmentation insights enabled a clearer understanding of how different demographic groups respond to various design elements. This deeper exploration enriched the study's findings by contextualizing broad trends within specific research contributions.

To further refine the analysis, a Concept Map was generated to visually represent the relationships between key product design factors and their influence on consumer preferences. This visual framework illustrated the interconnected nature of aesthetic appeal, usability, and emotional engagement, demonstrating how these elements collectively shape consumer decision-making. The concept map not only helped structure the literature review but also facilitated the alignment of findings with existing theoretical frameworks in design and consumer behavior. By mapping out these relationships, it became evident that effective product design is not limited to isolated attributes but rather emerges from the synergy of multiple elements working together to enhance consumer experiences. This visualization strengthened the study's analytical approach by offering a clear, structured representation of key findings.

In addition, to ensure the inclusion of expert perspectives and authoritative viewpoints, the Topic Experts function was utilized to identify leading researchers and industry professionals specializing in product design and consumer behavior. The insights gathered from these experts helped validate the study's findings by providing context on established methodologies, theoretical perspectives, and emerging debates in the field. By examining their contributions, the research benefited from a broader understanding of industry best practices, as well as the latest innovations shaping contemporary product design strategies. Furthermore, expert



ternational Journal of Accounting, Finance and Business (IJAFB) elssn: 0128-1844

> Journal website: www.academicinspired.com/ijafb DOI: 10.55573/IJAFB.106005

perspectives helped bridge the gap between academic research and practical applications, reinforcing the study's relevance to both scholarly discourse and industry advancements.

Finally, the Emerging Themes feature identified novel research directions, shedding light on the growing significance of AI-driven design, sustainability, and evolving consumer expectations. The increasing integration of artificial intelligence in product design has revolutionized the way companies personalize and optimize products for diverse consumer needs. Meanwhile, sustainability has emerged as a key factor influencing consumer preferences, with environmentally conscious design practices becoming a competitive advantage for brands. Additionally, shifting consumer expectations, driven by digital transformation and changing lifestyles, have reshaped demand patterns, emphasizing user-centric design principles. By highlighting these emerging themes, this feature provided valuable foresight into future research opportunities and practical implications for businesses seeking to align their design strategies with evolving market dynamics.

By integrating these five analytical components, this study systematically synthesizes the existing literature on product design and consumer behavior. The combination of automated summaries, in-depth analysis, conceptual visualization, expert validation, and emerging trend identification offers a holistic approach to understanding how product design influences consumer purchasing behaviors. This comprehensive synthesis not only consolidates past research but also identifies future opportunities for innovation and inquiry, contributing to a more nuanced and forward-looking perspective on the evolving landscape of product design.

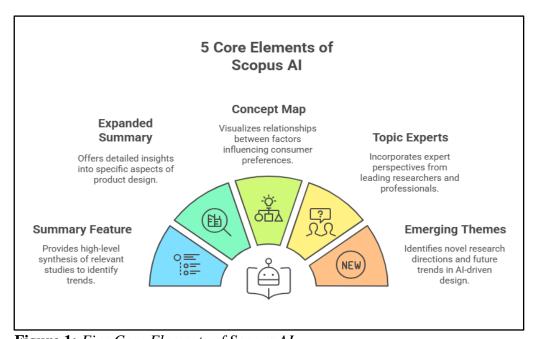


Figure 1: Five Core Elements of Scopus AI

Sources:https://app.napkin.ai

Results and Discussion

The synthesis of literature using Scopus AI has provided a comprehensive understanding of the interplay between product design and consumer behavior, revealing key insights across multiple dimensions. The Summary and Expanded Summary have highlight the growing significance of aesthetic appeal, customization, and usability as primary drivers of consumer preferences and purchasing behavior. Additionally, the Concept Map offers a structured



International Journal of Accounting, Finance and Business (IJAFB)
eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb

DOI: 10.55573/IJAFB.106005

visualization of interconnected factors, demonstrating how design attributes influence emotional and cognitive responses, ultimately in shaping consumer choices. Furthermore, insights from Topic Experts and Emerging Themes reveal a shift towards technology-integrated design, sustainable innovation, and personalization trends, which are transforming the modern consumer landscape.

Summary and Expanded Summary

The findings from this study highlight the significant role of product design in shaping consumer preferences and buying decisions. Several key factors which including aesthetic appeal, functionality, symbolism, and customization were found to have a profound influence on consumer behavior. Moreover, consumer psychology plays a crucial role in determining product affinity, while trends such as personalization and technological integration are increasingly shaping modern product design strategies.

Key Factors Influencing Consumer Preferences

First and foremost, aesthetic design is one of the most critical elements influencing consumer preferences. Research suggests that consumers often prioritize visual appeal over physical functionality, making it imperative for designers to align product aesthetics with the tastes of their target market (Lo, 2018). The aesthetic appeal is particularly important in product categories where style and design differentiation play a major role, such as mobile phones, fashion, and home decor (Kim et al., 2010). Furthermore, aesthetic principles such as symmetry, minimalism, and cohesive design contribute to consumer preference formation (Lo, 2018).

Beyond aesthetics, functionality and symbolism have significantly influence consumer preferences. While the initial attraction to a product may be driven by its visual appeal, long-term satisfaction often depends on how well the product meets consumer needs in terms of usability and performance (Kuhnle et al., 2023). Symbolism, or the meaning attached to a product, also plays a crucial role in consumer decisions. Products that convey status, values, or identity such as luxury goods or eco-friendly items can have a strong impact on consumer preference (Kumar & Noble, 2015).

Impact of Product Design on Consumer Buying Decisions

The influence of product design on consumer purchasing behavior evolves over time. At the initial stage, visual perception is a dominant factor, attracting consumers to a product through appealing design features (Kuhnle et al., 2023). However, as consumers interact with the product, other aspects such as functionality, reliability, and ergonomics become more important in shaping long-term satisfaction and brand loyalty (Singh & Sarkar, 2024). For instance, while a consumer might purchase a smartphone due to its sleek design, its usability, battery life, and software experience ultimately determine whether they remain satisfied with their choice.

Despite that, the role of customization in buying decisions has also become increasingly significant. Consumers today prefer products that can be tailored to their personal tastes and needs, a trend particularly evident in industries such as fashion, automotive, and technology (Bordegoni et al., 2023). Research indicates that customization enhances perceived product value and fosters a stronger emotional connection between the consumer and the product (Dargahi et al., 2021; Moreau & Herd, 2010). This growing demand for personalized products has led companies to incorporate flexible design features, enabling consumers to modify color schemes, materials, and even functional attributes.



International Journal of Accounting, Finance and Business (IJAFB)

elSSN: 0128-1844

Journal website: www.academicinspired.com/ijafb

DOI: 10.55573/IJAFB.106005

The Role of Consumer Psychology in Product Design

Consumer psychology plays a fundamental role in shaping product design strategies. Cognitive and emotional responses to design elements influence product affinity, with factors such as perceived quality, reliability, and usability affecting consumer decisions more than designers' instincts or experiences (Singh & Sarkar, 2024). In the automotive industry, for example, research has shown that non-visual factors such as comfort, safety, and ease of use significantly impact consumer perceptions and purchase decisions (Singh & Sarkar, 2024).

Moreover, neuroscientific studies have demonstrated that external product characteristics such as design, packaging, and labeling can influence consumer attention and decision-making processes (Alvino et al., 2021). Eye-tracking and EEG studies have revealed that certain design elements capture consumer attention more effectively, reinforcing the importance of strategic design choices in product marketing.

Current Trends in Product Design Influencing Consumer Preferences

Several emerging trends in product design are reshaping consumer preferences. Personalization and customization are at the forefront, with companies leveraging digital technologies to offer tailored product experiences (Bordegoni et al., 2023). The integration of artificial intelligence (AI) in design processes is another significant trend, particularly in industries like furniture and fashion, where AI-driven customization allows for greater user-centric product development (Wang et al., 2024).

In addition, sustainability has also become a key consideration in product design. Consumers are increasingly drawn to eco-friendly products that align with their values, leading companies to incorporate sustainable materials and production methods into their design strategies (Min et al., 2024). The demand for smart products such as smart home devices and wearable technology has further emphasized the role of technological integration in modern product design (Yang et al., 2023). These innovations reflect a broader shift towards efficiency, sustainability, and user-centric design principles which will result in buying decision.

Managerial Implications

The findings of this study have important implications for businesses and designers. Product differentiation is essential for market success, as unique design attributes can significantly influence consumer preference and purchasing decisions (Du & MacDonald, 2015). The Cancellation and Focus (C&F) model suggests that consumers place greater emphasis on distinct product features, making differentiation a key strategy for brands looking to gain a competitive edge (Du & MacDonald, 2015).

Furthermore, consumer segmentation plays a critical role in product design. Understanding the diverse preferences of different demographic groups enables companies to develop products that cater to specific target audiences (Wedowati et al., 2018). For example, younger consumers may prioritize aesthetic appeal and customization, whereas older consumers may value functionality and ease of use.

Lastly, businesses must embrace technology-driven design approaches to stay competitive. Alpowered product design, sustainable innovation, and smart technology integration can enhance product appeal and drive purchasing behavior (Wang et al., 2024; Min et al., 2024; Yang et al., 2023). By aligning design strategies with consumer psychology, technological advancements, and market trends, companies can create products that not only meet functional requirements but also resonate deeply with consumers. Hence, this study underscores the vital role of product

ternational Journal of Accounting, Finance and Business (IJAFB) elssn: 0128-1844

> Journal website: www.academicinspired.com/ijafb DOI: 10.55573/IJAFB.106005

design in influencing consumer preferences and purchasing decisions. While aesthetics often serve as the initial attraction, functionality, symbolism, and psychological factors play a more significant role in long-term product satisfaction. The increasing demand for personalized products, coupled with advancements in AI and sustainability, is reshaping the landscape of product design. To remain competitive, companies must adopt user-centric design principles, leverage technological innovations, and align their strategies with evolving consumer expectations

Concept Map

The concept map in Figure 2 illustrates the relationship between product design and consumer behavior, highlighting key factors that influence how consumers perceive, interact with, and respond to product design. It is divided into three main categories: User Interaction, Product Aesthetics, and Consumer Preferences. By illustrating these relationships, the concept map provides a structured framework for understanding how product design shapes consumer behavior. This insight is particularly valuable for designers, marketers, and researchers seeking to optimize product development strategies that align with consumer expectations.

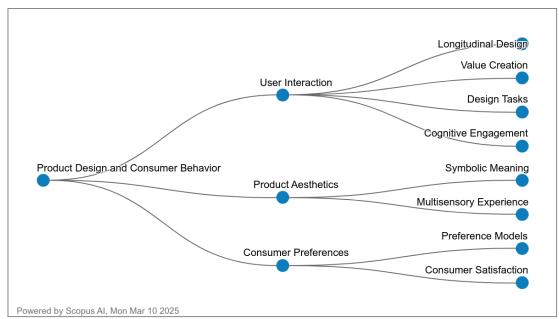


Figure 2: Concept Map of Product Design and Consumer Behavior Sources:https://www.scopus.com

Product Design and Consumer Behavior

Product design plays a crucial role in shaping consumer behavior, influencing not only purchasing decisions but also product usage and long-term engagement. Consumers today are increasingly involved in the design process, contributing to both product utility and brand identity (Kimmel, 2015). This growing consumer participation extends beyond passive consumption, as individuals actively engage in product customization and self-design, thereby creating a sense of ownership and emotional attachment to the products they purchase (Moreau, 2011). The concept of consumer-driven design has opened new avenues for research, highlighting how consumers' design choices impact their overall satisfaction and brand loyalty. Moreover, companies leveraging this trend can foster stronger relationships with customers by integrating user-generated design elements into their product development strategies (Moreau & Herd, 2010).



Volume: 10 Issues: 60 Special Issue [April, 2025] pp. 72 - 87 International Journal of Accounting, Finance and Business (IJAFB)

eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb

DOI: 10.55573/IJAFB.106005

The impact of product design extends beyond initial consumer attraction, influencing long-term user interaction and product success. Design dimensions such as aesthetics, functionality, and symbolic meaning each have distinct effects on consumer behavior, with aesthetic appeal drawing attention, functional benefits ensuring usability, and symbolic attributes reinforcing personal or social identity (Kuhnle et al., 2023). This holistic approach to design ensures that products not only meet practical needs but also resonate with consumers on an emotional level. Additionally, manufacturers can enhance consumer experiences by adopting a service-oriented design perspective, which envisions future lifestyles through an understanding of user behavior and anticipated needs (Ueda, 2009). By embedding design within a broader service context, businesses can create more meaningful interactions and foster consumer loyalty.

Furthermore, consumer evaluation of self-designed products highlights the role of social comparison in shaping purchase satisfaction. When consumers are given control over product design, their perception of the final product is influenced by how they compare their designs with those of others (Moreau & Herd, 2010). If consumers perceive their creations as superior or unique, they are more likely to feel a stronger connection to the product. Conversely, unfavorable comparisons may lead to dissatisfaction, underscoring the psychological complexity of product customization. This insight suggests that businesses should not only provide customization options but also create supportive environments that validate consumer choices. Overall, product design is a multifaceted factor in consumer decision-making, intertwining functional, aesthetic, and psychological elements to shape preferences, experiences, and long-term satisfaction.

Product Design and Consumer Behavior – User Interaction

User interaction with products plays a crucial role in shaping consumer behavior, as product design not only affects purchasing decisions but also influences long-term user engagement and satisfaction. Product design integrates aesthetic, functional, and symbolic elements, each contributing to the way consumers interact with and perceive a product (Kimmel, 2015). A well-designed product fosters an intuitive and seamless user experience, ensuring ease of use and enhancing overall product utility (MacLachlan et al., 2010). Additionally, the emotional and experiential aspects of design are becoming increasingly relevant, as consumers seek products that not only serve a functional purpose but also deliver meaningful and engaging experiences (Yang & Chen, 2008). This highlights the growing importance of user-centered design principles that prioritize consumer needs, preferences, and behaviors to create products that foster a deeper connection between the user and the product.

Furthermore, the interaction between users and products can be associated to a conversation, where design elements communicate information and guide user behavior. Products that effectively "speak" to consumers through design cues, such as ergonomics, visual appeal, and intuitive interfaces, enhance user satisfaction and long-term engagement (Oppenheimer, 2005). This interaction is especially critical in industries where product usability directly impacts consumer experiences, such as technology, automotive, and consumer electronics. Moreover, the similarity between product design and its surrounding environment plays a significant role in influencing consumer perceptions. A product that aligns well with its intended environment creates a cohesive and immersive experience, ultimately leading to more favorable cognitive and affective responses from consumers (Naderi et al., 2020). By ensuring that design elements resonate with the consumer's lifestyle and expectations, companies can create products that feel more natural and integrated into daily routines.



International Journal of Accounting, Finance and Business (IJAFB)

eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb

DOI: 10.55573/IJAFB.106005

Additionally, product design also affects consumer relationships with brands by shaping long-term usage behaviors and fostering brand loyalty. A well-designed product not only attracts consumers at the point of purchase but also retains their engagement over time, reinforcing positive brand associations (Kuhnle et al., 2023). The integration of service-oriented design processes further enhances user interaction by envisioning future consumer needs and delivering experiences that go beyond mere functionality (Ueda, 2009). Other than that, self-designed and customizable products will offer consumers a greater sense of control and ownership, enhancing their emotional attachment and overall satisfaction with the product (Moreau & Herd, 2010). As the consumer-product relationship evolves, businesses must continue to focus on designing products that prioritize user interaction, ensuring that design choices enhance both immediate usability and long-term engagement.

Product Design and Consumer Behavior – Product Aesthetics

Product aesthetics play an important role in shaping consumer behavior by influencing both purchase decisions and long-term product usage. Aesthetic elements such as shape, color, and texture create an immediate visual appeal, often triggering impulsive purchase intentions (Yang et al., 2021). Research suggests that the "aesthetic fidelity effect" influences consumer perceptions, where visually appealing products are perceived as more functional and high-quality, even in the absence of tangible functional advantages (Wiecek et al., 2019). The emotional response evoked by aesthetics further reinforces consumer preferences, as attractive designs generate positive emotions that enhance product desirability and brand attachment (Singh & Sarkar, 2022). This highlights the power of aesthetics in drawing consumer attention and creating an emotional connection that influences decision-making at the point of purchase.

Beyond initial purchase decisions, product aesthetics contribute to long-term consumer satisfaction and product loyalty. While visual appeal is the primary driver of initial attraction, the role of aesthetics evolves over time, with functional and symbolic aspects becoming more influential in product usage and retention (Kuhnle et al., 2023). The alignment between aesthetic design and consumer expectations enhances usability and reinforces brand identity, increasing consumer attachment to the product. In addition, aesthetics impact cognitive processing, as visually pleasing products are often associated with superior quality, leading consumers to form biased inferences about functionality (Crolic et al., 2019). This can sometimes override more diagnostic product information, demonstrating the complex interaction between aesthetic appeal and consumer judgment.

Despite its significance, product aesthetics remains a relatively underexplored variable in academic research, presenting opportunities for further investigation. Studies suggest a growing need for data-driven frameworks to capture the relationship between aesthetics and user experience, particularly in the context of digital and technologically advanced products (Chien et al., 2016). Additionally, descriptive research on aesthetic design processes can help businesses develop more consumer-centric products that align with psychological and emotional triggers (Jagtap & Jagtap, 2015). Understanding these dynamics is essential for companies aiming to enhance customer satisfaction through visually compelling designs that not only attract consumers but also sustain long-term engagement and loyalty.

Product Design and Consumer Behavior - Consumer Preferences

Consumer preferences play a fundamental role in shaping product design, as they influence both the functional and aesthetic aspects of a product. The interaction between consumers and





International Journal of Accounting, Finance and Business (IJAFB)

eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb

DOI: 10.55573/IJAFB.106005

product designers is complex, often involving assumptions about user needs that are not explicitly communicated (Rasoulifar et al., 2015). Consumers contribute to product design by demanding specific attributes, which, in turn, shape brand identity and enhance product utility (Kimmel, 2015). Furthermore, consumer preferences are not static but evolve over time, requiring designers to anticipate shifts in expectations and desires. Research indicates that consumer response to product design comprises cognitive, affective, and behavioral dimensions, where aesthetic, semantic, and symbolic aspects significantly impact preference formation (Zhang, 2009). This highlights the need for a consumer-centric approach in design, ensuring that products align with evolving consumer expectations.

The process of consumer preference formation is influenced by various design elements that create different types of value, including social, altruistic, functional, and emotional benefits (Kumar & Noble, 2015). Initial visual perception plays a crucial role in shaping consumer preferences, as aesthetics often drive early product attraction. However, functionality and symbolic meaning become more important during product interaction and long-term use (Kuhnle et al., 2023). Additionally, self-design features have emerged as a way for consumers to exert greater control over product attributes, leading to higher engagement and satisfaction. However, research suggests that social comparisons with other self-designed products can influence consumer evaluations, potentially diminishing perceived uniqueness or satisfaction (Moreau & Herd, 2010). This demonstrates how personal involvement in design decisions interacts with broader social and psychological factors to shape consumer preferences.

Despite the significance of consumer preferences in product design, challenges remain in fully integrating these insights into the design process. A major limitation is the difficulty in accurately capturing and translating implicit consumer needs into tangible design features (Rasoulifar et al., 2015). Besides that, while companies strive to create products that cater to evolving preferences, they must balance aesthetic appeal, functionality, and long-term usability. Future research should focus on developing frameworks that bridge the gap between consumer expectations and product development, leveraging data-driven approaches to enhance the alignment between design choices and consumer preferences. By understanding these complex relationships, businesses can create products that not only attract consumers but also foster lasting engagement and brand loyalty.

Topic Expert

The role of visual communication in consumer decision-making is a critical factor in understanding how product design influences consumer behavior. According to Grzunov, Buljat, and Zekanović-Korona (2024), visual elements serve as fundamental cues that shape consumer perceptions, preferences, and eventual purchasing decisions. In the digital environment, where consumers are exposed to a vast array of products, effective product design must prioritize visual appeal to capture attention and sustain engagement. Research highlights that elements such as color, typography, and spatial arrangement contribute to a product's perceived value and usability, reinforcing the importance of integrating cognitive psychology principles into design strategies (Grzunov et al., 2024). The ability of a product's design to convey trust, reliability, and desirability through visual communication can significantly impact consumer choices, particularly in competitive digital markets where initial impressions are formed in mere seconds.

Moreover, Zekanović-Korona et al. (2024) emphasize that visual communication in product design extends beyond mere aesthetics to include the semantic and symbolic meanings





International Journal of Accounting, Finance and Business (IJAFB)

eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb DOI: 10.55573/IJAFB.106005

embedded in design choices. Consumers interpret visual cues not only for their functional attributes but also for the emotions and associations they evoke. For instance, minimalistic design trends suggest simplicity and sophistication, while bold and vibrant designs often communicate energy and innovation. This aligns with research on visual perception, indicating that consumers subconsciously process these elements to form judgments about a product's quality and brand identity (Buljat et al., 2024). Furthermore, the interaction between visual elements and user experience plays a vital role in consumer retention, as intuitive and aesthetically pleasing designs contribute to positive brand perception and long-term customer loyalty.

Despite the growing recognition of visual communication's impact on consumer behavior, challenges remain in optimizing design strategies to align with diverse consumer expectations. As Buljat et al. (2024) suggest, the evolving digital landscape necessitates adaptive design methodologies that consider cross-cultural visual preferences, accessibility, and technological advancements. While some consumers prioritize visual aesthetics, others focus on usability and ergonomic design, necessitating a balance between form and function. Thus, future research should explore data-driven approaches to understanding consumer reactions to various design elements, integrating AI and machine learning to refine product aesthetics dynamically. By leveraging these insights, businesses can develop product designs that resonate with consumers on both a psychological and functional level, ultimately enhancing market success and brand differentiation.

Emerging Themes

The exploration of emerging themes in consumer behavior and product design reveals both consistent and rising trends that shape purchasing decisions and market strategies. One of the most enduring themes is sustainable consumer behavior in fashion, which continues to drive industry discourse. Consumers, particularly younger generations such as Generation Z, demonstrate increasing preferences for eco-friendly products, influenced by green marketing efforts and corporate social responsibility (CSR) initiatives (Jung et al., 2023). Green marketing strategies that emphasize sustainability claims, ethical sourcing, and minimal environmental impact have been shown to enhance purchase intentions and consumer trust (Kushwah et al., 2019). Additionally, CSR initiatives in the fashion industry, such as fair labor practices and sustainable sourcing, contribute to higher brand loyalty among eco-conscious consumers who seek alignment between their values and purchasing choices (Kareklas et al., 2022). As the demand for sustainability grows, brands must continually innovate their marketing strategies and ensure transparency in their sustainability claims to maintain consumer engagement.

Another consistent theme that continues to shape consumer decision-making is the intersection of neuromarketing and consumer behavior. Research in this domain leverages insights from psychology and neuroscience to understand how sensory marketing, emotional triggers, and cognitive biases influence purchasing decisions (Plassmann et al., 2019). Neuromarketing techniques, such as eye-tracking, facial recognition, and neuroimaging, provide deeper insights into subconscious consumer responses, allowing brands to tailor their marketing strategies effectively (Morin, 2011). Emotional branding strategies that leverage neuromarketing insights have been found to strengthen consumer-brand connections and drive sales by triggering positive emotional associations (Hubert & Kenning, 2008). These insights suggest that brands investing in neuromarketing research can craft highly targeted campaigns that enhance engagement and improve customer retention.



International Journal of Accounting, Finance and Business (IJAFB)
elssn: 0128-1844

Journal website: www.academicinspired.com/ijafb DOI: 10.55573/IJAFB.106005

Continuously, among the rising themes, digital and sustainable fashion marketing is gaining momentum as consumers increasingly engage with brands through digital platforms. Social media, influencer marketing, and interactive content have transformed the way consumers interact with sustainable fashion brands, influencing their perceptions and purchase behaviors (Huang & Wang, 2023). Transparency in supply chain information, facilitated by digital tools such as blockchain technology, plays a critical role in fostering trust and loyalty among consumers who prioritize ethical consumption (Mol, 2022). Additionally, product customization and consumer interaction are emerging as key trends, with personalized product offerings driving brand differentiation and customer satisfaction (Franke et al., 2010). Cultural factors significantly influence customization preferences, highlighting the need for localized marketing strategies (Jiang et al., 2021). Lastly, the rising focus on sustainable product design and user experience underscores the importance of integrating sustainability with user-centric design. Ergonomic, aesthetically pleasing designs have been found to enhance user satisfaction and adoption rates, while innovative design methods that incorporate consumer feedback contribute to product longevity and sustainability (Norman, 2013). Together, these themes highlight the evolving nature of consumer behavior and the strategic adaptations required by

Conclusion

businesses to remain competitive.

As a conclusion, this study underscores the significant role of product design in shaping consumer preferences and purchasing decisions, demonstrating how design elements influence consumer behavior through aesthetic, functional, and symbolic attributes. The findings reveal that sustainable consumer behavior in fashion remains a consistent theme, driven by increasing consumer awareness and demand for eco-friendly products. Green marketing and corporate social responsibility (CSR) initiatives significantly enhance consumer trust and loyalty, reinforcing the importance of ethical business practices in influencing purchase decisions. Similarly, the integration of neuromarketing techniques in product design and branding highlights the effectiveness of sensory and emotional stimuli in enhancing consumer engagement. Emerging themes such as digital and sustainable fashion marketing, product customization, and sustainable product design further emphasize how consumer interactions with digital platforms and personalized products are reshaping market dynamics. These insights collectively illustrate how evolving consumer preferences necessitate continuous innovation in product design, marketing strategies, and sustainability initiatives.

From a theoretical perspective, this study contributes to consumer behavior and product design literature by providing a holistic understanding of how visual and psychological factors influence consumer decision-making. The findings support established theories, such as the Theory of Planned Behavior (Ajzen, 1991) and Self-Determination Theory (Deci & Ryan, 1985), which explain how intrinsic and extrinsic motivations drive sustainable purchasing decisions. On top of that, insights from neuromarketing research further validate the role of cognitive and emotional processes in shaping consumer responses to product aesthetics and branding strategies. Practically, these findings have significant implications for designers, marketers, and business strategists, emphasizing the need for companies to integrate sustainability, customization, and digital engagement into their design and marketing efforts. Brands that effectively communicate their sustainability commitments and leverage digital tools to enhance consumer interaction are more likely to build long-term loyalty and competitive advantage. Moreover, companies can utilize neuromarketing insights to create emotionally compelling product designs and advertisements that resonate deeply with consumers.



International Journal of Accounting, Finance and Business (IJAFB)

eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb DOI: 10.55573/IJAFB.106005

Despite its contributions, this study has limitations that should be addressed in future research. First, the focus on existing literature and emerging themes limits empirical validation through direct consumer studies or experimental methodologies. Future research should incorporate quantitative methods, such as consumer surveys, eye-tracking experiments, or neuroimaging studies, to measure the actual impact of product design on consumer preferences. Besides that, further exploration should be done which highlights global consumer trends, cultural differences in product customization preferences and sustainability perceptions. Comparative studies across different markets could provide deeper insights into regional variations in consumer behavior. Lastly, with rapid advancements in artificial intelligence (AI) and virtual reality (VR) technologies, future research should examine how these innovations influence digital product experiences and consumer engagement in virtual shopping environments. By addressing these gaps, it will enhance the understanding of product design's role in consumer behavior and offer more actionable insights for industry professionals.

Acknowledgements

The authors would like to express their sincere gratitude to the Kedah State Research Committee, UiTM Kedah Branch, for the generous funding provided under the Tabung Penyelidikan Am. This support was crucial in facilitating the research and ensuring the successful publication of this article.

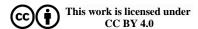
International Journal of Accounting, Finance and Business (IJAFB) eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb

DOI: 10.55573/IJAFB.106005

References

- Ajzen, I. (1991). The theory of planned behavior. Organizational Behavior and Human Decision Processes, 50(2), 179-211. https://doi.org/10.1016/0749-5978(91)90020-T
- Alvino, L., Constantinides, E., & van der Lubbe, R. H. J. (2021). Consumer neuroscience: Attentional preferences for wine labeling reflected in the posterior contralateral negativity. Frontiers in Psychology, 12, Article 688713. https://doi.org/10.3389/fpsyg.2021.688713
- Bordegoni, M., Carulli, M., & Spadoni, E. (2023). Introduction. SpringerBriefs in Applied Sciences and Technology, Part F1280, 1-10. https://doi.org/10.1007/978-3-031-39683-
- Buljat, P., Zekanović-Korona, L., & Grzunov, J. (2024). The role of visual communication in consumer decision-making in a digital environment. Proceedings of the 47th ICT and Electronics Convention, MIPRO 2024. DOI: 10.1109/MIPRO60963.2024.10569841
- Chien, C.-F., Kerh, R., Lin, K.-Y., & Yu, A. P.-I. (2016). Data-driven innovation to capture user-experience product design: An empirical study for notebook visual aesthetics design. Computers and Industrial Engineering, 99. https://doi.org/10.1016/j.cie.2016.07.006
- Crolic, C., Zheng, Y., Hoegg, J., & Alba, J. W. (2019). The influence of product aesthetics on consumer inference making. Journal of the Association for Consumer Research, 4(4), 398– 408. https://doi.org/10.1086/705033
- Dargahi, R., Namin, A., & Ketron, S. (2021). Co-production or DIY: An analytical model of consumer choice and social preferences. Journal of Product and Brand Management, 30(2), 306–319. https://doi.org/10.1108/JPBM-09-2019-2565
- Deci, E. L., & Ryan, R. M. (1985). Intrinsic motivation and self-determination in human behavior. Springer Science & Business Media. DOI.10.1007/978-1-4899-2271-7
- Du, P., & MacDonald, E. F. (2015). Products' shared visual features do not cancel in consumer decisions. Proceedings of the ASME Design Engineering Technical Conference, 7. https://doi.org/10.1115/DETC201548110
- Franke, N., Schreier, M., & Kaiser, U. (2010). The "I designed it myself" effect in mass customization. Management Science, 56(1), https://doi.org/10.1287/mnsc.1090.1077
- Grzunov, J., Buljat, P., & Zekanović-Korona, L. (2024). The role of visual communication in consumer decision-making in a digital environment. Proceedings of the 47th ICT and Electronics Convention, MIPRO 2024. DOI: 10.1109/MIPRO60963.2024.10569841
- Huang, Y., & Wang, M. (2023). The impact of social media influencers on sustainable fashion consumption. Journal of Consumer Research, 50(2), 214-230.
- Hubert, M., & Kenning, P. (2008). A current overview of consumer neuroscience. Journal of Consumer Behavior, 7(4-5), 272-292. https://doi.org/10.1002/cb.251
- Jagtap, S., & Jagtap, S. (2015). Aesthetic design process: Descriptive design research and ways Innovation. Systems and Technologies. forward. Smart 34. https://doi.org/10.1007/978-81-322-2232-3 33
- Jiang, X., Rausch, A., & Bian, Y. (2021). Cultural influences on consumer preferences for product customization. International Journal of Consumer Studies, 45(3), 567-582.
- Jung, H., Kim, Y., & Lee, H. (2023). Sustainable fashion consumption: The role of green marketing and brand authenticity. Sustainability, 15(4), 1234.
- Kareklas, I., Carlson, J. R., & Muehling, D. D. (2022). The influence of CSR on brand loyalty in the fashion industry. Journal of Business Research, 140, 678-690.
- Kim, T., Okudan, G. E., & Ertek, G. (2010). Innovation in product form and function: Customer perception of their value. Proceedings of the ASME International Design Engineering





International Journal of Accounting, Finance and Business (IJAFB) eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb

DOI: 10.55573/IJAFB.106005

- Technical Conferences and Computers and Information in Engineering Conference 2009, DETC2009, 8 (Part B), 1257–1265. https://doi.org/10.1115/DETC2009-87701
- Kimmel, A. J. (2015). People and products: Consumer behavior and product design. Routledge. https://doi.org/10.4324/9781315748917
- Kuhnle, J. S., Stokburger-Sauer, N. E., Hofmann, V., & Hebborn, H. M. (2023). Designed for success: The role of long-term user-product interaction for product design success: An abstract. Developments in Marketing Science: Proceedings of the Academy of Marketing Science, 203–204. https://doi.org/10.1007/978-3-031-24687-6_78
- Kumar, M., & Noble, C. H. (2015). The process of creating value and communicating it to the consumer: A product design perspective. Developments in Marketing Science: Proceedings of the Academy of Marketing Science, 305. https://doi.org/10.1007/978-3-319-11806-2 126
- Kushwah, S., Dhir, A., Sagar, M., & Gupta, B. (2019). Determinants of organic food consumption: A systematic literature review. Journal of Cleaner Production, 236, 117503.
- Lo, C.-H. (2018). Application of aesthetic principles to the study of consumer preference models for vase forms. Applied Sciences (Switzerland), 8(7), Article 1199. https://doi.org/10.3390/app8071199
- MacLachlan, M., Harrison, D., & Wood, B. (2010). Product experience: Introducing students to the relevance and application of design research. DS 62: Proceedings of E and PDE 2010, the 12th International Conference on Engineering and Product Design Education -When Design Education and Design Research Meet.
- Min, X., Shen, L., & Ren, X. (2024). The role of clothing technology in supporting sustainable fashion in the post-COVID-19 era. Sustainability (Switzerland). https://doi.org/10.3390/su16198287
- Mol, A. P. J. (2022). Transparency in global sustainable fashion supply chains: The role of digitalization. Environmental Innovation and Societal Transitions, 42, 52-61.
- Moreau, C. P. (2011). Inviting the amateurs into the studio: Understanding how consumer engagement in product design creates value. Journal of Product Innovation Management, 28(3), 409–410. https://doi.org/10.1111/j.1540-5885.2011.00813.x
- Moreau, C. P., & Herd, K. B. (2010). To each his own? How comparisons with others influence consumers' evaluations of their self-designed products. Journal of Consumer Research, 36(5), 806–819. https://doi.org/10.1086/644612
- Morin, C. (2011). Neuromarketing: The new science of consumer behavior. Journal of Consumer Marketing, 28(6), 429-437. DOI 10.1007/s12115-010-9408-1
- Naderi, E., Naderi, I., & Balakrishnan, B. (2020). The interactive effects of product design and environment congruence on consumers' cognitive and affective responses: An abstract. Developments in Marketing Science: Proceedings of the Academy of Marketing Science, 535–536. https://doi.org/10.1007/978-3-030-42545-6_187
- Norman, D. A. (2013). The design of everyday things. Basic Books. ISBN 978-0-465-05065-9 (pbk.)—ISBN 978-0-465-00394-5
- Oppenheimer, A. (2005). From experience: Products talking to people Conversation closes the gap between products and consumers. Journal of Product Innovation Management. https://doi.org/10.1111/j.0737-6782.2005.00104.x
- Plassmann, H., Ramsøy, T. Z., & Milosavljevic, M. (2019). Branding the brain: A critical Consumer review outlook. Journal of Psychology, 29(1), 99-113. https://doi.org/10.1016/j.jcps.2011.11.010



International Journal of Accounting, Finance and Business (IJAFB)

eISSN: 0128-1844

Journal website: www.academicinspired.com/ijafb DOI: 10.55573/IJAFB.106005

- Rasoulifar, G., Eckert, C., & Prudhomme, G. (2015). Communicating consumer needs in the design process of branded products. Journal of Mechanical Design, 137(7), Article 071404. https://doi.org/10.1115/1.4030050
- Singh, J., & Sarkar, P. (2022). Visual product assessment by using the eye-tracking equipment to study the effect of product shapes on consumer's thinking. Lecture Notes in Mechanical Engineering, 149–158. https://doi.org/10.1007/978-981-19-0676-3_12
- Singh, J., & Sarkar, P. (2024). Factual analysis of factors influencing consumer cognitive thinking and automobile designing using fuzzy-AHP. Journal of Visual Art and Design, 16(1), 50–80. https://doi.org/10.5614/j.vad.2024.16.1.4
- Ueda, Y. (2009). Proposal for service-oriented design processes. Fujitsu Scientific and Technical Journal, 45(2), 171–178.
- Wang, J., Sayuti, N. A. A., & Li, Z. (2024). Artificial intelligence innovation method for bamboo furniture based on user perception. Pakistan Journal of Life and Social Sciences. https://doi.org/10.57239/PJLSS-2024-22.1.00297
- Wedowati, E. R., Singgih, M. L., & Gunarta, I. K. (2018). A study of consumer preferences for customized product design. MATEC Web of Conferences. https://doi.org/10.1051/matecconf/201820401002
- Wiecek, A., Wentzel, D., & Landwehr, J. R. (2019). The aesthetic fidelity effect. International Journal of Research in Marketing, 36(4), 542–557. https://doi.org/10.1016/j.ijresmar.2019.03.002
- Yang, S., Ji, M., & Wang, J. (2021). Beauty of energy-saving makes you impulsive! A study on the relationship between product aesthetics and consumers' impulsive purchase intention. E3S Web of Conferences, 275, Article 02055. https://doi.org/10.1051/e3sconf/202127502055
- Yang, X., & Chen, C. (2008). Emotional interaction in product design. 9th International Conference on Computer-Aided Industrial Design and Conceptual Design: Multicultural Creation and Design CAIDCD 2008. DOI: 10.1109/CAIDCD.2008.4730517
- Yang, Y., Yu, X., Zhang, Z., & Gan, L. (2023). Integrating Technology Acceptance Model with Maslow's Hierarchy Needs Theory to Investigate Smart Homes Adoption. IEEE Access. DOI: 10.1109/ACCESS.2023.3300724
- Zekanović-Korona, L., Buljat, P., & Grzunov, J. (2024). The role of visual communication in consumer decision-making in a digital environment. Proceedings of the 47th ICT and Electronics Convention, MIPRO 2024. DOI: 10.1109/MIPRO60963.2024.10569841
- Zhang, Z. (2009). Constraints and consumer response in product design. Proceedings of the 2009 IEEE 10th International Conference on Computer-Aided Industrial Design and Conceptual Design: E-Business, Creative Design, Manufacturing (CAID & CD 2009), 205–207. https://doi.org/10.1109/CAIDCD.2009.5375202