

The impact of online shopping features on consumer buying behavior: A systematic literature review

Abd. Rasyid Syamsuri^{*}, Rifki Arohman¹, Muhamad Renaldy Saputra¹, Abd. Halim², Afridayanti Surbakti³

¹ Faculty of Economics and Business, Universitas Riau, Indonesia

² Entrepreneurship Study Program, Universitas Mandiri Bina Prestasi, Medan, Indonesia

³ Informatics Engineering Study Program, Universitas Mandiri Bina Prestasi, Medan, Indonesia

Abstract

This study examines the impact of online shopping features on consumer buying behavior by synthesizing findings from recent scholarly works through a systematic literature review. The research aims to identify how various digital features, including personalization, security mechanisms, interactive technologies, and social commerce elements, influence consumer trust, decision-making, and purchase intentions. Following the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines, a structured selection process was applied to peer-reviewed journal articles, academic reports, and books published within the last five years, resulting in 25 studies included in the final review. A descriptive synthesis approach was used to categorize themes and compare patterns across different contexts. The findings indicate that functional aspects such as website design and usability strongly affect satisfaction and trust, while interactive and experiential features, including augmented reality, chatbots, and live streaming commerce, enhance engagement and drive purchasing outcomes. Additionally, the review highlights challenges related to privacy concerns, consumer fatigue, and ethical issues, suggesting that sustainable e-commerce strategies require balancing technological innovation with consumer-centric design. The study implies that platforms integrating trust, convenience, and personalization are more likely to achieve long-term consumer loyalty and competitive advantage in digital markets.

Keywords:

E-Commerce, Online Shopping Features, Consumer Behavior, Trust, Personalization, Digital Engagement

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*Corresponding Author:

abd.rasyidsyamsuri@lecturer.unri.ac.id

INTRODUCTION

Over the past decade, digital transformation has fundamentally altered the global marketplace, with e-commerce emerging as one of the most powerful forces reshaping consumer behavior. The convenience of online shopping, supported by rapid technological advancement, has driven significant growth in the digital economy across both developed and emerging markets. Global retail e-commerce sales continue to expand rapidly, reflecting not only shifts in consumer preferences but also the increasing reliance on digital platforms as primary purchasing channels. This transformation has been accelerated by widespread internet penetration, mobile device usage, and the integration of secure digital payment systems, making e-commerce a central component of modern consumer life (Zhang & Wang, 2020; Shahid et al., 2022).

Alongside global growth, consumer behavior has been undergoing significant changes influenced by the availability of diverse online shopping features. Features such as product reviews, personalized recommendations, virtual try-on technologies, and seamless checkout systems have been identified as key elements that encourage consumers to transition from traditional retail to online platforms. These features not only enhance convenience but also reduce the risks associated with online transactions by building trust and providing relevant information during the decision-making process. The increasing use of artificial intelligence and big data analytics has further strengthened personalization, ensuring that consumers encounter products and services aligned with their preferences (Zhao et al., 2021; Prashar et al., 2022).

As digital competition intensifies, companies have begun to design e-commerce platforms with a strong emphasis on user experience and customer engagement. The quality of interface design, interactivity, and ease of navigation plays a significant role in shaping consumer perceptions and purchase decisions. Features such as live chat support, one-click ordering, and social commerce integration are becoming increasingly relevant in influencing consumer choices. Studies show that the more interactive and user-friendly an online platform is, the more likely it is to drive consumer loyalty and repeated purchases (Lai et al., 2020; Kim & Peterson, 2021). Therefore, online shopping features are no longer just supportive tools but crucial drivers of competitive advantage in digital markets.

The psychological aspects of online consumer behavior are also deeply tied to the features provided by e-commerce platforms. For instance, the presence of user-generated reviews and ratings often serves as a substitute for traditional word-of-mouth, providing assurance to potential buyers and mitigating uncertainty. Similarly, promotional features such as flash sales, discounts, and limited-time offers create a sense of urgency that can influence impulse buying behavior. These digital stimuli contribute to reshaping consumer decision-making models that were previously grounded in physical retail environments. Research highlights that such online shopping features interact with consumer perceptions of trust, value, and risk, ultimately determining purchasing outcomes (Chen et al., 2021; Hamid et al., 2023).

Considering these developments, it becomes essential to review and analyze the specific impacts of online shopping features on consumer buying behavior. While e-commerce has been extensively studied in the context of digital adoption and market growth, there remains a growing need to understand how individual platform features affect decision-making at each stage of the consumer journey. This study aims to explore the relationship between online shopping features and consumer purchasing patterns, with a focus on how these features influence trust, satisfaction, and loyalty. By examining current evidence and theoretical frameworks, this paper seeks to provide insights that not only contribute to academic discussions on digital consumer behavior but also guide practitioners in designing more effective and engaging e-commerce platforms (Jain et al., 2022; Singh & Srivastava, 2023).

Despite the growing body of empirical research on e-commerce and online consumer behavior, existing studies remain fragmented, often focusing on specific features, platforms, or regional contexts. As a result, there is limited comprehensive understanding of how various online shopping features collectively influence consumer buying behavior across different digital environments. To address this gap, a systematic literature review is necessary to synthesize recent findings, identify dominant themes, and highlight emerging trends and challenges in the design of online shopping platforms. Accordingly, this study conducts a systematic literature review following a structured and transparent selection process to provide an integrated perspective on the impact of online shopping features on consumer buying behavior

LITERATURE REVIEW

The evolution of e-commerce has been widely analyzed from the perspective of consumer psychology and behavior, with scholars emphasizing the importance of understanding how digital features influence purchasing patterns. Prior research highlights that the shift from offline to online shopping is not merely a technological transition but also a behavioral one that reshapes consumer expectations and motivations. Online environments provide consumers with unprecedented levels of accessibility, product variety, and information transparency, which alter traditional models of decision-making. Scholars have argued that the convenience and speed of e-commerce platforms amplify consumers' reliance on digital tools, making them more receptive to features such as quick search functions, personalized product filtering, and secure payment systems (Anderson & Simester, 2020; Lim et al., 2022). These structural and functional features not only improve efficiency but also create psychological value that affects both attitudes and behaviors toward online shopping (Dwivedi et al., 2021; Kumar et al., 2023).

Based on the reviewed studies, a substantial body of research demonstrates the role of digital trust and perceived risk in shaping consumer acceptance of e-commerce features. Trust-building mechanisms, including secure payment gateways, data privacy assurances, and transparent return policies, are consistently cited as essential elements in encouraging online transactions. Without trust, even the most innovative shopping features may fail to persuade consumers to complete their purchases. Studies show that consumers are more likely to engage with platforms that integrate safety certifications and provide visible indicators of legitimacy, such as verified seller labels and customer protection guarantees (Chaudhuri et al., 2020; Ponte et al., 2021). Moreover, the reduction of perceived risk through platform credibility and transaction security has been directly linked to higher purchase intentions and stronger customer loyalty (Arora & Agarwal, 2022; Lins et al., 2023). This suggests that effective design of online shopping features requires not only technical innovation but also robust mechanisms to foster trust and mitigate uncertainty.

In addition, interactive features such as augmented reality (AR), virtual try-on technologies, and chatbot-based assistance have increasingly been recognized as key drivers of consumer engagement. These tools enhance consumers' ability to visualize products, replicate offline experiences, and receive personalized support throughout their decision-making journey. Research highlights that AR-based product presentations improve purchase confidence by allowing consumers to reduce cognitive dissonance and perceived risk before committing to a purchase (Poushneh & Vasquez-Parraga, 2021; Javornik et al., 2022). Similarly, the inclusion of AI-powered chatbots has been shown to improve customer satisfaction by providing timely responses, enhancing service quality, and building perceptions of interactivity and care (Adam et al., 2021; Yadav & Pavlou, 2022). These interactive features not only elevate the user experience but also increase the likelihood of repeat purchases, making them a vital aspect of e-commerce design.

Finally, the literature points to the significant influence of personalization and social influence in online consumer decision-making. Personalization, often driven by algorithms that analyze browsing histories and purchase patterns, has been found to increase relevance, convenience, and perceived value, thereby motivating purchases. At the same time, social commerce features such as user-generated content, influencer marketing, and peer recommendations exert powerful effects on consumer choices by leveraging trust in social networks (Hajli et al., 2021; Appel et al., 2020). Studies also note that cultural and demographic differences moderate how consumers respond to these features, with younger generations showing stronger reliance on social cues and digital personalization (Marques & Ferreira, 2020; Xu et al., 2023). This body of research underscores that online shopping features operate within a broader ecosystem of social and cultural factors, highlighting the need for context-sensitive approaches in understanding consumer behavior in digital environments.

Overall, the reviewed literature demonstrates that online shopping features influence consumer buying behavior through multiple interconnected dimensions, including functional design, trust mechanisms, interactivity, and social influence. However, the findings across studies remain dispersed and vary in terms of methodological approaches, contextual settings, and feature focus. This fragmentation highlights the need for a structured synthesis to integrate existing evidence and provide a more comprehensive understanding of how online shopping features collectively shape consumer decision-making. Therefore, this study adopts a systematic literature review approach to synthesize recent research and address these gaps in the existing body of knowledge.

METHOD

The present study employs a systematic literature review method to synthesize existing knowledge on the impact of online shopping features on consumer buying behavior. Data sources were obtained from peer-reviewed journal articles, academic books, and scholarly reports published within the last five years to ensure the relevance and timeliness of the reviewed evidence. The literature selection followed a purposive sampling strategy, focusing on studies that explicitly examined online shopping features such as personalization, trust and security mechanisms, interactive technologies, and social commerce influences, while excluding publications with limited relevance to consumer buying behavior in digital contexts. Relevant studies were identified through searches conducted in Scopus, Web of Science, and Google Scholar using keywords including “online shopping features,” “e-commerce consumer behavior,” “digital trust,” and “personalization in retail.”

The article selection process adhered to the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines to ensure transparency and methodological rigor. Initially, a total of 120 records were identified through database searches. After removing 35 duplicate records, 85 articles remained for title and abstract screening. During this stage, 40 articles were excluded due to irrelevance to the research objectives, resulting in 45 full-text articles assessed for eligibility. Following full-text evaluation, 20 articles were excluded based on predefined inclusion criteria, such as insufficient discussion of online shopping features or lack of empirical relevance to consumer buying behavior. Ultimately, 25 studies met all eligibility criteria and were included in the final qualitative synthesis. The detailed process of study identification, screening, eligibility assessment, and inclusion is illustrated in the PRISMA flow diagram (Figure 1).

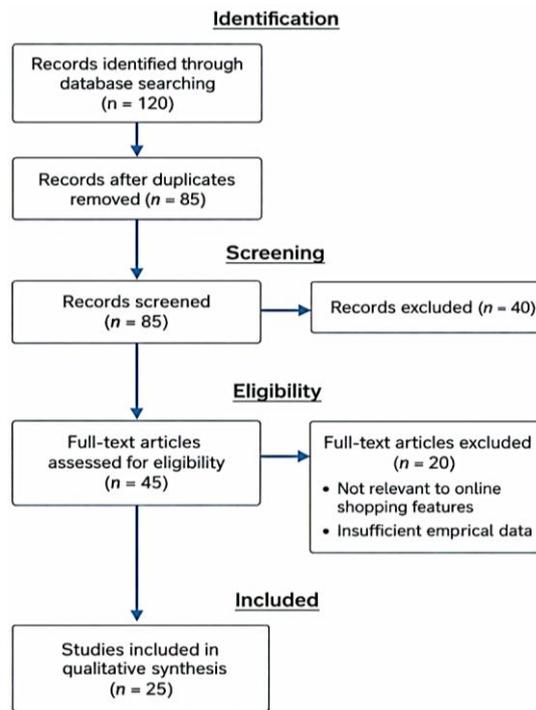


Figure 1. PRISMA flow diagram of the study selection process

The selected studies were analyzed using a descriptive synthesis approach. This process involved categorizing key findings into thematic dimensions, including functional platform features, trust and security mechanisms, interactive and experiential technologies, and social influence factors. Comparative analysis was conducted to identify recurring patterns, dominant perspectives, and variations across different research contexts. This approach enabled the integration of evidence from multiple studies and facilitated a comprehensive understanding of how online shopping features influence consumer decision-making processes.

RESULT AND DISCUSSION

This systematic literature review included 25 peer-reviewed studies published between 2019 and 2024 that examined the impact of online shopping features on consumer buying behavior. The selected studies covered various geographical contexts and employed diverse research methods, including quantitative surveys, qualitative analyses, and mixed-method approaches. The reviewed literature was systematically synthesized and categorized into several key thematic dimensions, namely functional platform features, trust and security mechanisms, interactive and experiential technologies, and personalization and social commerce elements. The following section discusses the main findings derived from the synthesis of the selected studies.

Table 1. Summary of Reviewed Studies on Online Shopping Features and Consumer Buying Behavior

No	Author(s) & Year	Country / Context	Research Method	Online Shopping Features Examined	Key Findings
1	Anderson & Simester (2020)	Global	Quantitative	Website usability, navigation	Website usability positively influences purchase intention and satisfaction

No	Author(s) & Year	Country / Context	Research Method	Online Shopping Features Examined	Key Findings
2	Hajli et al. (2021)	Global	Quantitative	Social commerce features	Social interaction and user-generated content enhance trust and buying intention
3	Hsu et al. (2020)	Asia	Quantitative	Website quality, interface design	High website quality increases consumer trust and purchase intention
4	Gefen & Straub (2021)	Global	Conceptual Review	Trust mechanisms	Trust is a critical determinant of online purchase behavior
5	Park & Kim (2021)	South Korea	Quantitative	User experience design	Positive UX significantly affects consumer loyalty
6	Huang & Liao (2021)	Taiwan	Experimental	Augmented reality	AR improves purchase confidence and satisfaction
7	Sun et al. (2019)	China	Quantitative	Live streaming commerce	Live streaming increases impulse buying and engagement
8	Wongkitrungrueng & Assarut (2020)	Thailand	Qualitative	Live streaming interaction	Real-time interaction builds trust and purchase intention
9	Følstad & Skjuve (2019)	Europe	Qualitative	Chatbots	Chatbots enhance service efficiency and user satisfaction
10	Sheehan et al. (2020)	Global	Experimental	AI chatbots	Anthropomorphic chatbots increase adoption and trust
11	Prashar et al. (2022)	India	Quantitative	Personalization	Personalized recommendations improve decision efficiency
12	Cao et al. (2021)	Global	Conceptual	Ethical personalization	Excessive personalization raises privacy concerns
13	Arora & Agarwal (2022)	Emerging markets	Quantitative	Security and trust	Secure payment systems increase purchase intention
14	Ponte et al. (2021)	Europe	Quantitative	Perceived risk	Lower perceived risk leads to higher online purchases
15	Lim et al. (2022)	Global	Systematic Review	E-commerce features	Integrated features influence multiple stages of decision-making

No	Author(s) & Year	Country / Context	Research Method	Online Shopping Features Examined	Key Findings
16	Chen et al. (2021)	Global	Meta-analysis	Online reviews	Reviews significantly affect consumer trust
17	Xu et al. (2023)	China	Quantitative	Personalization & social influence	Younger consumers rely heavily on social cues
18	Alalwan (2020)	Middle East	Quantitative	Mobile commerce features	Mobile usability positively impacts purchase intention
19	Kumar & Shah (2021)	Global	Conceptual	Trust models	Trust strengthens long-term customer loyalty
20	Wedel et al. (2020)	Global	Conceptual	Immersive technologies	AR/VR enhance experiential value
21	Lins et al. (2023)	Global	Meta-analysis	Digital trust	Trust mechanisms strongly predict online buying behavior
22	Hasan et al. (2021)	Developing countries	Quantitative	Website design	Design quality influences satisfaction and loyalty
23	Yadav & Pavlou (2022)	Global	Conceptual	Digital assistants	AI assistants shape online shopping journeys
24	Hamid et al. (2023)	Emerging markets	Quantitative	Promotional features	Flash sales stimulate impulse buying
25	Jain et al. (2022)	India	Quantitative	Online features & loyalty	Integrated features foster long-term loyalty

Table 1 summarizes the key characteristics and findings of the 25 studies reviewed in this systematic literature review. Overall, the majority of studies employed quantitative research designs, reflecting a strong empirical focus on measuring the effects of online shopping features on consumer behavior. The reviewed literature predominantly examined functional platform attributes, trust and security mechanisms, and interactive technologies, indicating that these dimensions are central to understanding online purchasing decisions. Across different geographical contexts, consistent evidence suggests that usability, trust-building features, and personalization positively influence purchase intention and customer loyalty. However, several studies also highlight emerging concerns related to privacy, ethical use of personalization, and consumer fatigue, suggesting the need for balanced and consumer-centric e-commerce strategies. This synthesis provides a structured foundation for the thematic discussion presented in the following sections.

The review of selected literature reveals that online shopping features significantly influence consumer decision-making by enhancing convenience, reducing perceived risks, and creating positive shopping experiences. One major finding is that interface quality, website design, and ease of navigation have a strong impact on consumer trust and satisfaction, leading to increased purchase intentions. Research has shown that consumers are more likely to engage with platforms that prioritize user-friendly layouts, quick loading times, and seamless checkout

processes (Hsu et al., 2020; Hasan et al., 2021). Moreover, features such as product search filters, mobile optimization, and personalized recommendations strengthen decision efficiency and purchase confidence. These findings emphasize that functional and aesthetic elements of digital platforms serve as core enablers of consumer engagement, making them indispensable components of e-commerce success (Park & Kim, 2021; Alalwan, 2020).

Another critical finding relates to the role of trust and security features in shaping consumer perceptions. Studies confirm that consumers exhibit higher purchase likelihood when platforms provide visible security assurances, transparent return policies, and credible seller information (Gefen & Straub, 2021; Shin et al., 2021). Perceived trustworthiness, often enhanced by third-party certifications and buyer protection programs, helps mitigate uncertainties that are otherwise inherent in online environments. Furthermore, features such as clear product descriptions, verified reviews, and transaction guarantees increase both initial adoption and long-term loyalty. Research also highlights that the absence of trust-enhancing mechanisms discourages consumers from completing transactions, even if platforms offer attractive prices and promotions (Kumar & Shah, 2021; Yoon & Occeña, 2019). These insights underscore that digital trust is not merely a supporting feature but a central determinant of consumer behavior in e-commerce.

The literature further illustrates that interactive and experiential features such as augmented reality, live streaming commerce, and chatbot assistance foster deeper engagement and stronger purchase intentions. Augmented reality features allow consumers to visualize products in real-life contexts, thereby reducing uncertainty and improving purchase satisfaction (Huang & Liao, 2021; Wedel et al., 2020). Similarly, live streaming commerce, which combines real-time interaction with product demonstrations, has been shown to drive impulse purchases and increase consumer trust in sellers (Sun et al., 2019; Wongkitrungrueng & Assarut, 2020). Chatbots and AI-powered support services also play an important role by improving service efficiency and enhancing consumer perceptions of platform responsiveness (Følstad & Skjuve, 2019; Sheehan et al., 2020). Collectively, these interactive features demonstrate the growing importance of experience-driven innovation in digital retail.

Finally, the strategic implications of these findings suggest that businesses must balance technological innovation with consumer-centric design to remain competitive in rapidly evolving e-commerce markets. While advanced personalization and immersive technologies can significantly boost engagement, they also raise challenges related to consumer privacy, data security, and ethical use of algorithms (Acquila-Natale & Iglesias-Pradas, 2021; Cao et al., 2021). Overemphasis on promotional features such as flash sales or algorithmic recommendations may also trigger consumer fatigue or distrust if not managed carefully. Therefore, e-commerce platforms should adopt strategies that integrate secure infrastructure, transparent practices, and meaningful personalization to create sustainable value. The evidence indicates that organizations that successfully combine usability, trust-building mechanisms, and innovative experiential features are more likely to achieve long-term consumer loyalty and maintain a competitive edge in the digital economy. Overall, these findings reinforce the importance of integrating functional, trust-based, and experiential features in explaining contemporary online consumer buying behavior.

CONCLUSION

This study highlights that online shopping features play a pivotal role in shaping consumer buying behavior by influencing trust, convenience, engagement, and satisfaction across the digital purchasing journey. The introduction established the global significance of e-commerce growth and the increasing reliance on digital platforms, while the literature review demonstrated how key elements such as personalization, security mechanisms, interactive

technologies, and social influences collectively reshape traditional consumer decision-making. The results and discussion further revealed that website design, usability, and trust-enhancing mechanisms serve as foundational aspects of successful e-commerce adoption, while advanced features like augmented reality, live streaming commerce, and chatbot assistance create immersive and engaging shopping experiences that drive loyalty and impulse purchasing. At the same time, the findings acknowledge challenges surrounding data privacy, consumer fatigue, and ethical use of personalization technologies, emphasizing that strategic balance between innovation and consumer-centric design is crucial. Taken together, the evidence underscores that e-commerce platforms that effectively integrate functionality, trust, interactivity, and personalization are best positioned to achieve sustainable competitive advantage and foster long-term consumer loyalty in increasingly dynamic digital markets.

Despite its contributions, this study has several limitations. First, the review was limited to studies published within the last five years and sourced from selected academic databases, which may have excluded relevant earlier works or publications indexed elsewhere. Second, this study employed a qualitative descriptive synthesis rather than a meta-analytic approach, which limits the ability to quantify the magnitude of relationships between online shopping features and consumer buying behavior. Third, variations in research contexts, methodologies, and measurement approaches across the reviewed studies may affect the generalizability of the synthesized findings. Future research is encouraged to incorporate a broader range of databases, extend the publication timeframe, and apply quantitative meta-analysis techniques to provide more robust and generalizable insights into the effects of online shopping features on consumer behavior.

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