The impact of self on materialism among teenagers

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ABSTRACT

No previous research has investigated the relationship between the concept of self and materialism, especially among teenagers. Our study seeks to reverse this trend by examining how independent self-construal and interdependent self-construal affect materialism among Brazilian teenagers (grades 7 through 12). Hypotheses were tested using structural equation modelling. We find that independent self-construal has a positive effect on materialism. Furthermore, we created three sub-constructs out of the original interdependent self-construal construct, none of which affected materialism in the same way. Group dependency, a need to achieve the group’s authorisation, increases materialism; group loyalty, an attitude of group fidelity, has no effect on materialism; and group respect, a respect for group decision, diminishes materialism. These are interesting results, because they question our prior beliefs on the matter and introduce new factors into the scholarly discussion of this issue. Copyright © 2016 John Wiley & Sons, Ltd.

INTRODUCTION

Previous research has investigated materialism in the context of adolescents. Chaplin and John (2007) showed that materialism is closely related to self-esteem in children between the ages of 8 and 18. It is in this transitional period that the individuals choose their level of independency and interdependency from others (Gulland, 2006). Belk (1988) shows that teenagers seek self-identity by acquiring and accumulating a selection of consumption objects, and other studies conclude that indeed teen consumption focuses on specific things that friends use, the so-called ‘right things’ as a way to fit into their social group (Kantrowitz and Wingert, 1999; Moses, 2000; Muniz and O’Guinn, 2001; Siegel et al., 2001; Lindstrom, 2003). In addition, Solomon (1983) suggests that teens tend to create shared meanings with their peers, making their interpretation of reality fairly consistent with that of their social group. They even align their values to those of their friends, discussing ideas and expecting their support and understanding in response (Youniss and Smollar, 1985).

Despite the previous research on materialism in teenagers, no research has examined the effect of self on materialism in teenagers. In this paper, we examine how the definition of the self has an effect on materialism among adolescents. Our research has three major contributions. First, this study examines the relationship between self-construal, both independent and interdependent, and materialism. Second, we test the conceptual model using data from a sample of teenagers. The focus on teenagers is particularly useful, we believe, not only because of the shortage of research about them, but also because adolescence is a transition filled with resolutions which will be carried beyond adolescence deep into adulthood, as an integral part of the self. Knowing what makes a teenager more or less materialistic could help us understand how they behave and make choices, and even may shed some light on their decisions as adults. Finally, this research focuses on Brazil, an emerging economy. The unique context of countries with emerging economy provides an interesting research context because recent studies show that these countries have increased purchasing power, and are likely to expand further (Morningstar, 2014). Thus, understanding consumer behaviours in these countries is important to marketers, wishing to expand their operations in these markets.

In the next section we provide a brief review of the literature on materialism and self. We then proceed to detail our research instrument and model, followed by our procedure and results. We conclude with implications from our results, the limitations of our study and suggestions for further research.

THEORETICAL DEVELOPMENT

Self

Most prior studies about self are found in the arenas of psychology and sociology (Brewer and Hewstone, 2004), and studies connecting self with adolescent consumer behaviour are not large in number (Chaplin and John, 2007). The self-concept encapsulates personal traits and characteristics like personality and self-perceptions. It is what comes to mind when we think about ourselves (Neisser, 1993).

Campbell et al. (1996) suggest that early researchers treated the self-concept as a unitary entity, a stable, comprehensive view of the self. Contemporary researchers rely on a multi-dimensional, dynamic construal of the self-concept. There are several constructs related to the self-concept. For instance there are ideal self, actual self, ought self (Sirgy, 1982; Higgins et al., 1986), possible self (Markus and Wurf, 1987), self-congruity (Grzeskowiak and Sirgy, 2007; Sirgy et al., 2008), academic self-concept, social self-concept and physical self-concept (Shavelson et al., 1976). The other dimensions of self that relate most directly to our study are...
self-concept clarity, independent self-construal and interdepen-
dent self-construal. For our research, we use two dimen-
sions of self (independent and interdependent) in an attempt to
better capture such a complex aspect of an individual’s
life. According to parents, concepts such as independency
and interdependency are very important during the teenage
phase (Bristol and Mangleburg, 2005).

In summary, the self is the way a person views herself
(Krech et al., 1962, p. 495–496). The self regulates inten-
tional behaviour and permits the person to function effi-
ciently in her social world (Markus and Wurf, 1987; Banaji
and Prentice, 1994). An individual’s evaluation of herself
greatly influences her behaviour, and therefore, the more val-
ued the self, the more organised and constant her behaviour
becomes (Grubb and Grathwohl, 1967).

Materialism
Materialism has been defined as ‘the importance a consumer
attaches to worldly possessions’ (Belk, 1984, p. 291) and as
‘the importance a person places on possessions and their ac-
quisation as a necessary or desirable form of conduct to reach
desired end states, including happiness’ (Richins and Dawson,
1992, p. 307). As proposed earlier by James (1890), a person’s
definition of herself is comprised of everything that she can
call hers. According to Richins and Dawson (1992), true ma-
terialism is the pursuit of happiness through the acquisition
of material things, yet we are interested in what could be called
materialistic behaviour as well, in which materialism could
also be a means to an end. The end is to express one’s self
through what one consumes (Czikszentmihalyi and
Solomon, 1983; Belk, 1985). Materialism affects what con-
sumers expect from their possessions and which products they
believe can fulfill their desires (Richins, 1994a).

Materialism is ‘a value that guides people’s choices and
conduct in a variety of situations, including, but not limited
to, consumption arenas’ (Richins and Dawson, 1992, p. 307).
The literature on materialism offers a background that helps
researchers understand how consumers become attached to
their belongings (Belk, 1985; Vigneron, 1998) and what are
the implications for consumption meanings, self-identity
(Zinkhan, 1994), charitable behaviour (Mathur, 2013) and
teenagers (Scheafer et al., 2004).

Materialism is an orientation which views material goods
as important for personal happiness and social progress
(Ward and Wackman, 1971). Although authors define mate-
rialism differently, their definitions share the following con-
cept: that consumption is related to more than the instrumen-
tal or functional value of objects, suggesting that individuals
seek a relationship with objects whereby they can improve
themselves in some way. For this study we fol-
low Richins (1987, p. 352) proposition that materialism is
defined in terms of its role in consumer culture as ‘the idea
that goods are a means to happiness; that satisfaction in life
is not achieved by religious contemplation or social interac-
tion, or simple life, but by possession and interaction with
goods.’

Some studies found high levels of materialism among ad-
olescents (Fields, 1999; John, 1999). This is not surprising
because a frequent theme of the modern consumer culture
is that happiness can be purchased at the mall, on the Internet,
in a catalogue, or on the iPhone (Kasser, 2002). In a recent
study, Pieters (2013) finds that some kinds of materialism
contribute to loneliness, yet other types of materialism help
people get out of situations of solitude. It is possible
adolescents could act more materialistic in order to avoid,
or augment, their perceived levels of loneliness, of particu-
lar importance for people at those early stages, and this
could depend on their perception of what is predominant
on their self.

Theoretical development: self and materialism
Earlier research has shown that the ‘self’ could help predict
some human behaviours related to materialism such as con-
sumption motivation, purchase intention, tourism choices
consideration, brands, seeking for uniqueness and advertising at-
titude (Grubb and Grathwohl, 1967; Markus and Kitayama,
1991; Todd, 2001; Tsai, 2006; Sirgy et al., 2008; Song and
Lee, 2013), given that consumers attempt to gain acceptance
into social groups through the products they purchase
(Vigneron and Johnson, 2004). Sirgy (1982) shows that con-
sumer attitudes are consistent with their self-image and
research reaffirms this concept, showing people create and
communicate their self-image through the products they
choose to consume (Sirgy, 1982; Solomon, 1983; Belk,
1988; Wallendorf and Arnould, 1988; Richins, 1994b; Kleine
et al., 1995).

Everyone possesses dimensions of both independent and
interdependent self-construal (Singelis, 1994; Agrawal and
Maheswaran, 2005). Yet, individuals are inclined to use one
dimension of self-construal more than the other to guide their
behaviour (Markus and Kitayama, 1991; Agrawal and
Maheswaran, 2005). Independent self-construal ‘requires con-
struing oneself as an individual whose behaviour is organised
and made meaningful primarily by reference to one’s own in-
226). One can conclude that an individual’s behaviour is
based on her independent self-construal, if her own internal at-
tributes (e.g. feelings and thoughts) determine or cause her be-
haviour (Markus and Kitayama, 1998).

Markus and Kitayama (1991, p. 226) suggest that interde-
pendent self-construal ‘entails seeing oneself as part of an
encompassing social relationship and recognising that one’s
behaviour is determined, contingent on, and to a large extent,
organised by what one perceives to be the thoughts, feelings,
and actions of others in the relationship’. The important tasks
for interdependent individuals are to fit into their group(s),
act in suitable ways, promote their in-group goals and con-
form to their group(s). Consequently, the behaviour of indi-
viduals with a strong interdependent self is a reaction to
others with whom they are interrelated (Markus and
Kitayama, 1998). Furthermore, individuals with a firm need
to belong are likely to be prone to materialistic tendencies
(Rose and DeJesus, 2007).

Highly independent people are less susceptible to exter-
nal influences (Wong and Ahuvia, 1998) and focus more
on internal experiences (Abe and Bagozzi, 1996). The
aforementioned empirical studies suggest that independent

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individuals are more likely to reject motivations that are socially generated. Furthermore, Clark’s (2006) study of U.S. university students finds that global independency is negatively related to materialism. To summarise, an individual with a more independent ‘self’ values being able to take care of herself, while an individual with a more interdependent self gives higher importance to her family or group(s).

Conventionally, it is suggested that teens’ levels of materialism are high (John, 1999; Larsen et al., 1999; Bristol and Mangleburg, 2005), but there is little explanation as to why this is. Research points in different directions; materialistic parents (Goldberg et al., 2003), broken families (Rindfleisch et al., 1997; Roberts et al., 2005), level of wealth (Goldberg et al., 2003) and susceptibility to peer pressure (Achenreiner, 1997; Goldberg et al., 2003). It seems as if the elections made by teenagers on consumption patterns, and the importance they give to the possession of certain objects, could be closely related to how they define themselves against others, and by extension, on the prevalence of materialistic behaviour in them.

Churchill and Moschis (1979) find that preferences of consumption differ between more independent and more interdependent consumers and suggest this is provoked by a stronger need for differentiation in consumers with a more pronounced independent self-construal. Furthermore, Zollo (1999) shows that adolescents’ material possessions have important consequences on their perception of their own self, and as mentioned above, Chaplin and John (2007) find that materialism is closely related to self-esteem in children between 8 and 18 years of age, so that materialistic behaviour could be reduced by boosting self-esteem. Based on this, we hypothesise that materialistic attitude could depend on what is dominant in them, independent self or interdependent self. This relationship between self-perception and materialism has not yet been studied.

This analysis leads us to the proposal of the following two main hypotheses:

**H1:** Independent self-construal relates negatively to materialism.

**H2:** Interdependent self-construal relates positively to materialism.

We propose a framework intending to investigate the following constructs: interdependent self-construal, independent self-construal and materialism, by using a scheme that represents a combination of interrelated fields such as consumer psychology, sociology and marketing, to examine how materialism is influenced by the dimensions of the ‘self’ (interdependent self-construal and independent self-construal). Figure 1 depicts the conceptual model.

**RESEARCH METHODOLOGY**

To test these hypotheses, a self-report survey was used to collect data from high school students in the state of São Paulo, Brazil. The population for this research consists of high school students between 12 and 19 years of age (grades 7 through 12). Three private high schools in the city of Santos were selected. Although in the US private schools are associated with affluence, this is not the case in Brazil, a country with a shortage of public high schools. Private schools are available and affordable for students in all socioeconomic sectors. With the intention of obtaining a diverse sample, tuition price was used as an indicator of socioeconomic status. The three selected schools represented an ample range of tuition.

Adolescence is a critical connection between childhood and adulthood, characterised by important physical, psychological and social transitions. These transitions bring new risks but also present opportunities to positively impact the immediate and future of young people (Gilles, 2014). The teenage years are a development phase, which can determine values one might carry as an adult, influencing deeply how one self is formed. Teenagers have always been an important consumer group because they tend to be early adopters and because, traditionally, their brand preferences and consumer habits are not yet firmly defined (Lapowsky, 2014). Furthermore, teens are getting more materialist than older generations, which reiterate the importance to focus on this age group (Chee, 2013).

Together with each school, students were recruited from approved classrooms. Before starting to answer all the students in the class with parental/guardian authorization were invited to complete the questionnaire. After that they were informed that their participation was voluntary (even with their parental authorizations) and that they could stop at any time. Nevertheless, they were not authorised by the school to leave the class in order to avoid noise and bother other classes. Furthermore, they were informed that any and all responses they provided would be held in the strictest confidence. It was also mentioned to the students that not even the school or parents would have access to individual data, all collected data and all classes in a specific school would be mixed and impossible to be separated. The total sample size obtained was 543 paper and pencil questionnaires. Two thirds of our sample are 16 or 17 years of age, and most of them have only one sibling or none (73%). Only 16 per cent of them have some kind of work and 66 per cent of their allowance pays for entertainment or clothes.
Measures
Developed in English, the instrument was translated into Portuguese by a native speaker and then translated back into English by a different native Portuguese speaker, who was not affiliated with this project. The instrument was pre-tested with 50 students, and reliability was satisfactorily assessed for the constructs, with an acceptable range of Cronbach’s alpha coefficients near .70 or better (Nunnally and Bernstein, 1994; Kline, 2000).

The independent self-construal scale was developed by Gudykunst et al. (1994) and improved by Gudykunst and Lee (2003). This measure was drawn from instruments used in past research in many cultures (Hui, 1988; Markus and Kitayama, 1991; Verma, 1992; Singelis, 1994; Yamaguchi, 1994). The Gudykunst et al. (1996) scale has 14 items, and the scales have good reliability and validity as shown in previous studies (e.g. Hackman et al. (1999)). All the items were measured using a 1 to 7 point scale (1=strongly disagree to 7=strongly agree).

The 14-item interdependent self-construal measure developed by Gudykunst and Lee (2003) was adopted. For the purpose of this study, three items related to work relationships were deleted, given that teenagers in urban areas of Brazil typically do not have jobs, and only a small proportion of our sample had one. Finally, a total of 11 items using a 1 to 7 point scale (1=strongly disagree to 7=strongly agree) were used. They include: ‘It’s important to consult close friends and get their ideas before making a decision’.

Materialism had 15 items assessing teenagers’ materialism value using a 1 to 7 point scale. The measure was developed by Wong et al. (2003), and was tested in a cross-cultural setting. This scale is an adapted version (altered to use an interrogative question format) of the version of the material values scale (Richins and Dawson, 1992; Richins, 2004). A sample question was: ‘How do you feel about people who own expensive homes, car and clothes?’ Past studies have reported that the scale demonstrates good reliability (e.g. Prendergast and Wong (2003); Rose and DeJesus (2007)).

Analysis procedure
First, we ran an exploratory factor analysis (EFA) using SPSS software version 23. We subjected all items to the EFA using varimax rotation. Using a cut-off eigenvalue of 1 (Kaiser, 1960) we found that there were five factors with accumulated variance explained of 52 per cent. We delete items that cross loaded onto more than one factor. With the inspection of the items forming the factors, we found that there are eight items measuring the materialism construct while there are eight items measuring the independent self-construal. For the items measuring the interdependent self-construal, there were three factors. Each factor had three items. The first sub-construct born from interdependent self-construal was renamed group dependency, and refers to a need to achieve the group’s authorisation before any action; it includes three items (e.g. ‘I consult others before making important decisions’). The second construct was named group loyalty and includes three items on putting the group interests ahead of one’s own interests (e.g. ‘I will sacrifice my self-interest for the benefit of my group’). Finally, group respect considers three items related to respecting group decisions (e.g. ‘I respect decisions made by my group’).

This all suggested a re-evaluation of our original hypotheses. While the first hypothesis (H1) continues to be reasonable, the second hypothesis had lost its meaning. We replaced H2 with three new hypotheses, H2a, H2b and H2c. Figure 2 diagrams the five construct model conceptually.

H1: Independent self-construal relates negatively to materialism.
H2a: Group dependency relates positively to materialism
H2b: Group loyalty relates positively to materialism
H2c: Group respect relates positively to materialism

Then we subjected the remaining 25 items measuring the specified five constructs to a confirmatory factor analysis using LISREL 9.1 (Jöreskog and Sörbom, 2013). The initial fit indices indicated a good model fit [$\chi^2_{(115)}=537.35$, $p < 0.001$, RMSEA = 0.04, CFI = 0.96, NFI = 0.91, NNFI = 0.98]. However, there were items that had low standardised factor loadings. Considering both statistical guidelines and evaluating the impact of deleting items on how a construct was defined, we sequentially deleted items with standardised factor loadings less than 0.50. The final measurement model fits the data well [$\chi^2_{(109)}=176.43$, $p = 0.02$, RMSEA = 0.04, CFI = 0.99, NFI = 0.95, NNFI = 0.98]. The values for CFI, NFI and NNFI were greater than the recommended value of 0.90 while the RMSEA is less than 0.08 (Hu and Bentler, 1998) (Table 1).

Convergent validity was supported, as the factor loadings were all significant (the lowest t-value was 9.11). The measurement model also demonstrated a reasonable level of reliability as the lowest construct reliability (CN) was 0.72, and the lowest Cronbach’s alpha was 0.70 (Nunnally and Bernstein, 1994). However, the average variance extracted (AVE) values were rather low. The lowest AVE was 0.40. However, as indicated by Fornell and Larcker (1981), the AVE is a more conservative measure of construct reliability. There are past studies that have also reported low value of AVEs (e.g. De Luca and Atuahene-Gima, 2007, Hanvanch et al., 2006). To satisfy the requirement of discriminant
validity, the AVE for two constructs should exceed the squared correlation between them (Fornell and Larcker, 1981). It can be seen from Table 2, which presents the correlations among constructs, there is no evidence that a squared correlation between any two constructs was higher than either of the constructs’ AVE. This provides support for discriminant validity among the constructs. In conclusion, the measurement model demonstrated satisfactory measurement properties.

RESULTS AND DISCUSSION

Once the measurement model demonstrated reasonably good measurement properties, we proceeded to run the structural model. The structural model fits the data well $[\chi^2_{115} = 335.40, \chi^2/df = 2.91, p < 0.001, \text{RMSEA} = 0.06, \text{CFI} = 0.94, \text{NFI} = 0.91, \text{NNFI} = 0.93]$. As the structural model fits the data well, we proceed with the analyses of the hypotheses. The complete model’s standardised solution is shown in Figure 3 and Table 3.

H1 is not supported because independent self-construal is positively related to materialism ($\beta=0.15$, t-value = 3.36). While we hypothesise that the independent self-construal would be negatively related to materialism, the significant

*Significant at ≤0.05 level (two tail test).
**Significant at ≤0.01 level (two-tailed test).
***Significant at ≤0.001 level (two-tailed test).

Figure 3. Complex model (standardised solution).

Table 3. Standardised solution—estimates and t-values

<table>
<thead>
<tr>
<th>Hypothesis</th>
<th>Standardised solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independent Self $\rightarrow$ Materialism H1</td>
<td>0.15*** 3.36</td>
</tr>
<tr>
<td>Group Dependency $\rightarrow$ Materialism H2a</td>
<td>0.20*** 3.25</td>
</tr>
<tr>
<td>Group Loyalty $\rightarrow$ Materialism H2b</td>
<td>-0.01 -0.31</td>
</tr>
<tr>
<td>Group Respect $\rightarrow$ Materialism H2c</td>
<td>-0.17*** -3.81</td>
</tr>
</tbody>
</table>

*Significant at ≤0.05 level (two-tailed test).
**Significant at ≤0.01 level (two-tailed test).
***Significant at ≤0.001 level (two-tailed test).
result for H1 is found, but in the opposite direction. It is unexpected to see that independent self-construal is positively affecting materialism. This result challenges our preconceived belief but is not necessarily unreasonable. Independent people, especially teenagers, may be drawn into materialistic behaviour in order to signal their difference with the rest. Additional explanation for the positive relationship between independent self-construal and materialism could rest on the fact that this research was done with Brazilian teenagers, a group seldom scrutinised in this class of research.

We expected interdependent self-construal to be positively related to materialism, because we hypothesised that more interdependent individuals would need to consume more of what others are consuming, in order to fit into the group. Teenagers are more invested with their friends, and would require somehow signalling their concordant personality to them. Nonetheless, the original construct was not homogenous enough so it was divided into three sub-constructs. These revealed relationships between them, depicted in Table 3, which allows for much more thought-provoking analyses. H2a is supported as group dependency affects materialism positively ($\beta = 0.20$, t-value = 3.25). As expected, Brazilian teenagers who possess high levels of group dependency tend to report high levels of materialism. This is because they want to achieve the group’s authorisation to be part of the group and thus may increase their levels of materialism consumption to fit in the group they belong or aspire to belong to.

H2b is not supported, as group loyalty has no effect on materialism ($\beta = -0.01$, t-value = -0.31). H2c is also not supported as group respect diminishes materialism ($\beta = -0.17$, t-value = -3.81). While we hypothesise that group respect would be positively related to materialism, a significant result for H2c is found, but in the opposite direction. Individuals with high respect for the decisions of the group seem to be the less affected by materialism, and this is actually the only construct to diminish it, which is something that we expected independent self to do.

CONCLUSION

Because there is no prior study that focuses on the relationship between self and materialism among teenagers, especially Brazilian teenagers, the results of this study suggest that both independent self and group dependency promote materialism among Brazilian teenagers. Also, materialistic individuals represent a large consumer segment (Wiedmann et al., 2009). The study of the Brazilian teen market reveals that retailers could shift marketing efforts to focus more on materialistic aspects of merchandising and advertising. Retail companies should understand that some teens relate with their own belief that money can buy them happiness and that acquiring material possessions is a form of demonstrating one’s achievements in life (Banerjee and Dittmar, 2008).

This research offers three main contributions. First, this study is an attempt to increase understanding of teenagers’ self and materialism and the relationship between them. The focus was on how interdependent and independent self-construal affects teenagers’ materialism levels. This research allows us to expand our understanding of the self and its different dimensions. Until now research has focused mainly on two types of self, independent and interdependent. It may be time to investigate a little deeper, and discover new levels of the self. One of the key findings of our study demonstrates that the self is a powerful force in developing materialism. Also, there are more dimensions of the self that should be studied. Our beliefs were partly justified; the self does translate into different levels of materialism among individuals. Yet, not all dimensions of the self-concept affect materialism equally. While both independent self and group dependency have positive impact on materialism, the group respect has a negative impact on materialism among teenagers. Because some of our hypotheses are supported in the opposite direction, it should be a compelling task to strengthen these findings with more investigation.

Second, we test the conceptual model using data from a sample of teenagers. Because our conceptual model was tested using the data gathered from adolescents, we found interesting new focuses for research. Regardless, our conclusions need not be confined only to adolescents, because aspects like loyalty and respect (the sub-constructs of interdependent self) are also part of the daily life of adults. These results should be taken with prudence, but also interest, by researchers.

Finally, this research focuses on Brazil. Another goal of the study was to examine the applicability of scales already tested in different cultures with Brazilian teenagers. The results are mixed, while independent self-construal responded well, interdependent self-construal did not. This may be because Brazilians do not share the traditional dimensions that have been internationally tested, or it could be that teenagers represent a more complex cohort to be analysed using the measurement scales developed for an adult cohort. It would be interesting to retest these dimensions in cultures in which they have already been tested, but with teenagers, in order to evaluate the real difference. This would be a good way to recognise if these results are born from the fact we studied adolescents, or because Brazilians do not share the same aspects other cultures do.

LIMITATIONS AND FUTURE RESEARCH

We should consider some possible shortcomings of our work, largely to do with the fact we used an adolescent’s data base and discovered new features of their self. Considering this, perhaps some of the measures used lack sensitivity for our audience, which could make sense given that most of the work done until now has not been tested on teenagers, but on adults. More research is needed in order to be certain this is not the case, and eventually find new scales more appropriated for use with teenagers. In order to make the psychometric properties of the measures used in this study stronger, future studies can incorporate some qualitative investigation into wordings and meaning used for measurement scales to ensure their appropriateness for adolescents. This can be done prior to pretesting the quantitative questionnaire.
Second, because our hypotheses are supported in the opposite direction, future studies can consider replicating and extending our conceptual frame work. Future research should involve different countries and different measures in order to investigate if the relationships found in this study are applicable in different settings. Further investigation should shade more light into the conflicting findings and explain our results better. Also, some qualitative study can be conducted to further explain the findings of our research. Finally, the nature of our research is cross sectional. Further studies can be developed to investigate whether the relationship between self and materialism varies as the teenagers become older. In other word, future research can test the moderating role of age on the associations between various self and materialism.

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