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The Role of Guilt Emotion Inducement Towards Environment Oriented Communication; A Systematic Review Approach

Rajat Subhra Chatterjee¹, Sharifah Azizah Haron², Syuhaily Osman³, Afida Mastura Binti Muhammad Arif⁴
¹UCSI University, ²,³,⁴University Putra Malaysia

Abstract
Guilt as an appeal have been extensively utilized in marketing and advertising under different context and research areas. In the current wake of environmental marketing, guilt appeal has been linked to studies concerning consumer attitude, and behaviour towards environment and green marketing and advertising. However, a periodic review on its relative role and applicability in environmental context role is lacking. This paper addresses this gap through a pioneer investigation of this appeal using systematic review to assess its role in environmental marketing and green marketing research. The systematic review findings reveal its relatively high direct and mediating influences on environmental communication and consumer choice but comparatively negligible utilization as a mediating variable.

Keywords: Guilt Emotion, Environment, Marketing Communication, Systematic Review, Message Appeal

Introduction
The definite strength of the emotional appeal especially in terms of guilt emotion is envisaged in numerous advertisements that are directed towards environmental awareness or modifying environmental behaviour (Huhmann & Brotherton, 1997). Though relatively delayed, researchers have been utilizing this appeal in different context, both as an individual component and with fear appeal. An evident exploration into past researches reveals that guilt as an appeal was dominant within the context of different study domains such as theology, philosophy, psychiatry and counselling, with limited applicability towards persuasive intent (Ghingold, 1981). The relative and explicit utilization of this appeal in environmental context cannot be refuted as over the last few decades various forms of guilt manipulation and studies concerning the same are evident across the academic literature (Elgaaied, 2012; Kabadayi et al., 2015a; Lee, 2013). Keeping up with the changing consumer attitude and in context of message design and manipulation, guilt appeal has gained quite a popularity across various forms of marketing communication (Coleman et al., 2020; Coulter & Pinto, 1995; Coulter et al., 1999). However, the use of guilt message requires an effective identification of the type of guilt to be utilized based on certain factors related to both the product or service and the degree of inducement required towards achieving the specific
It is ironical that very few studies have tried to observe the utilized of guilt message design in a systematic manner.

Also, it is evident that the recent influx of research on sustainable and environmentally oriented behaviour has focused on the relative importance of negative emotion (Amatulli et al., 2020; Muralidharan & Sheehan, 2018; Zwicker et al., 2020). This is not a new phenomenon and has time and again proved itself to be quite useful in forcing a definitive thought process. Definitive studies have linked the concept to theories such as appraisal theory (Lazarus & Smith, 1988) and established the relative strength of such association as the causal inference being created through the felt guilt towards action or inaction towards any situation (Antonetti & Maklan, 2014; McGraw, 1987; Peters, 2020). Therefore it is quite natural that marketers have utilized this appeal in a diligent manner across their communication, which is again evident from extensive studies related to use of guilt in sustainability and human environment related interactions involving attitude and behaviour (Onwezen et al., 2013; Theotokis & Manganari, 2015).

However, an effective summarization of the guilt as an emotion and its varied effect pertaining to environmental marketing towards consumer attitude and behavioral manipulation is not clear. This study tries to address this gap by undertaking a systematic review to assimilate the role of guilt appeal towards environment in both individual and organization context. The study also tries to address a gap in summarizing the applicability of guilt appeal message in marketing context, which also seems largely unexplored.

Conceptual Background

Guilt Appeal and Environment

In theoretical parlance guilt has been identified to consist of three types namely anticipated, existential and reactive (Huhmann & Brotherton, 1997), most of the prior studies have observed guilt as a unified construct with reference to its utility, with limited foray into individual effects of each guilt form (Lwin & Phau, 2014, 2008). Subsequently studies categorized guilt and defined anticipatory guilt as a form of guilt that precedes an action or an inaction, existential guilt is espoused from the felt differences across one’s state of existence or wellbeing with others and reactive guilt as a reaction towards felt transgression of one’s own behavior (Basil et al., 2001; Cotte et al., 2005; Coulter et al., 1999). Recent studies have substantiated this difference whereby the applicability of each type has been identified. It has been observed that similar communication can be presented from negative and positive perspective by utilizing different appeal. As an example, a recent study on effect of charity advertisement utilized reactive form to portray negative consequence of not donating and existential form to depict positive outcomes, with quite equal effects (Erlandsson et al., 2018).

It cannot be argued that since last two decades environmental awareness has played a key role in moderating consumption patterns and inadvertently the marketing communications associated with it. Guilt, among others, has been identified as a self-conscious emotion (Agrawal & Duhachek, 2010), which can lead to retributive behaviour by consumers to reduce the guilt aroused (Bozinoff & Ghingold, 1983; Ghingold & Bozinoff, 1982; Lee, 2013). As a dominant negative appeal towards emotional persuasion (Brennan & Binney, 2010; Lascu, 1991), in environmental context, guilt is a common arousal in consumers when they do not act pro-environmentally or in recent context, unsustainably towards the environment (Jackson,
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2005; Kim et al., 2016; Pelletier & Sharp, 2008). It can be inferred that the crux of any such advertising strategy lies in creating an environmental consciousness among the consumers, in which this appeal has been found to be quite influential (Chang, 2012a). However, utilizing it to a greater extent can be counterproductive as it may ignite different negative emotions such as anger, irritation and frustration among the consumers (Basil et al., 2001; Becheur et al., 2008; David et al., 2002; Roberts et al., 2014). Therefore, in summary an in-depth review on its execution method and the frequency of utilization by advertisers, is required to develop a clear understanding of this appeal.

Systematic Review on Environment
Systematic review has evolved since last few decades as one of the prominent methods of research assimilation. Although as an evidence based approach its major utilization has been in medical sciences and its related fields (Butler et al., 2016; Scurlock-Evans et al., 2014; Tranfield et al., 2003) and a few related to guilt clinical trials (Tilghman-Osborne et al., 2010). Subsequently, keeping in view of the utility of this method, it was also introduced within the field social science and management such as pedagogical learning (Aglen, 2016), learning policy implementation (Ubbink et al., 2013) and knowledge management practices (Oktari et al., 2020) among others. They are a method of mapping out areas of uncertainty, and identifying where little or no relevant research has been undertaken till date, but where new studies are evidently required (Petticrew & Roberts, 2008).

Systematic review and environmental studies are much intertwined under the broad umbrella of social science, which is evident from the earlier guidelines provided towards undertaking such reviews (Pullin, 2012; Pullin & Stewart, 2006). Limiting only to title of study, complex reviews concerning environmental policies and practices (Bayliss et al., 2016; Bilotta et al., 2014; Walker et al., 2013), environmental responsibility and sustainability (Sotiriadou & Hill, 2015) including educational policies relating to such practices (Aikens et al., 2016) have been duly observed. Further review studies pertaining to human environment interactions are also evident whereby the subject being covered includes environmental data and management, environmental awareness, and environmental knowledge (Bayliss et al., 2016; Pullin & Stewart, 2006). However, it is evident from the past academic literature that none of the systematic review tried to observe the guilt emotion and its relative utilization in environmental context.

Research Methodology
Review Scope
This paper is using systematic review (SLR) to review the related literature pertaining the guilt appeal. A preliminary study on the topic of “guilt appeal and environmental marketing” was being conducted to assess upon the requirement of this systematic review and also the availability of literature towards the same. In accordance with the prescribed guidelines primary requirement of undertaking a review is to establish a clear review scope (Thomas James et al., 2019; Wetzstein et al., 2016). Therefore in accordance with the given requirement, below table summarizes the filtration process and provides appropriate explanation for each of them.
### Review Scope

| EXCLUSION CRITERIA                                                                 | JUSTIFICATION                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Books and book chapters                                                           | Inadequate towards maintaining the conceptual rigorosity and methodological description |
| Posters, pamphlets, newspaper clippings, editorial articles, newspaper and magazine articles | In both print and electronic media considered not relevant towards the scope of the review. |

| INCLUSION CRITERIA                                                                             | JUSTIFICATION                                                                 |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Selection of scholarly academic work from referred journals and conference proceedings (according to the respective rating) using reputed search databases and publisher. | The primary source for reviewing the academic literature. Without any restriction towards geographic boundaries of the publication/author comparative study framework is available |
| English Language based writing                                                              | Researchers language limitation and accessibility limitation                  |
| Research conducted over past 20 years                                                        | Emphasis on the recent literature developments according to the research context. |

**Review Protocol**

A review protocol was also developed, which helps to outline the details and the mechanism of the systematic review process and furthermore helps to ensure that the questions and research are developed in an effective manner. The review protocol outlines the process of fulfilment of the primary objectives pertaining to any systematic review exercise (Murphy, 2012; Seuring & Gold, 2012).

As a requirement towards this protocol, selection of research database was being undertaken. The justification pertaining to selection of the databases lies on their relative coverage of the subject matter, quality of the content and utilization of English as a medium. All the selected databases constituted reputed journals indexed in Scopus and ISI. Studies concerning systematic review which again is an essential criterion to establish the credibility of the study being conducted (Loureiro et al., 2014).

To ensure that the journal articles being preselected based on the citation index meet the academic rigor, quality and relevance towards the scope and objective of the intended review, the study utilized a step by step application of the inclusion criteria, until the abstract reading stage. The inclusion criteria ensures that a set of related and identifiable data is being collected to ameliorate the review quality (Meline, 2006; Piso et al., 2016). It was observed that all the databases and especially Ebscohost Discovery Services returned the highest number of results under every filter/inclusion criteria being applied at subsequent stages. Aligning to the scope of this review, the “In text” search option was conducted on all the identified online databases. The final stage constituted of abstract reading through which the most relevant papers were identified for further review. The below table enumerates the journal identification process.
Table 2

Database Search Results

| Criteria/Filter                          | Database       | Citation generated |
|-----------------------------------------|----------------|--------------------|
| English Language                        | EmeraldPlus    | 1108               |
|                                         | Science Direct | 326                |
|                                         | Springer link  | 862                |
|                                         | Ebscohost      | 71,139             |
| **Total**                               |                | **73435**          |
| Time Frame (Year): 1996-2016 (20 years) |                |                    |
|                                         | EmeraldPlus    | 225                |
|                                         | Science Direct | 270                |
|                                         | Springer link  | 728                |
|                                         | Ebscohost      | 4824               |
| **Total**                               |                | **6047**           |
| Full Text Journal Paper (Availability)  |                |                    |
|                                         | EmeraldPlus    | 89                 |
|                                         | Science Direct | 147                |
|                                         | Springer link  | 227                |
|                                         | Ebscohost      | 2419               |
| **Total**                               |                | **2882**           |
| Using “In Text” search option for “Environmental Marketing” using the “AND” option for the keywords “Guilt Appeal” AND “Environmental Marketing” | EmeraldPlus | 2 |
|                                         | Science Direct | 4                  |
|                                         | Springer link  | 1                  |
|                                         | Ebscohost      | 52                 |
| **Total**                               |                | **59**             |
| Abstract Reading                        |                |                    |
|                                         | EmeraldPlus    | 2                  |
|                                         | Science Direct | 4                  |
|                                         | Springer link  | 1                  |
|                                         | Ebscohost      | 5                  |
| **Total**                               |                | **12**             |

**Findings**

After performing an abstract reading of 52 journal articles, a total of twelve journal papers from different sources were found appropriate towards further review using the descriptive method. The below table provides the key summary and findings.
| S.no | Journal | Title                                                                 | Author(s)/Year of Publication | Citation | Data Analysis                                                                 | Key Findings/Summary                                                                                                                                 |
|------|---------|----------------------------------------------------------------------|-------------------------------|----------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 1    | Environment and Behaviour (Med) | Responsibility and Environment Ecological Norm Orientation and External Factors in the Domain of Travel Mode Choice Behavior | Hunecke, M., Blobaum, A., Matthies, E., Hoger, R./2001 | (Blobaum, et al., 2001) | Quantitative: Principal Component analysis with varimax rotation; Multivariate Analysis; correlation analysis and path analysis | An experimental research on relative interaction of ecological norm (EC) and fare and subway station range was conducted with reference to travel mode choice behaviour.
Guilt was measured in terms of ecological guilt, which was found to be an independent dimension affecting the personal norm and in functionality, as a predictor to it. The causality of their relationship was inferred as requiring further clarification as both were observed as domain and situation specific. |
| 2    | Journal of Business Research (Ind) | Fear, guilt, and shame appeals in social marketing | Brennan, L. and Binney, W./ 2010 | (Brennan & Binney, 2010) | Qualitative; Hermeneutic method applied on semi-structured interview data | A comparative analysis of fear, guilt and shame as appeals reconfirmed the coping mechanism. However it was not a resultant of the depicted problem and as a result infused negative emotional responses.
Guilt as an appeal was found to be more effective than fear in evoking thought and was considered a subjective appeal prone to personal choice. The appeal was also inferred to be ubiquitous in current advertising campaign scenario including campaign on environmental awareness. |
|   | Intercultural Communication Studies (Ind) | The Influence of Ethnicity on Consumers’ Environmental Attitudes and Responses to Guilt Appeals in Green Advertising: An Experimental Study | Yang, K. C.C., Jimenez, M., and Kang, Y./ 2015 | (Kenneth et al., 2015) | Quantitative: One way ANOVA and MANCOVA analysis was performed on collected data. | The study focused on two major areas namely ethnicity effects on environmental attitude and moderating guilt level and its effects on attitude towards a green advertisement and the brand. Guilt affected both the attitude towards ad and brand and inducing lower level of appeal was found to be more effective. However ethnicity and environmental attitudes played no significant role in influencing consumer attitude, when being induced as covariates in this study. |
|---|---|---|---|---|---|---|
| 4 | International Journal of Advertising (Ind) | Are guilt appeals a panacea in green advertising? The right formula of issue proximity and environmental consciousness | Chang, C.T./2012 | (Chang, 2012b) | Quantitative: MANCOVA analysis was conducted on 2 different studies. | The primary objective of this study was to observe the relative nature of interaction between guilt appeal in advertising and issue proximity and environmental consciousness as moderators. Experimental design was undertaken and results indicated that guilt appeals are suitable for green advertising. However its effectiveness on consumer’s attitude towards the product were found to be relative to the varying degree of the two moderators. |
| 5 | Journal of Consumer Marketing (med) | Exploring the role of anticipated guilt on pro-environmental behavior – a suggested typology of residents in France based on their recycling patterns | Elgaied, L./2012 | (Elgaied, 2012) | Quantitative: Cluster Analysis and subsequently Correlation and Regression Analysis was conducted | Intentional towards recycling of products among French residents were observed when being influenced by anticipated guilt. Anticipatory guilt was found to mediate the relationship between environmental concern (completely), awareness of negative consequences (partially) and perceived facilitating conditions (partially) with recycling intentions. The study primarily relied on individual predisposition and perception. |
| 6 | Social Behaviour and Personality (ind) | The influence of message appeal, environmental hyperopia, and environmental locus of control on green policy communication | Lee, Y.K./2013 | Quantitative: Median Split method and ANOVA was utilized | The study observed the inter-relationship between green appeal, Environmental Hyperopia and Environmental Locus of control (ELOC) in context of Green Policy communication. Guilt appeal was found to be effective in green communications however the variance of ELOC (external/internal) in consumers moderated the effect in terms of global (Environmental Hyperopia) or local issues being addressed. The difference between a guilt and non-guilt appeal were unimportant when external ELOC was stronger. |
| 7 | Journal of Economic Psychology (med) | The Norm Activation Model: An exploration of the functions of anticipated pride and guilt in pro-environmental behaviour | Onwezen, M.C., Antonides, G., Bartels, J./2013 | Quantitative: Structural Regression Models (using Mplus); Correlation analysis | The role of anticipated pride and guilt within the Norm Activation Model (NAM) were explored in context of pro-environmental behaviour. Seven functional models depicting the association were drawn. The observed variables were found to be the mediating the personal norm and behaviour relationship. In context of an extended NAM, with integrated TPB variables, the influence was observed as indirect and further mediated by intentions. |
| 8 | Journal of Environmental Psychology (Med) | Environmentally friendly consumer choices: Cultural differences in the self-regulatory function of anticipated pride and guilt | Onwezen, M.C., Antonides, G., Bartels, J./2014 | Quantitative: Structural Regression Models( using Mplus); Chi-Square analysis | The self-regulatory aspect of anticipated pride and guilt with respect to social and personal behavioral standards were explored in context of environmental choice behaviour. The aim was to compare individuals from the individualistic and collectivistic cultural orientation within and across selective countries. |
|   | International Journal of Social, Behavioral Educational, Economic, Business and Industrial Engineering (Ind) | The Use of Appeals in Green Printed Advertisements: A Case of Product Orientation and Organizational Image Orientation Ads | Ruanguttamanun, C./ 2014 | Mix Method: two step K – Mean clustering; Content Analysis | The results confirmed presence of the self-regulatory function of the chosen variables concerning behaviour. Furthermore, the variation was across and not within individualistic and collectivistic countries. |
|---|---|---|---|---|---|
| 9 | Procedia - Social and Behavioral Sciences (Ind) | Green purchase intention of young Turkish consumers: Effects of consumer’s guilt, self-monitoring and perceived consumer effectiveness | Kabadayi, E.T., Dursun, I., Alen, A.K., Tuger, A.T./2015 | Quantitative: Confirmatory factor analysis using maximum likelihood estimation technique; Structural Equation Modelling | The study explored the types of appeals being used in context of green Marketing. The ads containing two major orientation types namely product and organizational image were utilized. Guilt and shame were observed to appear concurrently in most of the identified ads under this category. The dominance of negative appeals were identified under the organizational image orientation. |
| 10 | Journal of Experimental Social Psychology (Ind) | Reparation or reactance? The influence of guilt on reaction to | Graton, A., Ric, F., Gonzalez, E./ 2016 | Quantitative: Factor analysis with varimax rotation; contrast | The relative effect of three factors namely, consumer guilt (CG) Self-Monitoring (SM) and perceived consumer effectiveness (PCE) on consumer intention towards green consumption was studied. The context undertaken was a localized Earth Hour campaign. PCE is highlighted to be of most significant and SM with negligible direct effects. Competitive altruism as a variable has been suggested towards better evaluation of the interrelationship between SF and CG. |
| 12 | Fashion and Textiles (Mod) | Spillover from past recycling to green apparel shopping behavior: the role of environmental concern and anticipated guilt | Ha, S., Kwon, S.Y./2016 | Quantitative: Confirmatory Factor Analysis; Regression Analysis | Spillover effects of performing recycling behaviour on the likelihood of green apparel purchase was examined, in context of pro-environmental behaviour. Anticipated guilt was inducted as a moderator. Though spillover effects were existent, guilt was not found to moderate the observed relationship between past recycling behaviour and green apparel purchase. On the other hand environmental concern was found to mediate the said relationship. |
Discussion

Guilt: As a Direct Influencer

Most of the studies involved observing the direct influences of guilt. As a message appeal, guilt can generate more positive responses to advertisements through conscience arousal and is considered a more personalized feeling (Brennan & Binney, 2010; De Luca, 2016). However, consumers do perceive similarity and pervasiveness of this appeal with shame which is again a secondary emotion considered to arise in duality in certain circumstances (Ruanguttamanun, 2014). This establishes that as a message appeal the role of guilt is more on individualistic influences, that can affect the self-thought process.

Furthermore, it is also being observed from the above review that pro-environmental behaviour was adopted when guilt persuasion was coupled with reparatory cues. However, its blatant presence created negative results (Graton et al., 2016). While considering green advertising, varying the guilt level can differ its relative effects on consumer’s attitude, both towards the ad and the brand which again reflect the encompassing effect of this emotion (Yang et al., 2015). Furthermore, their intention to consume green is also being influenced either directly or indirectly through their perceived effectiveness of such consumption by the consumer (Kabadayi et al., 2015b). In context of environmental consciousness, guilt affects are stronger with local issues/low proximity issues than global/high proximity issues when people are less conscious and can backfire when the same is used for highly conscious people (Chang, 2012b; Lee, 2013). Finally, it is also being observed that while exploring anticipated guilt with pride does prove the direct influence of guilt emotion on ecological behaviour in recycling context (Elgaaied, 2012).

Guilt as a Mediator

Guilt is also found to be an effective mediator. In reference to Norm Activation Model it is found to be an independent dimension of personal ecological norm (Hunecke, Blöbaum, et al., 2001) and also mediate the influence of personal norm variable on intentions and behaviour (Onwezen et al., 2013). In studies conducted on anticipated guilt, it was found to completely mediate environmental concern and recycling intention and partially mediate the awareness of negative consequences and recycling intention (Elgaaied, 2012). While considering individualistic and collectivistic cultural orientation, the self-regulatory function of anticipated guilt mediated attitude and social norm effects on organic purchase intentions (Onwezen et al., 2014).

Guilt as a Moderator

Only one research being included in the table analyzed the moderating effects of guilt appeal in context of spillover of past recycling on green shopping. The study conducted by Ha (2016) and Kwon (2016) explored anticipated guilt in motivational form to explore its relative strength in moderating environmental concern and shopping behaviour in context of past recycling behaviour (Ha & Kwon, 2016). The results did not conclude any moderating effects on the observed relationships.

Conclusion

In summary, the inference from this systematic review process clearly indicates that guilt appeal has been utilized and its effects have been observed in context of environmental marketing and advertising. The appeal has been found to either directly influence
environmental consciousness, behaviour and consumer choices or mediate variables associated to it. Furthermore, though the applicability duly vary from consumer choice, intention and purchase to environmental attitude, behaviour, and norm, they are grounded mostly on relationship identification, as their primary research objective. This resonates with the fact that guilt is yet to reach substantial exploration on its relative influence on environmental marketing and its deeper related fields. Especially in context of moderating effects, the relative influence of this appeal in still unexplored. This has been also reflected in recent studies whereby even though guilt does act as an intervening variable in case of medical related issues such as trauma (Norman et al., 2014) and child behaviour (Malti, 2016) among others, its moderating effects have usually restricted to observations coupled with other variables (Lancellotti & Thomas, 2018).

This review highlights on a pertinent fact that guilt as an individual construct, has received limited application in context of environmental marketing and green marketing. The concurrent use of this appeal in magazine advertisements along with other appeals especially shame and fear, establishes this claim.

The review helps to further envisage the gradual proximity of researchers to focus on “green” as an agenda when exploring message appeal and environmental marketing. This aspect substantiates the findings during literature review, whereby green consumption and marketing manifests environmental awareness and communication respectively. The fact that they have been intrinsically linked, whether form consumer or marketing/advertising research perspective, in context of message appeal calls for further introspection on the nature and direction of their inter-relationship.

References
Aglen, B. (2016). Pedagogical strategies to teach bachelor students evidence-based practice: A systematic review. Nurse Education Today, 36, 255–263. https://doi.org/10.1016/j.nedt.2015.08.025
Agrawal, N., & Duhachek, A. (2010). Emotional Compatibility and the Effectiveness of Antidrinking Messages: A Defensive Processing Perspective on Shame and Guilt. Journal of Marketing Research, 47(2), 263–273. https://doi.org/10.1509/jmkr.47.2.263
Aikens, K., Mckenzie, M., & Vaughter, P. (2016). Environmental and sustainability education policy research: a systematic review of methodological and thematic trends. Environmental Education Research, 4622(2013), 0. https://doi.org/10.1080/13504622.2015.1135418
Amatulli, C., De Angelis, M., Pino, G., & Guido, G. (2020). An investigation of unsustainable luxury: How guilt drives negative word-of-mouth. International Journal of Research in Marketing, 37(4), 821–836. https://doi.org/10.1016/j.ijresmar.2020.03.005
Antonetti, P., & Maklan, S. (2014). Feelings that Make a Difference: How Guilt and Pride Convince Consumers of the Effectiveness of Sustainable Consumption Choices. Journal of Business Ethics, 124(1), 117–134. https://doi.org/10.1007/s10551-013-1841-9
Basil, D. Z. R., Ridgway, N. M., & Basil, M. D. (2001). Guilt appeals: The effects of responsibility and altruistic norms. Advances in Consumer Research, 28(1983), 216.
Bayliss, H. R., Haddaway, N. R., Eales, J., Frampton, G. K., & James, K. L. (2016). Updating and amending systematic reviews and systematic maps in environmental management. Environmental Evidence, 5(1), 20. https://doi.org/10.1186/s13750-016-0073-8
Becheur, I., Business, W., Merunka, D., Aix, I. A. E., Marseille, E., Valette-florence, P., France,
M., & Grenoble, C. (2008). Emotions of Fear, Guilt or Shame in Anti-Alcohol Messages: Measuring Direct Effects on Persuasion and the Moderating Role of Sensation Seeking. *Advances in Consumer Research, 8*, 99–106.

Bilotta, G. S., Milner, A. M., & Boyd, I. (2014). On the use of systematic reviews to inform environmental policies. *Environmental Science & Policy, 42*(October), 67–77. https://doi.org/10.1016/j.envsci.2014.05.010

Bozinoff, L., & Ghingold, M. (1983). Evaluating guilt arousing marketing communications. *Journal of Business Research, 11*(2), 243–255. https://doi.org/10.1016/0148-2963(83)90031-0

Brennan, L., & Binney, W. (2010). Fear, guilt, and shame appeals in social marketing. *Journal of Business Research, 63*(2), 140–146. https://doi.org/10.1016/j.jbusres.2009.02.006

Butler, A., Hall, H., & Copnell, B. (2016). A Guide to Writing a Qualitative Systematic Review Protocol to Enhance Evidence-Based Practice in Nursing and Health Care. *Worldviews on Evidence-Based Nursing, 13*(3), 241–249. https://doi.org/10.1111/wvn.12134

Chang, C. T. (2012a). Are guilt appeals a panacea in green advertising? The right formula of issue proximity and environmental consciousness. *International Journal of Advertising, 31*(4), 741–771. https://doi.org/10.2501/IJA-31-4-741-771

Chang, C. T. (2012b). Are guilt appeals a panacea in green advertising? The right formula of issue proximity and environmental consciousness. *International Journal of Advertising, 31*(4), 741–771. https://doi.org/10.2501/IJA-31-4-741-771

Coleman, J. T., Royne, M. B., & Pounders, K. R. (2020). Pride, Guilt, and Self-Regulation in Cause-Related Marketing Advertisements. *Journal of Advertising, 49*(1), 34–60. https://doi.org/10.1080/00913367.2019.1689871

Cotte, J., Coulter, R. A., & Moore, M. (2005). Enhancing or disrupting guilt: The role of ad credibility and perceived manipulative intent. *Journal of Business Research, 58*(3 SPEC. ISS.), 361–368. https://doi.org/10.1016/S0148-2963(03)00102-4

Coulter, R.H. and Pinto, M. B. (1995). Guilt Appeals in Advertising: What are Their Effects? *Journal of Applied Psychology, 80*(6), 697–705.

Coulter, R. H., Cotte, J., & Moore, M. L. (1999). Believe it or not: Persuasion, manipulation and credibility of guilt appeals. *Advances in Consumer Research, 26*, 288–294. http://www.acrawebsite.org/volumes/display.asp?id=8264

David, D., Schnur, J., & Belloiu, A. (2002). Another search for the ‘hot’ cognitions: Appraisal, irrational beliefs, attributions, and their relation to emotion. *Journal of Rational - Emotive and Cognitive - Behavior Therapy, 20*(2), 93–131. https://doi.org/10.1023/A:1019876601693

De Luca, R. (2016). WHEN GUILT INDUCES CHARITY: THE EMOTIONAL SIDE OF PHILANTHROPY Sponsoring Information We would like to thank CAPES-Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (Coordination for the Improvement of Higher Education Personnel) for providing f. *European Journal of Business and Social Sciences, 5*(02), 44–58. https://pdfs.semanticscholar.org/d84e/260eaec12a26e7dedfdcc1951c5ce00518f4.pdf

Elgaaied, L. (2012). Exploring the role of anticipated guilt on pro-environmental behavior – a suggested typology of residents in France based on their recycling patterns. *Journal of Consumer Marketing, 29*(5), 369–377. https://doi.org/10.1108/07363761211247488

Erlandsson, A., Nilsson, A., & Vastfjall, D. (2018). Attitudes and Donation Behavior When Reading Positive and Negative Charity Appeals. *Journal of Nonprofit and Public Sector Marketing, 30*(4), 444–474. https://doi.org/10.1080/10495142.2018.1452828
Ghingold, M., & Bozinoff, L. (1982). Construct validation and empirical testing of guilt arousing marketing communications. *Advances in Consumer Research, 9*(1), 210–214. https://ezproxy.lib.unimelb.edu.au/login?url=http://search.ebscohost.com/login.aspx?direct=true&db=buh&AN=6430715&site=ehost-live

Ghingold, M. (1981). Guilt Arousing Marketing Communications: an Unexplored Variable. *Advances in Consumer Research, 8*(1), 442–448.

Gratton, A., Ric, F., & Gonzalez, E. (2016). Reparation or reactance? The influence of guilt on reaction to persuasive communication. *Journal of Experimental Social Psychology, 62*(October 2015), 40–49. https://doi.org/10.1016/j.jesp.2015.09.016

Ha, S., & Kwon, S. (2016). Spillover from past recycling to green apparel shopping behavior: the role of environmental concern and anticipated guilt. *Fashion and Textiles, 3*(1), 16. https://doi.org/10.1186/s40691-016-0068-7

Huhmann, B. A., & Brotherton, T. P. (1997). A content analysis of guilt appeals in popular magazine advertisements. *Journal of Advertising, 26*(2), 35–45. https://doi.org/10.1080/00913367.1997.10673521

Hunecke, M., Blobaum, A., Matthies, E., & Höger, R. (2001). Responsibility and Environment: Ecological Norm Orientation and External Factors in the Domain of Travel Mode Choice Behavior. *Environment and Behavior, 33*(6), 830–852. https://doi.org/10.1177/00139160121973269

Hunecke, M., Blöbaum, A., Matthies, E., & Höger, R. (2001). Responsibility and environment: Ecological norm orientation and external factors in the domain of travel mode choice behavior. *Environment and Behavior, 33*(6), 830–852. https://doi.org/10.1177/00139160121973269

Jackson, T. (2005). *Motivating Sustainable Consumption - A review of evidence on consumer behaviour and behavioural change.* January 2005, 170 pp. http://www.sd-research.org.uk/researchreviews/documents/MotivatingSCfinal.pdf

Kabadayı, E. T., Dursun, İ., Alan, A. K., & Tuğer, A. T. (2015a). Green Purchase Intention of Young Turkish Consumers: Effects of Consumer’s Guilt, Self-monitoring and Perceived Consumer Effectiveness. *Procedia - Social and Behavioral Sciences, 207*, 165–174. https://doi.org/10.1016/j.sbspro.2015.10.167

Kabadayı, E. T., Dursun, İ., Alan, A. K., & Tuğer, A. T. (2015b). Green Purchase Intention of Young Turkish Consumers: Effects of Consumer’s Guilt, Self-monitoring and Perceived Consumer Effectiveness. *Procedia - Social and Behavioral Sciences, 207*, 165–174. https://doi.org/10.1016/j.sbspro.2015.10.167

Kenneth, C. C. Y., Jimenez, M., & Kang, Y. (2015). The Influence of Ethnicity on Consumers’ Environmental Attitudes and Responses to Guilt Appeals in Green Advertising: An Experimental Study. *Intercultural Communication Studies, XXIV*(2), 192–207.

Kim, Y., Oh, S., Yoon, S., & Shin, H. H. (2016). Closing the Green Gap: The Impact of Environmental Commitment and Advertising Believability. *Social Behavior and Personality: An International Journal, 44*(2), 339–351. https://doi.org/10.2224/sbp.2016.44.2.339

Lancellotti, M. P., & Thomas, S. (2018). Men hate it, women love it: Guilty pleasure advertising messages. *Journal of Business Research, 85*(January), 271–280. https://doi.org/10.1016/j.jbusres.2018.01.021

Lascu, D.-N. (1991). Consumer Guilt: Examining the Potential of a New Marketing Construct. *Advances in Consumer Research, 18*(1), 290–295.

Lazarus, R. S., & Smith, C. A. (1988). Knowledge and Appraisal in the Cognition-Emotion
Relationship. *Cognition and Emotion*, 2(4), 281–300. https://doi.org/10.1080/02699938808412701

Lee, Y. K. K. (2013). The influence of message appeal, environmental hyperopia, and environmental locus of control on green policy communication. *Social Behavior and Personality, 41*(5), 731–738. https://doi.org/10.2224/sbp.2013.41.5.731

Lindenmeier, J., Lwin, M., Andersch, H., Phau, I., & Seemann, A. K. (2017). Anticipated Consumer Guilt: An Investigation into its Antecedents and Consequences for Fair-Trade Consumption. *Journal of Macromarketing, 37*(4), 444–459. https://doi.org/10.1177/0276146717723964

Loureiro, S., Pires, a. R., & Cayolla, R. (2014). Consumption, Anti-Consumption and Consumption Communities: The Football Clubs and its Fans. *Handbook of Research on Consumerism in Business and Marketing: Concepts and Practices*, 509–535. https://doi.org/10.4018/978-1-4666-5880-6.ch023

Lwin, M., & Phau, I. (2014). An exploratory study of existential guilt appeals in charitable advertisements. *Journal of Marketing Management, 30*(13–14), 1467–1485. https://doi.org/10.1080/0267257X.2014.939215

Lwin, M., & Phau, I. (2008). Guilt Appeals in Advertising: The Mediating Roles of Inferences of Manipulative Intent and Attitude Towards Advertising. In N. Spanjaard, D. and Denize, S. and Sharma (Ed.), *Proceedings of Australian and New Zealand Marketing Academy Conference* (pp. 1–9). University of Western Sydney. http://hdl.handle.net/20.500.11937/6120

Malti, T. (2016). Toward an integrated clinical-developmental model of guilt. *Developmental Review, 39*, 16–36. https://doi.org/10.1016/j.dr.2015.11.001

McGraw, K. M. (1987). Guilt Following Transgression: An Attribution of Responsibility Approach. *Journal of Personality and Social Psychology, 53*(2), 247–256. https://doi.org/10.1037/0022-3514.53.2.247

Meline, T. (2006). Selecting Studies for Systemic Review: Inclusion and Exclusion Criteria. *Contemporary Issues in Communication Science and Disorders, 33*(Spring), 21–27. https://doi.org/10.1044/cicsd_33_s_21

Muralidharan, S., & Sheehan, K. (2018). The role of guilt in influencing sustainable pro-environmental behaviors among shoppers: Differences in response by gender to messaging about England’s plastic-bag levy. *Journal of Advertising Research, 58*(3), 349–362. https://doi.org/10.2501/JAR-2017-029

Murphy, K. (2012). The social pillar of sustainable development: A literature review and framework for policy analysis. *Sustainability: Science, Practice, and Policy, 8*(1), 15–29. https://doi.org/10.1080/15487733.2012.11908081

Norman, S. B., Wilkins, K. C., Myers, U. S., & Allard, C. B. (2014). Trauma Informed Guilt Reduction Therapy With Combat Veterans. *Cognitive and Behavioral Practice, 21*(1), 78–88. https://doi.org/10.1016/j.cbpra.2013.08.001

Oktari, R. S., Munadi, K., Idroes, R., & Sofyan, H. (2020). Knowledge management practices in disaster management: Systematic review. *International Journal of Disaster Risk Reduction, 51*(January), 101881. https://doi.org/10.1016/j.ijdrr.2020.101881

Onwezen, M. C., Antonides, G., & Bartels, J. (2013). The Norm Activation Model: An exploration of the functions of anticipated pride and guilt in pro-environmental behaviour. *Journal of Economic Psychology, 39*, 141–153. https://doi.org/10.1016/j.joep.2013.07.005

Onwezen, M. C., Bartels, J., & Antonides, G. (2014). Environmentally friendly consumer
choices: Cultural differences in the self-regulatory function of anticipated pride and guilt. *Journal of Environmental Psychology, 40*, 239–248. https://doi.org/10.1016/j.jenvp.2014.07.003

Pelletier, L. G., & Sharp, E. (2008). Persuasive communication and proenvironmental behaviours: How message tailoring and message framing can improve the integration of behaviours through self-determined motivation. *Canadian Psychology/Psychologie Canadienne, 49*(3), 210–217. https://doi.org/10.1037/a0012755

Peters, B. G. (2020). Can We Be Casual about Being Causal? *Journal of Comparative Policy Analysis: Research and Practice, 00*(00), 1–14. https://doi.org/10.1080/13876988.2020.1793327

Petticrew, M., & Roberts, H. (2008). Strating The review, defining the questions and setting the boundaries. In *Systematic Reviews in the Social Sciences: A Practical Guide*. John Wiley & Sons Ltd. https://doi.org/10.1002/9780470754887

Piso, Z., Werkheiser, I., Noll, S., & Leshko, C. (2016). Sustainability of what? Recognising the diverse values that sustainable agriculture works to sustain. *Environmental Values, 25*(2), 195–214. https://doi.org/10.3197/096327116X14552114338864

Pullin, A. S. (2012). Realising the potential of environmental data: a call for systematic review and evidence synthesis in environmental management. *Environmental Evidence, 1*(1), 2. https://doi.org/10.1186/2047-2382-1-2

Pullin, A. S., & Stewart, G. B. (2006). Guidelines for systematic review in conservation and environmental management. *Conservation Biology, 20*(6), 1647–1656. https://doi.org/10.1111/j.1523-1739.2006.00485.x

Roberts, W., Strayer, J., & Denham, S. (2014). Empathy, anger, guilt: Emotions and prosocial behaviour. *Canadian Journal of Behavioural Science / Revue Canadienne Des Sciences Du Comportement, 46*(4), 465–474. https://doi.org/10.1037/a0035057

Ruanguttamanun, C. (2014). The Use of Appeals in Green Printed Advertisements : A Case of Product Orientation and Organizational Image Orientation Ads. *International Journal of Social, Behavioral, Educational, Economic, Business and Industrial Engineering, 8*(9), 2929–2934.

Scurlock-Evans, L., Upton, P., & Upton, D. (2014). Evidence-Based Practice in physiotherapy: A systematic review of barriers, enablers and interventions. *Physiotherapy (United Kingdom), 100*(3), 208–219. https://doi.org/10.1016/j.physio.2014.03.001

Seuring, S., & Gold, S. (2012). Conducting content-analysis based literature reviews in supply chain management. *Supply Chain Management, 17*(5), 544–555. https://doi.org/10.1108/13598541211258609

Sotiriadou, P., & Hill, B. (2015). Raising environmental responsibility and sustainability for sport events: A systematic review. *International Journal of Event Management Research, 10*(1), 1–11.

Theotokis, A., & Manganari, E. (2015). The Impact of Choice Architecture on Sustainable Consumer Behavior: The Role of Guilt. *Journal of Business Ethics, 131*(2), 423–437. https://doi.org/10.1007/s10551-014-2287-4

Thomas James, Kneale Dylan, McKenzie Joanne E, Brennan Sue E, & Bhaumik Soumyadeep. (2019). Determining the scope of the review and the questions it will address. *Cochrane Handbook for Systematic Reviews of Interventions, 13*–31. https://training.cochrane.org/handbook/current/chapter-02

Tilghman-Osborne, C., Cole, D. A., & Felton, J. W. (2010). Definition and measurement of guilt: Implications for clinical research and practice. *Clinical Psychology Review, 30*(5), 536–
Tranfield, D., Denyer, D., & Smart, P. (2003). Towards a Methodology for Developing Evidence-Informed Management Knowledge by Means of Systematic Review. *British Journal of Management, 14*(3), 207–222. https://doi.org/10.1111/1467-8551.00375

Ubbink, D. T., Guyatt, G. H., & Vermeulen, H. (2013). Framework of policy recommendations for implementation of evidence-based practice: A systematic scoping review. *BMJ Open, 3*(1). https://doi.org/10.1136/bmjopen-2012-001881

Walker, J., Holm Hansen, C., Martin, P., Sawhney, A., Thekkumpurath, P., Beale, C., Symeonides, S., Wall, L., Murray, G., & Sharpe, M. (2013). Prevalence of depression in adults with cancer: a systematic review. *Annals of Oncology, 24*(4), 895–900. https://doi.org/10.1093/annonc/mds575

Wetzstein, A., Hartmann, E., Benton, W. C., & Hohenstein, N. O. (2016). A systematic assessment of supplier selection literature – State-of-the-art and future scope. *International Journal of Production Economics, 182*, 304–323. https://doi.org/10.1016/j.ijpe.2016.06.022

Yang, K. C., Jimenez, M., & Kang, Y. (2015). The Influence of Ethnicity on Consumers’ Environmental Attitudes and Responses to Guilt Appeals in Green Advertising: An Experimental Study. *Intercultural Communication Studies, XXIV*(2), 192–207.

Zwicker, M. V., Nohlen, H. U., Dalege, J., Gruter, G. J. M., & van Harreveld, F. (2020). Applying an attitude network approach to consumer behaviour towards plastic. *Journal of Environmental Psychology, 69*(April), 101433. https://doi.org/10.1016/j.jenvp.2020.101433