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"In Flow"! Why Do Users Share Fake News about Environmentally Friendly Brands on Social Media?

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Abstract: Social media has triggered an increase in fake news spread about different aspects of modern lives, society, politics, societal changes, etc., and has also affected companies' reputation and brands' trust. Therefore, this paper is aimed at investigating why social media users share fake news about environmentally friendly brands. To examine social media users' behavior towards environmentally friendly brands, a theoretical research model proposed and analyzed using structural equations modeling in SmartPLS on a convenience sample consisting of 922 questionnaires. Data was collected by means of a quantitative-based approach via a survey conducted among social media users from an emerging market. The results show that social media flow has a mediated impact on sharing fake news about environmentally friendly brands on social media. Considering the critical consequences of fake news, the paper argues that understanding the dissemination process of this type of bogus content on social media platforms has important theoretical and managerial implications. Understanding the psychological mechanisms that influence people's behavior in sharing fake news about environmentally friendly brands on social networking sites (SNS) could help in better understanding the factors and the effects of this phenomenon. The originality of this research consists of proposing flow theory from positive psychology to be used as a theoretical framework to explain users' behavior of sharing fake news about environmentally friendly brands on social media.

Keywords: fake news; social media platforms; social media flow; social media usage; flow theory; environmentally friendly brands; user behavior; online sharing news; online trust; structural equations modeling



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1. Introduction

The number of internet users has expanded significantly in recent years, reaching 4.95 billion in January 2022, representing a 65.6% penetration rate in the world population. The global number of active social media users was estimated to be roughly 4.62 billion, with a penetration rate of 48.6% [1]. The proliferation of social networking sites (SNS) in today's information economy has created a global interest for scholars and practitioners in managing online communication for brands. The expansion of social media transformed how individuals communicate, as it evolved into the primary platform for online social interaction and information dissemination [2]. Social media platforms are reshaping how mankind consumes news content, since users may now not only learn about recent events but also share their own stories and advocate for various causes and issues [2].

A significant percentage of the US population continues to rely on social media platforms to get their news [3]. Around half of all adults in the United States (53%) say they read news via social media "frequently" or "sometimes", using a variety of different SNS. For instance, among 11 social media sites surveyed as a frequent source of news, Facebook ranks first, with over a third (36%) of Americans routinely accessing it. YouTube is the

second most popular platform, with 23% of US adults routinely using it for news. A total of 15% of US adults use Twitter as their primary news source. Other social media platforms are far less likely to be a credible source of information. Around one-in-ten Americans or less report getting news daily via Instagram (11%), Reddit (6%), Snapchat (4%), LinkedIn (4%), TikTok (3%), WhatsApp (3%), Tumblr (1%), and Twitch (1%) [3]. Therefore, social media sites are critical communication channels and businesses frequently use them as a marketing tool [4], to spur innovation [5], and to demonstrate their sustainability. Globally, brands are leveraging social media communication to increase sales income by reaching out to new customers and improving the experience of existing ones [6,7].

The quantity and quality of information available on social media have enhanced interaction between individuals and provided significant opportunities to communicate, but it has also represented a challenge to the environmentally friendly brands' communication specialists [8,9]. Customers can use social media to keep informed, share stories, and engage with members of specific social groups (i.e., environmentally friendly brands' fans), thereby shaping their friends' and followers' cognitions, attitudes, and actions toward brands [10–12]. In this dynamic communication process, in which senders transform themselves into receivers and receivers into senders, brands can lose control of their communication strategy [13–16] and the accuracy of information becomes critical. Additionally, a tremendous amount of information is spread on social media as news is dubious and, in some cases, intentionally misleading—this type of content is frequently referred to as *fake news* [17]. Purveyors of fake news can rapidly spread malicious content on social media and influence customers' cognitions, attitudes, and behaviors [10].

Brands can become victims of the rapid spread of fake news on social media [18] as they can generate brand crisis [19], endure reputational damage, and suffer huge financial losses because of rapidly spreading false information [10]. Social media has the potential to strengthen or destroy a brand [20]; customers often discus on such platforms their negative experiences with brands [21–23]. We based our research on the narrow definition of fake news, which is considered to represent the "intentionally and verifiably wrong or false news produced for the purpose of earning money and/or promoting ideologies" (p. 213, [13]). Therefore, fake news represents "any information that contains an intentionally and verifiably false information and that can mislead readers" (p. 213, [13]).

Therefore, the issue of fake news is quite real, as corporations, governments, and even individuals may create and share information (or news) to a broad audience quickly via social media [24]. The propagation of fake news about any type of brand has a substantial economic, social, financial, political, and even environmental impact [25,26]. Given the scale of the problem and the damage that fake news has the potential to cause, it is important to examine and understand how fake news spreads on social media to develop effective reactive communication strategies [27]. Popular brands such as Pepsi Co, New Balance, and Starbucks are usually victims of fake news [10], but to the best of our knowledge, there are no studies investigating the effects of fake news on environmentally friendly brands. Therefore, we aimed to focus the investigation on such environmentally friendly brands which people buy or often prefer.

The literature lacks in explaining why people continue to share fake news on social media about brands. Although scholars have proposed different theories to explain various aspects of social media users' behavior (i.e., selective exposure theory, uses and gratifications theory, social comparison theory, rational choice theory, or self-determination theory), these attempts only partially elucidated the spread of fake news on social media [10,28,29]. Despite the widespread dissemination of fake news and its negative consequences, the motivations for this detrimental behavior remain mostly unknown and under-researched [29]. There is a lack of theoretical frameworks on understanding fake-news-sharing behavior (knowingly or unknowingly) [28]. Psychological research is categorically required to better explain why people purposefully or inadvertently distribute fake news [30]. Given the importance of social media as a channel for communication, there is a gap in our understanding of fake news from the consumers' perspective [31].

Social media users often experience a flow state while browsing SNS, and their experience influences the sharing behavior. The level of trust in the shared content might enhance or inhibit their fake-news-sharing behavior on social media. The current study aims to fill that gap by proposing flow theory [32,33] from positive psychology to be used as a theoretical framework to explain users' behavior of sharing fake news about environmentally friendly brands on social media. Therefore, the aim of this paper is investigating why social media users share fake news online about environmentally friendly brands.

The novelty of this study lies in exploring the relationship between *users' optimal experience on social media*, also called *social media flow* [34], and their sharing behavior of fake news about environmentally friendly brands. These relationships were not previously tested and, to our knowledge, no earlier study on fake news has used structural equation modeling (SEM) to explore the sharing of fake news using flow on an emerging market. The investigation was conducted in the Romanian emerging market, where the broadband internet speeds rank fourth worldwide [1], the internet penetration rate [35] and the number of social media users are high [1], and thus can be considered a quite relevant international benchmark for social media usage.

The paper is structured as follows: Section 1 presents the flow theory, while Section 2 contains the literature review, but also develops the research hypothesis and presents the conceptual model. Section 3 follows with the research methodology, while Section 4 reports the results of the investigation. Section 5 contains the discussion and a critical assessment of the results. The paper concludes with theoretical implications for the flow theory and fake news literature, managerial implications, as well as limitations and future research perspectives.

2. Flow Theory in the Social Media Context

The flow concept was first proposed by Csikszentmihalyi [32] after many years of research into play activities, creativity, and artists' personality [36–38]. He [32] was interested to understand what makes daily human activities performed by different professionals (i.e., hockey and soccer players, spelunkers and explorers, mountain climbers, handball players, long-distance swimmers, surgeons, and chess players) inherently motivating and enjoyable. The participants in Csíkszentmihályi's [32] interviews frequently described the experience as being carried along by the water current, an insight that determined him to call this state *flow*. Flow is defined as being a "holistic sensation that people feel when they act with total engagement" (p. 36, [32]). Flow can be considered an "optimal experience" [39] because "flow is defined as a psychological state in which the person feels simultaneously cognitively efficient, motivated, and happy" (p. 277, [40]).

In positive psychology, flow is not only a theory of intrinsic motivation [32], but also a theory of creativity [33,41,42], of holistic personal development [43], an important factor in the evolution of bio-culture and selection [44], and a theory for psychological rehabilitation practice [45,46]. In marketing communication studies, flow theory is considered a motivational paradigm [10].

Since flow varies in duration, frequency, and intensity [47], it is a continuous variable [48]. Flow can be experienced while engaging in a multitude of offline activities such as performing music or sports, reading a book, and shopping, or while engaging in online activities such as gaming, chatting with friends, browsing social networks sites, or purchasing. The most comprehensive description of the flow construct that distinguished it from the rest of everyday life activities is based on the following major characteristics [32,33]: distinct and clear goals, temporary loss of self-awareness, distorted sense of time, actions that merge with awareness and immediate feedback, intense concentration on the task at hand, a high level of control, a balance between the person's available skills and the task challenges, and autotelic experiences.

Social media flow can be considered a multidimensional, aggregate construct, based on different concepts that together constitute the flow, such as: *time distortion* [10,49–51], *intrinsic interest* [32,52,53], *perceived control* [49,50,53], *concentration* [49–51,54], and *enjoyment* [32,51,54,55].

A bibliometric analysis of flow theory from 1975 to 2022 concluded that the five most used social media flow dimensions are [56]: *time distortion*, intrinsic interest, perceived control, concentration, and enjoyment.

Intrinsic motivation is specific to those individuals that are driven by satisfying internal rewards rather than relying on external pressures or extrinsic benefits [57]. Flow theory is based on intrinsic motivation [32], this dimension being essential for the flow experience. When people are in the flow state, they find the action intrinsically interesting as they engage in an activity for its own sake and enjoyment rather than for utilitarian purposes. A prerequisite of attaining flow is users' motivation. Social media users browse because they enjoy the interaction with the computer, friends, and followers. In a flow state, engagement in a task is determined by intrinsic motivation. The task entails us simply because it is interesting, enjoyable, involves a level of challenge close to existing skills, and provides immediate feedback [32]. The satisfaction from performing that activity motivates the individual to continue.

Perceived control is defined as an individual's belief that they are capable to influence and to make a difference in their life events [58] and obtain a specific desired outcome. Perceived control refers to "people's perception of ease or difficulty in performing the behavior of interest" (p. 183, [59]). Flow occurs when a person perceives a high level of control while performing a task [32] (i.e., "people feel to be in control of their own actions, also being in the same time masters of their fate" (p. 3, [44]). In the online environment, perceived control relates to how web users perceive their ability to navigate successfully around the web environment and how the web responds to their inputs [60]. Technologies create this sense of control by responding to an individual's feedback in ways that more static technology cannot [61]. Social media generates a sense of perceived control for users because it offers them responsive interactive elements, such as chat, comment, poke, like, and share [51], which they know how to use [62], and allows them to sign in and sign out whenever they choose.

Concentration is the degree to which one is focused on or paying attention to the task at hand [63,64]. Individuals achieving flow are extremely concentrated on the present moment [60]. This characteristic is significant for experiencing flow because "enjoyable activities require entire concentration on the task at hand—leaving no room in the mind for unnecessary information" (p. 58, [32]). In a flow state, a person selects a specific range of information that is allowed into awareness, and "that's all that matters" (p. 58, [32]). Social media constitutes a perfect platform for individuals to concentrate on the task at hand due to the novelty and relevance of the information displayed following users' preferences [34]. The screen reduces the range of stimuli to which the user is exposed, making it easier to focus because all the attention is concentrated on the relevant stimuli.

Csikszentmihalyi [33] considers *enjoyment* to be a common characteristic of flow experience. Individuals in flow "feel a sense of exhilaration, a deep sense of enjoyment" (p. 3, [44]) during an activity when they perceive a balance between their skills and the challenges of a situation. Perceived enjoyment can be defined as the degree to which users believe utilizing a virtual environment to be enjoyable regardless of performance repercussions [64]. Web enjoyment appears to be linked to the joy of discovery: finding, learning, or observing something for the first time [47].

In flow, individuals sense *distortion in time perception* [32] and they are unaware of time passing. A person experiencing flow is so absorbed in the activity at hand that they lose track of time [32]. Social media users spent an extensive amount of time during social media use because of the immersive and rewarding nature of online platforms [51]. The frequency of social media use is an important indicator of social media's stickiness [51]. In social media, stickiness is important because it allows users to browse and view more content [65]. Given the rising amount of time spent on them, SNS are ideal for examining users' flow experiences [66–69].

3. Hypothesis and Conceptual Model Development

3.1. Social Media Usage, Information Sharing, and Motives for Online Sharing News

Social media is conceptualized as a collection of web-based apps that are built on the conceptual and technological foundations of Web 2.0, enabling the creation and exchange of user-generated content [22,70]. Social media platforms include different social networking sites that allow people to interact with each other and share information about products and brands [71,72], such as networks (i.e., Facebook, Twitter, and Instagram), wikis (i.e., Wikipedia, Wikitravel, and Wiki-How), video sharing sites (i.e., YouTube, TikTok, and Vimeo), bookmarking sites (i.e., Twitter, Pinterest, and Reddit), virtual worlds (i.e., Second Life, Minecraft, and OurWorld), and rating sites (i.e., Google Customer Reviews, Yelp, and Foursquare). Social media usage can result in active and passive interaction [73]. Active social media usage refers to online activity that allows direct exchanges between users, such as commenting, sending messages, and interacting with other users in different ways [74]. Passive usage is defined as the monitoring of others without direct interaction [75].

Social media is a critical source of information since it enables users to get data fast and easily [23,51]. Due to the way information is displayed on social media in 'thin slices' [13], consumers have difficulty determining its authenticity and reliability [76]. Usually, headlines are designed with the express purpose of capturing people's attention and are more important than the source of the information [77]. Because users may share and re-share content, genuine sources of information appear to be less reliable on social media [78,79]. This means that social media platforms are ideal to create, consume, and exchange all sorts of information, including fake news [80,81]. As a result of this lack of editorial monitoring [82], misleading claims can spread substantially wider, quicker, deeper, and more widely than true news [83]. Users frequently share, retweet, and distribute information on social media without fact-checking [84]. In this complicated informational landscape, social media usage increases the users' exposure to inaccurate information about environmentally friendly brands. Therefore, the following hypothesis can be posited:

Hypothesis 1 (H1). *Social media usage has a positive influence on users' exposure to inaccurate information on social media about environmentally friendly brands.*

Social media usage is one of the most popular online activities worldwide [85]. Although individuals initially engage in social media having an intrinsic or extrinsic motivation, during browsing, motivations can switch and/or expand. Often, users lose themselves while browsing content, chatting with friends, playing games, different new motives appear because of social media usage. The primary motivations for distributing (fake) news may be altruism [29,86], ignorance and entertainment [29], pass time, socialization, or information sharing [86]. The interactive nature of social platforms and the time spent creates opportunities for users to engage in new activities, including consuming and sharing news about environmentally friendly brands. Therefore, we hypothesize that:

Hypothesis 2 (H2). *Social media usage has a positive influence on users' motives in sharing news about environmentally friendly brands.*

The information encountered on social media about environmentally friendly brands, also called green brands, could be problematic for users to distinguish accurate information from inaccurate one [87,88]. Without recognizing the spurious content, the exposure to new (misleading) information can motivate benign users to share it. In some cases, even the malicious users that identify the content as being fake can share it due to a vast range of possible motivations, such as to inform others, to know other users' perspectives, to influence other users, to spark discussions, to entertain other social media users, to feel like they belong to a group, to demonstrate their knowledge about a specific topic, to please or to irritate others [22,89]. Therefore, in benign and malicious users' cases, the exposure to

inaccurate information creates the opportunity to determine new motivation in sharing news about environmentally friendly brands. As a result, it can be hypothesized that:

Hypothesis 3 (H3). Exposure to inaccurate information on social media has a positive influence on users' motives in sharing news about environmentally friendly brands.

3.2. Online Trust

Lack of trust has been frequently regarded as one of the most severe impediments to people interacting with different websites [90], including social networking sites. Trust is a complex and abstract concept and defining it and operationalizing seems to be challenging [91,92]. Trust refers to the willingness to believe someone based upon positive expectations from past behavior [93,94]. It can be considered that online trust is an antecedent at the individual level that can influence users' motives in sharing news about environmentally friendly brands. Different levels of online trust could influence the occurrence of different motivations among social media users in sharing news. An individual with a high level of online trust may be driven to disseminate information on social media to maintain authority among other users or to communicate with other followers of an environmentally friendly brand. Therefore, the following hypothesis can be postulated:

Hypothesis 4 (H4). Online trust has a positive influence on users' motives in sharing news about environmentally friendly brands.

Only a few studies have examined the relationship between online trust and flow experience. Trust ameliorates users' hesitancy to pay attention to the system, as the perceived risk of using the system would interfere without trust [95]. As a result, trust eliminates uncertainty or tension and facilities the flow experience. When the user's mind is overwhelmed by uncertainty or danger, it is difficult to enjoy the flow because the flow is a state of complete involvement [32]. Social media users might feel completely involved when they have a lack of online trust because trust has long been viewed as means of coping with uncertainty [96]. Trust constitutes a substitute for control because individuals feel more secure and in control when interacting with someone they trust [96]. Therefore, online trust can facilitate perceived control, which is a key dimension of the social media flow experience. Based on the above analysis, the following hypothesis is proposed:

Hypothesis 5 (H5). *Online trust exerts a positive influence on the Social Media flow.*

Trust influences flow experience, while both factors predict the use intention and the actual online behavior. Trust minimizes ambiguity and consumers' perceived risk, hence determining action [97]. Trust is created in an online environment because of successful information exchange [98] and represents an important factor in the information sharing process [99,100]. The issues of who and what to trust has grown in importance in the social media context, especially due to user-generated content and the speed of interaction [101]. Each day, social media users encounter dozens, if not hundreds, of pieces of user-generated information, and some of it may require trustworthiness evaluation. Trust information may assist a user in making important decisions, sorting, and filtering information, receiving suggestions, and developing a context within a community regarding whom and why to trust [101]. Individuals may feel comfortable sharing any news received from trusted sources, even if it seems to be fake [28]. The news fact-checking process could lack. In their excitement to continue sharing content, users may neglect the importance of checking every information received and may share it without verification in the name of speed and popularity [102].

Messages, including fake news, received from trustworthy sources are more likely to be propagated in social media and lead to increasing the organic reach [79]. Information given by a trusted source is more likely to be shared with other social media users even though is inaccurate [103]. Social media users share fake news without authentication due

to online trust and that online behavior has tremendously negative effects on organizations and brands [28]. As a result, the next hypothesis can be proposed:

Hypothesis 6 (H6). Online trust has a positive influence on sharing fake news about environmentally friendly brands on social media.

3.3. Social Media Flow and Users' Motives in Sharing News about Environmentally Friendly Brands

Social media plays an interactive and participatory nature that enhances the sense of immersion, perceived control, favors concentration, and offers rapid feedback to users becoming an ideal environment for experiencing flow [104–106] due to the great amount of time that individuals spend using it [66]. The flow experience that occurs during social media use is often referred to in the literature as *social media flow* [34]. Social media users engage in online browsing by having a clear and distinct goal in mind, such as to search for information about environmentally friendly brands and share it with their friends. An act has more than one motivation—therefore a drive, desire, wish, need, and goal are all defined as motivations [107]. From a broader perspective, when individuals initiate an activity, they may pursue an external goal (i.e., extrinsic motivated) or they may engage in actions for their reason, regardless of any external incentive system (i.e., intrinsic motivated) [22,108]. Individuals experiencing flow, are usually intrinsically motivated by the activity itself [32,66,68]. However, when they first engage in the task, they can be also extrinsic motivated [109,110] by rewards or to avoid punishments or penalties [111,112]. Intrinsic and extrinsic motivations are important antecedents of flow experience experienced while browsing mobile social network sites [68,110].

Motivation has also been considered as an antecedent of flow experience [68,109, 110,113]. Motivation as an antecedent of situational involvement in a task constitutes a prerequisite for experiencing the flow in computer-mediated environments. Online consumer behavior is influenced by both goal-directed and non-directed motives [66], motivation being an essential factor in experiencing flow. Moreover, motivation was found to have a significant relation with users' involvement on SNS pages (i.e., Facebook and Twitter) [114].

Users' motives in sharing news indicates that benign social media users (i.e., those who are not motivated political, ideological, or by financial gain as malicious ones and are unable to recognize the veracity of the shared information) share information for three main reasons: (1) self-enhancement, to be recognized as an expert or knowledgeable by other users [115], (2) social motivation, to engage with their community and feel part of a group [116] and (3) altruistic motives, to show concern for others [117] and to try to help others [118]. It can be considered that users' motives in sharing news about environmentally friendly brands can be a prerequisite for experiencing social media flow. Therefore, it can be hypothesized that:

Hypothesis 7 (H7). *The users' motives in sharing news about environmentally friendly brands positively influence the social media flow.*

Flow theory has been considered a critical component for explaining online behavior [51,63,66] and determining the stimulating quality of online experiences, particularly for social media use [51]. Literature outlines that flow experience has been proven to influence online consumers' attitudes, behavioral intentions, and behavior [119]. Social media constitutes a major source of information and assessing people's flow experiences while browsing it may be more relevant and instructive than studying their experiences when using traditional websites [120].

3.4. Social Media and Fake News

Fake news is today considered to be one of humanity's greatest threats, impacting many sectors of society, including the economy [121]. Although it has an impact on all aspects of life, it is particularly problematic in the environmental and health care sector,

where it can delay or hinder adequate care, in some cases putting people's lives at risk [122]. Fake news is not a new phenomenon [123,124], but in recent years, due to proliferation of the internet and social media, it has become more popular than ever [27]. From the telegraph in the 19th century to contemporary social media algorithms, new technologies have facilitated the spread of fake news [124]. Fake news is produced and spread on an exponential scale online, especially on social media. The growing concern among politicians and managers about the potential negative impact of fake news sparked the interest of scholars in studying it. A systematic literature review regarding fake news in social media and marketing identified a total number of 117 interdisciplinary studies [31].

Despite fake news is being commonly found on malicious websites, social media platforms such as Facebook, Twitter, WhatsApp, and Telegram are popular for the rapid transmission of dubious content [29]. In terms of popularity and engagement on social media, fake news exceeded actual news [125], and it became critical for brands to understand how this proliferation could hinder their marketing efforts [126]. There are seven types of fake news [127]: (1) satire or parody (i.e., when authors use irony and exaggeration to be comedic rather than to harm receivers), (2) misleading content (i.e., when authors use the information to present an issue or individual in a distorted perspective), (3) imposter content (i.e., when the message's source pretends to be someone else), (4) fabricated content (i.e., when authors disseminate completely false information with the intent to deceive and cause damage), (5) false connection (i.e., when the headline, visual elements, and/or factual substance of a news item have no logical relationship), (6) false context (i.e., when authors blend true and inaccurate contextual information), and (7) manipulated content (i.e., when authors alter genuine information or imagery to deceive others). In many cases, malicious sources combine these types of content, resulting in more effective hybrid forms of fake news. The complex process of creating fake news, the extent to which fake news can be produced and replicated, the vast variety of fake news formats (i.e., texts, pictures, video clips, infograms, memes, gifs, etc.), the efficiency and speed through which fake news is propagated on social media, and the high level of commitment shown by those exposed to it (expressed through likes, shares, comments, recommendation or purchasing) have all turned fake news into a pervasive phenomenon [27].

In contrast to *news*, defined as "independent, reliable, accurate, and comprehensive information" about an organization (p. 11, [128]), *fake news* is inaccurate, false, or grossly distorted information presented as news to deceive the audience [129]. Fake news can also be conceptualized as "the presentation of false claims that purport to be about the world in a format and with a content that resembles the format and content of legitimate media organizations" (p. 20, [130]) or as the information that is designed to be confused with legitimate news and is intentionally false [131]. Fake news articles are intentionally fabricated to be deceptive and can be proven that they are false [132]. Fake news is also associated with the "intentionally and verifiably wrong or false news produced to earn money and/or promote ideologies" (p. 213, [13]), being able to "intentionally and verifiably false and could mislead readers" (p. 213, [13]).

To experience flow, social media users must be able first to concentrate on the task and perceive that they can complete it. Considering the peculiarities of social media sites (i.e., interactivity, instant feedback, and information richness), individuals must perceive a balance between available capabilities and task challenges and must receive immediate feedback [44,106,133–136]. In this process, social media users concentrate solely on the task at hand and act with deep, effortless, and total involvement [44,51,137]. Being an enjoyable experience [106,138], they perceive a sense of control over their activities [44,51,106], and become immersed in the activity due to self emerges with action [44,51,106,139–141]. A distortion in time perception and the duration of time is altered, hours pass in minutes, and minutes might expand to appear as hours [44,51,62,142]. As a result of the flow experience, social media users can engage in sharing information, including fake news about environmentally friendly brands. Previous research has broadly applied flow theory, particularly in the context of social media usage behavior [55,106]. Flow theory has been

used to explain health-related social media sharing behavior [143], but no model has yet been empirically tested. Therefore, it is reasonable to adopt flow theory and examine its impact on social media users' behavior of sharing fake news about environmentally friendly brands, so it can be inferred that:

Hypothesis 8 (H8). Social media flow has a positive influence on sharing fake news about environmentally friendly brands on social media.

4. Research Methodology

4.1. Research Design and Research Context

The aim of this research was to determine the prerequisites that generate *sharing fake news online about environmentally friendly brands* by considering *social media flow* to be an important antecedent of users' behavior. Specifically, based on the theoretical developments, the research model from Figure 1 is proposed to analyze the mediated impact of social media flow on sharing fake news about environmentally friendly brands on social media. *The social media flow* is generated by social media usage, exposure to inaccurate information on social media, motives in sharing news about environmentally friendly brands, and online trust. Figure 1 depicts the proposed theoretical model.

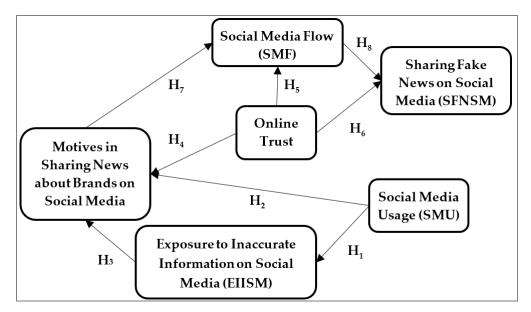


Figure 1. Theoretical model: Prerequisites of Sharing Fake News on Social Media.

The research is based on an empirical investigation that relied on a quantitative survey via online interviews administered between November and December 2021 in Romania. The authors' choice for conducting the investigation on the Romanian emerging market is justified as the country ranks 4th (232.17 Mbps) worldwide in the fastest Broadband Internet Speeds in 2021, after Monaco (261.82 Mbps), Singapore (255.83 Mbps) and Hong Kong (254.70 Mbps), before UK, France, Germany, or the USA [35]. The internet penetration rate in 2021 was estimated at 80%, while from about 19 million inhabitants 12 million were heavy social media users [1]. The yearly increase 2020–2021 of social media users is estimated at 1 million (+9%), while the number of "mobile connections" was in 2021 the equivalent to 135.6% of the total population [1], meaning that social media users are connected on about two devices on Facebook, Instagram, TikTok, etc. Therefore, Romania can be considered a quite relevant international benchmark for social media usage and for conducting this investigation, as it represents a valuable research context for both theory and practice.

The aim was to conduct a rigorous investigation on the internet and social media usage, according to quota samples from the Romanian national statistics based on age

and gender [144]. The challenge was to find updated national statistics about the internet penetration and social media usage. The Romanian National Statistics [145] does not yet report the breakdown of internet and/or social media users on gender, age, etc., thus the authors could only rely on the estimations of international organizations [1]. As there is a lack of information regarding the exact number of Romanian males and females using the internet and social media, as well as their age, the authors opted for convenience sampling, thus aiming at coming close to the national breakdown on gender. Therefore, emails have been sent by the authors to social media users, via e-mail distribution groups of students, but also posted on social media platforms such as Facebook, Instagram, LinkedIn, etc. A total of 986 responses were collected and 922 responses were valid and retained after data quality checking (questionnaires with missing data were dismissed as in some cases respondents dropped filling in all measures). At the beginning of the survey, respondents were asked to think of any environmentally friendly brand they like most or they buy most frequently and to assess all items according to these brands.

Social media users (see Table 1) comprised 55.7% females (N = 524) and 44.25% males (N = 408). Most social media users were well educated: 0.1% were out-of-school (N = 1), 0.8 graduated the primary school (N = 7), 5.1% gymnasium (N = 47), 10 classes 7.6% (N = 70), vocational school 6.3% (N = 58), high school 40.6% (N = 374), college 5.6% (N = 52), university 22.8% (N = 210), postdoctoral studies 11.2% (N = 103). In total, 45.8% of respondents (N = 445) were less than 30 years old, 44.1% (N = 430) between 30~50 years, while 10.1% (N = 70) had more than 50 years. The mean age was of 32.36 years. In total, 43.5% of respondents had a low income, under the minim income in Romania (N = 401), 47.6% earned a middle income—between the minimum and the average income (N = 439) and 8.9% a high income—above the average income (N = 82).

Dimension	Variable	Frequency Percentage		Percentage	Deviation	
				National Statistics *	of Sample vs. Statistics *	
C 1	Female	524	55.75%	51.1%	+4.65	
Gender	Male	408	44.25%	48.8%	-4.55	
	Out-of-school	1	0.1%	n/c	n/c	
	Primary school	7	0.8%	n/c	n/c	
	Gymnasium	47	5.1%	n/c	n/c	
	10 classes	70	7.6%	n/c	n/c	
Education	Vocational school	58	6.3%	n/c	n/c	
	High school	374	40.6%	n/c	n/c	
	Čollege	52	5.6%	n/c	n/c	
	University	210	22.8%	n/c	n/c	
	Postdoctoral studies	103	11.2%	n/c	n/c	
	<30 years	445	45.8%	31%	+14.8%	
Age	30–50 years	430	44.1%	30%	+14.1%	
O	>50 years	70	10.1%	39%	-28.9%	
	Low	401	43.5%	n/c	n/c	
Income	Middle	439	47.6%	n/c	n/c	
	High	82	8 9%	n/c	n/c	

Table 1. Socio-demographic characteristics of the sample versus Romanian statistics.

Note: n/c: not considered; * The Romanian National Statistics [145] only refers to the population breakdown according to gender and age-groups, and not to the internet or social media usage. Therefore, a quota sampling on these characteristics is not yet possible.

4.2. Questionnaire Design and Measures

The questionnaire was developed starting with the relevant literature. The items of the questionnaire were taken from different scales, as recommended by the literature [146]. We used a five-point Likert scale (ranging from total disagreement to total agreement) and adapted the scales to the given research context, as being presented in Table 2. Six

main constructs were delimited, namely Social Media Usage (SMU) (reflective construct comprising 3 items), Exposure to Inaccurate Information on Social Media (EIISM) (reflective construct comprising 1 item), Motives in Sharing News about Brands on Social Media (MSNSM) (reflective construct comprising 7 items), Online Trust (OT) (reflective construct comprising 2 items), Social Media Flow (SMF) (reflective construct comprising 5 items) and Sharing Fake News on Social Media (SFNSM) (reflective construct comprising 5 items).

Table 2. Constructs and items.

	Item	Measure	Loading	Cronbach's Alpha/AVE/CR	Source	
	SMF1	While using social media, I am deeply engrossed.	0.763	_		
Social Media Flow	SMF2	While using social media, I am immersed in the task I am performing.			Adapted from Kwak et al. [68]; Brailovskaia et al.	
(SMF)	SMF3	Time flies when I am using social media.		0.836/0.603/0.884		
	SMF4	While using social media, I often lose track of time.	0.829		[147]	
	SMF5	While using social media, I often spend more time than I had intended.	0.781			
	SFNSM1	The news I shared on social media about environmentally friendly brands seemed accurate at the time, but later I found out it was made up.	0.868			
	SFNSM2	The news I shared on social media about environmentally friendly brands was exaggerated, but I was not aware of this at the time of sharing.	environmentally friendly brands was aggerated, but I was not aware of this at the time of sharing. The news I shared on social media about nvironmentally friendly brands seemed 0.828 0.828		Adapted from Chadwick and Vaccari [89]	
Sharing Fake News on Social Media (SFNSM)	SFNSM3	The news I shared on social media about environmentally friendly brands seemed to be real news at the time of sharing, but later I found out that was fake news.				
	SFNSM4	The news I shared on social media about environmentally friendly brands initially seemed accurate but was later proven to be a hoax.	0.882			
	SFNSM5	The satirical news I shared on social media about environmentally friendly brands was presented as real news.	0.727			
	OT1	I trust the information that is shared on social media (Facebook, Instagram, Twitter, TikTok, etc.).			Adapted from	
Online Trust (OT)	OT2	I trust the news that is shared on social media (Facebook, Instagram, Twitter, TikTok, etc.).	0.938	0.846/0.866/0.928	Fang et al. [148]	
Motives in Sharing News about Brands	MSNSM1	When I share news about brands on social media (Facebook, Instagram, Twitter, TikTok, etc.) is important to find out other people's opinions.	0.766			
	MSNSM2	to influence others.	0.797		Adapted	
	MSNSM3	SM3 to provoke discussions.		0.893/0.609/0.916	from Chadwick and	
on Social Media (MSNSM)	MSNSM4	to entertain others.	0.756		Vaccari [89]	
	MSNSM5	to feel like I belong to a group.	0.835			
	MSNSM6	6M6 to demonstrate my knowledge.				
	MSNSM7	to please others.	0.743			

Table 2. Cont.

	Item	Measure	Loading	Cronbach's Alpha/AVE/CR	Source	
Exposure to Inaccurate Information on Social Media (EIISM)	EIISM1	Over the last month, I come across news on social media that I thought was not fully accurate/authentic.	1.000	1.000/1.000/1.000	Adapted from Chadwick and Vaccari [89]	
Social Media Usage (SMU)	SMU1	On average, I spend a lot of time browsing on Facebook.	0.738			
	SMU2	On average, I spend a lot of time browsing on Instagram.	0.869	0.721/0.643/0.843	Adapted from Chadwick and Vaccari [89]	
	SMU3	On average, I spend a lot of time browsing on TikTok.	0.794		vaccari [07]	

Note: Factor loading > 0.7; Cronbach's alpha > 0.7; average variance extracted (AVE) > 0.5; composite reliability > 0.7.

5. Results

5.1. The Evaluation of the Measurement Models

The conceptual model and the developed hypothesis were analyzed relying on structural equations modeling in SmartPLS 3.0 (see Figure 1). All reflective constructs were checked for validity and internal consistency, the item loadings, average variance extracted (AVE), reliability indicators, and discriminant validity are computed in Table 3. All loadings are above the minimum thresholds of 0.70, suggesting that all measured items have convergence validity [149]. The minimum and maximum values range between 0.727–1.000, fulfilling the minimum thresholds. Reliability was tested using Cronbach's α , which must exceed the threshold of 0.7 to be acceptable for confirmatory purposes [150]. All reliability values are above 0.7, confirming the internal consistency of the model. All AVE values are above 0.5, which indicates an adequate model [151] and support the convergent validity of the constructs. The composite reliability (CR) also suggests the reliability of the constructs, with the composite values being greater than 0.7 [149].

Table 3. Discriminant validity analyses (Forner-Larcker).

Construct	OT	EIISM	MSNSM	SFNSM	SMF	SMU
OT	0.931					
EIISM	-0.048	1.000				
MSNSM	0.161	0.094	0.781			
SFNSM	0.176	0.043	0.263	0.841		
SMF	0.244	0.107	0.233	0.192	0.777	
SMU	0.042	0.160	0.236	0.090	0.296	0.802

Note: OT: Online Trust; EIISM: Exposure to Inaccurate Information on Social Media; MSNSM: Motives in Sharing News about Brands on Social Media; SFNSM: Sharing Fake News on Social Media; SMF: Social Media Flow; SMU: Social Media Usage.

To test the discriminant validity of each construct the Fornell–Larcker and heterotrait–monotrait criteria were used (Table 3). Based on the Fornell–Larcker criterion [149,150], for each latent variable AVE value is higher than the correlation coefficient between the competent and all the distinct variables.

To avoid the possibility that the constructs are conceptually similar, the HTMT criteria was taken into consideration. The threshold value is 0.9 [152]—in the present study all constructs values are below 0.9, indicating the discriminant validity of the constructs (Table 4).

Construct	OT	EIISM	MSNSM	SFNSM	SMF	SMU
OT						
EIISM	0.053					
MSNSM	0.186	0.098				
SFNSM	0.201	0.045	0.295			
SMF	0.283	0.121	0.263	0.222		
SMU	0.069	0.189	0.291	0.110	0.378	

Table 4. Discriminant validity analyses (heterotrait–monotrait).

Note: OT: Online Trust; EIISM: Exposure to Inaccurate Information on Social Media; MSNSM: Motives in Sharing News about Brands on Social Media; SFNSM: Sharing Fake News on Social Media; SMF: Social Media Flow; SMU: Social Media Usage.

The level of collinearity of the items in the measurement model for the dataset was further addressed. The VIF value of all indicators is below 5, which is considered the threshold in the collinearity analyses [153]. The highest value is 3.411 (SFNSM3 item) for the dataset, indicating there is no multicollinearity. Next, a bootstrap procedure was applied to test the hypotheses and the relationships between the latent variables. All hypotheses were accepted with a significant, positive relationship based on t-statistics.

5.2. The Evaluation of the Structural Models

To perform a full analysis of the structural model, it was necessary to examine the constructs' collinearity. The highest VIF value of the inner model is 1.063 (SMF \rightarrow SFNSM), thus below the threshold value, indicated that there is not any multicollinearity between constructs. The goodness of fit of the saturated model is also acceptable. The square root mean residual (SRMR) has a value of SRMR = 0.051 which fulfills the recommended criteria < 0.08.

Besides, Social Media Usage explains 2.6% of the variance of Exposure to Inaccurate Information on Social Media ($R^2 = 0.026$), while Social Media Usage, Online Trust and Exposure to Inaccurate Information on Social Media explain 8.3% of the variance in Motives in Sharing News about Brands on Social Media ($R^2 = 0.083$). Furthermore, 9.8% of the variance in Social Media Flow ($R^2 = 0.098$) is explained by Motives in Sharing News about Brands on Social Media and Online Trust, while 5.5% in the variance of Sharing Fake News on Social Media ($R^2 = 0.055$) is explained by Online Trust and Social Media Flow, defining a moderate predicting power of the structural model (see Figure 2).

Table 5 indicates a positive significant effect between the Social Media Usage and the Exposure to Inaccurate Information on Social Media, i.e., dynamic nature of the social networks and the amount of time spent browsing enable users to engage in new activities, such as consuming inaccurate information ($\beta = 0.160$; T-value = 5.091 and p < 0.001). Therefore, H1 is supported. H2 assumed that the Social Media Usage has a positive influence on the Motives in Sharing News about Brands on Social Media. The results ($\beta = 0.219$; T-value = 6.143 and p < 0.001) confirms that there is a meaningful relationship between the Social Media Usage and the Motives in Sharing News about Brands on Social Media, therefore H2 is supported. H3 presumed that the Exposure to Inaccurate Information on Social Media exerts a positive influence on the Motives in Sharing News about Brands on Social Media. The results ($\beta = 0.066$; T-value = 1.197 and p < 0.05) prove that the relation is positive and partially significant, allowing us to partially accept H3. H4 assumed that Online Trust has a positive influence on the Motives of Sharing News about Environmentally Friendly Brands on Social Media, meaning that online trust can determine social media users to engage in online activities being intrinsic or extrinsic motivated. The obtained results ($\beta = 0.156$; T-value = 4.932 and p < 0.001) show the positive and significant influence of the Online Trust on the Motives in Sharing News about Environmentally Friendly Brands, thus, H3 is supported by the empirical data.

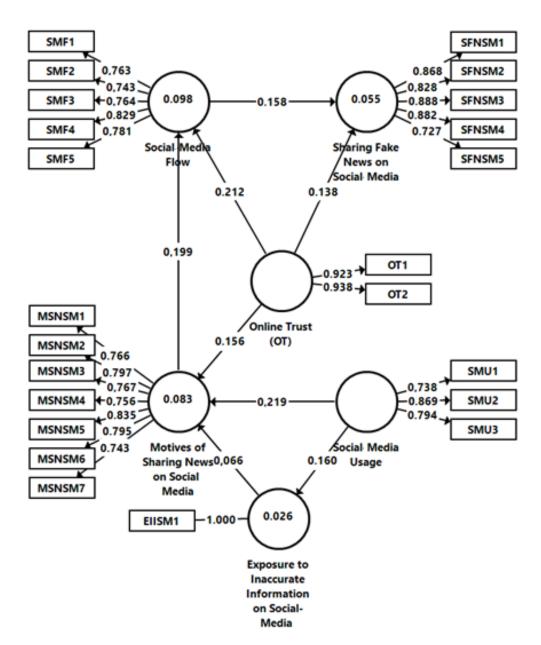


Figure 2. Structural model: Prerequisites of Sharing Fake News on Social Media.

Table 5. The path coefficients of the structural equation model.

Paths	Path Coefficients	Standard Deviation	T-Value	CI ¹	<i>p</i> -Value	Hypotheses
SMU→EIISM	0.160	0.032	5.091	0.100-0.277	0.000 **	H1-Supported
$SMU \rightarrow MSNSM$	0.219	0.036	6.143	0.147 - 0.285	0.000 **	H2-Supported
$EIISM \rightarrow MSNSM$	0.066	0.034	1.967	-0.006 -0.130	0.050 *	H3-Supported
$OT \rightarrow MSNSM$	0.156	0.032	4.932	0.096-0.218	0.000 **	H4-Supported
$OT \rightarrow SMF$	0.212	0.034	6.247	0.147 - 0.278	0.000 **	H5-Supported
$OT \rightarrow SFNSM$	0.138	0.034	4.009	0.076 - 0.205	0.000 **	H6- Supported
$MSNSM \rightarrow SMF$	0.199	0.030	6.632	0.142 - 0.254	0.000 **	H7- Supported
$SMF \rightarrow SFNSM$	0.158	0.033	4.800	0.094-0.221	0.000 **	H8-Supported

Note: * p < 0.05; ** p < 0.001; OT: *Online Trust*; EIISM: Exposure to Inaccurate Information on Social Media; MSNSM: Motives in Sharing News about Brands on Social Media; SFNSM: Sharing Fake News on Social Media; SMF: Social Media Flow; SMU: Social Media Usage. 1 CI = Confidence Interval (2.5–97.5%).

H5 presumed that the Online Trust exerts a positive influence on the Social Media Flow meaning that users' online trust positively influences the optimal experience in social media, also called social media flow. This means individuals may feel comfortable to enjoy the activity, because of reduced ambiguity and perceived risk, and experience flow. The results ($\beta = 0.212$; T-value = 6.247 and p < 0.011) confirm that there is indeed a positive and significant impact of the Online Trust on the Social Media Flow, hence H5 is accepted. H6 assumed that Online Trust has a positive influence on Sharing Fake News about Environmentally Friendly Brands on Social Media, i.e., people feel secure spreading any news they get from credible sources about environmentally friendly brands on social media, even if it appears to be inaccurate. The results ($\beta = 0.138$; T-value = 4.009 and p < 0.001) show that there is a positive and strong relation between these constructs, hence H6 is also accepted. H7 presumed that the Motives in Sharing News about Environmentally Friendly Brands on Social Media has a positive influence the Social Media Flow, i.e., users' different motivations determine the occurrence of the optimal experience while browsing SNS. The results ($\beta = 0.199$; T-value = 6.632 and p < 0.001) prove the positive and significant relation, thus allowing to accept H7. H8 presumed that the Social Media Flow has a positive influence on Sharing Fake News about Environmentally Friendly Brands on Social Media, i.e., flow partially explains users' behavior of sharing fake news about environmentally friendly brands on social media. The results ($\beta = 0.158$; T-value = 4.800 and p < 0.001) prove the positive and significant relation, thus allowing to accept H8 (see Table 5).

6. Discussions

The proposed model, in which sharing fake news is a consequence of social media flow, is supported by a substantial body of flow literature. According to previous research, flow has been used to explain a variety of specific user behaviors associated with communication and information use in an online context, including the use of information, communication, or information technology [138,154,155], online information searches [47,156,157], online communication [158], online user behavior [159], mobile internet usage and continuity [97,160], or use of social media [51]. Since spreading fake news is a distinct type of behavior related with communication and use of information in an online context, the findings of our study contribute to the current knowledge.

The results of the research highlight that social media usage (SMU) has a positive influence on users' exposure to inaccurate information on SNS about environmentally friendly brands (H1). The finding corroborates other scholars' assumptions that social media is a significant source of information [51] and that authentic sources of information are less trustworthy on social media [79], exposing social media users to inaccurate information, including fake news [80,81]. It has been shown that social media usage has a positive influence on users' motives in sharing news about environmentally friendly brands (H2). These results are in line with prior findings [29,161] suggesting that individuals can share fake news having different motivation (intrinsic or extrinsic) when using social media platforms. Our study demonstrates that individuals' motivations for sharing news about environmentally friendly brands are influenced by their use of social media.

The results reveal that online trust has a positive effect on the social media flow (H5). This finding is consistent with prior research [95,96] and emphasizes that online trust is a prerequisite of users' optimal experience while browsing on social media. Online trust had a positive influence on sharing fake news on social media (H6) which is consistent with previous findings [162–164]. In a systematic literature review regarding sharing health information across online platforms, Le et al. [143] outline that in 19 articles trust was emphasized as a necessary condition that enables users to share HRI (health related information) on social media, being a key metric when considering whether to share information. Therefore, our study presents similar findings but in the context of sharing fake news about environmentally friendly brands on social media. Existing research [10] indicates that user motivation has a positive effect on the social media flow.

The insight regarding users' motives in sharing news about environmentally friendly brands positively influence the social media flow (H7) is consistent with previous research in the flow literature, which has identified motivation as a predictor of flow experience [66,68,109,110,113]. In the current study, social media flow proved to have a positive influence on sharing fake news about environmentally friendly brands on social media (H8). Sharing fake news is a particular behavior that occurs in the context of social media usage. Previous studies from flow literature indicate that optimal experience influences users' behavior while browsing online [55,106]. The research builds up on previous findings, but also highlights an important contribution in sharing fake news about environmentally friendly brands on social media context. Flow theory has been used to explain the health-related information sharing behavior on social media [143]. A recent study [164] indicates important differences in perception of fake news among the young and the middle-aged generations in terms of apprehension, interpretation, relation to fake news and media literacy, which might be a possible future research direction.

Fake news caused financial losses not only to commercial brands, such as PepsiCo, New Balance, and Starbucks [10] but also to environmentally friendly brands. For instance, Patagonia was a massive target of fake Facebook ads for its products between February and July 2020. In this period, Patagonia received over 1500 complaints of fraudulent Facebook ads for its products and submitted 236 notifications to Facebook regarding the problematic ads. The fake ads spread extensively on social media, creating significant financial damage to brands because the consumers may believe they are purchasing low-quality items if they are unaware the goods are counterfeit. As a result, Patagonia paused its ad spending on Facebook, in protest of the way the platform was handling hate speech and bogus content [165].

In 2021, Ricco Kimborough, a TikTok user, posted a bogus video online showing "his" Tesla Model S Plaid's airbag unit falling in his hand. The video quickly went viral. Although he apologized for the fake viral video, the negative Tesla story generated massive clicks and propagated quickly on social media, and most of the users missed the revised information because it did not go viral like the initial fake post. Moreover, Jalopnik, the anti-Tesla auto blog, covered the fake viral TikTok video from a non-Tesla owner as if it were factual [166].

The current state of the art regarding fake news consequences indicates harmful effects of this phenomenon on society, businesses, and consumers' level. Each level of study focuses on distinct links between the target and spreaders of fake news, as well as the numerous sources of legitimacy for fake news. Most current study focuses on the larger social level, mostly on the consequences of political fake news on voters and, in turn, on policymakers [31].

Fake news is being used to influence consumers' perceptions regarding companies or products [167–169]. For example, as soon as the Pfizer-BioNTech vaccine was released [170], it became the top target of fake news, conspiracy theories, and disinformation efforts (i.e., mRNA vaccines alter human DNA), reaching millions of users on platforms such as Twitter, Reddit, and 4chan [170]. The dissemination of fake news on social media is a primary source of vaccine hesitancy, which is one of the major dangers to world health [171]. Therefore, when a company is a victim of fake news, it must carefully design a response strategy to minimize the negative impact [172].

Companies may sponsor and legitimize fake news while also being tainted by affiliation [18]. When confronted with fake news, users are more inclined to believe it if it is funded by a well-known brand [167]. Consequently, fake news has a negative influence on customer brand attitudes. When a company's advertisement appears alongside fake news or on a fake news website, customers' perceptions of source credibility affect brand trust and, as a result, brand attitudes [173]. Additionally, the associations with fake news led companies to significant reputational problems [174]. Advertising, specifically programmatic online advertising, facilitates the interaction between businesses and fake news [167]. The method of automating the distribution and placement of information to capture web

traffic is known as programmatic advertising [175]. Because companies are increasingly choosing online advertising, fake news producers are driven to produce more fake content for increasing web traffic. As a result, programmatic advertising and fake news reinforce each other, worsening the impact of fake news on corporate branding and consumer brand perceptions [173,175,176]. Fake news can have damaging consequences that go beyond marketing [31]. For instance, individuals' media trust and capacity to recognize real from fake news are affected as an effect of exposure to fake news in mainstream media [177]. This can generate confusion regarding prior knowledge, concerns about whether it is correct, and reliance on incorrect information [178]. As a result, individuals can underlie their next actions and decisions on this incorrect information. This can have detrimental consequences in politics [13], health-related concerns such as vaccination [179], finance, stock markets, and marketing [180].

Elon Musk's case (i.e., the CEO of Tesla, SpaceX, and The Boring Company) illustrates how tweets and Facebook posts can harm sustainable brand stocks, generating investor lawsuits and governmental investigations. The proliferation of fake news on social media has accelerated during the COVID-19 pandemic [181–184], contributing to the outbreak's propagation by overwhelming the government health releases online, which are quickly shared and spread to global audiences. The COVID-19 induced propagation of fake news on social media [185–187], with false content shared [188–190] that had strong effects among audiences worldwide. Social media platforms were first designed to facilitate relationships between friends, but, nowadays, they have evolved into critical pathways for the production and dissemination of information and news [80,81]. Fake news stories shared via social media get entwined with journalism and become a major source of information, as they are perceived as genuine news by the public [191]. In this complicated context and considering the real consequences for companies, explaining users' behavior of sharing fake news about environmentally friendly brands on social media becomes extremely important [29].

For instance, pharmaceutical companies such as Pfizer and Moderna have suffered significant damage because of rumors, conspiracy theories, misinformation, misleading connections, or manipulated content propagated through social media platforms [192]. During COVID-19, 46% of the United Kingdom's population was exposed to COVID-19-related fake news [193], and more than 25% of the most popular COVID-19-related YouTube videos contained inaccurate or misleading content, reaching over 62 million views globally [194]. Apuke and Omar [86] confirmed the importance of online information trust in predicting fake news sharing related to the COVID-19 pandemic among social media users.

7. Conclusions

7.1. Theoretical Contributions

Previous research in the field of fake news used different theories to explain various aspects of social media users' behavior (i.e., selective exposure theory, uses and gratifications theory, social comparison theory, rational choice theory, or self-determination theory), but in this paper, theoretical knowledge is extended based on the social media flow, as a basic construct deduced from flow theory. This represents a significant factor influencing fake-news-sharing behavior and implies that brand communicators should prioritize monitoring users' experiences on social media to establish preventative and reactive communication strategies in response to the proliferation of fake news online. The research extends knowledge about the marketing outcomes of social media flow and contributes to a better understanding of the antecedents of sharing fake news about environmentally friendly brands on social media.

Furthermore, the conceptual model also investigates for the first time the relation between the exposure to inaccurate information on social media and users' motives in sharing news about environmentally friendly brands (H3), and the influence of online trust on users' motives in sharing news about environmentally friendly brands (H4). No other

studies in the literature have been found investigating these effects which have been proven to be strong and significant, thus contributing to enhancing users' sharing of fake news on social media. These findings represent a powerful and important original contribution of the paper.

Another important theoretical contribution of the paper lies in the fact that previous models have not linked the flow theory to spreading fake news via social media. This finding, investigated on an emerging market with a high number of new social media users, also represents a strong managerial contribution, as marketers from organizations need to be very careful about the news that their followers spread via social media, thus making it possible for inaccurate and/or false information to gain the rapid attention and trust of consumers who might not have the time and/or interest to check their reliability, thus causing potential harms to brands or products.

The current study contributes to the flow and fake news literature by providing new insights on the effects of social media flow and the factors that contribute to the spreading of fake news. The approach is unique in that it examines social media users' optimal experiences and the effect on user behavior, such as sharing fake news. The suggested model (see Figure 1) is more parsimonious than existing models from the fake news literature since the flow experience is one in which social media users are cognitively efficient, motivated, and happy. Additionally, the proposed model explains social media users' behavior in sharing fake news by considering new factors not previously examined in the literature.

Various psychological variables have been examined in the fake news literature, including individual motivation (i.e., sharing motives), attention, belief (i.e., influenced by delusionality, dogmatism, religious fundamentalism, bullshit receptivity, and overclaiming), reasoning style (e.g., analytic thinking, heuristics, or mental shortcuts), truth discernment, overconfidence, prior knowledge, the illusory truth effect, perceived source credibility, belief in news content, emotional reaction (positive or negative) to fake news, etc., to explain why social media users share fake news [195], but not the holistic experience (i.e., social media flow) that can occur during browsing SNS. Therefore, this study contributes to the psychology of fake news by emphasizing not only the cognitive or affective variables that influence this type of behavior, but also the holistic experience users have on social media, which requires the individual to be cognitively efficient, motivated, and happy at the same time.

Fake news spreaders can be non-human (i.e., social bots and cyborgs) or real human beings (e.g., social media users) [17] but it is more difficult to counteract human creators and spreaders of fake news than non-human representatives [10]. Therefore, it is crucial to better understand the psychological factors that predict the sharing behavior of fake news on social media. Therefore, we consider that the current model based on flow theory helps us to better understand the fake news activity on SNS.

7.2. Managerial Implications

Among the managerial contributions of the paper, it can be highlighted that brand managers are provided with a deeper insight into social media users' behavior when it comes to distributing bogus news about environmentally friendly brands. Brand managers may develop a better understanding of how this type of deceptive content spreads on social media, so they can assess potentially risky information that could affect brands in real-time. Online-shared fake news has the potential to harm brands; thus, practitioners should focus on leveraging social media platforms to counteract fake news, such as by converting SNS users into endorsers or spreaders of genuine information. Additionally, marketers should motivate social media users to detect potential fake news disseminated about brands and act as gatekeepers.

Brand managers should also educate customers to evaluate the accuracy of brand information shared via social media. This means that promoting media literacy could be a critical proactive strategy for reducing the unintended social media spread of bogus news.

Enhancing social media users' awareness of fake news and its detrimental consequences on brands may result in a decrease in sharing activity. The brand manager should persuade clients to verify information using brand websites or legitimate sources. In this regard, AI technology can be used to immediately detect and inform communication specialists, thereby limiting the propagation of unverified news to social media users.

7.3. Limitations and Future Work

The research has several limitations that should be considered in the context of future perspectives. Because the study was conducted in a single country, the findings cannot be generalized to other social contexts, and the results must be interpreted in the given cultural setting. Future research should focus on testing the proposed model in other geographical and/or cultural regions throughout the world. The conceptual model has been tested for environmentally friendly brands. Future studies could replicate the model by considering environmentally versus non-environmentally friendly brands, but also could rely on analyzing such brands in different industries (food versus non-food or fashion versus electronic articles, etc.). An interesting future research direction could also lead on determining the fake news spread intention of younger versus older people or of baby boomers versus generation Xers or millennials.

Another limitation of the research regards the fact that the items were measured using data from a self-administered questionnaire, which is a retrospective measure. Future studies could rely, for instance, on objective measurement methods for capturing cognitive and affective states, such as the experience sampling method (ESM), in which respondents are asked to describe their flow experience at random times during the day. As the research relied on convenience sampling, there are some more limitations characteristic of non-probability sampling. In this regard, the sample might not be representative for the basic social media user population. Future research could test the model using, for instance, probability sampling. Furthermore, the research model could be expanded in future studies by also including additional constructs such as social media users' personality traits, sociodemographic characteristics (age and education), contextual variables (internet use and visit goals), the device(s) used to browse social media (smartphone, tablet, watch, or glasses), other users' motivations for sharing fake news about brands, and platform characteristics (i.e., number of shares/retweets, number of likes, etc.), to better understand the fake-news-sharing behavior.

As the current research did not make any distinctions between intentionally sharing (with or without harmful intent) and unintentionally sharing fake news about environmentally friendly brands, future studies could focus on examining in detail these two contexts and shed light on social media users' motivations of deliberately sharing bogus information vs. unknowingly sharing incorrect information about environmentally friendly brands. Future research could also consider fake news spread behavior on emerging markets versus developed ones, or on markets with high access to internet and increased internet speed versus markets with limited access to internet.

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References

- 1. DataReportal. Digital 2022 Global Overview Report. 2022. Online Report. Available online: https://datareportal.com/reports/digital-2022-global-overview-report (accessed on 3 February 2022).
- 2. Shu, K.; Sliva, A.; Wang, S.; Tang, J.; Liu, H. Fake news detection on social media: A data mining perspective. *ACM SIGKDD Explor. Newsl.* **2017**, *19*, 22–36. [CrossRef]
- 3. Pew Research Center (PRC). News Use Across Social Media Platforms in 2020. Online Report. 2022. Available online: https://www.pewresearch.org/journalism/2021/01/12/news-use-across-Social-Media-platforms-in-2020 (accessed on 29 January 2022).
- 4. Baum, D.; Spann, M.; Füller, J.; Thürridl, C. The impact of social media campaigns on the success of new product introductions. *J. Retail. Consum. Serv.* **2018**, *50*, 289–297. [CrossRef]
- 5. Torres de Oliveira, R.; Indulska, M.; Steen, J.; Verreynne, M.L. Towards a framework for innovation in retailing through social media. *J. Retail. Consum. Serv.* **2019**, *54*, 101772. [CrossRef]
- 6. Movsisyan, S.A. Social media marketing strategy of Yerevan brandy company. Ann. Agrar. Sci. 2016, 14, 243–248. [CrossRef]
- 7. Yadav, M.; Joshi, Y.; Rahman, Z. Mobile social media: The new hybrid element of digital marketing communications. *Procedia Soc. Behav. Sci.* **2015**, *189*, 335–343. [CrossRef]
- 8. Salim, N.; Ab Rahman, M.N.; Wahab, D.A.; Muhammed, A.A. Influence of Social Media Usage on the Green Product Innovation of Manufacturing Firms through Environmental Collaboration. *Sustainability* **2020**, *12*, 8685. [CrossRef]
- 9. Zhang, W.; Chintagunta, P.K.; Kalwani, M.U. Social Media, Influencers, and Adoption of an Eco-Friendly Product: Field Experiment Evidence from Rural China. *J. Mark.* **2021**, *85*, 10–27. [CrossRef]
- 10. Obadă, D.R. Sharing Fake News about Brands on Social Media: A New Conceptual Model Based on Flow Theory. *Argum. J. Sem. Disc. Logic Argum. Theo. Rhet.* **2019**, *17*, 144–166.
- 11. Fârte, G.; Obadă, D.R. The Effects of Fake News on Consumers' Brand Trust. Roma. J. Com. Public Rel. 2021, 23, 47-61. [CrossRef]
- 12. Zhang, M.; Xu, P.; Ye, Y. Trust in social media brands and perceived media values: A survey study in China. *Comput. Hum. Behav.* **2022**, 127, 107024. [CrossRef]
- 13. Allcott, H.A.; Gentzkow, M. Social Media and Fake News in the 2016 Election. J. Econ. Persp. 2017, 31, 211–236. [CrossRef]
- 14. Fulgoni, G.M.; Lipsman, A. The Downside of Digital Word of Mouth and the Pursuit of Media Quality. *J. Advert. Res.* **2017**, *57*, 27–31. [CrossRef]
- 15. Dwivedi, Y.K.; Ismagilova, E.; Hughes, D.L.; Carlson, J.; Filieri, R.; Jacobson, J.; Jain, V.; Karjaluoto, H.; Kefi, H.; Krishen, A.S.; et al. Setting the future of digital and social media marketing research: Perspectives and research propositions. *Int. J. Inf. Manag.* **2021**, 59, 102168. [CrossRef]
- 16. Li, Y.; Fan, Z.; Yuan, X.; Zhang, X. Recognizing fake information through a developed feature scheme: A user study of health misinformation on social media in China. *Inf. Proc. Manag.* **2022**, *59*, 102769. [CrossRef]
- 17. Zhang, X.; Ghorbani, A.A. An overview of online fake news: Characterization, detection, and discussion. *Inf. Proc. Manag.* **2020**, 57, 102025. [CrossRef]
- 18. Berthon, P.R.; Treen, E.R.; Pitt, L.F. How Truthiness, Fake News and Post-Fact Endanger Brands and What to Do About It. *GfK Mark. Int. Rev.* **2018**, *10*, 18–23. [CrossRef]
- 19. Coffee, P. PR Fail: Barilla Chairman Says He Will 'Never' Include Gays in Ads 2013. Available online: https://www.adweek.com/digital/pr-fail-barilla-chairmansays-he-will-never-include-gays-in-ads (accessed on 10 December 2021).
- 20. Kohli, C.; Suri, R.; Kapoor, A. Will social media kill branding? Bus. Horiz. 2015, 58, 35–44. [CrossRef]
- 21. Hennig-Thurau, T.; Hofacker, C.F.; Bloching, B. Marketing the pinball way: Understanding how social media change the generation of value for consumers and companies. *J. Interact. Mark.* **2013**, 27, 237–241. [CrossRef]
- 22. Pop, R.; Săplăcan, Z.; Dabija, D.C.; Alt, A.M. The Impact of Social Media Influencers on Travel Decisions: The Role of Trust in Consumer Decision Journey. *Cur. Iss. Tour.* **2021**, 25, 823–843. [CrossRef]
- 23. Dabija, D.C.; Bejan, B.; Tipi, N. Generation X versus Millennials Communication Behavior on SOCIAL MEDIA when Purchasing Food versus Tourist Services. *Ekon. Manag.* **2018**, *21*, 191–205. [CrossRef]
- 24. Chayko, M. Superconnected: The Internet, Digital Media, and Tecno-Social Life; SAGE Publications: Los Angeles, CA, USA, 2017.
- 25. Schwitzer, G. Pollution of health news. BMJ 2017, 365, 1262. [CrossRef] [PubMed]
- 26. Waszak, P.M.; Kasprzycka-Waszak, W.; Kubanek, A. The spread of medical fake news in social media—The pilot quantitative study. *Health Pol. Technol.* **2018**, *7*, 115–118. [CrossRef]
- 27. Fârte, G.; Obadă, D.R. Reactive Public Relations Strategies for Managing Fake News in the Online Environment. *Postmod. Open.* **2018**, *9*, 26–44. [CrossRef] [PubMed]
- 28. Talwar, S.; Dhir, A.; Kaur, P.; Zafar, N.; Alrasheedy, M. Why do people share fake news? Associations between the dark side of social media use and fake news sharing behavior. *J. Retail. Consum. Serv.* **2019**, *51*, 72–82. [CrossRef]

- 29. Balakrishnan, V.; Ng, K.S.; Rahim, H.A. To share or not to share—The underlying motives of sharing fake news amidst the COVID-19 pandemic in Malaysia. *Technol. Soc.* **2021**, *66*, 101676. [CrossRef]
- 30. Newhoff, D. Why Do We Share Fake News? 2018. Available online: https://illusionofmore.com/why-do-we-share-fake-news/(accessed on 23 December 2021).
- 31. Di Domenico, G.; Sit, J.; Ishizaka, A.; Nunan, D. Fake news, social media and marketing: A systematic review. *J. Bus. Res.* **2021**, 124, 329–341. [CrossRef]
- 32. Csikszentmihalyi, M. Beyond Boredom and Anxiety: Experiencing Flow in Work and Play; Jossey-Bass: San Francisco, CA, USA, 1975.
- 33. Csikszentmihalyi, M. Flow: The Psychology of Optimal Experience; Harpers Perennial: New York, NY, USA, 1990.
- 34. Brailovskaia, J.; Schillack, H.; Margraf, J. Tell me why are you using social media (SM)! Relationship between reasons for use of SM, SM flow, daily stress, depression, anxiety, and addictive SM use—An exploratory investigation of young adults in Germany. *Comput. Hum. Behav.* **2020**, *113*, 106511. [CrossRef]
- 35. Internet Speeds by Country 2022. Available online: https://worldpopulationreview.com/country-rankings/internet-speeds-by-country (accessed on 27 March 2022).
- 36. Getzel, J.W.; Csikszentmihalyi, M. The study of creativity in future artists: The criterion problem. In *Experience, Structure, and Adaptability*; Harvey, O.J., Ed.; Springer: New York, NY, USA, 1966.
- 37. Csikszentmihalyi, M.; Bennett, S. An exploratory model of play. Am. Anthrop. 1971, 73, 45–58. [CrossRef]
- 38. Csikszentmihalyi, M.; Getzels, J.W. The personality of young artist: An empirical and theoretical exploration. *Brit. J. Psychol.* **1973**, *64*, 91–104. [CrossRef]
- 39. Csikszentmihalyi, M.; LeFevre, J. Optimal experience in work and leisure. J. Person. Soc. Psychol. 1989, 56, 815–822. [CrossRef]
- 40. Moneta, G.B.; Csikszentmihalyi, M. The effect of perceived challenges and skills on the quality of subjective experience. *J. Person.* **1996**, *64*, 275–310. [CrossRef] [PubMed]
- 41. Csikszentmihalyi, M.; Rathunde, K. The measurement of flow in everyday life. Nebraska Symp. Motiv. 1993, 40, 57–97.
- 42. Gardner, H.; Csikszentmihalyi, M.; Damon, W. Good Work: When Excellence and Ethics Meet; Basic Books: New York, NY, USA, 2001.
- 43. Csikszentmihalyi, M.; Larson, R. Being Adolescent: Conflict and Growth in the Teenage Years; Basic Books: New York, NY, USA, 1984.
- 44. Csikszentmihalyi, M. Flow: The Psychology of Optimal Experience; Harper and Row: New York, NY, USA, 2008.
- 45. Delle-Fave, A.; Massimini, F. The investigation of optimal experience and apathy: Developmental and psychosocial implications. *Eur. Psychol.* **2005**, *10*, 264–274. [CrossRef]
- 46. Delle-Fave, A.; Massimini, F. The cross-cultural investigation of optimal experience. Ric. Psicol. 2004, 27, 79–102.
- 47. Pace, S. The Roles of Challenge and Skill in the Flow Experiences of Web Users. *Issues Inf. Sci. Inf. Technol.* **2004**, *1*, 331–340. [CrossRef]
- 48. Csikszentmihalyi, M.; Csikszentmihalyi, I.S. Optimal Experience: Psychological Studies of Flow in Consciousness; Cambridge University Press: Cambridge, UK, 1988.
- 49. Rettie, R. An exploration of flow during Internet use. Int. Res. 2001, 11, 103-113. [CrossRef]
- 50. Obadă, D.R. Online Flow Experience and Perceived Quality of a Brand Website: InPascani.ro Case Study. *Proc. Soc. Behav. Sci.* **2014**, 149, 673–679. [CrossRef]
- 51. Pelet, J.E.; Ettis, S.; Cowart, K. Optimal experience of flow enhanced by telepresence: Evidence from social media use. *Inf. Manag.* **2017**, *54*, 115–128. [CrossRef]
- 52. Chen, H. Exploring Web Users' On-line Optimal Flow Experiences. Ph.D. Thesis, Syracuse University, Syracuse, NY, USA, 2000.
- 53. Huang, Y.; Backman, S.J.; Backman, K.F. Exploring the impacts of involvement and flow experiences in Second Life on people's travel intentions. *J. Hospit. Tour. Techn.* **2012**, *3*, 4–23. [CrossRef]
- 54. Lee, S.M.; Chen, L. The impact of flow on online consumer behavior. J. Comp. Inf. Syst. 2010, 50, 1–10.
- 55. Lin, J.; Lin, S.; Turel, O.; Xu, F. The buffering effect of flow experience on the relationship between overload and social media users' discontinuance intentions. *Telemat. Inf.* **2020**, *49*, 101374. [CrossRef]
- 56. Celik, Z.; Uslu, A. Bibliometric Analysis of Flow Theory from Past to Present with Visual Mapping Technique: A Marketing-Sided Approach. Öneri Dergisi 2022, 17, 243–267. [CrossRef]
- 57. Ryan, R.M.; Deci, E.L. Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being. *Am. Psych.* **2000**, *55*, 68–78. [CrossRef]
- 58. Burger, J.M. Negative responses to increases in perceived personal control. J. Person. Soc. Psych. 1989, 56, 246–256. [CrossRef]
- 59. Ajzen, I. The theory of planned behavior. Organ. Behav. Hum. Dec. Proc. 1991, 50, 179-211. [CrossRef]
- 60. Ghani, J.A.; Deshpande, S.P. Task Characteristics and the Experience of Optimal Flow in Human-Computer Interaction. *J. Psychol.* **1994**, 128, 381–391. [CrossRef]
- 61. Webster, J.; Trevino, L.K.; Ryan, L. The Dimensionality and Correlates of Flow in Human Computer Interactions. *Comput. Hum. Behav.* **1993**, *9*, 411–426. [CrossRef]
- 62. Novak, T.P.; Hoffman, D.L.; Yung, Y.F. Measuring the Customer Experience in Online Environments: A Structural Modeling Approach. *Mark. Sci.* **2000**, *19*, 22–42. [CrossRef]
- 63. Koufaris, M. Applying the technology acceptance model and flow theory to online consumer behavior. *Inf. Syst. Res.* **2002**, 13, 205–223. [CrossRef]

- 64. Lu, Y.; Zhou, T.; Wang, B. Exploring Chinese users' acceptance of instant messaging using the theory of planned behavior, the technology acceptance model, and the flow theory. *Comput. Hum. Behav.* **2009**, 25, 29–39. [CrossRef]
- 65. Lin, J.C.C. Online stickiness: Its antecedents and effect on purchasing intention. Behav. Inf. Technol. 2007, 26, 507–516. [CrossRef]
- 66. Hoffman, D.L.; Novak, T.P. Flow Online: Lessons Learned and Future Prospects. J. Interact. Mark. 2009, 23, 23–34. [CrossRef]
- 67. Khang, H.; Kim, J.K.; Kim, Y. Self-traits and motivations as antecedents of digital media flow and addiction: The Internet, mobile phones, and video games. *Comput. Hum. Behav.* **2013**, 29, 2416–2424. [CrossRef]
- 68. Kwak, K.T.; Choi, S.K.; Lee, B.G. SNS flow, SNS self-disclosure and post hoc interpersonal relations change: Focused on Korean Facebook user. *Comput. Hum. Behav.* **2014**, *31*, 294–304. [CrossRef]
- 69. Kaur, P.; Dhir, A.; Chen, S.; Rajala, R. Flow in context: Development and validation of the flow experience instrument for social networking. *Comput. Hum. Behav.* **2016**, *59*, 358–367. [CrossRef]
- 70. Kaplan, A.; Haenlein, M. The Use and Potential of Twitter and Micro-Blogging for Marketing Strategy: A Qualitative Case Study Approach. In Proceedings of the 9th International Marketing Trends Conference, Venice, Italy, 21–23 January 2010; pp. 21–23.
- 71. Edwards, S.M. A social media mindset. J. Int. Advert. 2011, 12, 1–3. [CrossRef]
- 72. Zhao, X.; Chen, Y.R.R. How brand-stakeholder dialogue drives brand-hosted community engagement on social media: A mixed-methods approach. *Comp. Human Beh.* **2022**, *31*, 107208. [CrossRef]
- 73. Khan, M.L. Social media engagement: What motivates user participation and consumption on YouTube? *Comp. Human Beh.* **2017**, 66, 236–247. [CrossRef]
- 74. Verduyn, P.; Ybarra, O.; Résibois, M.; Jonides, J.; Kross, E. Do social network sites enhance or undermine subjective well-being? A critical review. Soc. Iss. Policy Rev. 2017, 11, 274–302. [CrossRef]
- 75. Trifiro, B.M.; Gerson, J. Social Media Usage Patterns: Research Note Regarding the Lack of Universal Validated Measures for Active and Passive Use. *Soc. Media Soc.* **2019**, *5*, 2056305119848743. [CrossRef]
- 76. Karnowski, V.; Leonhard, L.; Kümpel, A.S. Why Users Share the News: A Theory of Reasoned Action-Based Study on the Antecedents of News-Sharing Behavior. *Com. Res. Rep.* **2018**, *35*, 91–100. [CrossRef]
- 77. Kim, A.; Dennis, A.R. Says Who? The Effects of Presentation Format and Source Rating on Fake News in Social Media. *MIS Quart.* **2019**, *43*, 1025–1039. [CrossRef]
- 78. Dabija, D.C.; Băbuţ, R.; Dinu, V.; Lugojan, M. Cross-Generational Analysis of Information Searching based on Social Media in Romania. *Transf. Bus. Econ.* **2017**, *16*, 248–270.
- 79. Buchanan, T.; Benson, V. Spreading Disinformation on Facebook: Do Trust in Message Source, Risk Propensity, or Personality Affect the Organic Reach of "Fake News"? Soc. Med. Soc. 2019, 5, 2056305119888654. [CrossRef]
- 80. Tandoc, E.C.; Lim, Z.W.; Ling, R. Defining "Fake News": A typology of scholarly definitions. *Dig. Journal.* **2018**, *6*, 137–153. [CrossRef]
- 81. Tandoc, E.C.; Ling, R.; Westlund, O.; Duffy, A.; Goh, D.; Zheng Wei, L. Audiences' acts of authentication in the age of fake news: A conceptual framework. *New Media Soc.* **2018**, *20*, 2745–2763. [CrossRef]
- 82. Verma, N.; Fleischmann, K.R.; Koltai, K.S. Human values and trust in scientific journals, the mainstream media and fake news. *Proc. Assoc. Inf. Sci. Technol.* **2017**, *54*, 426–435. [CrossRef]
- 83. Vosoughi, S.; Roy, D.; Aral, S. The spread of true and false news online. Science 2018, 359, 1146-1151. [CrossRef]
- 84. Zubiaga, A.; Ji, H. Tweet, but Verify: Epistemic Study of Information Verification on Twitter. Social Network Analysis and Mining. 2013. Available online: https://arxiv.org/abs/1312.5297 (accessed on 10 November 2021).
- 85. Statista. Number of Social Network Users Worldwide from 2017 to 2025. 2021. Available online: https://www.statista.com/statistics/278414/number-of-worldwide-social-network-users (accessed on 3 February 2022).
- 86. Apuke, O.D.; Omar, B. Fake news and COVID-19: Modelling the predictors of fake news sharing among social media users. *Telemat. Inform.* **2021**, *56*, 101475. [CrossRef]
- 87. Burcă-Voicu, M. How to communicate the Quality of the Romanian Organic Food Products. *Roma. Rev. Int. Stud.* **2015**, *1*, 225–229. Available online: http://dsi.institute.ubbcluj.ro/docs/revista/166_ro.pdf (accessed on 25 September 2021).
- 88. Kissling, M.; Fiedler, M. Fake News a Danger for Green Brands? Analyzing the Role of Fake News in Green Advertising. In Proceedings of the 10th EMAC Regional Conference, Saint Petersburg, Russia, 25–27 September 2019.
- 89. Chadwick, A.; Vaccari, C. Survey Report: News Sharing on UK Social Media: Misinformation, Disinformation & Correction, Loughborough University. 2019. Available online: https://www.lboro.ac.uk/research/online-civic-culture-centre/news-events/articles/o3c-1-survey-report-news-sharing-misinformation (accessed on 15 September 2021).
- 90. Wang, Y.D.; Emurian, H.H. An overview of online trust: Concepts, elements, and implications. *Comput. Hum. Behav.* **2005**, 21, 105–125. [CrossRef]
- 91. Husted, B.W. The ethical limits of trust in business relations. *Bus. Ethics Quart.* **1998**, *8*, 233–248. [CrossRef]
- 92. Ayaburi, E.W.; Treku, D.N. Effect of penitence on social media trust and privacy concerns: The case of Facebook. *Int. J. Inf. Manag.* **2020**, *50*, 171–181. [CrossRef]
- 93. Mayer, R.C.; Davis, J.H.; Schoorman, F.D. An integrative model of organizational trust. *Acad. Manag. Rev.* **1995**, 20, 709–734. [CrossRef]
- 94. Chen, Z.F.; Cheng, Y. Consumer response to fake news about brands on social media: The effects of self-efficacy, media trust, and persuasion knowledge on brand trust. *J. Prod. Brand Manag.* **2020**, 29, 188–198. [CrossRef]

- 95. Lee, K.C.; Kang, I.; McKnight, D.H. Transfer from Offline Trust to Key Online Perceptions: An Empirical Study. *IEEE Trans. Eng. Manag.* **2007**, *54*, 729–741. [CrossRef]
- 96. Luhmann, N. Trust and Power; Wiley: New York, NY, USA, 1979.
- 97. Zhou, T. Examining mobile banking user adoption from the perspectives of trust and flow experience. *Inf. Technol. Manag.* **2012**, 13, 27–37. [CrossRef]
- 98. Grabner-Kräuter, S.; Bitter, S. Trust in online social networks: A multifaceted perspective. Forum Soc. Econ. 2013, 44, 48–68. [CrossRef]
- 99. Krasnova, H.; Spiekermann, S.; Koroleva, K.; Hildebrand, T. Online social networks: Why we disclose. *J. Inf. Technol.* **2010**, 25, 109–125. [CrossRef]
- 100. Lin, S.-W.; Liu, Y.-C. The effects of motivations, trust, and privacy concern in social networking. *Serv. Bus.* **2012**, *6*, 411–424. [CrossRef]
- 101. DuBois, T.; Golbeck, J.; Srinivasan, A. Predicting trust and distrust in social networks. In Proceedings of the 2011 IEEE Third International Conference on Privacy, Security, Risk and Trust and 2011 IEEE Third International Conference on Social Computing. IEEE Computer Society, Boston, MA, USA, 9–11 October 2011; pp. 418–424. [CrossRef]
- 102. Talwar, S.; Amandeep, D.; Dilraj, S.; Singh, V.G.; Jari, S. Sharing of fake news on social media: Application of the honeycomb framework and the third-person effect hypothesis. *J. Retail. Consum. Serv.* **2020**, *57*, 102197. [CrossRef]
- 103. Buchanan, T. Trust, personality, and belief as determinants of the organic reach of political disinformation on social media. *Soc. Sci. J.* **2021**, *5*, 1975085. [CrossRef]
- 104. Hoffman, D.L.; Novak, T.P. Marketing in hypermedia computer-mediated environments: Conceptual foundations. *J. Mark.* **1996**, *60*, 50–69. [CrossRef]
- 105. Esteban-Millat, I.; Martínez-López, F.J.; Luna, D.; Rodríguez-Ardura, I. The concept of flow in online consumer behavior. In *Handbook of Strategic E-Business Management*; Martínez-López, F.J., Ed.; Springer: New York, NY, USA, 2014; pp. 371–402.
- 106. Hyun, H.; Thavisay, T.; Lee, S.H. Enhancing the role of flow experience in social media usage and its impact on shopping. *J. Retail. Consum. Serv.* **2022**, *65*, 102492. [CrossRef]
- 107. Maslow, A.H. A theory of human motivation. Psychol. Rev. 1943, 50, 370–396. [CrossRef]
- 108. Deci, E.L.; Ryan, R.M. Intrinsic Motivation, and Self-Determination in Human Behavior; Plenum: New York, NY, USA, 1985.
- 109. Obadă, D.R. *Impactul Stării de Flux Din Mediul Online Asupra Calității Percepute a Unui Site Web de Brand*; Pro Universitaria: București, Romenia, 2015.
- 110. Kim, M.J.; Lee, C.K.; Bonn, M. Obtaining a better understanding about travel-related purchase intentions among senior users of mobile social network sites. *Int. J. Inf. Manag.* **2017**, *37*, 484–496. [CrossRef]
- 111. Chantal, Y.; Vallerand, R.J.; Vallières, E.F. Motivation and gambling involvement. J. Soc. Psychol. 1995, 135, 755–763. [CrossRef]
- 112. Teo, E.W.; Khoo, S.; Wong, R.; Wee, E.H.; Lim, B.H.; Rengasamy, S.S. Intrinsic and Extrinsic Motivation Among Adolescent Ten-Pin Bowlers in Kuala Lumpur, Malaysia. *J. Human Kinet.* **2015**, *45*, 241–251. [CrossRef]
- 113. Waterman, A.S.; Schwartz, S.J.; Goldbacher, E.; Green, H.; Miller, C.; Philip, S. Predicting the Subjective Experience of Intrinsic Motivation: The Roles of Self-Determination, the Balance of Challenges and Skills, and Self-Realization Values. *Personal. Soc. Psychol. Bull.* 2003, 29, 1447–1458. [CrossRef]
- 114. Leung, X.Y.; Bai, B. How motivation, opportunity, and ability impact travelers' social media involvement and revisit intention. *J. Travel Tour. Mark.* **2013**, *30*, 58–77. [CrossRef]
- 115. Tellis, G.J.; MacInnis, D.J.; Tirunillai, S.; Zhang, Y. What drives virality (sharing) of online digital content? The critical role of information, emotion, and brand prominence. *J. Mark.* **2019**, *83*, 1–20. [CrossRef]
- 116. Oh, S.; Syn, S.Y. Motivations for sharing information and social support in social media: A comparative analysis of Facebook, Twitter, Delicious, You Tube, and Flickr. *J. Assoc. Inf. Sci. Technol.* **2015**, *66*, 2045–2060. [CrossRef]
- 117. Hennig-Thurau, T.; Gwinner, K.P.; Walsh, G.; Gremler, D.D. Electronic word-of-mouth via consumer-opinion platforms: What motivates consumers to articulate themselves on the internet? *J. Interact. Mark.* **2004**, *18*, 38–52. [CrossRef]
- 118. Lovett, M.J.; Peres, R.; Shachar, R. On brands and word of mouth. J. Mark. Res. 2013, 50, 427–444. [CrossRef]
- 119. Obadă, D.R. Flow Theory and Online Marketing Outcomes: A Critical Literature Review. *Proc. Econ. Fin.* **2013**, *6*, 550–561. [CrossRef]
- 120. Carlson, J.; Jane de Vries, N.; Rahman, M.M.; Taylor, A. Go with the flow: Engineering flow experiences for customer engagement value creation in branded social media environments. *J. Brand Manag.* **2017**, 24, 334–348. [CrossRef]
- 121. Gray, J.; Bounegru, L.; Venturini, T. Fake news as infrastructural uncanny. New Media Soc. 2020, 22, 317–341. [CrossRef]
- 122. Wang, X.; McKee, M.; Torbica, A.; Stuckler, D. Systematic Literature Review on the Spread of Health-related Misinformation on Social Media. *Soc. Sci. Med.* **2019**, 240, 112552. [CrossRef]
- 123. McGonagle, T. Fake news: False fears or real concerns? Nether. Quart. Hum. Rights 2017, 35, 203–209. [CrossRef]
- 124. Gelfert, A. Fake News: A Definition. *Inf. Log.* **2018**, *38*, 84–117. [CrossRef]
- 125. Price, R. Facebook Will Now Teach You How to Spot Fake News. 2017. Available online: http://www.businessinsider.com/facebook-how-to-spot-fake-news-2017-4?IR=T (accessed on 3 November 2021).
- 126. Yougov. 68% of APAC Residents Believe There Is a Problem with Fake News on Digital Platforms. 2017. Available online: https://au.yougov.com/news/2017/08/21/68-apac-residents-believe-thereproblem-fake-news (accessed on 21 August 2021).

- 127. Wardle, C.; Derakhshan, H. *Information Disorder: Toward an Interdisciplinary Framework for Research and Policymaking*; Council of Europe Report; DGI: Strasbourg, France, 2017.
- 128. Kovach, B.; Rosenstiel, T. *The Elements of Journalism: What Newspeople Should Know and The Public Should Expect*, 1st ed.; Three Rivers Press: New York, NY, USA, 2007.
- 129. Figuiera, Á.; Oliveira, L. The current state of fake news: Challenges and opportunities. *Proc. Comput. Sci.* **2017**, 121, 817–825. [CrossRef]
- 130. Levy, N. The bad news about fake news. Soc. Epistemol. Rev. Reply Collect. 2017, 6, 20–36.
- 131. Oremus, W. Facebook Has Stopped Saying "Fake News". 2017. Available online: http://www.slate.com/blogs/future_tense/20 17/08/08/facebook_has_stopped_saying_fake_news_is_false_news_any_better.html (accessed on 10 January 2022).
- 132. Özgöbek, Ö.; Gulla, J.A. Towards an understanding of fake news. CEUR Workshop Proc. 2017, 2041, 35–42.
- 133. Mauri, M.; Cipresso, P.; Balgera, A.; Villamira, M.; Riva, G. Why Is Facebook so successful? Psychophysiological measures describe a core flow state while using Facebook. *Cyberpsych. Beh. Soc. Netw.* **2011**, *14*, 723–731. [CrossRef] [PubMed]
- 134. Hirao, K.; Kobayashi, R. Flow experience in daily living and health-related quality of life. Activities of Daily Living: Performance. *Imp. Life Qual. Assist.* **2013**, 169–174.
- 135. Rodríguez-Ardura, I.; Meseguer-Artola, A. Flow in e-learning: What drives it and why it matters. *Br. J. Educ. Technol.* **2017**, *48*, 899–915. [CrossRef]
- 136. Rodríguez-Ardura, I.; Meseguer-Artola, A. Imagine, feel "there", and flow! Immersive experiences on m-Facebook, and their affective and behavioural effects. *Inf. Technol. People* **2018**, 32, 921–947. [CrossRef]
- 137. Nakamura, J.; Csikszentmihalyi, M. Flow theory and research. In *Oxford Handbook of Positive Psychology*, 2nd ed.; Snyder, C.R., Lopez, S.J., Eds.; Oxford University Press: New York, NY, USA, 2009; pp. 195–206.
- 138. Agarwal, R.; Karahanna, E. Time flies when you're having fun: Cognitive absorption and beliefs about information technology usage. *MIS Quart.* **2000**, *24*, 665–694. [CrossRef]
- 139. Engeser, S.; Rheinberg, F. Flow, performance and moderators of challenge-skill-balance. Motiv. Emot. 2008, 32, 158–172. [CrossRef]
- 140. Fang, X.; Zhang, J.; Chan, S.S. Development of an instrument for studying flow in computer game play. *Int. J. Hum. Comput. Interact.* **2013**, *29*, 456–470. [CrossRef]
- 141. Lee, C.H.; Wu, J.J. Consumer online flow experience: The relationship between utilitarian and hedonic value, satisfaction and unplanned purchase. *Ind. Manag. Data Syst.* **2017**, 177, 2452–2467. [CrossRef]
- 142. Chou, T.J.; Ting, C.C. The role of flow experience in cyber-game addiction. *Cyber Psychol. Behav.* **2003**, *6*, 663–675. [CrossRef] [PubMed]
- 143. Le, L.H.; Hoang, P.A.; Pham, H.C. Sharing health information across online platforms: A systematic review. *Health Commun.* **2022**, 1–13. [CrossRef] [PubMed]
- 144. Croucher, S.M.; Cronn-Mills, D. *Understanding Communication Research Methods: A Theoretical and Practical Approach*, 2nd ed.; Routledge: New York, NY, USA, 2018.
- 145. National Institute of Statistics. Romanian Statistics 2019. Available online: https://insse.ro/cms/sites/default/files/field/publicatii/romania_in_cifre_2019_2.pdf (accessed on 15 January 2021).
- 146. Robinson, M.A. Using multi-item psychometric scales for research and practice in human resource management. *Hum. Res. Manag.* **2018**, *57*, 739–750. [CrossRef]
- 147. Brailovskaia, J.; Rohmann, E.; Bierhoff, H.W.; Margraf, J. The brave blue world: Facebook flow and Facebook Addiction Disorder (FAD). *PLoS ONE* **2018**, *13*, e0201484. [CrossRef] [PubMed]
- 148. Fang, J.; Shao, Y.; Wen, C. Transactional quality, relational quality, and consumer e-loyalty: Evidence from SEM and fsQCA. *Int. J. Inform. Manag.* **2016**, *36*, 1205–1217. [CrossRef]
- 149. Hair, J.F.; Black, W.C.; Babin, B.J. Multivariate Data Analysis: A Global Perspective; Pearson: London, UK, 2010.
- 150. Henseler, J.; Sarstedt, M. Goodness-of-fit indices for partial least squares path modeling. Comp. Stat. 2013, 28, 565–580. [CrossRef]
- 151. Chin, W.W. The partial least squares approach for structural equation modeling. In *Methodology for Business and Management. Modern Methods for Business Research*; Marcoulides, G.A., Ed.; Lawrence Erlbaum Associates Publishers: Mahwah, NJ, USA, 1998; pp. 295–336.
- 152. Henseler, J.; Ringle, C.M.; Sarstedt, M. A new criterion for assessing discriminant validity in variance-based structural equation modeling. *J. Acad. Mark. Sci.* **2014**, *43*, 115–135. [CrossRef]
- 153. Sarstedt, M.; Ringle, C.M.; Hair, J.F. Partial Least Squares Structural Equation Modeling. In *Handbook of Market Research*; Homburg, C., Klarmann, M., Vomberg, A., Eds.; Springer: Cham, Switzerland, 2017.
- 154. Pilke, E.M. Flow Experiences in Information Technology Use. Int. J. Hum. Comput. Stud. 2004, 61, 347–357. [CrossRef]
- 155. Deng, L.; Turner, D.E.; Gehling, R.; Prince, B. User experience, satisfaction, and continual usage intention of IT. *Eur. J. Inf. Syst.* **2010**, *19*, 60–75. [CrossRef]
- 156. Mathwick, C.; Rigdon, E. Play, flow, and the online search experience. J. Consum. Res. 2004, 31, 324–332. [CrossRef]
- 157. Ozkara, B.Y.; Ozmen, M.; Kim, J.W. Examining the effect of flow experience on online purchase: A novel approach to the flow theory based on hedonic and utilitarian value. *J. Retail. Consum. Serv.* **2017**, *37*, 119–131. [CrossRef]
- 158. Chang, H.H.; Wang, I.C. An investigation of user communication behavior in computer mediated environments. *Comput. Hum. Behav.* **2008**, 24, 2336–2356. [CrossRef]

- 159. Mahfouz, A.Y.; Joonas, K.; Opara, E.U. An overview of and factor analytic approach to flow theory in online contexts. *Technol. Soc.* **2020**, *61*, 101228. [CrossRef]
- 160. Alwahaishi, S.; Snásel, V. Acceptance and use of information and communications technology: A UTAUT and flow based theoretical model. *J. Technol. Manag. Innov.* **2013**, *8*, 61–73. [CrossRef]
- 161. Dabija, D.C.; Cheben, J.; Lancaric, D. Cross-cultural Investigation of Consumers' Generations Attitudes towards Purchase of Environmentally Friendly Products in Apparel Retail. *Stud. Bus. Econ.* **2017**, *12*, 27–42. [CrossRef]
- 162. Tandoc, E.C.; Lim, D.; Ling, R. Diffusion of disinformation: How social media users respond to fake news and why. *Journalism* 2020, 21, 381–398. [CrossRef]
- 163. Luo, M.; Hancock, J.T.; Markowitz, D.M. Credibility Perceptions and Detection Accuracy of Fake News Headlines on Social Media: Effects of Truth-Bias and Endorsement Cues. *Commun. Res.* **2020**, *49*, 171–195. [CrossRef]
- 164. Trninic, D.; Kuprešanin Vukelic, A.; Bokan, J. Perception of "Fake News" and Potentially Manipulative Content in Digital Media—A Generational Approach. *Societies* **2022**, *12*, 3. [CrossRef]
- 165. Zakrzewski, C. The Technology 2020: More than 70 Companies Victims of Ad Fraud on FACEBOOK, According to New Report. *The Washington Post*. 22 July 2020. Available online: https://www.washingtonpost.com/politics/2020/07/22/technology-202-more-than-70-companies-victims-ad-fraud-facebook-according-new-report (accessed on 3 December 2021).
- 166. Loveday, S. Yet Another Fake Video to Hurt Tesla: TikTok Maker Apologizes. *INSEDEEVs*, 29 June 2021. Available online: https://insideevs.com/news/517105/fake-defective-tesla-video-apology (accessed on 20 December 2021).
- 167. Berthon, P.R.; Pitt, L.F. Brands, Truthiness and Post-Fact: Managing Brands in a Post-Rational World. *J. Macromark.* **2018**, *38*, 218–227. [CrossRef]
- 168. Pelau, C.; Ene, I.; Pop, M.I. The Impact of Artificial Intelligence on Consumers' Identity and Human Skills. *Amfit. Econ.* **2021**, 23, 33–45. [CrossRef]
- 169. Micu, A.; Micu, A.E.; Geru, M.; Căpățînă, A.; Muntean, M.C. The Impact of Artificial Intelligence Use on the E-Commerce in Romania. *Amfiteatru Econ.* **2021**, 23, 137–154. [CrossRef]
- 170. Patterson, D. The Pfizer-BioNTech Vaccine Is a Top Target of Conspiracy Theories. *CBS NEWS*. Available online: https://www.cbsnews.com/news/covid-vaccine-pfizer-conspiracy-theories (accessed on 24 November 2021).
- 171. WHO. Ten Threats to Global Health in 2019. Available online: https://www.who.int/emergencies/tenthreats-to-global-health-in-2019 (accessed on 5 February 2022).
- 172. Vafeiadis, M.; Bortree, D.S.; Buckley, C.; Diddi, P.; Xiao, A. Refuting fake news on social media: Nonprofits, crisis response strategies and issue involvement. *J. Prod. Brand Manag.* **2020**, 29, 209–222. [CrossRef]
- 173. Visentin, M.; Pizzi, G.; Pichierri, M. Fake News, Real Problems for Brands: The Impact of Content Truthfulness and Source Credibility on consumers' Behavioral Intentions toward the Advertised Brands. *J. Inter. Mark.* **2019**, *45*, 99–112. [CrossRef]
- 174. Berduygina, O.N.; Vladimirova, T.N.; Chernyaeva, E.V. Trends in the spread of fake news in mass media. *Media Watch* **2019**, 10, 122–132. [CrossRef]
- 175. Mills, A.J.; Pitt, C.; Ferguson, S.L. The relationship between fake news and advertising: Brand management in the era of programmatic advertising and prolific falsehood. *J. Advert. Res.* **2019**, *59*, 3–8. [CrossRef]
- 176. Bakir, V.; McStay, A. Fake News and The Economy of Emotions. Digit. Journal. 2018, 6, 154-175. [CrossRef]
- 177. Van Duyn, E.; Collier, J. Priming and Fake News: The Effects of Elite Discourse on Evaluations of News Media. *Mass Comm. Soc.* **2019**, 22, 29–48. [CrossRef]
- 178. Rapp, D.N.; Salovich, N.A. Can't We Just Disregard Fake News? The Consequences of Exposure to Inaccurate Information. *Policy Insights Behav. Brain Sci.* **2018**, *5*, 232–239. [CrossRef]
- 179. Carrieri, V.; Madio, L.; Principe, F. Vaccine hesitancy and (fake) news: Quasi-experimental evidence from Italy. *Health Econ.* **2019**, 28, 1377–1382. [CrossRef]
- 180. Brigida, M.; Pratt, W.R. Fake news. N. Am. J. Econ. Fin. 2017, 42, 564–573. [CrossRef]
- 181. Dobson-Lohman, E.; Potcovaru, A.-M. Fake News Content Shaping the COVID-19 Pandemic Fear: Virus Anxiety, Emotional Contagion, and Responsible Media Reporting. *Anal. Metaphys.* **2020**, *19*, 94–100. [CrossRef]
- 182. Lăzăroiu, G.; Pera, A.; Ştefănescu-Mihăilă, R.O.; Bratu, S.; Mircică, N. The Cognitive Information Effect of Televised News. *Front. Psych.* **2017**, *8*, 1165. [CrossRef] [PubMed]
- 183. Mihăilă, R.; Braniște, L. Digital Semantics of Beauty Apps and Filters: Big Data-driven Facial Retouching, Aesthetic Self-Monitoring Devices, and Augmented Reality-based Body-Enhancing Technologies. *J. Res. Gend. Stud.* **2021**, *11*, 100–112. [CrossRef]
- 184. Watson, R.; Popescu, G.H. Will the COVID-19 Pandemic Lead to Long-Term Consumer Perceptions, Behavioral Intentions, and Acquisition Decisions? *Econ. Manag. Fin. Mark.* **2021**, *16*, 70–83. [CrossRef]
- 185. Andronie, M.; Lăzăroiu, G.; Ștefănescu, R.; Ionescu, L.; Cocoșatu, M. Neuromanagement Decision-Making and Cognitive Algorithmic Processes in the Technological Adoption of Mobile Commerce Apps. *Oecon. Copern.* **2021**, *12*, 863–888. [CrossRef]
- 186. Lăzăroiu, G.; Adams, C. Viral Panic and Contagious Fear in Scary Times: The Proliferation of COVID-19 Misinformation and Fake News. *Analy. Metaphys.* **2020**, *19*, 80–86. [CrossRef]
- 187. Popescu Ljungholm, D.; Olah, M.L. Regulating Fake News Content during COVID-19 Pandemic: Evidence-based Reality, Trustworthy Sources, and Responsible Media Reporting. *Rev. Contemp. Philos.* **2020**, *19*, 43–49. [CrossRef]

- 188. Bratu, S. The Fake News Sociology of COVID-19 Pandemic Fear: Dangerously Inaccurate Beliefs, Emotional Contagion, and Conspiracy Ideation. *Linguist. Philos. Investig.* **2020**, *19*, 128–134. [CrossRef]
- 189. Rydell, L.; Kucera, J. Cognitive Attitudes, Behavioral Choices, and Purchasing Habits during the COVID-19 Pandemic. *J. Self Gov. Manag. Econ.* **2021**, *9*, 35–47. [CrossRef]
- 190. Sheares, G.; Miklencicova, R.; Grupac, M. The Viral Power of Fake News: Subjective Social Insecurity, COVID-19 Damaging Misinformation, and Baseless Conspiracy Theories. *Linguist. Philos. Investig.* **2020**, *19*, 121–127. [CrossRef]
- 191. Rochlin, N. Fake news: Belief in post-truth. Libr. Hi Tech. 2017, 35, 386–392. [CrossRef]
- 192. The Guardian. Misinformation 'Superspreaders': COVID Vaccine Falsehoods Still Thriving on Facebook and Instagram. 2021. Available online: https://www.theguardian.com/world/2021/jan/06/facebook-instagram-urged-fight-deluge-anti-covid-vaccine-falsehoods (accessed on 21 August 2021).
- 193. Of Com. Half of UK Adults Exposed to False Claims about Coronavirus. 2020. Available online: https://www.ofcom.org.uk/about-ofcom/latest/features-and-news/half-of-uk-adults-exposed-to-false-claims-about-coronavirus (accessed on 24 January 2022).
- 194. Li, H.O.Y.; Bailey, A.; Huynh, D.; Chan, J. YouTube as a source of information on COVID-19: A pandemic of misinformation? *BMJ Glob. Health* **2020**, *5*, e002604. [CrossRef] [PubMed]
- 195. Pennycook, G.; Rand, D. The Psychology of Fake News. Trends Cogn. Scie. 2021, 25, 388-402. [CrossRef]