

Doing good to be green and live clean! - Linking corporate social responsibility strategy, green innovation, and environmental performance: Evidence from Maldivian and Moroccan small and medium-sized enterprises

Simmou, Walid; Govindan, Kannan; Sameerf, Ibrahim; Hussainey, Khaled; Simmou, Samira

Journal of Cleaner Production

DOI:

10.1016/j.jclepro.2022.135265

Published: 15/01/2023

Publisher's PDF, also known as Version of record

Cyswllt i'r cyhoeddiad / Link to publication

Dyfyniad o'r fersiwn a gyhoeddwyd / Citation for published version (APA): Simmou, W., Govindan, K., Sameerf, I., Hussainey, K., & Simmou, S. (2023). Doing good to be green and live clean! - Linking corporate social responsibility strategy, green innovation, and environmental performance: Evidence from Maldivian and Moroccan small and medium-sized enterprises. Journal of Cleaner Production, 384, Article 135265. https://doi.org/10.1016/j.jclepro.2022.135265

Hawliau Cyffredinol / General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
 - You may not further distribute the material or use it for any profit-making activity or commercial gain
 - You may freely distribute the URL identifying the publication in the public portal?

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

ELSEVIER

Contents lists available at ScienceDirect

Journal of Cleaner Production

journal homepage: www.elsevier.com/locate/jclepro





Doing good to be green and live clean! - Linking corporate social responsibility strategy, green innovation, and environmental performance: Evidence from Maldivian and Moroccan small and medium-sized enterprises

Walid Simmou^a, Kannan Govindan^{b,c,d,e,*,1}, Ibrahim Sameer^{f,1}, Khaled Hussainey^{g,1}, Samira Simmou^h

- ^a Faculty of Legal, Economic and Social Sciences, Ibn Zohr University, Agadir, Morocco
- ^b China Institute of FTZ Supply Chain, Shanghai Maritime University, Shanghai, 201306, China
- ^c Center for Sustainable Supply Chain Engineering, Department of Technology and Innovation, Danish Institute for Advanced Study, University of Southern Denmark, Campusvej 55, Odense M, Denmark
- ^d Yonsei Frontier Lab, Yonsei University, Seoul, South Korea
- ^e School of Business, Woxsen University, Sadasivpet, Telangana, India
- ^f Kulliyyah of Economics and Management Studies (KEM), Islamic University of Maldives, Male' city, Maldives
- g Portsmouth Business School, University of Portsmouth, England, UK
- ^h Polydisciplinary Faculty of Taroudant, Ibn Zohr University, Taroudant, Morocco

ARTICLEINFO

Handling Editor: Zhifu Mi

Keywords:
Corporate social responsibility
Green innovation
Environmental performance
SMEs
Developing countries
Stakeholder theory
Natural-resources-based view theory

ABSTRACT

Corporate social responsibility (CSR) approaches are becoming increasingly widespread as environmental performance (EP) continues to be a significant aspect of developing a firm's socioemotional wealth, such as legitimacy, trustworthiness, and image. We draw on stakeholder and natural-resources-based view theories to investigate how CSR strategies may improve environmental performance via the underlying mechanism of green innovation (GI), especially in developing countries. Useable data was collected from 367 Maldivian and Moroccan service enterprises and analyzed using partial least squares (PLS-SEM) methodology. The findings indicated that external (Environment and Community) and internal (Employees) CSR-related approaches significantly impact environmental performance. Furthermore, the study suggests a mediation effect of GI on the CSR-EP nexus. Finally, this paper opens significant directions, enriches existing theories, and provides fascinating implications for SMEs professionals.

1. Introduction

Over the past half-century, environmental challenges such as recordhigh carbon emissions, waste energy, pollution, wastewater, and water shortage have rapidly raised the consumption of natural resources, which constitutes 2020's hottest year (Albert, 2020; Brown, 2021; Sepehri et al., 2020; Kannan et al., 2022). In particular, Small and Medium Enterprises (SMEs), as critical pillars of job creation and global economic growth, contribute between 60% and 70% of global pollution (Arnold, 2018; Mendes et al., 2022). However, SMEs' approaches to addressing environmental challenges are not well recognized

(Kortetmäki et al., 2022; Perrini et al., 2007). Especially in Maldives and Morocco, carbon emissions per capita were recorded 3.97 & 1.95 metric tons, respectively, which are relatively significant in comparison with France (4.46), Brazil (2.05), and the United Kingdom (5.22) (The World Bank, 2022). This necessitates immediate actions from all stakeholders to alleviate the environmental repercussions of their industrial activity (Baah et al., 2021; Trumpp et al., 2015).

Integrating economic progress, environmentalism, and community cohesiveness in single research is a cornerstone from a holistic perspective (Kassinis and Vafeas, 2006; Sánchez-Infante Hernández et al., 2020). CSR has been and continues to be more pressing in recent

^{*} Corresponding author. China Institute of FTZ Supply Chain, Shanghai Maritime University, Shanghai, 201306, China. *E-mail address*: kgov@iti.sdu.dk (K. Govindan).

 $^{^{1}}$ Second author.

years, owing to its increased ethical emphasis on the environment (Fernández-Gago et al., 2020; Islam et al., 2019) and social good (Govindan, 2022). According to *The Forum for Sustainable and Responsible Investment*'s 2020 report, businesses worldwide have invested over \$16.6 trillion in CSR programs. Given this, CSR is often seen as a relevant component for long-term viability (Fandos-Roig et al., 2021; Tworzydło et al., 2021).

In particular, many emerging markets are currently anguished by their environmental issues (Kannan et al., 2022a; Zarbakhshnia et al., 2022). There is a compelling case for studying Maldives and Morocco in particular: their geographical diversity, population, culture, economic system, and, most significantly, their performance on the SDG ranking (Maldives 69.27% and Morocco 70.53%). Furthermore, these two nations are part of a polluted area; garbage disposal rates in South Asian countries (including the Maldives) and North African countries (including Morocco) are expected to reach 661 million tonnes and 225 million tonnes, respectively, in 2050 (The World Bank, 2022). As a result, these two countries have taken specific actions in response to these situations. For instance, in Morocco, the General Confederation of Moroccan Enterprises (CGEM) gives accreditation for CSR business. Despite these efforts, enterprises do not regard CSR as a critical component of economic performance (Boutti, 2009); further, the demand for CSR and environmental preservation is far from being observed despite existing legislation (M'Hamdi, M. and Trid, 2009). In the Maldives, a distinctive selling point for tourist resorts is the "clean and green environment" idea. To support this, their President launched "green resort awards" to promote tourist resorts that incorporate green principles in their management (Shareef et al., 2014). Moreover, the Capital Market Development Authority (CMDA) introduced the corporate governance (CG) code to guarantee that businesses respect the CSR baseline. Furthermore, Shareef et al. (2014) assert that just 32% of Maldives firms have formal CSR strategies integrated into their operations, 18% feel CSR may decrease costs, and 68% believe CSR leads to consumer loyalty.

Interestingly, CSR-EP nexus literature is in its infancy. While some studies argue that CSR might increase financial performance (Bruna and Lahouel, 2022; Sameer, 2021), there remains a paucity of evidence on how CSR impacts EP, specifically in developing countries (Kraus et al., 2020). Moreover, while there is an inconclusive debate on CSR and EP, GI as an underlying mechanism has received less attention in explaining why organizations should consider both economic and non-economic outcomes (Abbas and Sağsan, 2019; Grassmann, 2021). Thus, this article proposes a novel framework to examine the CSR-EP nexus via the underlying mechanism of GI in terms of stakeholder and natural-resources-based view theories. More precisely, this research examines the following question: How do CSR strategies impact SMEs' environmental performance in the Maldives and Moroccan contexts, and does GI mediate this association? In order to fill this gap, useable data were collected from 367 Maldivian and Moroccan service enterprises and analyzed using the partial least squares (PLS-SEM) modeling.

Finally, this study makes a significant and novel contribution to the literature on social-environmental management. North America and Western Europe dominate the study area, so the current work is the only paper examining the internal and external CSR approaches-EP nexus of Maldivian and Moroccan service enterprises. Moreover, it is the first paper to examine whether GI mediates the CSR initiatives-EP nexus in developing countries in the light of stakeholder and natural-resources-based view theories. In addition, this study adds to the environmental management foundations in developing countries by highlighting the role of CSR and GI practices in formulating SMEs' environmental performance. Finally, our paper provides a methodological contribution using the PLS-SEM method (Hair et al., 2020).

The next section discusses the related research to establish the theoretical underpinnings and to develop the conceptual framework. Next, the research design and findings are discussed. Finally, the last section summarizes research directions and implications.

2. Theoretical foundations and conceptual framework

2.1. EP and GI under the stakeholder and natural-resources-based view (NRBV) perspectives

This study relies on stakeholder theory (Freeman and David, 1983) and natural-resources-based theory (Hart, 1995). The stakeholder theory gained recognition and legitimacy by highlighting that firms might "do well by doing good" (Garay and Font, 2012; Kortetmäki et al., 2022). According to the theory's proponents, stakeholders are a firm component that drives techno-leaders' enterprises to act for their advantage in economic and non-economic areas. Drawing on this conceptualization, we analyzed CSR encompassing employees as internal stakeholders and community, environment, and consumers as external ones. However, stakeholders do not address firm environmental strategies equally (Channa et al., 2021; Menguc and Ozanne, 2005; Tang and Tang, 2012). For instance, according to recent Moroccan research, employees are more devoted to their jobs when their employers are involved in the environment and civic society (Chakra et al., 2021). Furthermore, CSR to the community is more vital for individualistic than collectivist employees (Faroog et al., 2014). Similarly, Tang and Tang (2012) argue that competitors, media firms, and government power differences determine SMEs' environmental performance. However, this theory does not provide a holistic view because of the impact of the natural environment on organizational behavior beyond the interest of shareholders and stakeholders (Freeman et al., 2021; McGahan, 2021). In summary, EP is very much connected to CSR in many forms, such as producing an environment-friendly product, reducing carbon emissions, incorporating clean energy, and promoting recycling (Alamsyah et al., 2020; Fan et al., 2020; Sarkar et al., 2021). As an extension of RBV theory (Barney, 1991), natural RBV theory acquired prominence. Hart (1995) confirmed that "one of the most important drivers of new resources and capability development for firms will be the constraints and challenges posed by the natural (biophysical) environment" (p. 989). Therefore, from a natural RBV, businesses should address natural (biophysical) environmental challenges by establishing particular resources and capabilities (Alt et al., 2015). Concretely, many developing economies, in particular, are today beleaguered by environmental issues that have significant implications for the climate and human life; as a result, CSR and GI capabilities may be leveraged as resources to mitigate the negative industrial impacts (Tan et al., 2021), improving financial performance (Vasileiou et al., 2022). Given this, both resources could attain sustained competitive advantage (Chang, 2011), which improves EP (Channa et al., 2021; Menguc and Ozanne, 2005). Nevertheless, few studies explored EP through CSR using the natural RBV theory. Both theories support and test the CSR-EP nexus, specifically in developing countries.

2.2. CSR definition and approaches

This study adopted the European Union's definition of CSR, which is "a concept whereby companies integrate social and environmental concerns in their firm operations and their interaction with their stakeholders voluntarily" (European Commission [EU, 2003). CSR refers to corporate practices that address an organization's economic, legal, ethical, and philanthropic duties related to diverse stakeholders (Carroll and Shabana, 2010; Dahlsrud, 2008). Accordingly, CSR is regarded as instrumental in positioning a firm in the market, and various scholars worldwide are studying its importance (Akbari et al., 2021; Dmytriyev et al., 2021). Not surprisingly, CSR in the Maldives and Morocco is developing (Elomari, S. and Amine, 2021). Liberalization began decades ago; hence, businesses were obligated to meet competitiveness standards, particularly those connected to CSR (Elbaz and Laguir, 2014).

Despite the lack of a universally accepted definition, CSR scope is multidimensional (Murcia, 2020; Zou et al., 2021). Therefore, this paper used the four spectrums of Farooq et al. (2014) to examine the CSR

practices-EP nexus in Moroccan and Maldivian SMEs, namely CSR to the environment (CSR-ENV), CSR to consumer (CSR-CON), CSR to the community (CSR-COM), and CSR to employees (CSR-EMP). CSR-ENV refers mainly to the enterprises' responsibility toward the natural (biophysical) environment. CSR-CON impacts relationship-building among consumers. CSR-COM depicts the enterprises' initiatives to build a good relationship with society. CSR-EMP represents CSR actions in human resources management within an organization.

2.3. CSR to environment and environmental performance

Organizations endure significant pressure from stakeholders in today's worldwide culture and often advocate for social and environmental concerns (Dupire & M'Zali, 2018; Hui and Smith, 2022). To be prosperous, an organization must live up to public expectations (Yohn, 2020); otherwise, the repercussions will be severe for the business. Consequently, Fernández-Gago et al. (2020) noted that CSR is gaining momentum. Previous studies indicated that CSR substantially improves SMEs' economic competitive performance (Surroca et al., 2010; Waheed and Zhang, 2022). Academics have also proven that proactive EP promotes a firm's economic and financial health (Al-Tuwaiiri et al., 2004; Deng et al., 2022). Despite its relevance, there remains a paucity of evidence on the CSR-EP nexus. For instance, prior research posited that environmental CSR activities substantially exhibit better EP in emerging markets (Al-Abdin et al., 2018; Brammer and Millington, 2008). Conversely, other researchers have offered conflicting evidence suggesting that CSR has no direct effect on EP (Brammer and Millington, 2008; Kraus et al., 2020; Singh et al., 2019). Overall, the CSR-EP nexus is not definitive and requires additional investigation. Then, the following hypothesis is suggested.

H1. CSR to the environment (CSR-ENV) positively affects environmental performance (EP)

2.4. CSR to employees and environmental performance

Stakeholder theory states that businesses should react to primary and secondary stakeholders' requirements. Employees are deemed significant stakeholders since they may directly affect how well the firm succeeds (Govindarajulu and Daily, 2004; Paillé et al., 2014). Research in the Maldives reveals that workers' social behavior adversely impacts financial performance (Moosa et al., 2021). Conversely, literature backs that employees who are embedded in environmental challenges act more pro-environmentally by implementing environment-friendly initiatives (Kim et al., 2018; Robertson and Barling, 2013); thereby, these practices promote financial performance and employee well-being (Ahmed et al., 2020; Islam et al., 2019), respectively. However, scholars have paid attention to employees' social behavior consequences on EP (Renwick et al., 2013; Tian and Robertson, 2019). For instance, research posited that conveying environmental strategy makes workers extra-socially accountable for boosting EP (Afridi et al., 2020; Chatterji et al., 2009; Farid et al., 2019). Involving teamwork via CSR events may encourage them to be more inventive and contribute to their environmental sustainability objectives (Runhaar and Lafferty, 2009; Waheed and Zhang, 2022). Then, the following hypothesis is suggested.

H2. CSR to employees (CSR-EMP) positively affects environmental performance (EP)

2.5. CSR to community and environmental performance

The community is a critical stakeholder with whom firms should create a positive connection by encouraging CSR practices (Ernst and Haar, 2022; Williams and Barrett, 2000). In this sense, SMEs achieve their CSR obligation to society via charitable activities (Kapelus, 2002) by supporting services that increase the quality of life (Ansu-Mensah et al., 2021) and assisting socio-economic growth (Sharma, 2019). Prior

research claims that corporate philanthropy (e.g., education, environment, arts) promotes firm performance (Heli et al., 2008; Jamali et al., 2017). For instance, Maldivian enterprises practice CSR to support communities, particularly impoverished individuals, via charity and philanthropy (Shareef et al., 2014). Research on Pakistan, China, and Bangladesh posited that charitable activities promoted sustainable performance and enhanced corporate image (Bose et al., 2017; Waheed and Zhang, 2022; Yu, 2020). Furthermore, Tahri & El Khamlichi (2019) call for more studies on Morocco's CSR community rather than human rights. However, scholars have given insufficient attention to CSR to community-EP nexus (Gautier and Pache, 2015; Wang and Qian, 2011). In this study, we believe CSR to the community is a beneficial strategy that produces economic and ecologically sustainable development (Sharabati, 2018). Then, the following hypothesis is suggested.

H3. CSR to the community (CSR-COM) positively affects environmental performance (EP)

2.6. CSR to consumer and environmental performance

Extant studies have acquired global resonance by highlighting the crucial role of consumers, as most external stakeholders, in pressuring modern businesses to act more ethically by implementing CSR for environment-related activities (Islam et al., 2019; Sen and Bhattacharya, 2001; Tao et al., 2022). For instance, 63% of consumers believe companies should address social and environmental change, most customers are prepared to pay a premium for green or environmentally goods, and 76% say they would boycott the enterprise if they learned of unethical business practices (Bhattacharya and Sen, 2004; CONE Communications, 2017; Xie et al., 2019). Previous studies indicated that consumer-related CSR substantially contributes to brand awareness (Achabou, 2020), purchase intention (Lee and Yoon, 2018), and improving firm performance (Bahta et al., 2021; Servaes and Tamayo, 2013). Others posited that ethical enterprises act pro-environmentally on their own by adopting more CSR related to consumers (Waheed and Zhang, 2022), leading to better performance (Deswanto and Siregar, 2018; Saeidi et al., 2015). However, there remains a paucity of evidence on how CSR, to consumers, impacts EP (Ahmad et al., 2021; Brown and Dacin, 1997). In this study, we believe that CSR to consumers makes a win-win strategy for sustainable growth (Maignan, 2001; Sharabati, 2018). Then, the following hypothesis is suggested.

H4. CSR to consumer (CSR-CON) positively affects environmental performance (EP)

2.7. CSR approaches and environmental performance: the underlying mechanism of green innovation

Research on CSR and GI practices, such as this study, is a way to assess what is happening in the general area called "environmental management" (Rothenberg et al., 2001). GI refers to technological initiatives in environmental management, waste recycling, energy conservation, green product design, and pollution prevention (Albort-Morant et al., 2016; Chen, 2008). The overwhelming body of evidence indicates that SMEs have greater receptivity to GI (Chang, 2011). On the one hand, it is a commercial opportunity to fulfill the needs of global markets and preserve the environment (Zhu et al., 2012). Secondly, SMEs scrutinize and understand innovation's role in addressing environmental concerns (Huang and Li, 2018; Klewitz and Hansen, 2014). Concretely, preliminary evidence posits that SMEs participate in environmental protection to mitigate their considerable environmental effect and to advance sustainable development (De Medeiros et al., 2014; Wang et al., 2021). In addition, GI proponents have demonstrated that technological innovation improves competitive position by reducing negative environmental impact (Singh et al., 2020; Tariq et al., 2019). While there is an inconclusive debate on CSR and organizational performance, GI has received little attention in

explaining why organizations should consider economic and non-economic outcomes (Chiou et al., 2011; Kraus et al., 2020). According to (Hart, 1995), GI could explicate the resources-competitive advantage nexus based on natural RBV theory. Hence, these practices sequentially lead to significant organizational performance (Abrahamson, 1997; Vasileiou et al., 2022), and meet environmental requirements (Chen et al., 2006). Then, the following hypotheses are suggested.

H5a. GI positively mediates the effect of CSR to the environment (CSR-ENV) on environmental performance (EP)

H5b. GI positively mediates the effect of CSR to employees (CSR-EMP) on environmental performance (EP)

H5c. GI positively mediates the effect of CSR to the community (CSR-COM) on environmental performance (EP)

H5d. GI positively mediates the effect of CSR to consumer (CSR-CON) on environmental performance (EP)

Fig. 1 presents all proposed hypotheses based on the examined literature review.

3. Methodology

3.1. Procedure and sample

The desired research used a cross-sectional design to gather all CSR dimensions and EP data. From January to April 2021, a self-questionnaire was adopted and circulated via an e-survey link. Furthermore, SMEs were used as the analysis unit, and the contexts were the Maldives and Morocco. In this study, SMEs refer to enterprises with fewer than 250 employees (EU, 2003). The service industry (e.g., bank, hotel, IT & BPO outsourcing, global management consulting, new technologies & service, marketing direct, finance & insurance, and telecommunication) covers 367 enterprises, including 188 SMEs from the Maldives and 179 from Morocco. The data was collected from the CGEM, an accreditation institution for the enterprise highly engaged in CSR in the Moroccan context. In the Maldives enterprises, the sample was identified as the government list of rewarded firms regarding their CSR initiatives. Finally, convenience sampling has been steadfastly used to optimize data collection in a short timeline.

On the other hand, the inverse square root and gamma-exponential methods were used to guarantee sample size accuracy for the intended study (Kock and Hadaya, 2018). In doing so, WarpPLS 7.0 software was set on a significance level of 0.05, a power level of 0.98, and a path coefficient of 0.197 (see Fig. 2), and produced a sample size estimated at

353 for the inverse square root and 333 for the gamma-exponential methods. As a result, the sample utilized in this research is highly suitable due to its large percentage compared to those needed.

3.2. Measurement variables

This intended study examined how various CSR strategies affect EP in developing countries. However, the CSR-EP relationship did not intend for empirical research, specifically the quantitative study using measurement scales. Consequently, there is no universal measurement for CSR and EP. This study attempted to incorporate the overused measures based on different research works in this context. On the one hand, the four dimensions suggested by (Farooq et al., 2014; Turker, 2009) were adopted to measure CSR. Three items scored on a five-point Likert scale, ranging from five to one, Strongly Agree to Strongly Disagree, were applied to all CSR dimensions. GI includes three items adapted from (Song and Yu, 2018). Finally, EP, a critical dimension of sustainable development, was measured on three items (Laosirihong et al., 2013).

This research also took a set of control variables adopted from previous studies. We used the number of employees to control corporate size. In developing countries, previous studies have argued that SMEs positively improved their EP (e.g., S. K. Singh et al., 2020). Moreover, we considered gender, age, job title and experience, and educational level to control respondents' demographic information as they were taken from the literature on innovation and CSR. These variables were not only considered critical to impact CSR initiatives toward employees (see, e.g., Hur et al., 2018; Shahzad et al., 2020) but because they are widely set as control variables in previous research (Li and Liao, 2017; van Uden et al., 2017; Yánez Morales et al., 2020).

3.3. Data analysis

The variance-based (PLS-SEM) modeling was used to examine the relationship between EP and CSR strategies (H1, H2, H3, H4) and whether this relationship is mediated by GI (H5), using SmartPLS (version 3.2.8) (Ringle, Christian M., Wende, Sven, & Becker, 2015). This technique has already found widespread applications, as it can treat complex models (Hair et al., 2019). Finally, the mediation technique enables in-depth analysis and the production of new insights and fascinating management implications to develop a sustainable EP successfully.

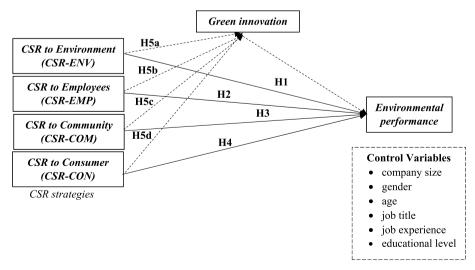
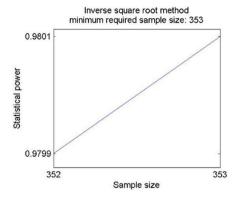


Fig. 1. The research model.



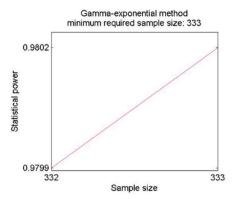


Fig. 2. The sample sizes required.

4. Results

In this section, we begin by describing the demographic statistics, followed by the two-step process of the symmetrical approach analysis, including (1) the measurement and (2) the structural models' analyses based on best practices and recommendations (Hair et al., 2020).

4.1. Demographic statistics

The sample comprises 367 SMEs, wherein 188 are from the Maldives and 179 are from Morocco. Specifically, more than 50% are small, medium-sized enterprises. Moreover, most respondents are males and 50 years and above from both countries. They work in the CEO/MD positions and have moderate experience ranging from 5 to 20 years.

Table 1 Demographic statistics.

		Maldivian SMEs	Moroccan SMEs
N (complete answers)		188	179
Number of	1 - 10 employees	5.37%	9.30%
employees	10 - 50 employees	29.78%	39.60%
cinployees	50 - 250	64.85%	51.10%
	employees	01.0070	31.1070
Job title	CEO/MD	46.10%	52.00%
ood title	Senior supervisor	10.30%	24.70%
	Officer	43.60%	23.30%
Tab annonianasa	0 5	27.75%	26%
Job experiences	0–5 years 5–20 years	28.90%	33.50%
	20–35 years	28.90%	6.30%
	35 years and above	14.45%	34.2%
	33 years and above	14.43%	34.2%
%Educational-level-	Bachelor's Degree	38.17%	20.41%
	Master's Degree	11.5%	20.34%
	Ph.D. Degree	1.12%	4.25%
	Without	49.21%	55%
%Age	20 years–25 years	13.87%	10.12%
	26 years-40 years	26.00%	14.36%
	40 years-50 years	20.25%	37.76%
	50 years and above	39.88%	37.76%
%Gender	Female	31.81%	27.24%
	Male	68.19%	72.76%

Regarding educational level, most did not have any formation degree, with a small proportion of Master's and PhD degrees. Table 1 shows the detailed demographic statistics of the sample.

4.2. Common method bias

This study employed a mono-method research design that may produce artificial validity and reliability of the measurement model (Spector and Brannick, 2010) due to possible common method variance (CMV). Therefore, statistical remediation decreased the study design's CMV effect. We have undertaken a post-hoc analysis of the complete dataset using the Harman single-factor (Maxwell and Harman, 1968). The exploratory factor analysis has found four components with an eigenvalue more significant than one. Moreover, the general factor explained 36% of the variance, below the 50% cut-off (Podsakoff et al., 2012), which implies that the systematic variation was attributed to the constructs rather than the measurement technique. Consequently, we find that nonresponse bias is unexpected to occur as a substantial concern for this study.

4.3. Measurement model analysis

The reflective measurement model is assessed using confirmatory composite analysis through the fourth stage, including (1) estimation of loadings and significance, (2) estimation of Cronbach's alpha (CA) and composite reliability (CR), (3) average variance extracted (AVE) to assess convergent validity, and (4) discriminant validity through Heterotrait-Monotrait Ratio (HTMT). First, all indicators' loadings are above 0.708 thresholds at the 1% level. Second, CA, CR, and AVE values are more than recommended cut-offs of 0.708, 0.708, and 0.5, indicating good reliability and convergent validity concurrently (see Table 2). Finally, all the constructs' HTMT were significantly lower than the critical cut-off of 0.85 threshold level (Henseler et al., 2015), supporting discriminant validity (see Table 3).

4.4. Structural model analysis

The inner model illustrates causal relationships between dependent and independent variables (Leguina, 2015). Fig. 3, Table 4, and Table 5 show the comprehensive findings. First, all VIF statistics vary from 1.541 to 4.264, less than five thresholds (Hair et al., 2017), confirming no multicollinearity. Second, the coefficient of variation and Blindfolding indicators show that all CSR dimensions moderately explain both GI and EP (Hair et al., 2020; Henseler et al., 2009). Moreover, effect size f2 is small regarding the effect of CSREN and CSRCO, and large for the CSREM. In contrast, CSRCS does not affect EP (See Table 5). Thus, we conclude that the in-sample model predictive power is significant. Third, the out-sample model predictive power is generated based on positive Q2-Predict (Q2predictive = 0.606; k-folds = 10 and 10 repetitions),

 Table 2

 Internal consistency reliability*and-convergent-validity-results.

Composite indicators	Loading	Cronbach's alpha	Composite Reliability	AVE
Environmental		0.893	0.934	0.824
performance				
EP_1	0.925			
EP_2	0.908			
EP_3	0.890			
CSR to the environment		0.921	0.950	0.864
(CSR-ENV)				
EN_1	0.927			
EN_2	0.924			
EN_3	0.938			
CSR to employees (CSR-		0.917	0.947	0.857
EMP)				
EM_1	0.919			
EM_2	0.920			
EM_3	0.939			
CSR to the community		0.849	0.909	0.769
(CSR-COM)				
CO_1	0.905			
CO_2	0.868			
CO_3	0.857			
CSR to the consumer		0.908	0.942	0.844
(CSR-CON)				
CS_1	0.919			
CS_2	0.910			
CS_3	0.928			
Green innovation (GI)		0.887	0.930	0.816
GI_1	0.926			
GI_2	0.928			
GI_3	0.854			

AVE, average variance extracted.

Table 3Heterotrait-monotrait ratio (HTMT) results for discriminant validity.

	CSR-CO	CSR-CS	CSR-EMP	CSR-ENV	EP
CSR-CS	0.336				
CSR-EMP	0.284	0.172			
CSR-ENV	0.370	0.616	0.496		
EP	0.419	0.261	0.769	0.678	
GI	0.407	0.372	0.596	0.704	0.733

which signifies the predictive error estimated of our model is medium for most indicators (Shmueli and Koppius, 2011). Lastly, the Standardized Root Mean Square is used to validate the quality of model fit (Shmueli and Koppius, 2011) and is well appropriate (SRMR = 0.052 <

0.08 threshold), which supports the model fit goodness (Henseler et al., 2015).

The hypotheses are subsequently tested for significance using the 5000-bootstrapping approach at a significance level of 0.01. Referring to Table 5, the results shown that the EP is positively and significantly predicted by CSR to the environmental ($\beta=0.413$), employees ($\beta=0.477$), community ($\beta=0.141$), supporting H1, H2, and H3 fully. However, the causal impact of CSR to the consumer on EP is insignificant ($\beta=-0.033$), rejecting H4 (See Fig. 3).

4.5. Mediation analysis

In this study, the considerable effect of CSR approaches on GI and GI on EP sheds light on a mediating effect. Consequently, this study employs the non-parametric bootstrapping method (Hair et al., 2017; Preacher and Hayes, 2008) at significant levels of 1%, as well as variance account for (VAF) to calculate the magnitude of the mediating impact (Hair et al., 2014), respectively (see Table 6 and Fig. 3). The findings demonstrated an indirect effect of CSR approaches on EP via GI, specifically for CSR-ENV ($\beta=0.115,\,p<0.01),$ supporting H5a. Surprisingly, the findings revealed no evidence of GI mediation on the link between CSR-EMP, CSR-COM, CSR-CON, and EP (See Table 6). Thus, H5b, H5c, and H5d were rejected. It is noteworthy that modeling

Table 4R square and Q Square Blindfolding Results.

	\mathbb{R}^2	Q^2
EP	0.660	0.528
GI	0.501	0.403

EP, Environmental performance; GI, Green innovation.

Table 5Structural model results.

Path	Path coefficient	t-value	CIs	f^2	Verdict
H1. CSR-ENV - > EP	0.413***	8.600	[0.246, 0.558]	0.107	Supported
H2. CSR-EMP - > EP	0.477***	10.705	[0.323, 0.612]	0.314	Supported
H3. CSR-COM -> EP	0.141***	3.710	[0.024, 0.261]	0.029	Supported
H4. CSR-CON - > EP	-0.030ns	0.655	[-0.177, 0.138]	0.001	Rejected

ns, not significant; CIs, confidence intervals; ***p < 0.01.

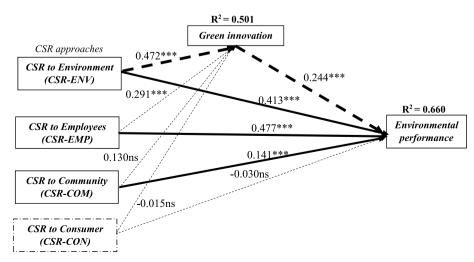


Fig. 3. The structural model test results with Maldivian and Moroccan service SMEs.

Table 6 Mediation analysis results.

Path	Direct impact (t-value)	Indirect impact (t-value)	Total impact	VAF (%)	Verdict	Full Model
H5a. CSR-ENV - > GI- > EP H5b. CSR-EMP - > GI- > EP H5c. CSR-COM - > GI- > EP H5d. CSR-CON - > GI- > EP	0.413***(8.600) 0.477***(10.705) 0.141***(3.710) -0.030ns (0.655)	0.115***(4.224) 0.071*** (3.501) 0.032ns (2.358) -0.004ns (0.317)	0.528 0.548 No mediation No mediation	21.78% 12.95%	Partial Mediation No mediation	Supported Rejected Rejected Rejected

ns, not significant; VAF, Variance account for; ***p < 0.01.

confirms the use of stakeholder and natural-resources-based view theories to explain EP through CSR strategies and GI.

5. Discussion and Implications

The current study expands knowledge by underlining how CSR approaches improve EP via GI practices, especially in developing countries. Despite its relevance, there remains a paucity of evidence on CSR and EP. Consequently, this research significantly contributes to CSR literature. As far as we are aware, it is the only paper to investigate the CSR-EP nexus of Maldivian and Moroccan service SMEs. Moreover, it is the first paper to examine whether GI explains the CSR-EP relationship in developing countries. Overall, the results showed a positive link between CSR practices and EP through GI.

Except for CSR to the consumers (H4), the findings showed that CSR initiatives positively impacted EP (H1, H2, and H3), particularly in developing nations. These results are consistent with prior studies supporting the CSR relevance to firm performance (Bahta et al., 2021; Martinez-Conesa et al., 2017; Surroca et al., 2010). In addition, these findings align with (Al-Abdin et al., 2018; Herrera Madueño et al., 2016), who confirm that enterprises involved in CSR exhibit significant EP. These findings should be considered when endeavoring to reconcile contradictory evidence suggesting no causal effect of CSR approaches on EP (Kraus et al., 2020; Singh et al., 2019; L. Wang and Juslin, 2013).

Likewise, this research concurs with previous studies in several ways. More specifically, employees are more devoted to their work when their employer is interested in environmental responsibilities (Chakra, r., hathout, s. And charef, 2021; Farid et al., 2019), leading firms to become more sustainable (Suganthi, 2019; Waheed and Zhang, 2022). Similarly, CSR to the community could improve corporate performance and image by engaging more in charitable activities (Kapelus, 2002; Zheng et al., 2017). Nevertheless, the causal impact of CSR to the consumer on EP is marginal, which contradicts previous assumptions arguing that CSR practices related to customers lead to better firm performance (Servaes and Tamayo, 2013; Zou et al., 2021). In summary, these findings align with prior clues that demonstrate the CSR relevance in improving firm performance (Kortetmäki et al., 2022; Tao et al., 2022; Waheed and Zhang, 2022), enabling it to improve its reputation (Ibenrissoul et al., 2021; Sánchez-Infante Hernández et al., 2020).

Finally, the current research explores the causal effect of CSR approaches on EP through the underlying mechanism of GI. As expected, the findings demonstrated the magnitude of the mediating impact of CSR approaches on EP, specifically for CSR to Environment. More clearly, when enterprises are more engaged in CSR approaches related to the environment, they invest more in technological solutions aiming to protect the natural environment, such as reducing energy usage, consumption of dangerous materials, and air emissions, which in turn improve EP (Albort-Morant et al., 2016; Huang and Li, 2018; Kraus et al., 2020). However, the research revealed no evidence of GI mediation effect on the link between external (Consumer and Community) and internal (Employees) CSR-related approaches and environmental performance. This evidence also would be explained by the fact that GI practices are conceptualized differently to CSR activities related to consumers, employees, and the community (Chen, 2008), which does not improve EP. To sum up, it is noteworthy that modeling confirms the combination of stakeholder and natural-resources-based view theories

to explain EP through CSR and GI practices.

5.1. Theoretical implications

This paper provides theoretical implications. Several theoretical lenses have been used in CSR, GI, and EP literature. For example, few studies explored EP through CSR strategies (Kraus et al., 2020), using natural RBV theory. Moreover, stakeholder theory links CSR to economic performance (Yáñez-Araque et al., 2021). To our knowledge, prior research has failed to consider stakeholder and natural-resources-based view theories to explain EP through CSR strategies and GI. In sum, it is noteworthy that modeling confirms the combination of these theories to explain EP through CSR strategies and GI.

5.2. Managerial implications

The findings have managerial implications for SME professionals, particularly those engaged in environmental strategies, to improve EP through CSR strategies, particularly in developing countries. The analysis suggests that all CSR strategies favorably influence EP, except for CSR to the consumer. In this regard, managers should be proactive in learning and developing CSR practices that create business opportunities with stakeholders, improving EP. For instance, managers may align and balance CSR strategies to reduce pollution and toxic waste, which improve the environment quality and promote society's wellbeing. However, regarding long-term performance, SME managers must have formal knowledge and integrate it into their strategies related to specific stakeholders such as employees and consumers. On the one hand, the technology-driven organization could protect their employees beyond legal requirements, such as installing sensor fountains or picking up trash, thus allowing them to be more innovative, improve their wellbeing in work-life, and, strengthen their environmental sustainability goals. On the other hand, SMEs must cultivate a good strategy with consumers by contributing to their satisfaction and well-being and providing necessary information about processes and products, increasing their willingness to consume green or environmentally friendly products.

The research addressed the EP through CSR strategies by shedding light on the underlying mechanism of GI. The findings demonstrated the mediating effect of CSR approaches on EP, specifically for CSR to Environment. In this regard, SMEs need to be aware of their critical role in promoting their environment. Moreover, owner-managers should be more attentive to the environment to achieve better EP results. Therefore, they could encourage environmental management technologies projects in waste recycling, energy conservation, and pollution prevention (Albort-Morant et al., 2016; Li et al., 2020). Because the results highlight the relevance of specific stakeholders to the EP, owner-managers should adopt win-win CSR strategies based on their own experience and beliefs to achieve better economic and non-economic outcomes.

6. Conclusion

This study addresses the environmental performance foundations drawn on stakeholder and natural-resources-based view theories. We examined the different CSR approaches' impact on EP. We also examined whether GI mediates the CSR strategies-EP relationship in developing countries. Using a sample of Moroccan and Maldivian small and medium service enterprises, we find that external (Environment and Community) and internal (Employees) CSR-related approaches significantly improve EP. We also find that GI partially mediates the external (Environment) CSR-related approaches-EP nexus. Our analysis shows no relation between CSR to the consumer and EP.

This research, like the previous ones, has certain limitations. First, the authors examined CSR strategies-EP nexus by limiting it to service SMEs in Morocco and the Maldives. Future research can replicate this study to observe whether the country's moderating effects change or remain similar between developed countries. In addition, while CSR is multidimensional, future studies can adopt another CSR dimension to examine the CSR strategies-EP nexus more deeply. In addition, collection data could be done based on large companies to verify whether firm size could explain EP through CSR practices, especially in emerging markets. Finally, we invite researchers to adopt a comparative perspective to understand and deeply explain the critical CSR activities that positively improve EP in various industrial sectors and geographical locations.

CRediT authorship contribution statement

Walid Simmou: Conceptualization, Methodology, Formal analysis, Writing – original draft. Kannan Govindan: Conceptualization, Methodology, Supervision, Writing – original draft, Writing – review & editing. Ibrahim Sameer: Methodology, Formal analysis, Supervision, Writing – original draft. Khaled Hussainey: Visualization, Writing – review & editing. Samira Simmou: Visualization, Writing – review & editing.

Declaration of competing interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

Data availability

The data is included in the paper

Appendix A. Major questionnaire items

Variables	Items	Sources
Environmental performance	EP is measured to what extent do you agree or disagree with the following statements on a 5-point Likert-scale	Laosirihongthong et al.
	(5-Strongly Agree, 1-Strongly Disagree)	(2013)
	EN_1. Reduction in air emission	
	EN_2. Reduction in energy consumption	
	EN_3. Reduction in consumption of hazardous materials	
Corporate social responsibility	CSR is measured to what extent do you agree or disagree with the following statements on a 5-point Likert-scale	(Farooq et al., 2014; Turker,
approaches	(5-Strongly Agree, 1-Strongly Disagree)	2009)
	CSR to environment	
	EN_1. My company participates in the activities which aim to protect and improve the quality of the natural	
	EN_2. My company makes investments to create a better life for the future generations	
	EN_3. My company implements special programs to minimize its negative impact on the natural environment	
	EN_4. My company targets a sustainable growth which considers the future generations	
	CSR to employees	
	EM_1. My company encourages its employees to participate in voluntary activities	
	EM_2. My company policies encourage the employees to develop their skills and careers	
	EM_3. The management of my company primarily concerns with employees' needs and wants	
	CSR to community	
	CO_1. My company gives adequate contributions to charities	
	CO_2. My company supports the non-governmental organizations working in the problematic areas	
	CO_3. My company contributes to the campaigns and projects that promote the well-being of the society	
	CSR to consumers	
	CS_1. My company protects consumer rights beyond the legal requirements	
	CS_2. My company provides full and accurate information about its products to its customers	
	CS_3. Customer satisfaction is highly important for my company	
Green innovation	GI is measured to what extent do you agree or disagree with the following statements on a 5-point Likert-scale	Song & Yu (2018)
	(5–Strongly Agree, 1–Strongly Disagree)	
	GI_1. The company chooses the materials of the product that produce the least amount of pollution for conducting the	
	product development or design	
	GI_2. The company uses the fewest amount of materials to comprise the product for conducting the product	
	development or design	
	GI_3. The company would circumspectly deliberate whether the product is easy to recycle, reuse, and decompose for	
	conducting the product development or design	

References

- Abbas, J., Sağsan, M., 2019. Impact of knowledge management practices on green innovation and corporate sustainable development: a structural analysis. J. Clean. Prod. 229, 611–620. https://doi.org/10.1016/j.jclepro.2019.05.024.
- Abrahamson, E., 1997. The emergence and prevalence of employee management rhetorics: the effects of long waves, labor unions, and turnover, 1875 to 1992. Acad. Manag. J. 40 (3), 491–533. https://doi.org/10.2307/257051.
- Achabou, M.A., 2020. The effect of perceived CSR effort on consumer brand preference in the clothing and footwear sector. Eur. Bus. Rev. 32 (2), 317–347. https://doi.org/ 10.1108/EBR-11-2018-0198.
- Afridi, S.A., Afsar, B., Shahjehan, A., Rehman, Z.U., Haider, M., Ullah, M., 2020. Perceived corporate social responsibility and innovative work behavior: the role of employee volunteerism and authenticity. Corp. Soc. Responsib. Environ. Manag. 27 (4), 1865–1877. https://doi.org/10.1002/csr.1932.
- Ahmad, N., Ullah, Z., Arshad, M.Z., Kamran, waqas, H., Scholz, M., Han, H., 2021. Relationship between corporate social responsibility at the micro-level and environmental performance: the mediating role of employee pro-environmental behavior and the moderating role of gender. Sustain. Prod. Consum. 27, 1138–1148. https://doi.org/10.1016/j.spc.2021.02.034.
- Ahmed, M., Zehou, S., Raza, S.A., Qureshi, M.A., Yousufi, S.Q., 2020. Impact of CSR and environmental triggers on employee green behavior: the mediating effect of

- employee well-being. Corp. Soc. Responsib. Environ. Manag. 27 (5), 2225–2239. https://doi.org/10.1002/csr.1960
- Akbari, M., Nazarian, A., Foroudi, P., Seyyed Amiri, N., Ezatabadipoor, E., 2021. How corporate social responsibility contributes to strengthening brand loyalty, hotel positioning and intention to revisit? Curr. Issues Tourism 24 (13), 1897–1917. https://doi.org/10.1080/13683500.2020.1800601.
- Al-Abdin, A., Roy, T., Nicholson, J.D., 2018. Researching corporate social responsibility in the Middle East: the current state and future directions. Corp. Soc. Responsib. Environ. Manag. 25 (1), 47–65. https://doi.org/10.1002/csr.1439.
- Al-Tuwaijri, S.A., Christensen, T.E., Hughes, K.E., 2004. The relations among environmental disclosure, environmental performance, and economic performance: a simultaneous equations approach. Account. Org. Soc. 29 (5–6), 447–471. https:// doi.org/10.1016/S0361-3682(03)00032-1.
- Alamsyah, D.P., Othman, N.A., Mohammed, H.A.A., 2020. The awareness of environmentally friendly products: the impact of green advertising and green brand image. Manag. Sci. Lett. 10 (9), 1961–1968. https://doi.org/10.5267/j. msl.2020.2.017.
- Albert, M.J., 2020. The dangers of decoupling: earth system crisis and the 'fourth industrial revolution. Global Pol. 11 (2), 245–254. https://doi.org/10.1111/1758-5899.12791
- Albort-Morant, G., Leal-Millán, A., Cepeda-Carrión, G., 2016. The antecedents of green innovation performance: a model of learning and capabilities. J. Bus. Res. 69 (11), 4912–4917. https://doi.org/10.1016/j.jbusres.2016.04.052.
- Alt, E., Díez-de-Castro, E.P., Lloréns-Montes, F.J., 2015. Linking employee stakeholders to environmental performance: the role of proactive environmental strategies and shared vision. J. Bus. Ethics 128 (1), 167–181. https://doi.org/10.1007/s10551-014-2095-x.
- Ansu-Mensah, P., Marfo, E.O., Awuah, L.S., Amoako, K.O., 2021. Corporate social responsibility and stakeholder engagement in Ghana's mining sector: a case study of Newmont Ahafo mines. Int. J. Corp. Soc. Respons. 6 (1), 1–22. https://doi.org/10.1186/s40991.020.00054-2
- Arnold, C., 2018. The Foundation for Economies Worldwide Is Small Business. IFAC. https://www.ifac.org/knowledge-gateway/contributing-global-economy/discussion/foundation-economies-worldwide-small-business.
- Baah, C., Amponsah, K.T., Issau, K., Ofori, D., Acquah, I.S.K., Agyeman, D.O., 2021. Examining the interconnections between sustainable logistics practices, environmental reputation and financial performance: a mediation approach. Vision 25 (1), 47–64. https://doi.org/10.1177/097226292098805.
- Bahta, D., Yun, J., Islam, M.R., Bikanyi, K.J., 2021. How does CSR enhance the financial performance of SMEs? The mediating role of firm reputation. Econ. Res.-Ekonomska Istrazivanja 34 (1), 1428–1451. https://doi.org/10.1080/1331677X.2020.1828130.
- Barney, J., 1991. Firm resources and sustained competitive advantage. J. Manag. 17 (1), 99–120. https://doi.org/10.1177/014920639101700108.
- Bhattacharya, C.B., Sen, S., 2004. Doing better at doing good: when, why, and how consumers respond to corporate social initiatives. Calif. Manag. Rev. 47 (1) https://doi.org/10.2307/41166284.
- Bose, S., Podder, J., Biswas, K., 2017. Philanthropic giving, market-based performance and institutional ownership: evidence from an emerging economy. Br. Account. Rev. 49 (4), 429–444. https://doi.org/10.1016/j.bar.2016.11.001.
- Boutti, R., 2009. L'entreprise marocaine face à des responsabilités sociale et sociétales. Université Ibn Zohr, Agadir. Unpublished manuscripts%2C Université Ibn Zohr%2C Agadir.&lookup=0&hl=en. https://scholar.google.com/scholar?
 oi=gsb95&q=Boutti%2C R.%2C 2009. L'entreprise marocaine face à des responsabilités sociale et sociétales.
- Brammer, S., Millington, A., 2008. Does it pay to be different? An analysis of the relationship between corporate social and financial performance. Strat. Manag. J. 29 (12), 1325–1343. https://doi.org/10.1002/smj.714.
- Brown, K., 2021. Tied for Warmest Year on Record, NASA Analysis Shows, p. 2020. NASA. https://www.nasa.gov/press-release/2020-tied-for-warmest-year-on-record-nasa-analysis-shows.
- Brown, T.J., Dacin, P.A., 1997. The company and the product: corporate associations and consumer product responses. J. Market. 61 (1), 68–84. https://doi.org/10.2307/1252190
- Bruna, M.G., Lahouel, B. Ben, 2022. CSR & financial performance: facing methodological and modeling issues commentary paper to the eponymous FRL article collection. Finance Res. Lett. 44, 102036 https://doi.org/10.1016/j.frl.2021.102036.
- Carroll, A.B., Shabana, K.M., 2010. The business case for corporate social responsibility: a review of concepts, research and practice. In: International Journal of Management Reviews, vol. 12. John Wiley & Sons, Ltd, pp. 85–105. https://doi.org/10.1111/j.1468-2370.2009.00275.x. Issue 1.
- Chakra, r., hathout, s., charef, F., 2021. The impact of Corporate Social Responsibility on employee's engagement: exploratory study of IT companies in Morocco. Int. J. Manag. Sci. 3 (2), 1215–1236. https://revue-isg.com/index.php/home/article/vie w/631
- Chang, C.H., 2011. The influence of corporate environmental ethics on competitive advantage: the mediation role of green innovation. J. Bus. Ethics 104 (3), 361–370. https://doi.org/10.1007/s10551-011-0914-x.
- Channa, N.A., Hussain, T., Casali, G.L., Dakhan, S.A., Aisha, R., 2021. Promoting environmental performance through corporate social responsibility in controversial industry sectors. Environ. Sci. Pollut. Control Ser. 28 (18), 23273–23286. https:// doi.org/10.1007/s11356-020-12326-2.
- Chatterji, A.K., Levine, D.I., Toffel, M.W., 2009. How well do social ratings actually measure corporate social responsibility? J. Econ. Manag. Strat. 18 (1), 125–169. https://doi.org/10.1111/j.1530-9134.2009.00210.x.

- Chen, Y.S., 2008. The driver of green innovation and green image green core competence. J. Bus. Ethics 81 (3), 531–543. https://doi.org/10.1007/s10551-007-05232.
- Chen, Y.S., Lai, S.B., Wen, C.T., 2006. The influence of green innovation performance on corporate advantage in Taiwan. J. Bus. Ethics 67 (4), 331–339. https://doi.org/ 10.1007/s10551-006-9025-5.
- Chiou, T.Y., Chan, H.K., Lettice, F., Chung, S.H., 2011. The influence of greening the suppliers and green innovation on environmental performance and competitive advantage in Taiwan. Transport. Res. E Logist. Transport. Rev. 47 (6), 822–836. https://doi.org/10.1016/j.tre.2011.05.016.
- Communications, C.O.N.E., 2017. 2017 Cone Communications CSR Study Cone Communications | Cone. Cone PR | Cone Inc | PR Agency. Boston | NYC. CONE. https://www.conecomm.com/research-blog/2017-csr-study#download-the-research.
- Dahlsrud, A., 2008. How corporate social responsibility is defined: an analysis of 37 definitions. Corp. Soc. Responsib. Environ. Manag. 15 (1), 1–13. https://doi.org/ 10.1002/csr.132.
- De Medeiros, J.F., Ribeiro, J.L.D., Cortimiglia, M.N., 2014. Success factors for environmentally sustainable product innovation: a systematic literature review. J. Clean. Prod. 65, 76–86. https://doi.org/10.1016/J.JCLEPRO.2013.08.035.
- Deng, X., Huang, B., Zheng, Q., Ren, X., 2022. Can environmental governance and corporate performance be balanced in the context of carbon neutrality? — a quasinatural experiment of central environmental inspections. Front. Energy Res. 10, 82. https://doi.org/10.3389/fenrg.2022.852286.
- Deswanto, R.B., Siregar, S.V., 2018. The associations between environmental disclosures with financial performance, environmental performance, and firm value. Soc. Responsib. J. 14 (1), 180–193. https://doi.org/10.1108/SRJ-01-2017-0005.
- Dmytriyev, S.D., Freeman, R.E., Hörisch, J., 2021. The relationship between stakeholder theory and corporate social responsibility: differences, similarities, and implications for social issues in management. J. Manag. Stud. 58 (6), 1441–1470. https://doi.org/ 10.1111/joms.12684.
- Dupire, M., M'Zali, B., 2018. CSR strategies in response to competitive pressures. J. Bus. Ethics 148 (3), 603–623. https://doi.org/10.1007/s10551-015-2981-x.
- Elbaz, J., Laguir, I., 2014. Family businesses and corporate social responsibility (CSR) orientation: a study of Moroccan family firms. J. Appl. Bus. Res. 30 (3), 671. https://doi.org/10.19030/jabr.v30i3.8552.
- Elomari, S., Amine, M.E.A., 2021. The corporate social responsibility in the tourism sector in Morocco. In: Economic and Social Development: Economic and Social Development. Book of Proceedings, pp. 176–183. https://doi.org/10.24312/ 193014030, 176-183.
- Ernst, R., Haar, J., 2022. Shareholders vs. Stakeholders. From Me to We, pp. 41–59. https://doi.org/10.1007/978-3-030-87424-7 3.
- EU, 2003. COMMISSION RECOMMENDATION of 6 May 2003 concerning the definition of micro, small and medium-sized enterprises (notified under document number C (2003) 1422). Off. J. Eur. Union 124 (36), 1–9. https://op.europa.eu/en/publica tion-detail/-/publication/6ca8d655-126b-4a42-ada4-e9058fa45155/language-en.
- Fan, E., Li, L., Wang, Z., Lin, J., Huang, Y., Yao, Y., Chen, R., Wu, F., 2020. Sustainable recycling technology for Li-ion batteries and beyond: challenges and future prospects. In: Chemical Reviews, vol. 120. American Chemical Society, pp. 7020–7063. https://doi.org/10.1021/acs.chemrev.9b00535, 14.
- Fandos-Roig, J.C., Sánchez-García, J., Tena-Monferrer, S., Callarisa-Fiol, L.J., 2021. Does CSR help to retain customers in a service company? Sustainability 13 (1), 1–21. https://doi.org/10.3390/su13010300.
- Farid, T., Iqbal, S., Ma, J., Castro-González, S., Khattak, A., Khan, M.K., 2019.
 Employees' perceptions of CSR, work engagement, and organizational citizenship behavior: the mediating effects of organizational justice. Int. J. Environ. Res. Publ. Health 16 (10), 1731. https://doi.org/10.3390/jjerph16101731.
 Farooq, M., Farooq, O., Jasimuddin, S.M., 2014. Employees response to corporate social
- Farooq, M., Farooq, O., Jasimuddin, S.M., 2014. Employees response to corporate social responsibility: exploring the role of employees" collectivist orientation. Eur. Manag. J. 32 (6), 916–927. https://doi.org/10.1016/j.emj.2014.03.002.
- Fernández-Gago, R., Cabeza-García, L., Godos-Díez, J.L., 2020. How significant is corporate social responsibility to business research? Corp. Soc. Responsib. Environ. Manag. 27 (4), 1809–1817. https://doi.org/10.1002/csr.1927.
- Freeman, R.E., David, L.R., 1983. Stockholders and stakeholders: a new perspective on corporate governance. Calif. Manag. Rev. 25 (3), 88–106. https://doi.org/10.2307/ 41165018.
- Freeman, R.E., Dmytriyev, S.D., Phillips, R.A., 2021. Stakeholder theory and the resource-based view of the firm. J. Manag. 47 (7), 1757–1770. https://doi.org/10.1177/0149206321993576.
- Garay, L., Font, X., 2012. Doing good to do well? Corporate social responsibility reasons, practices and impacts in small and medium accommodation enterprises. Int. J. Hospit. Manag. 31 (2), 329–337. https://doi.org/10.1016/j.ijhm.2011.04.013.
- Gautier, A., Pache, A.C., 2015. Research on corporate philanthropy: a review and assessment. J. Bus. Ethics 126 (3), 343–369. https://doi.org/10.1007/s10551-013-1969-7.
- Govindan, K., 2022. Theory Building Through Corporate Social Responsibility 4.0 for Achieving SDGs: A Practical Step Toward Integration of Digitalization With Practice-Based View and Social Good Theory. IEEE Transactions on Engineering Management.
- Govindarajulu, N., Daily, B.F., 2004. Motivating employees for environmental improvement. Ind. Manag. Data Syst. 104 (3), 364–372. https://doi.org/10.1108/ 02635570410530775.
- Grassmann, M., 2021. The relationship between corporate social responsibility expenditures and firm value: the moderating role of integrated reporting. J. Clean. Prod. 285 https://doi.org/10.1016/j.jclepro.2020.124840.

- Hair, J.F., Howard, M.C., Nitzl, C., 2020. Assessing measurement model quality in PLS-SEM using confirmatory composite analysis. J. Bus. Res. 109 (November 2019), 101–110. https://doi.org/10.1016/j.jbusres.2019.11.069.
- Hair, J.F., Risher, J.J., Sarstedt, M., Ringle, C.M., 2019. When to use and how to report the results of PLS-SEM. Eur. Bus. Rev. 31 (1), 2–24. https://doi.org/10.1108/EBR-11-2018-0203.
- Hair, J.F., Sarstedt, M., Hopkins, L., Kuppelwieser, V.G., 2014. Partial least squares structural equation modeling (PLS-SEM): an emerging tool in business research. In: European Business Review, vol. 26. Emerald Group Publishing Ltd, pp. 106–121. https://doi.org/10.1108/EBR-10-2013-0128. Issue 2.
- Hair Jr., J., Hult, G.T., Ringle, C., Sarstedt, M., 2017. A primer on partial least squares structural equation modeling (PLS-SEM) - joseph F. Hair, Jr., G. Tomas M. Hult, christian ringle. Marko Sarstedt. In Sage.
- Hart, S.L., 1995. A natural-resource-based view of the firm. Acad. Manag. Rev. 20 (4), 986–1014. https://doi.org/10.5465/amr.1995.9512280033.
- Heli, W., Jaepil, C., Jiatao, L., 2008. Too little or too much? Untangling the relationship between corporate philanthropy and firm financial performance. Organ. Sci. 19 (1), 143–159. https://doi.org/10.1287/orsc.1070.0271.
- Henseler, J., Ringle, C.M., Sarstedt, M., 2015. A new criterion for assessing discriminant validity in variance-based structural equation modeling. J. Acad. Market. Sci. 43 (1), 115–135. https://doi.org/10.1007/s11747-014-0403-8.
- Henseler, J., Ringle, C.M., Sinkovics, R.R., 2009. The use of partial least squares path modeling in international marketing. Adv. Int. Market. 20, 277–319. https://doi.org/10.1108/S1474-7979(2009)000020014.
- Herrera Madueño, J., Larrán Jorge, M., Martínez Conesa, I., Martínez-Martínez, D., 2016. Relationship between corporate social responsibility and competitive performance in Spanish SMEs: empirical evidence from a stakeholders' perspective. BRQ Bus. Res. Q. 19 (1), 55–72. https://doi.org/10.1016/j.brq.2015.06.002.
- Huang, J.W., Li, Y.H., 2018. How resource alignment moderates the relationship between environmental innovation strategy and green innovation performance. J. Bus. Ind. Market. 33 (3), 316–324. https://doi.org/10.1108/JBIM-10-2016-0253.
- Hui, I., Smith, G., 2022. Private citizens, stakeholder groups, or governments? Perceived legitimacy and participation in water collaborative governance. Pol. Stud. J. 50 (1), 241–265. https://doi.org/10.1111/psj.12453.
- Hur, W.M., Moon, T.W., Ko, S.H., 2018. How employees' perceptions of CSR increase employee creativity: mediating mechanisms of compassion at work and intrinsic motivation. J. Bus. Ethics 153 (3), 629–644. https://doi.org/10.1007/s10551-016-3321-5
- Ibenrissoul, A., Bouraqqadi, K., Kammoun, S., 2021. The impact of adopting CSR on the firm's overall performance. In: igi-global.com, pp. 239–255. https://doi.org/ 10.4018/978-1-7998-6788-3.ch012.
- Islam, T., Ali, G., Asad, H., 2019. Environmental CSR and pro-environmental behaviors to reduce environmental dilapidation: the moderating role of empathy. Manag. Res. Rev. 42 (3), 332–351. https://doi.org/10.1108/MRR-12-2017-0408.
- Jamali, D., Lund-Thomsen, P., Jeppesen, S., 2017. SMEs and CSR in developing countries. Bus. Soc. 56 (1), 11–22. https://doi.org/10.1177/0007650315571258.
- Kannan, D, Shankar, K.M., Gholipour, P., 2022a. Paving the way for a green transition through mitigation of green manufacturing challenges: A systematic literature review. Journal of Cleaner Production 132578.
- Kannan, D., Solanki, R., Kaul, A., Jha, P.C., 2022. Barrier analysis for carbon regulatory environmental policies implementation in manufacturing supply chains to achieve zero carbon. Journal of Cleaner Production 358, 131910.
- Kapelus, P., 2002. Mining, corporate social responsibility and the "community": the case of rio tinto, richards bay minerals and the mbonambi. J. Bus. Ethics 39 (3), 275–296. https://doi.org/10.1023/A:1016570929359.
- Kassinis, G., Vafeas, N., 2006. Stakeholder pressures and environmental performance.
 Acad. Manag. J. 49 (1), 145–159. https://doi.org/10.5465/AMJ.2006.20785799.
 Kim, H. (Lina, Woo, E., Uysal, M., Kwon, N., 2018. The effects of corporate social
- Kim, H. (Lina, Woo, E., Uysal, M., Kwon, N., 2018. The effects of corporate social responsibility (CSR) on employee well-being in the hospitality industry. Int. J. Contemp. Hospit. Manag. 30 (3), 1584–1600. https://doi.org/10.1108/IJCHM-03-2016-0166.
- Klewitz, J., Hansen, E.G., 2014. Sustainability-oriented innovation of SMEs: a systematic review. J. Clean. Prod. 65, 57–75. https://doi.org/10.1016/j.jclepro.2013.07.017.
- Kock, N., Hadaya, P., 2018. Minimum sample size estimation in PLS-SEM: the inverse square root and gamma-exponential methods. Inf. Syst. J. 28 (1), 227–261. https:// doi.org/10.1111/isj.12131.
- Kortetmäki, T., Heikkinen, A., Jokinen, A., 2022. Particularizing nonhuman nature in stakeholder theory: the recognition approach. J. Bus. Ethics 1–15. https://doi.org/ 10.1007/S10551-022-05174-2/TABLES/2.
- Kraus, S., Rehman, S.U., García, F.J.S., 2020. Corporate social responsibility and environmental performance: the mediating role of environmental strategy and green innovation. Technol. Forecast. Soc. Change 160. https://doi.org/10.1016/j. techfore.2020.120262.
- Laosirihongthong, T., Adebanjo, D., Choon Tan, K., 2013. Green supply chain management practices and performance. Ind. Manag. Data Syst. 113 (8), 1088–1109. https://doi.org/10.1108/IMDS-04-2013-0164.
- Lee, E.M., Yoon, S.J., 2018. The effect of customer citizenship in corporate social responsibility (CSR) activities on purchase intention: the important role of the CSR image. Soc. Responsib. J. 14 (4), 753–763. https://doi.org/10.1108/SRJ-04-2017-0074.
- Leguina, A., 2015. A primer on partial least squares structural equation modeling (PLS-SEM). Int. J. Res. Method Educ. 38 (2), 220–221. https://doi.org/10.1080/1743727x.2015.1005806.
- Li, S., Liao, S., 2017. Help others and yourself eventually: exploring the relationship between help-giving and employee creativity under the model of perspective taking. Front. Psychol. 8 (JUN), 1030. https://doi.org/10.3389/fpsyg.2017.01030.

- Li, Z., Deng, X., Peng, L., 2020. Uncovering trajectories and impact factors of CO2 emissions: a sectoral and spatially disaggregated revisit in Beijing. Technol. Forecast. Soc. Change 158, 120124. https://doi.org/10.1016/j.techfore.2020.120124.
- M'Hamdi, M., Trid, S., 2009. La responsabilité sociale de l'entreprise au Maroc: une étude empirique auprès des petites et moyennes entreprises de la région de Fès Boulemane. In: Colloque: La Vulnérabilité Des TPE et Des PME Dans Un Environnement Mondialisé, INRPME, AUF. AIREPME, pp. 27–29.
- Maignan, I., 2001. Consumers' perceptions of corporate social responsibilities: a cross-cultural comparison. J. Bus. Ethics 30 (1), 57–72. https://doi.org/10.1023/A: 1006433928640.
- Martinez-Conesa, I., Soto-Acosta, P., Palacios-Manzano, M., 2017. Corporate social responsibility and its effect on innovation and firm performance: an empirical research in SMEs. J. Clean. Prod. 142, 2374–2383. https://doi.org/10.1016/j. iclepro.2016.11.038.
- Maxwell, A.E., Harman, H.H., 1968. Modern factor analysis. J. Roy. Stat. Soc. 131 (4), 615. https://doi.org/10.2307/2343736.
- McGahan, A.M., 2021. Integrating insights from the resource-based view of the firm into the new stakeholder theory. J. Manag. 47 (7), 1734–1756. https://doi.org/10.1177/0149206320987282.
- Mendes, A.C., Ferreira, F.A., Kannan, D., Ferreira, N.C., Correia, R.J., 2022. A BWM approach to determinants of sustainable entrepreneurship in small and medium-sized enterprises. Journal of Cleaner Production 371, 133300.
- Menguc, B., Ozanne, L.K., 2005. Challenges of the "green imperative": a natural resource-based approach to the environmental orientation-business performance relationship. J. Bus. Res. 58 (4), 430–438. https://doi.org/10.1016/j. ibusres 2003.09.002
- Moosa, A., He, F., Arrive, T.J., 2021. Impact of corporate social responsibility on corporate financial performance: evidence from the Maldives stock exchange. Hum. Syst. Manag. 40 (1), 127–139. https://doi.org/10.3233/HSM-200899.
- Murcia, M.J., 2020. Progressive and rational CSR as catalysts of new product introductions. J. Bus. Ethics 1–15. https://doi.org/10.1007/s10551-020-04625-y.
- Paillé, P., Chen, Y., Boiral, O., Jin, J., 2014. The impact of human resource management on environmental performance: an employee-level study. J. Bus. Ethics 121 (3), 451–466. https://doi.org/10.1007/s10551-013-1732-0.
- Perrini, F., Russo, A., Tencati, A., 2007. CSR strategies of SMEs and large firms. Evidence from Italy. J. Bus. Ethics 74 (3), 285–300. https://doi.org/10.1007/s10551-006-0235.x
- Podsakoff, P.M., MacKenzie, S.B., Podsakoff, N.P., 2012. Sources of method bias in social science research and recommendations on how to control it. Annu. Rev. Psychol. 63, 539–569. https://doi.org/10.1146/annurev-psych-120710-100452. Annual Reviews.
- Preacher, K.J., Hayes, A.F., 2008. Asymptotic and resampling strategies for assessing and comparing indirect effects in multiple mediator models. Behav. Res. Methods 40 (3), 879–891. https://doi.org/10.3758/BRM.40.3.879.
- Renwick, D.W.S., Redman, T., Maguire, S., 2013. Green human resource management: a review and research agenda. Int. J. Manag. Rev. 15 (1), 1–14. https://doi.org/ 10.1111/i.1468-2370.2011.00328.x.
- Ringle, Christian M., Wende, Sven, Becker, J.-M., 2015. SmartPLS 3. Bönningstedt: SmartPLS. http://www.smartpls.com.
 Robertson, J.L., Barling, J., 2013. Greening organizations through leaders' influence on
- Robertson, J.L., Barling, J., 2013. Greening organizations through leaders' influence on employees' pro-environmental behaviors. J. Organ. Behav. 34 (2), 176–194. https:// doi.org/10.1002/iob.1820.
- Rothenberg, S., Pil, F.K., Maxwell, J., 2001. Lean, green, and the quest for superior environmental performance. Prod. Oper. Manag. 10 (3), 228–243. https://doi.org/ 10.1111/j.1937-5956.2001.tb00372.x.
- Runhaar, H., Lafferty, H., 2009. Governing corporate social responsibility: an assessment of the contribution of the un global compact to CSR strategies in the telecommunications industry. J. Bus. Ethics 84 (4), 479–495. https://doi.org/10.1007/s10551-008-9720-5.
- Saeidi, S.P., Sofian, S., Saeidi, P., Saeidi, S.P., Saaeidi, S.A., 2015. How does corporate social responsibility contribute to firm financial performance? The mediating role of competitive advantage, reputation, and customer satisfaction. J. Bus. Res. 68 (2), 341–350. https://doi.org/10.1016/j.jbusres.2014.06.024.
- Sameer, I., 2021. Impact of corporate social responsibility on organization's financial performance: evidence from Maldives public limited companies. Fut. Bus. J. 7 (1), 1–21. https://doi.org/10.1186/s43093-021-00075-8.
- Sánchez-Infante Hernández, J.P., Yañez-Araque, B., Moreno-García, J., 2020. Moderating effect of firm size on the influence of corporate social responsibility in the economic performance of micro-, small- and medium-sized enterprises. Technol. Forecast. Soc. Change 151, 119774. https://doi.org/10.1016/j.techfore.2019.119774.
- Sarkar, B., Sarkar, M., Ganguly, B., Cárdenas-Barrón, L.E., 2021. Combined effects of carbon emission and production quality improvement for fixed lifetime products in a sustainable supply chain management. Int. J. Prod. Econ. 231, 107867 https://doi. org/10.1016/j.ijpe.2020.107867.
- Sen, S., Bhattacharya, C.B., 2001. Does doing good always lead to doing better? Consumer reactions to corporate social responsibility. J. Market. Res. 38 (2), 225–243. https://doi.org/10.1509/jmkr.38.2.225.18838.
- Sepehri, A., Sarrafzadeh, M.H., Avateffazeli, M., 2020. Interaction between Chlorella vulgaris and nitrifying-enriched activated sludge in the treatment of wastewater with low C/N ratio. J. Clean. Prod. 247, 119164 https://doi.org/10.1016/j.jclepro.2019.119164.
- Servaes, H., Tamayo, A., 2013. The impact of corporate social responsibility on firm value: the role of customer awareness. Manag. Sci. 59 (5), 1045–1061. https://doi. org/10.1287/mnsc.1120.1630.
- Shahzad, M., Qu, Y., Ur Rehman, S., Zafar, A.U., Ding, X., Abbas, J., 2020. Impact of knowledge absorptive capacity on corporate sustainability with mediating role of

- CSR: analysis from the Asian context. J. Environ. Plann. Manag. 63 (2), 148–174. https://doi.org/10.1080/09640568.2019.1575799.
- Sharabati, A.A.A., 2018. Effect of corporate social responsibility on Jordan pharmaceutical industry's business performance. Soc. Responsib. J. 14 (3), 566–583. https://doi.org/10.1108/SRJ-12-2016-0221.
- Shareef, F., Arunachalam, M., Sodique, H., Davey, H., 2014. Understanding CSR in the Maldivian context. Soc. Responsib. J. 10 (1), 85–114. https://doi.org/10.1108/SRJ-03-2012-0034.
- Sharma, E., 2019. A review of corporate social responsibility in developed and developing nations. In: Corporate Social Responsibility and Environmental Management, vol. 26. John Wiley & Sons, Ltd, pp. 712–720. https://doi.org/ 10.1002/csr.1739. Issue 4.
- Shmueli, G., Koppius, O.R., 2011. Predictive analytics in information systems research. In: MIS Quarterly: Management Information Systems, vol. 35. University of Minnesota, pp. 553–572. https://doi.org/10.2307/23042796, 3.
- Singh, S.K., Chen, J., Del Giudice, M., El-Kassar, A.N., 2019. Environmental ethics, environmental performance, and competitive advantage: role of environmental training. Technol. Forecast. Soc. Change 146, 203–211. https://doi.org/10.1016/j. techfore 2019.05.032
- Singh, S.K., Giudice, M. Del, Chierici, R., Graziano, D., 2020. Green innovation and environmental performance: the role of green transformational leadership and green human resource management. Technol. Forecast. Soc. Change 150. https://doi.org/ 10.1016/i.techfore.2019.119762.
- Song, W., Yu, H., 2018. Green innovation strategy and green innovation: the roles of green creativity and green organizational identity. Corp. Soc. Responsib. Environ. Manag. 25 (2), 135–150. https://doi.org/10.1002/CSR.1445.
- Spector, P.E., Brannick, M.T., 2010. Common method issues: an introduction to the feature topic in organizational research methods. Organ. Res. Methods 13 (3), 403–406. https://doi.org/10.1177/1094428110366303.
- Suganthi, L., 2019. Examining the relationship between corporate social responsibility, performance, employees' pro-environmental behavior at work with green practices as mediator. J. Clean. Prod. 232, 739–750. https://doi.org/10.1016/j.iclepro.2019.05.295
- Surroca, J., Tribó, J.A., Waddock, S., 2010. Corporate responsibility and financial performance: the role of intangible resources. Strat. Manag. J. 31 (5), 463–490. https://doi.org/10.1002/smi.820.
- Tahri, W., El Khamlichi, A., 2019. Disclosure and communication of the corporate social responsibility (CSR) in Morocco: the case of a bank. In: Lecture Notes in Information Systems and Organisation, vol. 30. Springer, Cham, pp. 247–261. https://doi.org/ 10.1007/978-3-030-10737-6 16.
- Tan, C.L., Ong, T.S., Soh, W.N., Abdul Rahim, N., 2021. Sustainable economic development and environmental performance of developing and developed countries. J. Environ. Manag. Tour. 12 (2), 429–443. https://doi.org/10.14505// jemt.12.2(50).11.
- Tang, Z., Tang, J., 2012. Stakeholder-firm power difference, stakeholders' CSR orientation, and SMEs' environmental performance in China. J. Bus. Ventur. 27 (4), 436–455. https://doi.org/10.1016/j.jbusvent.2011.11.007.
- Tao, R., Wu, J., Zhao, H., 2022. Do corporate customers prefer socially responsible suppliers? An instrumental stakeholder theory perspective. J. Bus. Ethics 1–24. https://doi.org/10.1007/s10551-022-05171-5.
- Tariq, A., Badir, Y., Chonglerttham, S., 2019. Green innovation and performance: moderation analyses from Thailand. Eur. J. Innovat. Manag. 22 (3), 446–467. https://doi.org/10.1108/EJIM-07-2018-0148.
- The World Bank, 2022. World Bank SME Finance: Development News, Research, Data. World Bank. The World Bank. https://www.worldbank.org/en/topic/smefinance.
- Tian, Q., Robertson, J.L., 2019. How and when does perceived CSR affect employees' engagement in voluntary pro-environmental behavior? J. Bus. Ethics 155 (2), 399–412. https://doi.org/10.1007/s10551-017-3497-3.
- Trumpp, C., Endrikat, J., Zopf, C., Guenther, E., 2015. Definition, conceptualization, and measurement of corporate environmental performance: a critical examination of a multidimensional construct. J. Bus. Ethics 126 (2), 185–204. https://doi.org/10.1007/s10551.013-1931-8.

- Turker, D., 2009. How corporate social responsibility influences organizational commitment. J. Bus. Ethics 89 (2), 189–204. https://doi.org/10.1007/s10551-008-2002 8
- Tworzydło, D., Gawroński, S., Szuba, P., 2021. Importance and role of CSR and stakeholder engagement strategy in polish companies in the context of activities of experts handling public relations. Corp. Soc. Responsib. Environ. Manag. 28 (1), 64–70. https://doi.org/10.1002/csr.2032.
- van Uden, A., Knoben, J., Vermeulen, P., 2017. Human capital and innovation in Sub-Saharan countries: a firm-level study. Innovat. Manag. Pol. Pract. 19 (2), 103–124. https://doi.org/10.1080/14479338.2016.1237303.
- Vasileiou, E., Georgantzis, N., Attanasi, G., Llerena, P., 2022. Green innovation and financial performance: a study on Italian firms. Res. Pol. 51 (6), 104530 https://doi. org/10.1016/j.respol.2022.104530.
- Waheed, A., Zhang, Q., 2022. Effect of CSR and ethical practices on sustainable competitive performance: a case of emerging markets from stakeholder theory perspective. J. Bus. Ethics 175 (4), 837–855. https://doi.org/10.1007/s10551-020-04679.
- Wang, H., Qian, C., 2011. Corporate philanthropy and corporate financial performance: the roles of stakeholder response and political access. Acad. Manag. J. 54 (6), 1159–1181. https://doi.org/10.5465/amj.2009.0548.
- Wang, L., Juslin, H., 2013. Corporate social responsibility in the Chinese forest industry: understanding multiple stakeholder perceptions. Corp. Soc. Responsib. Environ. Manag. 20 (3), 129–145. https://doi.org/10.1002/csr.286.
- Wang, M., Li, Y., Li, J., Wang, Z., 2021. Green process innovation, green product innovation and its economic performance improvement paths: a survey and structural model. J. Environ. Manag. 297 https://doi.org/10.1016/j. jenyman.2021.113282.
- Williams, R.J., Barrett, J.D., 2000. Corporate philanthropy, criminal activity, and firm reputation: is there a link? J. Bus. Ethics 26 (4), 341–350. https://doi.org/10.1023/ A:1006282312238.
- Xie, X., Huo, J., Zou, H., 2019. Green process innovation, green product innovation, and corporate financial performance: a content analysis method. J. Bus. Res. 101, 697–706. https://doi.org/10.1016/j.jbusres.2019.01.010.
- Yáñez-Araque, B., Sánchez-Infante Hernández, J.P., Gutiérrez-Broncano, S., Jiménez-Estévez, P., 2021. Corporate social responsibility in micro-, small- and medium-sized enterprises: multigroup analysis of family vs. nonfamily firms. J. Bus. Res. 124, 581–592. https://doi.org/10.1016/j.jbusres.2020.10.023.
- Yánez Morales, V.P., Pan, A., Ali, U., 2020. How helping behaviours at work stimulate innovation in the organization: evidence from a moderated-mediation model. Innovation: Organ. Manag. 22 (1), 71–90. https://doi.org/10.1080/ 14479338.2019.1632712.
- Yohn, D.L., 2020. Brand authenticity, employee experience and corporate citizenship priorities in the COVID-19 era and beyond. Strat. Leader. 48 (5), 33–39. https://doi. org/10.1108/SL-06-2020-0077.
- Yu, H.C., 2020. Corporate philanthropic giving and sustainable development. J. Manag. Dev. 39 (7–8), 837–849. https://doi.org/10.1108/JMD-11-2019-0479.
- Zarbakhshnia, N., Govindan, K., Kannan, D., Goh, M., 2022. Outsourcing logistics operations in circular economy towards to sustainable development goals. Business Strategy and the Environment (in press).
- Zheng, W., Wu, Y.C.J., Chen, X.C., Lin, S.J., 2017. Why do employees have counterproductive work behavior? The role of founder's Machiavellianism and the corporate culture in China. Manag. Decis. 55 (3), 563–578. https://doi.org/ 10.1108/MD-10-2016-0696
- Zhu, Q., Sarkis, J., Lai, K.H., 2012. Green supply chain management innovation diffusion and its relationship to organizational improvement: an ecological modernization perspective. J. Eng. Technol. Manag. - JET-M 29 (1), 168–185. https://doi.org/ 10.1016/j.jengtecman.2011.09.012.
- Zou, Z., Liu, Y., Ahmad, N., Sial, M.S., Badulescu, A., Zia-Ud-din, M., Badulescu, D., 2021. What prompts small and medium enterprises to implement CSR? A qualitative insight from an emerging economy. Sustainability 13 (2), 1–16. https://doi.org/ 10.3390/su13020952.