Abstract: Why does the continued use of social commerce platforms fail to promote consumer wellbeing? This study explores the roles of influencers, informational incentives and fear of missing out (FoMO) in the relationships between social commerce platform use and consumer mental health. Data were obtained through questionnaires, as well as constructing a research model. Statistical analysis and path analysis of the structural equation model were performed by the software IBM SPSS and AMOS, and the following results were obtained. (1) Influencer expertise and interactivity, informational incentives and FoMO have a significant impact on consumers’ continued use of social commerce platforms. (2) Materialism has no significant effect on consumer social commerce platform use. (3) FoMO mediates the relationships between informational incentives and continued use of social commerce platforms. (4) Consumers’ continuous use of social commerce platforms has a strong relationship with mental health. (5) Continued use of social commerce platforms can lead to intense social engagement, as well as more severe outcomes such as psychological anxiety and compulsive buying. The findings of the paper have important implications for the development of social business theory and management practice.

Keywords: influencer marketing; social commerce; FoMO; mental health; informational incentives; materialism; social engagement; psychological anxiety; compulsive buying

1. Introduction

With the development of social networking sites (SNSs), mobile e-commerce and mobile payment technologies, social commerce has gained a new round of rapid renewal, and more emerging social commerce platforms have sprung up. Social commerce refers to the phenomenon of applying socialized elements such as attention, sharing, communication, discussion and interaction to the e-commerce transaction process. Social commerce platforms refer to apps and websites that support social commerce activities, such as Xiaohongshu, Mogujie, Kwaishop, Douyin, etc., which developed in the Chinese context. There are similar social commerce platforms in other countries around the world, such as Amazon Shopping, OfferUp, Instagram, Facebook, and so on.

Specifically, from the perspective of consumers, social commerce is reflected in both the selection of stores and comparison of products before purchase, communication and
interaction with social media influencers (SMIs) and e-commerce enterprises through social commerce platforms, and evaluation and sharing of experiences after purchase. From the perspective of e-commerce enterprises, through the web 2.0 applications and cooperation with social media influencers, they can complete the marketing, promotion and final sales of their products. Social commerce has two core features: first, it has the role of a shopping guide; second, there is interaction and sharing between users or between users and enterprises.

Research on social commerce emerged at the same time as business practices, and academic research on social commerce received extensive attention from scholars at the early stage [1–4]. For example, Zheng et al. (2013) developed a semi-supervised system (ORQM) for estimating the quality of online reviews in social commerce and found that social features contribute most to the system [5]. Kim et al. (2013) proposed the major characteristics of social commerce and emphasized that trust directly affects two variables (purchase and word-of-mouth intentions) of trust performance [6]. Hajli (2015) suggested that consumers use social commerce to interact and generate content, which in turn increases perceived trust and purchase intent [7].

With the enhancement of the integration of social networking sites and e-commerce and the emergence of new social commerce platforms, academic research in the context of social commerce has gained a lot of new research results [8–12]. For example, Chen et al. (2015) investigated the decision-making mechanisms of consumers in a social commerce context [13]. Shanmugam et al. (2016) and Doha et al. (2019) studied the application of social commerce structures [14,15]. Lee et al. (2015) and Li et al. (2018) studied the role of likes (thumbs-up) in the context of social e-commerce [16,17]. In addition, trust has been widely studied as an important feature in social commerce [18–21].

The continued use of social commerce platforms, like the use of traditional social media and smart-phones, has brought convenience to consumers in shopping but also brought various problems to consumers’ life and learning, such as anxiety, depression, distraction, insomnia and compulsive buying [22]. Continued use of social commerce platforms in this study refers to consumers increasing or maintaining the frequency of their previous use, as well as continuing to use their current social commerce platforms.

According to the literature, it was found that there is less research on the impact of the continued use of social commerce platforms on consumers’ lives, learning and mental health. There is insufficient research on the antecedents and consequences of the continued use of social commerce. Therefore, there is an urgent need to explore this issue in the current social commerce field. We mainly discuss the impact of the use of social commerce platforms from FoMO, psychological anxiety and compulsive buying, and conduct a review of existing related research.

This study empirically examines the antecedents and consequences of consumers’ continued use of social commerce platforms. The theoretical value of this work is to fill the gap in research on relationships between the continued use of social commerce platforms and consumers’ psychological wellbeing. Moreover, it has important implications for marketing practices and customer management on social commerce platforms.

2. Literature Review

2.1. SSO Framework

The SSO theoretical framework was first proposed by Koeske et al. and applied to study the relationship between managers’ mental health and professional performance [23]. Subsequently, the theoretical framework has been widely used [24,25], including being applied to the use of technology [26]. The SSO theoretical framework consists of three main components: stressor(s), strain and outcome(s).

In this paper, we use the SSO framework to analyze the antecedents and consequences of social commerce platform use and consumers’ mental health. The stressors of continuous use of social commerce platforms are social media influencers (expertise/interactivity), informational incentives (information promotions/discount) and personal trait (materi-
alism). The strains are fear of missing out and continued use of social commerce platforms. The outcomes are social engagement, social support, psychological anxiety and compulsive buying.

2.2. Fear of Missing Out

With the rapid development of social APPs/websites, such as WeChat, Twitter, TikTok, etc., dependence on social media websites and mobile apps has become a common phenomenon, leading to the popularity of a new term: “fear of missing out”. Fear of missing out (FoMO) is defined as “a pervasive apprehension that others might be having rewarding experiences from which one is absent” [27]. FoMO is a consequence of social media use [28], social network site use [29,30] and problematic smartphone use [31,32]. In the past decade, FoMO has received extensive attention from scholars all over the world, and many important research results have been achieved. As shown in Table 1, the representative literature of FoMO-related research is given.

Table 1. Representative literature of FoMO-related research.

| Author(s)/Year          | FoMO as Variable | Variables Related to FoMO                                                                 | Findings                                                                 |
|-------------------------|------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Przybylski, et al. (2013) [27] | MEV              | Individual differences; social media engagement                                        | Demographics, motivations, behaviors, emotions and well-being relate to FoMO. |
| Alt, D. (2015) [33]     | MEV              | Academic motivations; social media engagement                                            | FoMO mediates the relationship between social media engagement and motivational factors. |
| Beyens, I. et al. (2016) [34] | MEV              | Need for popularity; need to belong; Facebook use                                        | Teens with high FoMO use Facebook more intensively and are more stressed when they are unpopular on social media. |
| Oberst, U. et al. (2017) [35] | MEV              | Anxiety; depression; social network intensity; negative consequences                    | Both FoMO and SNI mediate the link between psychopathology and negative consequences. |
| Elhai, J. D. et al. (2018) [36] | IV               | Negative affectivity; problematic smartphone use (PSU) severity                          | FoMO is associated with the severity of problematic smartphone use (PSU). |
| Dhir, A. et al. (2018) [37] | IV               | Depression; anxiety; SNS fatigue; compulsive SNS use                                     | Compulsive media use mediates between FoMO and social media fatigue.      |
| Chai, H. Y. et al. (2019) [38] | MOV              | SNS use; social overload; subjective well-being                                         | FoMO moderates the relationship between SNS use and subjective well-being. |
| Holte, A. J. et al. (2020) [39] | DV               | Anxiety; boredom proneness; depression; anxiety attachment                              | Boredom proneness mediated the relationship of FoMO with anxiety and depression. |
| Roberts, J. A. et al. (2020) [40] | IV               | Social media intensity; social connection; psychological wellbeing                      | FoMO impacts subjective well-being through its impact on social media intensity and social connection. |
| Servidio, R. et al. (2021) [31] | MEV              | Narcissism; psychopathy; machiavellianism; PSU                                        | FoMO partially mediated the association between narcissism and PSU.       |

Table 1 was compiled by the authors from the literature. IV indicates independent variable; DV indicates independent variable; MOV indicates moderator variable; MEV indicates mediator variable.

2.3. FoMO in Marketing

Psychologists generally treat FoMO as an enduring psychological phenomenon independent of context-specific influences [27]. However, to better understand its influence on consumer behavior, FoMO should be defined as a context-specific anxiety. In recent years, FoMO has received widespread attention from marketing scholars and practitioners. As shown in Table 2, the main literature of FoMO-related marketing research is given.
Table 2. Representative literature of FoMO-related marketing research.

| Author(s)/Year          | FoMO as Variable | Variables Related to FoMO | Findings                                                                 |
|-------------------------|------------------|---------------------------|--------------------------------------------------------------------------|
| Çelik, I. K. et al. (2019) [41] | IV               | Impulse buying; post-purchase regret | FoMO in sales increases impulse buying, and impulse buying increases post-purchase regret. |
| Kang, I. et al. (2019) [42] | IV               | Conformity consumption; evaluation processes | The stability and attention caused by FoMO has led to an excessive submissiveness to the consumption of culture-related brands. |
| Hodkinson, C. (2019) [43] | Type of appeals | Participation decision, post-decision and emotional response | A 2 × 2 FoMO-appeal classification scheme comprising commercial vs. noncommercial and personal vs. impersonal. |
| Hayran, C. et al. (2020) [44] | DV               | Loyalty, redo intentions; job satisfaction | FoMO reduced immediate satisfaction and a subsequent intention to repeat the experience. |
| Kim, J. et al. (2020) | IV, MOV          | Intrinsic constrains; extrinsic constraints; behavioral intention | FoMO poses a threat to loyalty by decreasing one’s intentions to repeat a current experience. |
| Kang, I. et al. (2020) [45] | MOV              | Emotional needs; social-identity needs; brand involvement; informational/normative herd behavior | For psychological comfort, high FoMO consumers may be prone to develop high brand engagement, leading to their collective consumption of certain luxury brands. |
| Good, M. C. et al. (2020&2021) [46,47] | IV               | Self-enhancement; anticipated expense regret; purchase likelihood | FoMO-laden appeals can influence consumers’ purchase intentions, can strengthen purchase intentions or weaken purchase intentions. |
| Karimkhan, F. et al. (2021) [48] | DV               | Collectivism; individualism; ethnic identity | Collectivism and ethnic identity appear to be strongly correlated with FoMO. |
| Neumann, D. et al. (2021) [49] | IV               | Attitude formation; information processing; Instagram participation | High (vs. low) FoMO expresses more favorable views of online products after being exposed to Instagram content. |

Table 2 was compiled by the authors from the literature. IV indicates independent variable; DV indicates independent variable; MOV indicates moderator variable; MEV indicates mediator variable.

3. Research Hypothesis and Model

3.1. Influencer Traits

There are many factors that contribute to consumers’ use of social commerce platforms. From the perspective of social media influencers two factors, expertise and interactivity, are important. An influencer’s expertise is the relevant knowledge, experience or skills that the influencer possesses and conveys to his or her followers [6]. Social media influencers demonstrate their expertise in various ways to attract consumers to use social media applications and engage in interaction [50]. For example, in hotel social media marketing, the influencers are some media people with expertise in hotels [51]. Lou and Yuan (2019) stated that an influencer is an individual with expertise in a specific field who develops a significant number of followers who are of marketing value to the brand by regularly posting valuable content on social media [52]. Ki and Kim (2019) indicated that an influencer is an individual who builds credibility among followers based on knowledge of a specific topic and professional qualities [53]. All of the above literature suggests that influencers in social media need to have specialized knowledge.

Another factor that influences consumers’ use of social commerce platforms is interactivity [54]. Xue et al. (2020) state that immediate interaction positively affects perceived usefulness and negatively affects perceived risk and psychological distance, and facilitates social commerce engagement [55].

Therefore, we propose the following Hypothesis H1.
**Hypothesis (H1).** Influencer expertise and interactivity are positively correlated with consumers’ continued use of social commerce platforms.

3.2. Informational Incentives

In this study, information incentives refer to promotion and discount information provided by social commerce platforms, and product experience information shared by platform influencers.

Social commerce platforms will entice consumers to use and shop through information incentives such as numerous advertisements and promotions [16,56]. When studying the Alibaba Double Eleven Shopping Festival, Xu et al. (2017) pointed out that an informational incentive is perceived as enhancing the individual’s knowledge about the activities and is inherently conducive to the maximization of people’s perceived values regarding behaviors [57]. Promotional information refers to a variety of marketing information to advertise activities and products. Such information usually entices and motivates potential consumers to collectively join the shopping activities [58,59]. Accordingly, we propose Hypothesis H2.

**Hypothesis (H2).** Information incentives are positively correlated with consumers’ continued use of social commerce platforms.

3.3. Fear of Missing Out

Fear of missing out (FoMO) leads to higher intensity and willingness of users to use social media sites or mobile apps. For example, Roberts et al. (2020) found that FoMO had a significant effect on social media intensity and social connection [40]. Elhai et al. (2020) also revealed that FoMO was related to social and problematic smart-phone use (PSU) severity [60]. Beyens et al. suggested that adolescents’ FoMO is positively associated with perceived stress related to Facebook use [34].

Meanwhile, FoMO is a common phenomenon in the current mobile internet era. In the context of social media marketing and influencer marketing, FoMO is widely used in marketing [43]. Thus, advertising content in social media that appeals to missing-out anxiety leads to higher intensity social media use [61]. Weideinger et al. (2021) investigated whether adding FOMO messages to Facebook ads improved consumers’ recall of the ads. The results found that consumers performed better in both recall and recognition of ads when FOMO content was present [62]. Karimkhan et al. (2021) found that FoMO had a significant impact on consumer impulsive buying behavior and was also strongly correlated with collectivism, ethnic identity and culture [48]. The presence of FoMO will eventually generate a higher probability of purchasing behavior. For example, Good et al. (2020 and 2021) studied the direct and indirect effects of FoMO appeals on purchase likelihood, and suggested that FoMO-laden appeals can influence consumers’ purchase intentions [46,47]. Based on the above literature, we propose the following Hypotheses H3 and H4.

**Hypothesis (H3).** FoMO positively affects consumers’ continued use of social commerce platforms.

**Hypothesis (H4).** FoMO mediates the relationships between informational incentives and continuous use of social commerce platforms.

3.4. Materialism

According to existing research literature, the authors found that the internal factors of individuals who use social e-commerce platforms mainly include individual negative emotions and individual materialistic tendencies [63,64]. Among them, individual negative emotions have been extensively studied in the use of social media, and a more consistent research conclusion has been obtained. In the context of purchasing luxury goods, there is related research on the tendency of individual materialism [65,66]. However, in the context of social e-commerce, and when buying daily necessities and common products, will the tendency of individual materialism have an impact and will that impact be exacerbated...
by information incentives? At present, there is still a lack of research on the above issues. Therefore, this study will explore the influence of individual materialism on the continuous use of social e-commerce platforms, and the follow-up results.

Building on Rokeach’s conceptualization, Mick (1996) defines materialism as a “set of centrally held beliefs about the importance of possessions in one’s life” [67]. Burroughs et al. (2002) examined the relationship between high levels of materialism and subjective well-being and found that conflicting values can lead to psychological tension, which can reduce well-being [68]. Analysis of questionnaires from 204 adults by Fitzmaurice et al. reveals that materialism is significantly correlated with social consumption motives and opinion leadership [69]. Lee et al. (2021) analyzed consumers’ motivations for following SMIs on Instagram from a consumer social psychology perspective, and found that the four motivations for following influencers were authenticity, consumerism, creative inspiration and envy [51]. Therefore, we propose the following Hypothesis H5.

**Hypothesis (H5).** Materialism is positively associated with consumers’ continued use of social commerce platforms.

### 3.5. Social Engagement

The persuasion of social media influencers and the informational incentives of social commerce platforms are aimed at getting consumers to engage and buy [70,71]. Social commerce platforms provide consumers with valuable information and facilitate consumer information sharing [72]. Tajvidi et al. (2020) studied the relationship between consumer content production and value co-creation and found that information sharing, social support and relationship quality were significantly correlated with corporate brand value creation [73]. Gvili et al. (2021) investigated the relationship between online shopping culture and consumer experience and brand information sharing in the context of social commerce, and the findings reveal that consumer experience is indirectly related to brand information sharing [74].

In addition, social media influencers interact with consumers through social commerce platforms to enhance consumer social engagement. For example, Wang (2020) proposed a model and employed datasets obtained from Douban.com to empirically investigate informational support on consumers’ engagement, and revealed that the two sub-dimensions of social supportive information are positively related to consumer involvement [75].

Based on the above literature, we propose the following Hypotheses H6 and H7.

**Hypothesis (H6).** The continued use of social commerce platforms positively influences consumer social engagement.

**Hypothesis (H7).** The continued use of social commerce platforms positively affects consumers’ access to information support.

### 3.6. Psychological Anxiety

It is common knowledge that inappropriate use of social media applications and smart-phones can bring about mental health problems. For example, Dhir et al. (2018) used the SSO theoretical framework to investigate the relationship between social media fatigue and psychosocial well-being, revealing that compulsive media use has a significant effect on social media fatigue and exacerbates user anxiety and depression [37]. Chai et al. (2019) explored the relationship between SNS use and subjective well-being and found that social overload, FoMO and SNS use had significant effects on subjective well-being, with FoMO and social overload acting as moderating variables that moderated the relationship between SNS use and subjective well-being [38]. Rogers et al. (2019) revealed that FoMO and telepressure have also been linked to negative health outcomes among university students, including poor sleep hygiene [76]. Buglass (2017) pointed out that increased SNS use will be positively associated with increased FoMO, and FoMO will mediate the
relationship between SNS use and psychological wellbeing [29]. Therefore, we propose Hypothesis H8.

**Hypothesis (H8).** The continued use of social commerce platforms results in higher psychological anxiety.

### 3.7. Compulsive Buying

The social commerce platform brings a different way of shopping and a new shopping experience to consumers. Studies have shown that in the context of social commerce, consumers are prone to impulsive [77,78] and compulsive [79] buying behaviors owing to the social interactions and informational incentives.

Impulse buying is a quick, unplanned purchase behavior that occurs mainly as a result of simple processing of promotional or advertising messages [80–82]. Chen et al. (2016) explored the effect of advertising on consumers’ impulse purchases in Facebook, and their findings revealed that information quality and individual impulse traits have significant effects on consumers’ impulsive purchase behavior [83]. Akram et al. (2018) suggested that situational factors positively influence the online impulse buying among Chinese online shoppers in a social commerce environment [84]. Zafar et al. (2019) emphasized that social media celebrities’ posts and contextual interaction have a significant impact on impulse buying [85]. Hu et al. (2019) revealed that peer influence has an important influence on consumers’ impulsive consumption behavior in a social business environment [86].

Another concept similar to impulse buying but essentially different is compulsive buying, which refers to a bad habit behavior that is a reaction to a bad mood or negative event. Compulsive buying is characterized by the ability to obtain pleasure from the purchase or to relieve negative emotions [87–89]. Jin et al. (2020) studied the effects of envy, parasocial interaction and consumer traits on purchase behavior in the context of social commerce, and the experimental results reveal that these factors have a direct or indirect relationship on the outcome of consumer behavior [90]. Focusing on compulsive buyers, Kukar-Kinney et al. (2016) investigated the influence of psychological motivation and context on their behavior, and the results reveal that the shopping environment of daily deal websites is highly seductive to compulsive buyers [91]. He et al. indicated that the high prevalence of compulsive buying in China may be associated with face consciousness, and new online compulsive buying drivers in China include observed buying, daydreaming and emotion [92].

According to the above literature, we propose Hypothesis H9.

**Hypothesis (H9).** The continued use of social commerce platforms is positively associated with consumers’ compulsive buying.

Based on the above hypotheses, the proposed model is summarized in Figure 1.
4. Research Design

4.1. Data Collection

This research used questionnaires to collect data. The subjects of the survey were users who have used social commerce platforms. The process of issuing and collecting questionnaires was mainly divided into two stages.

The first stage: from 12 May 2021 to 31 May 2021, this stage mainly conducted a pre-survey, and changes and amendments to the questionnaire items, thereby forming a formal questionnaire.

The second stage: 1 June 2021–10 June 2021, this stage involved the formal distribution and collection of questionnaires, through the questionnaire star website (https://www.wjx.cn (accessed on 12 June 2021)), where the respondent filled out the questionnaire.

After the pre-survey, the content of the questionnaire was modified to ensure that the questionnaire met the statistical research standards. After the pre-investigation, the content of the questionnaire was modified to ensure that the questionnaire met the statistical research standards. After the questionnaire was created on the questionnaire star website, it was formally distributed from the questionnaire star. The questionnaire used the Likert 7-point method. As of 10 June 2021, a total of 386 questionnaires had been collected. After removing 20 invalid questionnaires for which respondents took less than 60 s to complete the questionnaire, 366 valid questionnaires were finally obtained. The response rate for questionnaires reached 94.82%.

4.2. Descriptive Statistics

The study first used IBM SPSS 25.0 to perform descriptive statistical analysis, correlation analysis, reliability and validity analysis on the questionnaire data. We then used IBM AMOS 25.0 to analyze the path of the research model.

Table 3 summarizes the descriptive information of the dataset. About 32.79% of the respondents were male, and 67.21% were female. As the free survey was conducted in universities, the majority (79.23%) of the respondents were students aged between 20 and 30. About 68.58% of the respondents were undergraduates and 30.87% were postgraduates.
Table 3. Descriptive statistics.

| Measure | Items         | Frequency | Percentage |
|---------|---------------|-----------|------------|
| Gender  | Male          | 120       | 32.79%     |
|         | Female        | 246       | 67.21%     |
| Age     | 20 and below  | 68        | 18.58%     |
|         | >20 and ≤30   | 290       | 79.23%     |
|         | >30 and ≤40   | 6         | 1.64%      |
|         | 41 and above  | 2         | 0.55%      |
| Education | High School and below | 2 | 0.55% |
|         | Undergraduate | 251       | 68.58%     |
|         | Postgraduate and above | 113 | 30.87% |

Sample n = 366; data analysis was conducted using IBM SPSS 21.0 software.

Table 4 shows the variables involved in the study and the results of the correlation analysis.

Table 4. Research variables and correlations.

| IT      | CUSCP | II | PT | FoMO | SE | IS | PA | CB |
|---------|-------|----|----|------|----|----|----|----|
| IT      | 1     |    |    |      |    |    |    |    |
| CUSCP   | 0.791*| 1  |    |      |    |    |    |    |
| II      | 0.688*| 0.713*| 1  |      |    |    |    |    |
| PT      | 0.012 | −0.095| 0.005| 1  |    |    |    |    |
| FoMO    | 0.597**| 0.903*| 0.611*| 0.015| 1  |    |    |    |
| SE      | 0.76* | 0.96*| 0.684**| −0.091| 0.867**| 1  |    |    |
| IS      | 0.643*| 0.813*| 0.579| −0.077| 0.734| 0.78**| 1  |    |
| PA      | −0.155| −0.196*| −0.14| 0.019| −0.177| −0.189| −0.16| 1  |
| CB      | 0.461**| 0.582**| 0.415*| −0.055| 0.526*| 0.559*| 0.473| −0.114| 1  |

* p < 0.05, ** p < 0.01; n = 366; IT indicates influencer trait; CUSCP indicates continued use of social commerce platform; II indicates informational incentives; PT indicates personal trait; FoMO indicates fear of missing out; SE indicates social engagement; IS indicates information support; PA indicates psychological anxiety; CB indicates compulsive buying.

It can be seen from Figure 2 that in this survey sample, Xiaohongshu is used the most frequently, followed by Dianping, Dewu and Douyinec.

![Figure 2](image-url) Distribution of social commerce platforms. 1 = Dianping; 2 = Xiaohongshu; 3 = Dewu; 4 = Mogujie; 5 = Meilishuo; 6 = Hers; 7 = Xiaohongchun; 8 = Kwaishop; 9 = Douyinec; 10 = Meiyou; 11 = Fensii; 12 = others.

4.3. Reliability and Validity Analysis

Reliability analysis is mainly used to evaluate the stability, consistency and accuracy of the scale. There are usually three indicators used to measure reliability, namely the Cronbach alpha coefficient, split-half reliability and test-retest reliability. This study used the
Cronbach alpha coefficient to test the stability and accuracy of the scale (see Appendix A, Table A1). The results are shown in Table 5.

### Table 5. Reliability analysis.

| Constructs              | No. of Items | Alpha | AVE | Loadings                |
|-------------------------|--------------|-------|-----|-------------------------|
| Influencer traits       | 4            | 0.858 | 0.70 | IT1(0.834) IT2(0.831) IT3(0.835) IT4(0.849) |
| Informational Incentives| 4            | 0.818 | 0.65 | III(0.767) II2(0.809) II3(0.831) II4(0.816) |
| Personal traits         | 4            | 0.893 | 0.76 | MA1(0.87) MA2(0.855) MA3(0.853) MA4(0.904) |
| Continued use of SCPs   | 3            | 0.854 | 0.77 | CU1(0.893) CU2(0.904) CU3(0.843) |
| FoMO                    | 4            | 0.883 | 0.74 | FM1(0.843) FM2(0.842) FM3(0.863) FM4(0.896) |
| Social engagement       | 4            | 0.811 | 0.64 | SE1(0.779) SE2(0.847) SE3(0.859) SE4(0.702) |
| Information support     | 3            | 0.814 | 0.73 | IS1(0.823) IS2(0.868) IS3(0.874) |
| Psychological anxiety   | 4            | 0.931 | 0.83 | PA1(0.867) PA2(0.916) PA3(0.924) PA4(0.933) |
| Compulsive buying       | 3            | 0.853 | 0.77 | CB1(0.888) CB2(0.892) CB3(0.858) |

Observing the results in Table 5, we can see that the Cronbach coefficients of all latent variables are greater than 0.8, and the Cronbach coefficient of psychological anxiety is 0.931, which exceeds 0.9. This shows that the internal reliability of the questionnaire items is high, and there is high consistency.

In addition, the validity of the questionnaire was analyzed by observing the KMO index and the Bartlett sphere test index. The purpose of this was to determine whether the questionnaire was suitable for factor analysis. When the KMO value is greater than 0.9, it indicates that the questionnaire is very suitable for factor analysis; when it is 0.7–0.9, it indicates that the questionnaire data are suitable for factor analysis. The KMOs of all latent variables in the questionnaire are greater than 0.7, and the p values of Bartlett’s sphere test are all 0.000, indicating that the questionnaire is suitable for factor analysis. In addition, the item factor loading coefficients are all above 0.7, and the average variance extracted amounts are all above 0.6.

### 5. Hypothesis Testing

#### 5.1. Path Analysis

We used IBM AMOS 25.0 to analyze the theoretical model. The path coefficients of the model are shown in Figure 3. As seen in Table 6, the fit indices of the model all reach the standard level, which indicates that the model works well.

### Table 6. Model fitting index.

| Index | $\chi^2$/df | GFI | RMSEA | NFI | IFI | CFI |
|-------|-------------|-----|-------|-----|-----|-----|
| Result| 3.688       | 0.733| 0.086 | 0.767| 0.819| 0.818|

As can be seen from Table 7, the path coefficient of influencer traits to continue use of the social commerce platform is 0.287, $p < 0.001$, which shows that influencer traits have a significant positive influence on consumers’ continued use of social commerce platforms. Hypothesis H1 is supported.
The coefficient of informational incentives to continue use of social commerce platforms is 0.36, \( p < 0.001 \), which indicates that informational incentives have a significant positive effect on consumers’ continued use of social commerce platforms. Hypothesis H2 is supported.

The path coefficient of FoMO to continue use of social commerce platforms is 0.848, \( p < 0.001 \), which suggests that FoMO has a significant impact on consumers’ continued use of social commerce platforms. Hypothesis H3 is supported.

The path coefficient of personal trait (materialism) to continue use of social commerce platforms is 0.007, \( p = 0.779 \); this indicates that the effect of materialism on consumers’ continued use of social e-commerce platforms is not significant. Hypothesis H5 is not supported.

The path coefficients for continued use of social commerce platforms to social engagement, information support, psychological anxiety and compulsive buying are 0.871 (\( p < 0.001 \)), 0.725 (\( p < 0.001 \)), 0.172 (\( p < 0.05 \)) and 0.884 (\( p < 0.001 \)), respectively. Therefore, Hypotheses H6, H7, H8 and H9 are supported.

5.2. Analysis of Mediating Effect

In this study, we used Amos 21.0 to analyze the mediating role of FoMO. The mediation model and path coefficients are shown in Figure 4. We found from Table 8 that the coefficients a, b and c’ are significant, indicating that there is a mediating effect of FoMO between informational incentives and continued use of SCPs. Therefore H4 is supported.
Figure 4. Mediation model. *** $p < 0.001$; $n = 366$; II indicates informational incentives; CUSCP indicates continued use of social commerce platform; FoMO indicates fear of missing out.

Table 8. Path analysis of mediation model.

| Path                | Coefficient | S.E. | C.R.  | P      |
|---------------------|-------------|------|-------|--------|
| II- $\rightarrow$ CUSCP | 0.295 ***   | 0.038| 8.064 | 0.000  |
| II- $\rightarrow$ FoMO     | 0.362 ***   | 0.046| 7.150 | 0.000  |
| FoMO $\rightarrow$ CUSCP      | 0.874 **    | 0.063| 9.632 | 0.000  |

*** $p < 0.001$; ** $p < 0.01$, $n = 366$; CUSCP indicates continued use of social commerce platform; II indicates informational incentives; FoMO indicates fear of missing out.

6. Conclusions

With the rise of live streaming, social commerce platforms have become prevalent in China, such as Xiaohongshu, Kwaishop and Douyin, which have become the main platforms for entertainment and shopping for Chinese consumers today. This study explored the role of influencers, informational incentives and FoMO in the relationship between the continued use of social commerce platforms and consumer mental health. Our findings are as follows.

1. Influencer traits (expertise and interactivity), informational incentives and fear of missing out have a significant impact on consumers’ continued use of social commerce platforms.
2. Materialistic tendencies have no significant effect on consumers’ continued use of social commerce platforms.
3. FoMO mediates the relationships of informational incentives and continued use of social commerce platforms.
4. Consumers’ continuous use of social commerce platforms has a strong relationship with mental health. Continued use of social commerce platforms can lead to intense social engagement, as well as more severe outcomes such as psychological anxiety and compulsive buying.

7. Discussion and Future Directions

7.1. Theoretical Contributions

The social commerce formed by social networks and e-commerce has received extensive attention from scholars since its emergence. After 10 years of development, a series of research results have been achieved. From the available research literature, the areas of social commerce research mainly include the following five aspects.

1. The differences between e-commerce and social commerce. Specifically, it contains the differences between social commerce and social shopping, as well as the differences between social commerce and e-commerce [93,94];
2. Social commerce types and social commerce technologies [95];
3. Challenges versus benefits [96];
4. Research models of social commerce [97];
5. Social commerce frameworks [98,99].
According to the above, there is a lack of research on the impact of social commerce development on consumers, especially on their mental health. This paper bridges this research gap.

This study collected data through questionnaire surveys and received a total of 366 valid questionnaires. The study used IBM SPSS to perform descriptive statistics, correlation analysis, reliability analysis and validity analysis on the data, and used IBM AMOS to perform a path analysis on the structural equation model proposed in the paper.

The main contribution of this research was to examine the relationship between the continued use of social commerce platforms and consumer mental health in terms of influencers, consumers and information incentives (both from influencers and social commerce platforms). The study extends the scope of current social commerce research.

In addition, fear of missing out was introduced as an independent and mediating variable in the research model. The paper explored the relationship between fear of missing out and the continued use of social commerce platforms. Further, the mediating role of fear of missing out in informational incentives and the continued use of social commerce platforms was investigated. This study extends the scope of the study of fear of missing out.

7.2. Practical Contributions

The sudden arrival of COVID-19 has led to the counter-trend development of “social commerce platforms”, making social shopping and community shopping seem to become a trend. There are three reasons for social commerce to explode during the pandemic: low cost, high conversion and value extension.

The findings of this paper provide management insights for social commerce platforms and social media marketing. Specifically, they are as follows. From the perspective of influencers, social commerce platforms should meet consumers’ needs for information sharing and interaction. For example, Xiaohongshu gathered a large number of active consumers who love to shop, and they are always sharing global goodies and shopping tips, guiding many “newbies” who have no online shopping experience to quickly learn how to use the products. They saw the content and shopping tips shared by their predecessors on Xiaohongshu, which made the whole platform become an encyclopedia of online shopping and attract many new consumers.

Social commerce platforms and influencers need to establish a good trust relationship with consumers. Influencers and consumers do not have a transactional relationship with each other, but rather an informational interaction. Through quality platform operations, influencers and consumers are prompted to continuously generate content. When these contents form good word-of-mouth accumulation, consumers will trust the platform and then get involved in business transactions.

From the perspective of informational incentives, the value of social marketing is based on sharing knowledge and content. This is because knowledge and content address the needs of consumers. In the social world, what matters most to consumers is not what you sell, but what consumers need. Xiaohongshu has done a good job at this point, and its path is to conquer consumers with knowledge and content, rather than bombarding them with advertisements.

For example, Xiaohongshu builds a consumer community for the exchange of product and service experience information. By cultivating community influencers, it promotes sharing and community activity. These practices enable consumers to actively search for information in the community instead of passively accepting information. In addition, the user group of social commerce platform is mainly female, and the characteristic of this group is uncertainty to browse products. For this reason, Xiaohongshu does not organize the product display as clearly as other e-commerce platforms, but various types of products will appear on the home page. This move breaks the conventionalized thinking and creates differentiation.
7.3. Research Limitations and Future Directions

There are many factors that influence the continued use of social commerce platforms. There are technical aspects of social commerce platforms, such as ease of use, privacy protection and security. These factors have not been discussed in this study. When considering influencer characteristics, this study also focused on the expertise and interactivity of the influencers, and other factors were not discussed. For example, the trust relationships between influencers and consumers are very important factors.

The sustainability of social commerce platforms still faces many issues. These questions are the focus of future research. For example, unlike the strong social relationships constructed between acquaintance social networks, social commerce networks are mainly para-social relationships constructed between strangers [100], and exploring the process of relationship construction between influencers and consumers by introducing communication theories such as para-social interaction and para-social relationships is an important research question [101–103]. The issue of trust between consumers and influencers is another important research direction [104,105].

Author Contributions: Conceptualization, J.L.; formal analysis, Y.Z. (Yinyin Zheng); funding acquisition, J.Q. and N.S.; investigation, L.W.; methodology, N.S.; project administration, J.Q.; software, X.L.; supervision, J.L.; validation, Y.Z. (Yinyin Zheng); visualization, Y.Z. (Yuxin Zhang); writing—original draft, L.W.; writing—review and editing, Y.Z. (Yuxin Zhang) and Y.Z. (Yinyin Zheng). All authors have read and agreed to the published version of the manuscript.

Funding: This work was supported by the National Natural Science Foundation of China (grant number: 71702098), the Philosophy and Social Science Foundation of Shanghai (grant number: 2021BGL007, 2020EGL017), Digital Transformation in China and Germany: Strategies, Structures and Solutions for Aging Societies (grant number: GZ 1570).

Institutional Review Board Statement: Not applicable.

Informed Consent Statement: Informed consent was obtained from all subjects involved in the study.

Data Availability Statement: Not applicable.

Conflicts of Interest: The authors declare no conflict of interest.

Appendix A

Table A1. Instrument and measurement properties.

|                          | M      | SD   | Loading |
|--------------------------|--------|------|---------|
| **Influencer traits [6,50]** |        |      |         |
| IT1                      | 4.86   | 1.21 | 0.834   |
| Social commerce platform influencers have rich buying and using experience.  |
| IT2                      | 4.92   | 1.19 | 0.831   |
| Social commerce platform influencers have professional knowledge.  |
| IT3                      | 4.86   | 1.02 | 0.835   |
| Social commerce platform influencers can actively respond to questions raised by fans.  |
| IT4                      | 4.66   | 1.24 | 0.849   |
| Social commerce platform influencers are enthusiastic and responsible in responding to fan questions.  |
| **Informational incentives [57]** |        |      |         |
| II1                      | 5.01   | 1.12 | 0.767   |
| The product information on social commerce platforms is very detailed and diverse.  |
| II2                      | 4.90   | 1.13 | 0.809   |
| The product information pushed by the social commerce platform can make me interested.  |
| II3                      | 4.90   | 1.36 | 0.831   |
| Price discounts on social commerce platforms make products feel affordable.  |
| II4                      | 4.82   | 1.36 | 0.816   |
| The panic-buying activities on social commerce platforms made me feel like saving money.  |
| **Materialism [106–108]** |        |      |         |
| MA1                      | 3.41   | 1.62 | 0.870   |
| If I can buy more things, I will feel that I am happier.  |
| MA2                      | 3.13   | 1.52 | 0.855   |
| Shopping in a social business environment can bring me a lot of happiness.  |
| MA3                      | 3.38   | 1.64 | 0.853   |
| I am very upset that I can’t afford what I want.  |
| MA4                      | 3.30   | 1.54 | 0.904   |
| Acquiring material and wealth is one of the important achievements of my life.  |
|                       | M      | SD   | Loading |
|-----------------------|--------|------|---------|
| **Continued use of SCPs** |        |      |         |
| CU1 In the future, I plan to continue to use this social commerce platform. | 4.97   | 1.23 | 0.893   |
| CU2 In the future, I prefer to continue to use this social commerce platform instead of other platforms. | 4.80   | 1.24 | 0.904   |
| CU3 In the future, I will increase the frequency of using this social commerce platform. | 4.68   | 1.23 | 0.843   |
| **FoMO [27,41,109,110]** |        |      |         |
| FM1 I often subconsciously open the social commerce platform to view the content. | 4.75   | 1.38 | 0.843   |
| FM2 I will frequently open the social commerce platform to obtain product information and so on. | 4.65   | 1.44 | 0.842   |
| FM3 If I do not open the social commerce platform for a period of time, I will worry about missing important information. | 4.27   | 1.58 | 0.863   |
| FM4 If I do not open the social commerce platform for a period of time, I am worried that I will miss the opportunity to obtain information. | 4.28   | 1.59 | 0.896   |
| **Social engagement [36]** |        |      |         |
| SE1 The social commerce platform has influencers that I follow. | 4.83   | 1.37 | 0.779   |
| SE2 I will share ideas on social business platforms. | 4.08   | 1.57 | 0.847   |
| SE3 I will share information about products on social commerce platforms. | 4.33   | 1.59 | 0.859   |
| SE4 On social business platforms, I interact with influencers I follow. | 4.77   | 1.44 | 0.702   |
| **Information support [75,86]** |        |      |         |
| IS1 This social commerce platform has improved my efficiency in obtaining information. | 4.75   | 1.36 | 0.823   |
| IS2 Frequent use of this social commerce platform allows me to obtain more information. | 4.50   | 1.26 | 0.868   |
| IS3 Frequent use of this social commerce platform has enriched my knowledge. | 4.76   | 1.25 | 0.874   |
| **Psychological anxiety [37,39,60]** |        |      |         |
| PA1 I will be distressed because I cannot control my frequent use of the social commerce platform. | 4.37   | 1.58 | 0.867   |
| PA2 I will regret that frequent use of this social commerce platform reduces my learning efficiency. | 4.43   | 1.56 | 0.916   |
| PA3 I will be depressed because frequently opening the social commerce platform reduces my concentration. | 4.46   | 1.64 | 0.924   |
| PA4 I will be annoyed by the time consumed by frequently opening the social commerce platform. | 4.78   | 1.62 | 0.933   |
| **Compulsive buying [79,82,87]** |        |      |         |
| CB1 Most of my daily necessities are purchased online. | 4.14   | 1.67 | 0.888   |
| CB2 Others may think I am a shopaholic. | 4.10   | 1.65 | 0.892   |
| CB3 There is an unopened package in my living area. | 4.61   | 1.52 | 0.858   |

References
1. Huang, Z.; Benyoucef, M. From e-commerce to social commerce: A close look at design features. *Electron. Commer. Res. Appl.* 2013, 12, 246–259. [CrossRef]
2. Zhou, L.; Zhang, P.; Zimmermann, H.-D. Social commerce research: An integrated view. *Electron. Commer. Res. Appl.* 2013, 12, 61–68. [CrossRef]
3. Yadav, M.S.; de Valck, K.; Hennig-Thurau, T.; Hoffman, D.L.; Spann, M. Social Commerce: A Contingency Framework for Assessing Marketing Potential. *J. Interact. Mark.* 2013, 27, 311–323. [CrossRef]
4. Stephen, A.T.; Toubia, O. Deriving Value from Social Commerce Networks. *J. Mark. Res.* 2010, 47, 215–228. [CrossRef]
5. Zheng, X.; Zhu, S.; Lin, Z. Capturing the essence of word-of-mouth for social commerce: Assessing the quality of online e-commerce reviews by a semi-supervised approach. *Decis. Support Syst.* 2013, 56, 211–222. [CrossRef]
6. Kim, S.; Park, H. Effects of various characteristics of social commerce (s-commerce) on consumers’ trust and trust performance. *Int. J. Inf. Manag.* 2013, 33, 318–332. [CrossRef]
7. Hajli, N. Social commerce constructs and consumer’s intention to buy. *Int. J. Inf. Manag.* 2015, 35, 183–191. [CrossRef]
8. Lin, X.; Li, Y.; Wang, X. Social commerce research: Definition, research themes and the trends. *Int. J. Inf. Manag.* 2017, 37, 190–201. [CrossRef]
9. Zhang, K.Z.; Benyoucef, M. Consumer behavior in social commerce: A literature review. *Decis. Support Syst.* 2016, 86, 95–108. [CrossRef]
10. Busalim, A.H.; Hussin, A.R.C. Understanding social commerce: A systematic literature review and directions for further research. *Int. J. Inf. Manag.* 2016, 36, 1075–1088. [CrossRef]
11. Gibreel, O.; AlOtaibi, D.A.; Altmann, J. Social commerce development in emerging markets. *Electron. Commer. Res. Appl.* 2018, 27, 152–162. [CrossRef]
12. Han, H.; Xu, H.; Chen, H. Social commerce: A systematic review and data synthesis. *Electron. Commer. Res. Appl.* 2018, 30, 38–50. [CrossRef]

13. Chen, J.; Shen, X.-L. Consumers’ decisions in social commerce context: An empirical investigation. *Decis. Support Syst.* 2015, 79, 55–64. [CrossRef]

14. Shanmugam, M.; Sun, S.; Amidi, A.; Khani, F.; Khani, F. The applications of social commerce constructs. *Int. J. Inf. Manag.* 2016, 36, 425–432. [CrossRef]

15. Doha, A.; Elnahla, N.; McShane, L. Social commerce as social networking. *J. Retail. Consum. Serv.* 2019, 47, 307–321. [CrossRef]

16. Lee, K.; Lee, B.; Oh, W. Thumbnails Up, Sales Up? The Contingent Effect of Facebook Likes on Sales Performance in Social Commerce. *J. Manag. Inf. Syst.* 2015, 32, 109–143. [CrossRef]

17. Li, C.-Y.; Ku, Y.-C. The power of a thumbs-up: Will e-commerce switch to social commerce? *Inf. Manag.* 2018, 55, 340–357. [CrossRef]

18. Cheng, S.; Gu, Y.; Shen, J. An integrated view of particularized trust in social commerce: An empirical investigation. *Int. J. Inf. Manag.* 2019, 45, 1–12. [CrossRef]

19. Lin, X.; Wang, X.; Hajli, N. Building E-Commerce Satisfaction and Boosting Sales: The Role of Social Commerce Trust and Its Antecedents. *Int. J. Electron. Commer.* 2019, 23, 328–363. [CrossRef]

20. Lu, B.; Fan, W.; Zhou, M. Social presence, trust, and social commerce purchase intention: An empirical research. *Comput. Hum. Behav.* 2016, 56, 225–237. [CrossRef]

21. Hajli, N.; Sims, J.; Zadeh, A.H.; Richard, M.-O. A social commerce investigation of the role of trust in a social networking site on purchase intentions. *J. Bus. Res.* 2017, 71, 133–141. [CrossRef]

22. Wang, M.-Y.; Zhang, P.-Z.; Zhou, C.-Y.; Lai, N.-Y. Effect of Emotion, Expectation, and Privacy on Purchase Intention in WeChat Health Product Consumption: The Mediating Role of Trust. *Int. J. Environ. Res. Public Health* 2019, 16, 3861. [CrossRef]

23. Koeske, G.F.; Kirk, S.A.; Koeske, R.D. Coping with job stress: Which strategies work best? *J. Occup. Organ. Psychol.* 1993, 66, 319–335. [CrossRef]

24. Lee, A.R.; Son, S.-M.; Kim, K.K. Information and communication technology overload and social networking service fatigue: A stress perspective. *Comput. Hum. Behav.* 2016, 55, 51–61. [CrossRef]

25. Dhir, A.; Kaur, P.; Chen, S.; Pallesen, S. Antecedents and consequences of social media fatigue. *Int. J. Inf. Manag.* 2019, 48, 193–202. [CrossRef]

26. Ayagari, R.; Grover, V.; Purvis, R. Technostress: Technological Antecedents and Implications. *MIS Q.* 2011, 35, 831–858. [CrossRef]

27. Przybylski, A.K.; Murayama, K.; DeHaan, C.R.; Gladwell, V. Motivational, emotional, and behavioral correlates of fear of missing out. *Comput. Hum. Behav.* 2013, 29, 1841–1848. [CrossRef]

28. Alutaybi, A.; Al-Thani, D.; McAlaney, J.; Ali, R. Combating Fear of Missing Out (FoMO) on Social Media: The FoMO-R Method. *Int. J. Environ. Res. Public Health* 2020, 17, 6128. [CrossRef] [PubMed]

29. Buglass, S.L.; Binder, J.; Betts, L.R.; Underwood, J.D. Motivators of online vulnerability: The impact of social network site use and FOMO. *Comput. Hum. Behav.* 2017, 66, 248–255. [CrossRef]

30. Kim, J.; Lennon, S.J. Effects of reputation and website quality on online consumers’ emotion, perceived risk and purchase intention. *J. Res. Interact. Mark.* 2013, 7, 33–56. [CrossRef]

31. Servidio, R.; Griffiths, M.; Demetrotvic, Z. Dark Triad of Personality and Problematic Smartphone Use: A Preliminary Study on the Mediating Role of Fear of Missing Out. *Int. J. Environ. Res. Public Health* 2021, 18, 8463. [CrossRef] [PubMed]

32. Zhang, M.X.; Zhou, H.; Yang, H.M.; Wu, A.M.S. The prospective effect of problematic smartphone use and fear of missing out on sleep among Chinese adolescents. *Curr. Psychol.* 2021, 1–9. [CrossRef]

33. Alt, D. College students’ academic motivation, media engagement and fear of missing out. *Comput. Hum. Behav.* 2015, 49, 111–119. [CrossRef]

34. Beyens, I.; Frison, E.; Egggermont, S. “I don’t want to miss a thing”: Adolescents’ fear of missing out and its relationship to adolescents’ social needs, Facebook use, and Facebook related stress. *Comput. Hum. Behav.* 2016, 64, 1–8. [CrossRef]

35. Oberst, U.; Wegmann, E.; Stodt, B.; Brand, M.; Chamarro, A. Negative consequences from heavy social networking in adolescents: The mediating role of fear of missing out. *J. Adolesc.* 2017, 55, 51–60. [CrossRef] [PubMed]

36. Elhai, J.D.; Levine, J.C.; Alghraiber, A.M.; Alfanan, A.A.; Aldraiwesh, A.A.; Hall, B.J. Fear of missing out: Testing relationships with negative affectivity, online social engagement, and problematic smartphone use. *Comput. Hum. Behav.* 2018, 89, 289–298. [CrossRef]

37. Dhir, A.; Yossatorn, Y.; Kaur, P.; Chen, S. Online social media fatigue and psychological wellbeing—A study of compulsive use, fear of missing out, fatigue, anxiety and depression. *Int. J. Inf. Manag.* 2018, 40, 141–152. [CrossRef]

38. Chai, H.; Niu, G.-F.; Lian, S.-L.; Chu, X.-W.; Liu, S.; Sun, X.-J. Why social network site use fails to promote well-being? The roles of social overload and fear of missing out. *Comput. Hum. Behav.* 2019, 100, 85–92. [CrossRef]

39. Holte, A.J.; Ferraro, F.R. Anxious, bored, and (maybe) missing out: Evaluation of anxiety attachment, boredom proneness, and fear of missing out (FoMO). *Comput. Hum. Behav.* 2020, 112, 106465. [CrossRef]

40. Roberts, J.A.; David, M.E. The Social Media Party: Fear of Missing Out (FoMO), Social Media Intensity, Connection, and Well-Being. *Int. J. Hum.-Comput. Interact.* 2020, 36, 386–392. [CrossRef]
Çelik, I.K.; Eru, O.; Cop, R. The effects of consumers’ FoMo tendencies on impulse buying and the effects of impulse buying on post-purchase regret: An investigation on retail stores. Brain. Broad Res. Art. Intell. Neuro. 2019, 10, 124–138. Available online: https://www.brain.edu.soft.ro/index.php/brain/article/view/950\T1\textgreater{} (accessed on 20 November 2021).

Kang, I.; Son, J.; Koo. J. Evaluation of Culturally Symbolic Brand: The Role of “Fear of Missing Out” Phenomenon. J. Int. Consum. Mark. 2018, 31, 270–286. [CrossRef]

Hodkinson, C. ‘Fear of Missing Out’ (FOMO) marketing appeals: A conceptual model. J. Mark. Commun. 2016, 25, 65–88. [CrossRef]

Hayran, C.; Anik, L.; Gürhan-Canli, Z. A threat to loyalty: Fear of missing out (FOMO) leads to reluctance to repeat current experiences. PLoS ONE 2020, 15, e0232318. [CrossRef]

Kim, J.; Lee, Y.; Kim, M.-L. Investigating ‘Fear of Missing Out’ (FOMO) as an extrinsic motive affecting sport event consumer’s behavioral intention and FOMO-driven consumption’s influence on intrinsic rewards, extrinsic rewards, and consumer satisfaction. PLoS ONE 2020, 15, e0243744. [CrossRef] [PubMed]

Good, M.C.; Hyman, M.R. ‘Fear of missing out’: Antecedents and influence on purchase likelihood. J. Mark. Theory Pract. 2020, 28, 330–341. [CrossRef]

Good, M.C.; Hyman, M.R. Direct and indirect effects of fear-of-missing-out appeals on purchase likelihood. J. Consum. Behav. 2021, 20, 564–576. [CrossRef]

Karimkhani, F.; Chapa, S. Is fear of missing out (FOMO) a cultural construct? Investigating FOMO from a marketing perspective. J. Cult. Market. Strategy 2021, 5, 169–183.

Neumann, D.; Huddleston, P.T.; Behe, B.K. Fear of Missing Out as motivation to process information: How differences in Instagram use affect attitude formation online. New Media Soc. 2021, 5, 1–23. [CrossRef]

Feng, Y.; Chen, H.; Kong, Q. An expert with whom I can identify: The role of narratives in influencer marketing. Int. J. Advert. 2020, 40, 972–993. [CrossRef]

Lee, J.A.; Sudarshan, S.; Sussman, K.L.; Bright, L.F.; Eastin, M.S. Why are consumers following social media influencers on Instagram? Exploration of consumers’ motives for following influencers and the role of materialism. Int. J. Advert. 2021, 40, 1–23. [CrossRef]

Lou, C.; Yuan, S. Influencer Marketing: How Message Value and Credibility Affect Consumer Trust of Branded Content on Social Media. J. Interact. Adv. 2019, 5, 18–73. [CrossRef]

Ki, C.; Kim, Y. The mechanism by which social media influencers persuade consumers: The role of consumers’ desire to mimic. Psychol. Mark. 2019, 36, 905–922. [CrossRef]

Zhang, H.; Lu, Y.; Gupta, S.; Zhao, L. What motivates customers to participate in social commerce? The impact of technological environments and virtual customer experiences. Inf. Manag. 2014, 51, 1017–1030. [CrossRef]

Xue, J.; Liang, X.; Xie, T.; Wang, H. See now, act now: How to interact with customers to enhance social commerce engagement? Inf. Manag. 2020, 57, 103324. [CrossRef]

Lv, J.; Wang, Z.; Huang, Y.; Wang, T.; Wang, Y. How Can E-Commerce Businesses Implement Discount Strategies through Social Media? Sustainability 2020, 12, 7459. [CrossRef]

Xu, X.; Li, Q.; Peng, L.; Hsia, T.-L.; Huang, C.-J.; Wu, J.-H. The impact of informational incentives and social influence on consumer behavior during Ali Baba’s online shopping carnival. Comput. Hum. Behav. 2017, 76, 245–254. [CrossRef]

Zhao, J.-D.; Huang, J.-S.; Su, S. The effects of trust on consumers’ continuous purchase intentions in C2C social commerce: A trust transfer perspective. J. Retail. Consum. Serv. 2019, 50, 42–49. [CrossRef]

Christino, J.M.M.; Silva, T.S.; Cardozo, E.A.A.; Carriero, A.D.P.; Nunes, P.D.P. Understanding affiliation to cashback programs: An emerging technique in an emerging country. J. Retail. Consum. Serv. 2018, 47, 78–86. [CrossRef]

Elhai, J.D.; Gallinari, E.F.; Rozgonjuk, D.; Yang, H. Depression, anxiety and fear of missing out as correlates of social, non-social and problematic smartphone use. Addict. Behav. 2020, 105, 106335. [CrossRef]

Bright, L.F.; Logan, K. Is my fear of missing out (FOMO) causing fatigue? Advertising, social media fatigue, and the implications for consumers and brands. Internet Res. 2018, 28, 1213–1227. [CrossRef]

Weideinger, D.; McClelland, A.; Furnham, A. The Effectiveness of “Fear of Missing Out” Inducing Content in Facebook Advertisements. Psychology 2021, 12, 829–842. [CrossRef]

Handarkho, Y.D. The intentions to use social commerce from social, technology, and personal trait perspectives: Analysis of direct, indirect, and moderating effects. J. Res. Interact. Mark. 2020, 14, 305–336. [CrossRef]

Rozgonjuk, D.; Sindermann, C.; Elhai, J.D.; Montag, C. Individual differences in Fear of Missing Out (FoMO): Age, gender, and the Big Five personality trait domains, facets, and items. Pers. Individ. Differ. 2021, 171, 110546. [CrossRef]

Dev, M.; Podoshen, J.S.; Shahzad, M. An Exploratory Comparison of Materialism and Conspicuous Consumption in Pakistan. J. Int. Consum. Mark. 2018, 30, 317–325. [CrossRef]

Kasser, T.; Ryan, R.M. A dark side of the American dream: Correlates of financial success as a central life aspiration. J. Pers. Soc. Psychol. 1993, 65, 410–422. [CrossRef]

Mick, D.G. Are Studies of Dark Side Variables Confounded by Socially Desirable Responding? The Case of Materialism. J. Consum. Res. 1996, 23, 106–119. [CrossRef]

Burroughs, J.E.; Rindfleisch, A. Materialism and Well-Being: A Conflicting Values Perspective. J. Consum. Res. 2002, 29, 348–370. [CrossRef]
99. Wu, J.; Xu, M.; Mo, Z.; Liao, L. The Research of Design Based on Social Commerce. *Int. J. Soc. Sci. Stud.* 2015, 3, 157–165. [CrossRef]

100. Brown, W.J. Examining Four Processes of Audience Involvement With Media Personae: Transportation, Parasocial Interaction, Identification, and Worship. *Commun. Theory* 2015, 25, 259–283. [CrossRef]

101. Aw, E.C.-X.; Chuah, S.H.-W. “Stop the unattainable ideal for an ordinary me!” fostering parasocial relationships with social media influencers: The role of self-discrepancy. *J. Bus. Res.* 2021, 132, 146–157. [CrossRef]

102. Sokolova, K.; Perez, C. You follow fitness influencers on YouTube. But do you actually exercise? How parasocial relationships, and watching fitness influencers, relate to intentions to exercise. *J. Retail. Consum. Serv.* 2021, 58, 102276. [CrossRef]

103. Reinikainen, H.; Munnukka, J.; Maity, D.; Luoma-Aho, V. ‘You really are a great big sister’—parasocial relationships, credibility, and the moderating role of audience comments in influencer marketing. *J. Mark. Manag.* 2020, 36, 279–298. [CrossRef]

104. Breves, P.; Amrehn, J.; Heidenreich, A.; Liebers, N.; Schramm, H. Blind trust? The importance and interplay of parasocial relationships and advertising disclosures in explaining influencers’ persuasive effects on their followers. *Int. J. Advert.* 2021, 40, 1209–1229. [CrossRef]

105. Kim, D.Y.; Kim, H.-Y. Trust me, trust me not: A nuanced view of influencer marketing on social media. *J. Bus. Res.* 2021, 134, 223–232. [CrossRef]

106. Estévez, A.; Jauregui, P.; Momeñe, J.; Macia, L.; López-González, H.; Iruarrizaga, I.; Riquelme-Ortiz, C.; Granero, R.; Fernández-Aranda, F.; Vintró-Alcaraz, C.; et al. Longitudinal Changes in Gambling, Buying and Materialism in Adolescents: A Population-Based Study. *Int. J. Environ. Res. Public Health* 2021, 18, 2811. [CrossRef] [PubMed]

107. Richins, M.L.; Dawson, S. A Consumer Values Orientation for Materialism and Its Measurement: Scale Development and Validation. *J. Consum. Res.* 1992, 19, 303–316. [CrossRef]

108. Griffin, M.; Babin, B.J.; Christensen, F. A cross-cultural investigation of the materialism construct: Assessing the Richins and Dawson’s materialism scale in Denmark, France and Russia. *J. Bus. Res.* 2004, 57, 893–900. [CrossRef]

109. Hayran, C.; Anik, L. Well-Being and Fear of Missing Out (FOMO) on Digital Content in the Time of COVID-19: A Correlational Analysis among University Students. *Int. J. Environ. Res. Public Health* 2021, 18, 1974. [CrossRef] [PubMed]

110. Franchina, V.; Abeele, M.V.; Van Rooij, A.J.; Coco, G.L.; De Marez, L. Fear of Missing Out as a Predictor of Problematic Social Media Use and Phubbing Behavior among Flemish Adolescents. *Int. J. Environ. Res. Public Health* 2018, 15, 2319. [CrossRef]