**ORIGINAL ARTICLE** 



# Does culture matter? Corporate reputation and sustainable satisfaction in the Chinese and German banking sector

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Revised: 10 May 2023 / Accepted: 6 September 2023 © The Author(s) 2023

#### Abstract

Corporate reputation is important for all types of banks across the world, despite these countries differing culturally. Building on an extended corporate reputation model, we identify the key drivers of customer-based reputation and sustainable customer satisfaction in two culturally different countries, namely China and Germany. We also consider two reputation dimensions—perceived competence and likeability—and their effects on the target construct. Empirical data from 625 German and 734 Chinese commercial bank customers allow us to estimate the corporate reputation model with the partial least squares structural equation modeling (PLS-SEM) method, and by substantiating the relationships by means of a necessary condition analysis (NCA) and a predictive power analysis. By comparing the two countries' results, we identify their cultural differences. Overall, we confirm the model's relevance for the two cultures, finding that banks' perceived attractiveness is the most important driver of both cultures' customer-perceived bank reputation. By means of an importance-performance map analysis, we identify a large overlap between the two cultures' set of important constructs, likeability's much greater importance in Germany, and the perceived quality construct's relevance in both countries. We contribute to research and scientific knowledge about corporate reputation models by identifying the similarities in and differences between two countries' markets with respect to the banking sector, all of which have implications for international banks' management.

Keywords Customer-perceived reputation · Sustainable satisfaction · Commercial banks · PLS-SEM

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### Introduction

Prior research has shown that companies rely on a positive corporate reputation (Otto et al. 2020), which has proved to enhance their competitive advantage potential (Gray and Balmer 1998). Several studies have confirmed the positive relationship between corporate reputation, customer satisfaction (Walsh and Beatty 2007), and loyalty (Ali et al. 2015). Since banks rely greatly on their customers' trust, their corporate reputation is especially important for them (Englert et al. 2020). Further, banks struggle to differentiate themselves, which means their reputation is an important intangible resource. Research also suggests that Asia and Europe regard bank reputation differently (Zhang and Schwaiger 2012). In addition, prior research suggested that, in general, there is a difference in low-context and high-context cultures' customer behavior.

We therefore collected data from China, a high-context culture, and Germany, a low-context culture, for our study. Nienaber et al.'s (2014) study results indicated that reputation is more important in terms of trust in a bank in Asia's

banking sector than in Europe's one. Consequently, we presumed that our Chinese and German subsamples' perceptions of reputation and sustainable satisfaction differed. Our study's purpose was to undertake a deep dive into the respective differences to derive theoretical implications for future research and practical implications for bank managers in Asia and Europe.

The last two decades have seen various transformations in the banking services. Specifically, commercial banks' aim is to provide their customers with professional, scenario-based, and uninterrupted smart service experiences. New technologies and digital transformation have also had a strong impact on financial institutions, forcing them to change their business models rapidly (Hopkinson et al. 2019). Simultaneously, customers' consumption behavior has shifted to electronic contact with no direct personal contact (Bartmann et al. 2013). The latter has led to customer loyalty toward physical bank branches decreasing gradually (Li et al. 2021). Relatively new forms of bank innovation, such as unmanned branches and smart banks, have forced commercial banks to improve their customer experience through various financial technologies and new devices to achieve the best service marketing effects (e.g., Tseng et al. 2021). In addition, competition in the banking sector has become fierce, with new competitors, such as internet companies, fintech companies, and self-operated financial service platforms, emerging continually (e.g., Vives 2017).

Nevertheless, the lack of customer satisfaction is one of the main reasons for customers switching banks (Chakrabarty 2004; Manrai and Manrai 2007). This dissatisfaction is often due to the increasing costs (Colgate and Hedge 2001; Manrai and Manrai 2007; Santonen 2007), motivating customers to switch to banks offering better value for money. The irony is that, given their competitive market, banks cannot afford to lose customers, since a net loss of customers is closely linked to a loss of profits and market share (Manrai and Manrai 2007). Customer churn is therefore of great importance for retail banking's service areas (Sweeney and Swait 2008).

Commercial banks in China and Germany are our research object, which allows us to compare the same type of bank in both countries. The German banking sector comprises three pillars: commercial banks, cooperative banks, and savings banks. The commercial banking sector accounted for 22.9% of the market share in 2020 (Bundesbank 2021). In China, commercial banks include national commercial banks, urban commercial banks, rural commercial banks, and foreign banks. The first three are mostly state-owned enterprises. In addition to competing with one another, Internet finance companies, such as Alibaba, have greatly impacted these commercial banks' business (Dong et al. 2020).

Building on prior corporate reputation research in the banking sector (section "Corporate bank reputation and sustainable customer satisfaction"), we strive to answer the following research question: *What are the drivers of commercial banks' corporate reputation and sustainable satisfaction in China and Germany*? We build on an a priori validated path model to answer this question and collect two representative samples of Chinese and German commercial bank customers, which we subsequently evaluate by means of partial least squares structural equation modeling (PLS-SEM; Lohmöller 1989; Wold 1982). This method not only allows us to assess the models in both countries, but also to conduct further analyses for comparison purposes and for an importance-performance map analysis (IPMA), thereby allowing us to derive practical implications.

More specifically, our study makes the following contributions: First, although prior research examined similar models to explain bank customers' thoughts on their bank's reputation, their satisfaction with their bank, and their loyalty, no existing studies have as yet investigated the specific similarities and differences between customers in low- and high-context cultures' perceptions, using comparable datasets. By doing so, we offer bank managers practical advice that could help them make evidence-based decisions on how to attract and maintain relationships with their customers in an international context. Second, from a more theoretical perspective, we offer a simplified reputation model that combines customer satisfaction and loyalty in one construct, which maintains that long-term satisfaction and loyalty are needed for sustainable customer-bank relationships. Third, from a methodological perspective, we not only compare datasets by applying a single method (PLS-SEM), but also complement our analysis with complementary analysis methods, such as a necessary condition analysis (NCA) and an IPMA.

We organize our article as follows to address our research question and present our research contribution: section "Corporate bank reputation and sustainable customer satisfaction" describes bank reputation and the sustainable satisfaction model's development. In section "Data and method", we describe the data and method used to build the sustainable satisfaction model for China and Germany. Our assessment of the empirical results, which include an NCA and IPMA, follows in section "Results assessment". The study concludes with section "Discussion", which describes the main findings and our conclusions regarding marketing research, the study's practical implications, and future research directions.

## Corporate bank reputation and sustainable customer satisfaction

In this study, we examine commercial bank customers' perception of bank reputation and sustainable (i.e., long-term) satisfaction in China and Germany. Customer-based reputation is defined in various ways. Since we focus on the customer perspective, we follow Walsh and Beatty's (2007) definition that "the customer's overall evaluation of a firm is based on his or her reactions to the firm's goods, services, communication activities, interactions with the firm, and/or its representatives or constituencies (such as employees, management, or other customers), and/or its known corporate activities" (Walsh and Beatty 2007, p. 129). We test Schwaiger's (2004) corporate reputation model in both countries, using sustainable (long-term) customer satisfaction as the target construct (Damberg 2021).

Bank reputation is a particularly interesting and important topic in the strategic marketing field (Boonlertvanich 2019; Bugandwa et al. 2021; Damberg et al. 2022; Zhang and Schwaiger 2012), because corporate reputation has a positive influence on customer satisfaction and loyalty, which could give a bank a competitive advantage and/or increase its performance (Otto et al. 2020). Prior literature focusing on consumer behavior and perceptions found that corporate reputation's affective dimension contributed more to customers' potential loyalty than its cognitive reputation dimension did (Schwaiger et al. 2021). Moreover, in Germany, positive public corporate reputation perceptions have shown to be positively related to shareholder value when measured by means of future stock returns (Raithel and Schwaiger 2015).

Various authors have tried to operationalize a company's reputation, which is a latent, not directly observable, variable. Further, prior research also applied and validated Schwaiger's (2004) two-dimensional corporate reputation (Sarstedt and Schloderer 2010; Schloderer et al. 2014; Schwaiger et al. 2009) in different countries (Damberg 2021; Eberl 2010; Zhang and Schwaiger 2012).

For the purpose of this study, and in accordance with Schwaiger (2004), customer-perceived bank reputation is modeled as a two-dimensional construct comprising perceived competence (COMP) as a cognitive dimension, and perceived likeability (LIKE) as an affective dimension. This modeling approach allows researchers to identify the overall concept's specific effects on the lower-order (i.e., LIKE and COMP) dimensions (Sarstedt et al. 2019). In Schwaiger's (2004) original model, corporate reputation has four antecedents that influence the reputation levels, namely the perceived quality (QUAL), performance (PERF), corporate social responsibility (CSOR), and the company's perceived attractiveness (ATTR). According to previous studies' findings, both of corporate reputation's dimensions (i.e., COMP and LIKE) have a positive influence on customers' (more short-term oriented) satisfaction and long-term loyalty, with the latter modeled as the target construct. In our reputation model, we use a single target construct, namely sustainable satisfaction (SUS-SAT), which is a combination of customer satisfaction and loyalty, and was first applied in the German cooperative banking context (Damberg 2021). Prior research argued that it is not always possible to distinguish clearly between the satisfaction and loyalty constructs (e.g., Kocyigit and Ringle 2011). In Kocyigit and Ringle's study, the construct sustainable brand satisfaction comprises combining items from the satisfaction and loyalty scales into a single target construct, which Höck et al. (2010) introduced. We therefore adapted the sustainable brand satisfaction scale's items to fit the banking context. We used this single target construct that allowed us to better create a less complex and more focused model.

The theoretical model tested in this study is built on the constructs and their relationships, which Schwaiger (2004) and Damberg (2021) described. The four constructs—QUAL, PERF, CSOR, and ATTR,—all of which have a formative measurement model (e.g., Schwaiger 2004; Table 1), represent the antecedents and the drivers of the two corporate reputation dimensions COMP and LIKE, each of which have a reflective measurement model (e.g., Schwaiger 2004; Table 1). The structural model focuses on analyzing how the corporate reputation dimensions influence and explain the target construct, SUSSAT, which—as Damberg (2021) showed—has a reflective measurement model; see also Table 1.

In line with the research that Schwaiger (2004) and Damberg (2021) presented, Fig. 1 illustrates the theoretically established model with its constructs and relationships. Table 2 displays the theoretically established hypotheses of the relationships in this model. Based on empirical data, we examine the extent to which these hypothesized relationships can be confirmed in terms of China and Germany, therefore validating the theoretically established model empirically. In addition, the empirical examination allows us to determine which of the drivers of the two corporate reputation dimensions are specifically important in which country and are primarily relevant for SUSSAT.

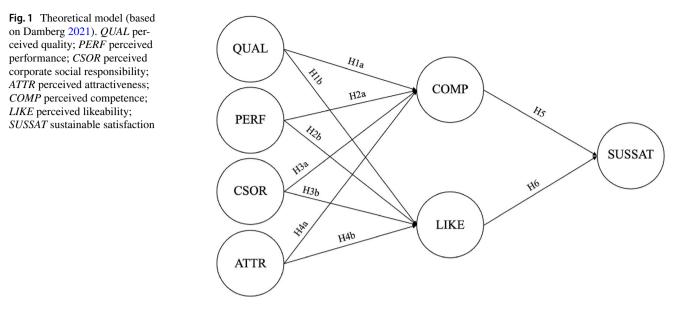
#### Data and method

The operationalization of our reputation model's constructs was tested in previous studies (Table 1), establishing its validity and reliability irrefutably. The items were

#### Table 1 Measurement and operationalization

| Formative constructs                                  | Items  | Sources   |
|---|--|---|
| Perceived quality (QUAL)                              | QUAL1: My primary bank always pays great atten-<br>tion to my concerns<br>QUAL2: The range of services that my bank offers is<br>in line with my needs<br>QUAL3: I consider my bank a trustworthy company<br>QUAL4: The products and services that my bank<br>offers are of high quality<br>QUAL5: I think that the products and services that<br>my bank offers are good value for money<br>QUAL6: In my opinion, my bank is a pioneer rather<br>than a follower competing with other banks | Damberg (2021), Damberg et al. (2022), Schloderer<br>et al. (2014), Schwaiger et al. (2009), Schwaiger<br>(2004)                                  |
| Perceived performance (PERF)                          | <ul> <li>PERF1: My main bank is an economically stable company</li> <li>PERF2: My main bank is a well-managed company</li> <li>PERF3: I consider my main bank's economic risk to be low compared to that of its competitors</li> <li>PERF4: My main bank seems to have a clear vision of the company's future</li> <li>PERF5: I believe that my main bank has the potential to grow</li> </ul>   | Damberg (2021), Damberg et al. (2022), Schloderer<br>et al. (2014), Schwaiger et al. (2009), Schwaiger<br>(2004)                                  |
| Perceived corporate social respon-<br>sibility (CSOR) | <ul> <li>CSOR1: I believe my main bank is not only interested in profit</li> <li>CSOR2: My main bank is also committed to preserving the environment</li> <li>CSOR3: My main bank behaves responsibly toward society</li> <li>CSOR4: I believe that my main bank informs the public honestly</li> <li>CSOR5: I believe that my main bank behaves fairly toward its competitors</li> </ul>  | Damberg (2021), Damberg et al. (2022), Schloderer<br>et al. (2014), Schwaiger et al. (2009), Schwaiger<br>(2004)                                  |
| Perceived<br>attractiveness<br>(ATTR)                 | <ul><li>ATTR1: My bank is an attractive company</li><li>ATTR2: I like my bank's appearance (its branches, logo, website, etc.)</li><li>ATTR3: In my opinion, my bank employs highly qualified staff</li><li>ATTR4: I could well imagine working for my bank</li></ul>  | Damberg (2021), Damberg et al. (2022), Schloderer<br>et al. (2014), Schwaiger et al. (2009), Schwaiger<br>(2004)                                  |
| Reflective constructs                                 | Items  | Sources   |
| Perceived competence (COMP)                           | <ul> <li>COMP1: My primary bank is a leading provider in t market</li> <li>COMP2: As far as I know, my personal bank has a good reputation</li> <li>COMP3: In my opinion, highly qualified employees work at my personal bank</li> </ul>   | he Damberg (2021), Damberg et al. (2022), Raithel<br>and Schwaiger (2015), Schloderer et al. (2014),<br>Schwaiger et al. (2009), Schwaiger (2004) |
| Perceived likeability (LIKE)                          | <ul> <li>LIKE1: I identify more with my personal bank than with others</li> <li>LIKE2: If my personal bank no longer existed, I wour regret this more than I would regret other banks' disappearance</li> <li>LIKE3: I feel that my personal bank values me as a customer</li> </ul>   | Damberg (2021), Damberg et al. (2022), Raithel<br>and Schwaiger (2015), Schloderer et al. (2014),<br>Schwaiger et al. (2009), Schwaiger (2004)    |
| Sustainable satisfaction (SUSSAT)                     | SUSSAT1: My personal bank meets my expectation<br>SUSSAT2: I will remain a customer of my personal<br>bank in the future<br>SUSSAT3: I would recommend my personal bank to<br>my friends and family  | Schwaiger et al. (2009), Schwaiger (2004)   |

Source All items were measured on a Likert-scale from 1 (do not agree at all) to 7 (fully agree)



#### Table 2 Hypotheses

| Hypothesis |  |
|------------|--|
| H1a        | Higher levels of perceived quality lead to higher levels of the customer-perceived reputation's cognitive dimension (i.e., perceived competence)   |
| H1b        | Higher levels of perceived quality lead to higher levels of the customer-perceived reputation's affective dimension (i.e., perceived likeability)  |
| H2a        | Higher levels of perceived performance lead to higher levels of the customer-perceived reputation's cognitive dimension (i.e., perceived competence)   |
| H2b        | Higher levels of perceived performance lead to higher levels of the customer-perceived reputation's affective dimension (i.e., perceived likeability)  |
| НЗа        | Higher levels of perceived corporate social responsibility lead to higher levels of the customer-perceived reputation's cognitive dimension (i.e., perceived competence)                         |
| H3b        | Higher levels of perceived corporate social responsibility lead to higher levels of the customer-perceived reputation's affective dimension (i.e., perceived likeability)                        |
| H4a        | Higher levels of perceived attractiveness lead to higher levels of the customer-perceived reputation's cognitive dimension (i.e., perceived competence)  |
| H4b        | Higher levels of perceived attractiveness lead to higher levels of the customer-perceived reputation's affective dimension (i.e., perceived likeability)   |
| Н5         | Higher levels of customer-perceived reputation's cognitive dimension (i.e., perceived competence) lead to commercial bank cus-<br>tomers' increased levels of sustainable customer satisfaction  |
| H6         | Higher levels of customer-perceived reputation's affective dimension (i.e., perceived likeability) lead to commercial bank custom-<br>ers' increased levels of sustainable customer satisfaction |

respectively translated (and back translated) into German and Chinese. We measured all the constructs on a Likert scale ranging from 1 (do not agree at all) to 7 (fully agree). All the items were previously adapted to and validated in the banking context (Damberg 2021; Damberg et al. 2022). The data collection largely followed the process that Sarstedt et al. (2023b) described for obtaining corporate reputation model data. Since all the questions in the online surveys were mandatory, we did not have to undertake a missing value analysis. More precisely, the German subsample was collected via the market-research institute Respondi, with the objective of ensuring that the target population's representation (i.e., German commercial banks' customers). The Chinese subsample was obtained from Chinese banks' WeChat groups, through which famous commercial banks, such as the Bank of China, Bank of Communications, and Industrial and Commercial Bank of China, promote their products and banking services.

Our final sample comprised responses from 734 Chinese and 616 German commercial bank customers. Table 9 in the Appendix shows the descriptive statistics. We ensured PLS-SEM's technical suitability in respect of each country-specific sample's size. We used the inverse square root method (Kock and Hadaya 2018) to determine the sample size needed to achieve a certain level of statistical power. For example, one would need approximately 619 observations to render the corresponding effect significant at 5%, if one were to assume that the minimum path coefficient expected to be significant is between 0.05 and 0.1 (Hair et al. 2022).

We estimated the reputation model by using PLS-SEM (Lohmöller 1989; Wold 1982), a variance-based multivariate analysis method aimed at maximizing the amount of the dependent constructs' and/or the indicators' explained variance (Hair et al. 2022). For a recent update on the PLS-SEM method's discussions see, for example, Cook and Forzani (2023), Petter and Hadavi (2021), and Russo and Stol (2023). Since this research method's main objective is to test a theoretical framework and to explain and predict a target construct (i.e., SUSSAT), we assumed that the constructs in our model's arrangement is of a causal-predictive nature (Chin et al. 2020; Hair et al. 2019). Besides PLS-SEM's characteristics and distinguishing features (for further details, see Sarstedt et al. 2023a), which support our research's goal, PLS-SEM also allows researchers to estimate reputation models that include both formatively and reflectively measured constructs (Sarstedt et al. 2021)-as in our research. Moreover, the PLS-SEM method allows

 Table 3 Indicator loadings, reliability, and convergent validity

us to extend existing theories and develop new ones (Richter et al. 2016). PLS-SEM has therefore been successfully applied in marketing research and is a widely established method in the social sciences (Sarstedt et al. 2021, 2022). We applied the SmartPLS 4 software (Ringle et al. 2022), whose use in research studies is well established (Sarstedt and Cheah 2019), to estimate our reputation model with the collected empirical data.

#### **Results assessment**

The measurement model's assessment follows Hair et al. (2019, 2022) and Sarstedt et al. (2021)—for extended and advanced PLS-SEM analyses see, for example, Becker et al. (2023), Guenther et al. (2023), Hair et al. (2024), and Sarstedt et al. (2020). We report the bias-corrected results of the percentile bootstrapping approach with 10,000 sub-samples and a two-tailed 95% confidence interval for significance testing. We assess the reflective measurement models by analyzing their indicator reliability, internal consistency, convergent validity, and discriminant validity. All the indicator loadings are significantly above the recommended threshold of 0.7 (Table 3). Cronbach's  $\alpha$  and  $\rho_A$  allow us to evaluate the reflective constructs' internal consistency reliability. All the results are again above the threshold value of

| Constructs | Indicators | Loadings            | Cronbach's $\alpha$ | $ ho_{ m A}$        | AVE                   |
|------------|------------|---------------------|---------------------|---------------------|-----------------------|
| China      |            |                     |                     |                     |                       |
| COMP       | COMP1      | 0.814 [0.782;0.841] | 0.734 [0.693;0.769] | 0.734 [0.693;0.769] | 0.653 [0.619;0.684]   |
|            | COMP2      | 0.802 [0.761;0.835] |                     |                     |                       |
|            | COMP3      | 0.807 [0.774;0.835] |                     |                     |                       |
| LIKE       | LIKE1      | 0.802 [0.769;0.828] | 0.710 [0.662;0.749] | 0.715 [0.667;0.753] | 0.632 [0.595;0.665]   |
|            | LIKE2      | 0.772 [0.715;0.813] |                     |                     |                       |
|            | LIKE3      | 0.810 [0.776;0.838] |                     |                     |                       |
| SUSSAT     | SUSSAT1    | 0.818 [0.779;0.847] | 0.731 [0.687;0.771] | 0.733 [0.687;0.771] | 0.650 [0.615;0.686]]; |
|            | SUSSAT2    | 0.787 [0.738;0.822] |                     |                     |                       |
|            | SUSSAT3    | 0.814 [0.781;0.841] |                     |                     |                       |
| Germany    |            |                     |                     |                     |                       |
| COMP       | COMP1      | 0.878 [0.851;0.900] | 0.892 [0.872;0.909] | 0.903 [0.885;0.918] | 0.823 [0.796;0.846]   |
|            | COMP2      | 0.905 [0.886;0.921] |                     |                     |                       |
|            | COMP3      | 0.937 [0.925;0.947] |                     |                     |                       |
| LIKE       | LIKE1      | 0.930 [0.914;0.942] | 0.913 [0.897;0.927] | 0.915 [0.899;0.928] | 0.852 [0.828;0.872]   |
|            | LIKE2      | 0.923 [0.905;0.937] |                     |                     |                       |
|            | LIKE3      | 0.916 [0.901;0.930] |                     |                     |                       |
| SUSSAT     | SUSSAT1    | 0.929 [0.914;0.941] | 0.913 [0.893;0.928] | 0.916 [0.897;0.929] | 0.852 [0.824;0.875]   |
|            | SUSSAT2    | 0.914 [0.885;0.934] |                     |                     |                       |
|            | SUSSAT3    | 0.926 [0.908;0.940] |                     |                     |                       |

Values in brackets = 95% bias-corrected percentile bootstrap confidence interval (two-sided, 10,000 subsamples)

AVE average variance extracted, COMP perceived competence, LIKE perceived likeability, SUSSAT sustainable satisfaction

| Reflective constructs | HTMT                               |                                    |  |  |  |
|-----------------------|------------------------------------|------------------------------------|--|--|--|
|                       | China                              | Germany                            |  |  |  |
| LIKE <-> COMP         | 0.895 [CI <sub>0.95</sub> : 0.948] | 0.849 [CI <sub>0.95</sub> : 0.877] |  |  |  |
| SUSSAT <-> COMP       | 0.885 [CI <sub>0.95</sub> : 0.942] | 0.853 [CI <sub>0.95</sub> : 0.878] |  |  |  |
| SUSSAT <-> LIKE       | 0.943 [CI <sub>0.95</sub> : 0.993] | 0.917 [CI <sub>0.95</sub> : 0.937] |  |  |  |

Table 4 HTMT criterion results for discriminant validity assessment

 $CI_{0.95}$  = 95th percentile of the bias-corrected percentile bootstrap confidence interval (based on 10,000 subsamples)

COMP perceived competence, LIKE perceived likeability, SUSSAT sustainable satisfaction

0.7 (Table 3). Next, we use the average variance extracted (AVE) to assess the reflective constructs' convergent validity. All the AVE values exceed the threshold of 0.5 (Table 3). We use the heterotrait-monotrait ratio of the correlations (HTMT, Henseler et al. 2015; Table 4) to determine the discriminant validity (i.e., by using the and absolute correlation values or HTMT+; Ringle et al. 2023). Since all the HTMT values are significantly below one (Franke and Sarstedt 2019), this allows us to establish the discriminant validity (Henseler et al. 2015). However, based on the more conservative HTMT assessment criteria (e.g., with a threshold value of 0.9), we could face discriminant validity issues in respect of LIKE and SUSSAT in both the Chinese and German samples even though we meet this criterion in all the other cases.

We conduct a redundancy analysis to assess our model's four formative antecedent constructs (i.e., QUAL, PERF, CSOR, and ATTR) of the two corporate reputation dimensions. Our analysis shows that the convergence validity of all four formatively measured constructs' has been established. The formative measurement model results show that the highest variance inflation factor (VIF) has a value of 4.824 for OUAL5 (Table 5). Consequently, all the VIF values are below the (more liberal) critical value of 5. Most of the other results are below the more conservative critical VIF value of 3 (Table 5). We therefore assume that the collinearity is not at a critical level. Moreover, the outer weights are significant and range between 0.201 and 0.357 in respect of China and between 0.181 and 0.333 in respect of Germany.

We begin the structural model analysis with an NCA (Dul 2016, 2020), which researchers can also carry out in a PLS-SEM context (Hair et al., 2024; Richter et al. 2020). We find that the effect sizes of the ceiling regression with

| Formative G        | Constructs | Items | China               |                          |       | Germany             |                          |       |
|--------------------|------------|-------|---------------------|--------------------------|-------|---------------------|--------------------------|-------|
| nent model results |            |       | Outer weights       | Significant $(p < 0.05)$ | VIF   | Outer weights       | Significant $(p < 0.05)$ | VIF   |
| -                  | ATTR       | ATTR1 | 0.357 [0.333;0.385] | Yes                      | 1.472 | 0.333 [0.320;0.347] | Yes                      | 2.663 |
|                    |            | ATTR2 | 0.297 [0.274;0.319] | Yes                      | 1.475 | 0.306 [0.296;0.319] | Yes                      | 2.438 |
|                    |            | ATTR3 | 0.344 [0.319;0.371] | Yes                      | 1.406 | 0.320 [0.307;0.334] | Yes                      | 2.619 |
|                    |            | ATTR4 | 0.318 [0.289;0.345] | Yes                      | 1.431 | 0.221 [0.201;0.238] | Yes                      | 1.400 |
| (                  | CSOR       | CSOR1 | 0.230 [0.195;0.259] | Yes                      | 1.327 | 0.218 [0.206;0.230] | Yes                      | 2.361 |
|                    |            | CSOR2 | 0.269 [0.248;0.291] | Yes                      | 1.563 | 0.204 [0.193;0.213] | Yes                      | 2.926 |
|                    |            | CSOR3 | 0.292 [0.270;0.315] | Yes                      | 1.745 | 0.238 [0.230;0.249] | Yes                      | 4.114 |
|                    |            | CSOR4 | 0.288 [0.267;0.310] | Yes                      | 1.653 | 0.243 [0.234;0.254] | Yes                      | 3.524 |
|                    |            | CSOR5 | 0.280 [0.255;0.305] | Yes                      | 1.533 | 0.237 [0.226;0.249] | Yes                      | 3.167 |
| F                  | PERF       | PERF1 | 0.259 [0.229;0.288] | Yes                      | 1.324 | 0.218 [0.209;0.228] | Yes                      | 3.649 |
|                    |            | PERF2 | 0.314 [0.286;0.343] | Yes                      | 1.467 | 0.244 [0.235;0.255] | Yes                      | 4.233 |
|                    |            | PERF3 | 0.273 [0.245;0.301] | Yes                      | 1.318 | 0.203 [0.192;0.213] | Yes                      | 2.787 |
|                    |            | PERF4 | 0.304 [0.280;0.330] | Yes                      | 1.559 | 0.242 [0.233;0.254] | Yes                      | 3.287 |
|                    |            | PERF5 | 0.261 [0.222;0.294] | Yes                      | 1.356 | 0.229 [0.216;0.241] | Yes                      | 2.506 |
| (                  | QUAL       | QUAL1 | 0.205 [0.182;0.229] | Yes                      | 1.581 | 0.192 [0.184;0.200] | Yes                      | 2.766 |
|                    |            | QUAL2 | 0.214 [0.196;0.235] | Yes                      | 1.779 | 0.181 [0.173;0.188] | Yes                      | 3.015 |
|                    |            | QUAL4 | 0.201 [0.175;0.224] | Yes                      | 1.506 | 0.193 [0.186;0.200] | Yes                      | 3.543 |
|                    |            | QUAL5 | 0.230 [0.210;0.251] | Yes                      | 1.813 | 0.204 [0.197;0.212] | Yes                      | 4.824 |
|                    |            | QUAL6 | 0.247 [0.228;0.269] | Yes                      | 1.765 | 0.186 [0.179;0.194] | Yes                      | 2.977 |
|                    |            | QUAL7 | 0.247 [0.225;0.271] | Yes                      | 1.485 | 0.195 [0.188;0.204] | Yes                      | 2.173 |

Values in brackets = 95% bias-corrected percentile bootstrap confidence interval (two-sided, 10,000 subsamples)

VIF variance inflation factor, ATTR perceived attractiveness, CSOR perceived corporate social responsibility, PERF perceived performance, QUAL perceived quality

free disposal hull (CR-FDH) are above 0.1 and significant in all cases (Table 10, see Appendix), thereby confirming the structural model relationships' theoretically assumed necessity. Further, the structural model evaluation also shows that collinearity might have a slight effect on the estimated coefficients. The highest VIF has a value 4.772 (Table 6). However, all the other VIF values are close to three or even below. In the Chinese sample, one relationship is not significant (i.e., CSOR with COMP). This is also true of two German sample relationships (i.e., CSOR with COMP and PERF with LIKE). All the other coefficients in the structural model are significant (Table 6). However, the  $f^2$  effect sizes (Table 7) are relatively low. In the Chinese sample, only the relationships between ATTR and LIKE, COMP and SUSSAT, and LIKE and SUSSAT have a moderate  $f^2$  effect size of at least 0.15 in both samples (Table 6). While the structural model relationships explain 54.2% of the SUS-SAT variance in the Chinese sample, they explain 74.6% of the SUSSAT in the German sample (see the  $R^2$  results in Table 7). The model therefore provides pronounced and satisfyingly high  $R^2$  values in respect of SUSSAT (i.e., the key

target construct in the model). In addition, as pointed out for instance by Sarstedt et al. (2021), model fit assessment can also be relevant in a PLS-SEM context. Schuberth et al. (2023) highlight the role of model fit assessment in PLS-SEM in respect of criteria such as the GFI, NFI, and SRMR, or regarding bootstrap-based tests for model fit (see also Ringle et al. 2023). We apply the standardized root mean squared residual (SRMR) criterion in this research and consider a value of up to 0.08 as acceptable (Dash and Paul 2021). The SRMR results of 0.056 in respect of China and 0.053 for Germany are below 0.08, therefore supporting the estimated models' fit.

Looking at each country's structural model results (Figs. 2, 3, Table 6), we find that:

- (1) QUAL is a driver of corporate reputation in both countries, especially of the customer-perceived corporate reputation's affective LIKE dimension;
- (2) PERF is an important driver of COMP in both countries, whereas it is only slightly relevant for LIKE in

Table 6 Structural model relationships

| Relationships      | China                |                                |                   | Germany                   |                      |                          |                   |                             |
|--------------------|----------------------|--------------------------------|-------------------|---------------------------|----------------------|--------------------------|-------------------|-----------------------------|
|                    | Direct effects       | Significant ( <i>p</i> < 0.05) | $f^2$ effect size | VIF                       | Direct effects       | Significant $(p < 0.05)$ | $f^2$ effect size | VIF                         |
| ATTR -> COMP       | 0.344 [0.257;0.423]  | Yes                            | 0.124             | 2.558                     | 0.390 [0.303;0.472]  | Yes                      | 0.144             | 4.296                       |
| ATTR -> LIKE       | 0.411 [0.310;0.509]  | Yes                            | 0.161             | 2.558                     | 0.449 [0.363;0.532]  | Yes                      | 0.199             | 4.296                       |
| COMP-> SUSSAT      | 0.350 [0.268;0.427]  | Yes                            | 0.152             | 1.751                     | 0.315 [0.238;0.391]  | Yes                      | 0.157             | 2.480                       |
| CSOR -> COMP       | 0.068 [-0.028;0.162] | No                             | 0.004             | 3.008                     | 0.021 [-0.050;0.093  | 3] No                    | 0.001             | 3.196                       |
| CSOR -> LIKE       | 0.197 [0.090;0.298]  | Yes                            | 0.032             | 3.008                     | 0.146 [0.064;0.230]  | Yes                      | 0.028             | 3.196                       |
| LIKE -> SUSSAT     | 0.458 [0.384;0.529]  | Yes                            | 0.261             | 1.751                     | 0.598 [0.523;0.671]  | Yes                      | 0.568             | 2.480                       |
| PERF -> COMP       | 0.351 [0.264;0.435]  | Yes                            | 0.131             | 2.525                     | 0.342 [0.250;0.423]  | Yes                      | 0.144             | 3.299                       |
| PERF->LIKE         | 0.099 [0.007;0.186]  | Yes                            | 0.009             | 2.525                     | -0.022 [-0.108;0.06] | 3] No                    | 0.001             | 3.299                       |
| QUAL->COMP         | 0.133 [0.059;0.210]  | Yes                            | 0.021             | 2.264                     | 0.179 [0.087;0.272]  | Yes                      | 0.027             | 4.772                       |
| QUAL->LIKE         | 0.154 [0.073;0.242]  | Yes                            | 0.026             | 2.264                     | 0.351 [0.258;0.453]  | Yes                      | 0.109             | 4.772                       |
| Relationships      | Cl                   | nina                           |                   |                           | German               | у                        |                   |                             |
|                    | In                   | direct effects                 |                   | Signif<br>( <i>p</i> < 0. |                      | effects                  | n                 | ig-<br>ificant<br>v < 0.05) |
| PERF->COMP->S      | SUSSAT 0.            | 123 [0.086;0.1                 | 66]               | Yes                       | 0.108                | [0.075;0.146]            | Y                 | es                          |
| CSOR -> COMP -> S  | SUSSAT 0.            | 024 [-0.009;0                  | .059]             | No                        | 0.007                | [-0.016;0.029            | )] N              | 0                           |
| ATTR -> LIKE -> SU | USSAT 0.             | 188 [0.133;0.2                 | 50]               | Yes                       | 0.268                | [0.212;0.327]            | Y                 | es                          |
| ATTR -> COMP -> S  | SUSSAT 0.            | 120 [0.082;0.1                 | 65]               | Yes                       | 0.123                | [0.087;0.163]            | Y                 | es                          |
| QUAL->LIKE->S      | USSAT 0.             | 070 [0.034;0.1                 | 16]               | Yes                       | 0.210                | [0.145;0.287]            | Y                 | es                          |
| CSOR -> LIKE -> S  | USSAT 0.             | 090 [0.043;0.1                 | 39]               | Yes                       | 0.087                | [0.039;0.136]            | Y                 | es                          |
| QUAL->COMP->       | SUSSAT 0.            | 046 [0.020;0.0                 | 78]               | Yes                       | 0.056                | [0.026;0.095]            | Y                 | es                          |
| PERF->LIKE->SU     | JSSAT 0.             | 045 [0.004;0.0                 | 88]               | Yes                       | -0.013               | [-0.066;0.037            | 7] N              | 0                           |

Values in brackets = 95% bias-corrected percentile bootstrap confidence interval (two-sided, 10,000 subsamples)

QUAL perceived quality, PERF perceived performance, CSOR perceived social responsibility, ATTR perceived attractiveness, LIKE perceived likeability, COMP perceived competence, SUSSAT sustainable satisfaction

| Explained variance | China                 |          |        | Germany               |            |        |  |
|--------------------|-----------------------|----------|--------|-----------------------|------------|--------|--|
|                    | COMP                  | LIKE     | SUSSAT | COMP                  | LIKE       | SUSSAT |  |
| $R^2$              | 0.628                 | 0.590    | 0.542  | 0.754                 | 0.765      | 0.746  |  |
| $R^2_{adj}$        | 0.626                 | 0.587    | 0.540  | 0.752                 | 0.763      | 0.746  |  |
| Constructs         | $f^2$ effect size for | or China |        | $f^2$ effect size for | or Germany |        |  |
|                    | COMP                  | LIKE     | SUSSAT | COMP                  | LIKE       | SUSSAT |  |
| ATTR               | 0.124                 | 0.161    |        | 0.144                 | 0.199      |        |  |
| COMP               |                       |          | 0.152  |                       |            | 0.157  |  |
| CSOR               | 0.004                 | 0.032    |        | 0.001                 | 0.028      |        |  |
| LIKE               |                       |          | 0.261  |                       |            | 0.568  |  |
| PERF               | 0.131                 | 0.009    |        | 0.144                 | 0.001      |        |  |
| QUAL               | 0.021                 | 0.026    |        | 0.027                 | 0.109      |        |  |

| Table 7 | $R^2$ | values | and | effect | sizes |
|---------|-------|--------|-----|--------|-------|
|         |       |        |     |        |       |

QUAL perceived quality, PERF perceived performance, CSOR perceived social responsibility, ATTR perceived attractiveness, LIKE perceived likeability, COMP perceived competence, SUSSAT sustainable satisfaction

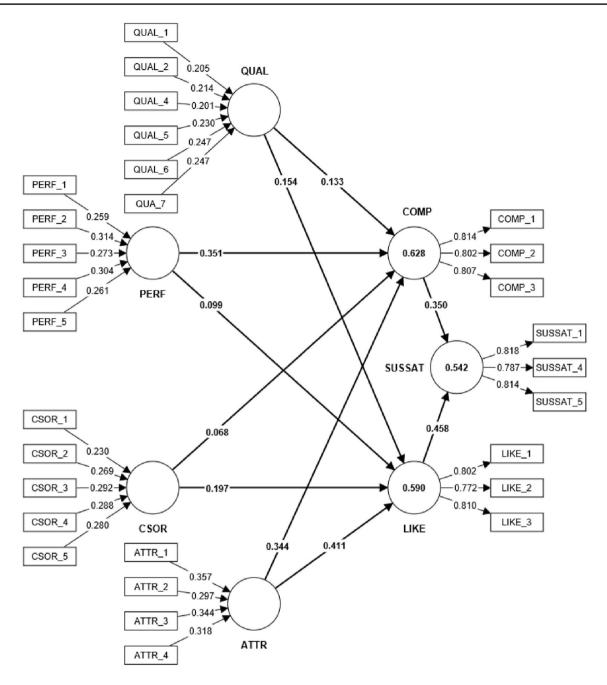
China and does not show significant results in the German sample;

- (3) CSOR is a driver of the affective corporate reputation dimension LIKE in both countries;
- (4) ATTR is an important driver of both the reputation dimensions in both countries and is slightly more important for LIKE than for COMP.

In addition, we find that increased levels of corporate reputation dimensions (i.e., COMP and LIKE) lead to higher SUSSAT levels in both cultures (Table 6). Interestingly, LIKE is more important in Germany than in China, whereas COMP is more important in China than in Germany. In line with these results, ATTR has the strongest indirect effect via LIKE on SUSSAT in both China and Germany (Table 6). Additionally, in the Germany sample, QUAL also has a strong indirect effect via LIKE on SUSSAT. These countryspecific outcomes reveal that the overall results are similar, but do not overlap completely. As an initial summary: the Chinese customer sample is more focused on the cognitive aspects and drivers, whereas the German customer sample tends to rate the affective dimensions higher.

Researchers use the PLS<sub>predict</sub> procedure to assess the model's predictive power further (Shmueli et al. 2016; Shmueli et al. 2019). In its original form, the PLS<sub>predict</sub> procedure uses early antecedent indicators to assess the predictive power. This, however, poses a particular challenge to models with mediators (Danks 2021). In our model, we focus on

SUSSAT, the key target construct. The relationships between the early antecedent constructs ATTR. CSOR. PERF. and QUAL are fully mediated by the corporate reputation dimensions COMP and LIKE (Eberl 2010; Schwaiger 2004). Consequently, we revert to the new cross-validated predictive ability test (CVPAT; Liengaard et al. 2021), which uses a direct antecedent's approach to assess a predictive model and compare the models. Specifically, we apply the predictive CVPAT model assessment that Sharma et al. (2023) propose. Table 8 shows the CVPAT results in respect of tenfolds and ten repetitions. We find that both models have a predictive power regarding the indicator average benchmark. We support this finding regarding the more conservative linear model benchmark in respect of China; however, in terms of the SUSSAT in the German sample, we find a positive average loss difference regarding the linear model benchmark. Consequently, the PLS-SEM results cannot surpass this more restrictive benchmark to assess the model's predictive capabilities. In summary, we fully confirm the model's predictive power in respect of China, but only partially (i.e., for the indicator average benchmark, but not for the linear model benchmark) in respect of Germany. Note that a  $PLS_{predict}$  cross-validation confirms this finding. While the results of SUSSAT's  $Q^2_{\text{predict}}$  are above zero in both samples, we determine their predictive relevance for the linear model (LM) benchmark and for the sample from China, but not for the sample from Germany (Table 11). Whatever the case, our results support their sufficient predictive power in respect of China, while the results in respect of Germany only offer limited predictive power.



**Fig. 2** PLS-SEM results in respect of China. *QUAL* perceived quality; *PERF* perceived performance; *CSOR* perceived corporate social responsibility; *ATTR* perceived attractiveness; *COMP* perceived competence; *LIKE* perceived likeability; *SUSSAT* sustainable satisfaction

We cannot undertake a PLS-SEM multigroup analysis of China and Germany, because we cannot determine the group's measurement model invariance (Hair et al. 2024). Consequently, we cannot test the differences in the path coefficients' statistical significance between these two groups. Nevertheless, we can qualitatively compare the differences in the country-specific path coefficients' magnitude. We do so using the IPMA (Hair et al., 2024; Ringle

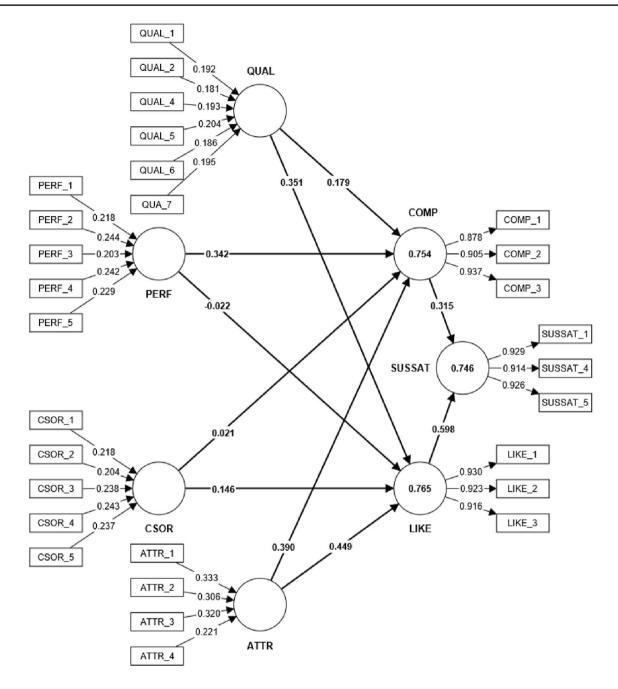


Fig. 3 PLS-SEM results in respect of Germany. QUAL perceived quality; PERF perceived performance; CSOR perceived corporate social responsibility; ATTR perceived attractiveness; COMP perceived competence; LIKE perceived likeability; SUSSAT sustainable satisfaction

and Sarstedt 2016), which has been applied in a variety of research contexts, including marketing (Liu et al. 2022). Figure 4 shows the IPMA results. The *x*-axis indicates the IPMA's overall effect on the key target construct, SUSSAT,

which represents its importance. The *y*-axis represents performance expressed as the average unstandardized construct score rescaled from 0 (low performance) to 100 (high performance).

#### Table 8 CVPAT results

| Constructs     | China                   |         | Germany                 |         |  |
|----------------|-------------------------|---------|-------------------------|---------|--|
|                | Average loss difference | p value | Average loss difference | p value |  |
| Indicator aver | rage (IA) benchm        | nark    |                         |         |  |
| COMP           | -0.540                  | 0.000   | -1.176                  | 0.000   |  |
| LIKE           | -0.622                  | 0.000   | -1.670                  | 0.000   |  |
| SUSSAT         | -0.461                  | 0.000   | -1.520                  | 0.000   |  |
| Overall        | -0.541                  | 0.000   | -1.455                  | 0.000   |  |
| Linear model   | (LM) benchmarl          | k       |                         |         |  |
| COMP           | -0.008                  | 0.471   | 0.017                   | 0.200   |  |
| LIKE           | 0.007                   | 0.680   | -0.020                  | 0.097   |  |
| SUSSAT         | -0.001                  | 0.938   | 0.077                   | 0.001   |  |
| Overall        | -0.001                  | 0.939   | 0.025                   | 0.015   |  |

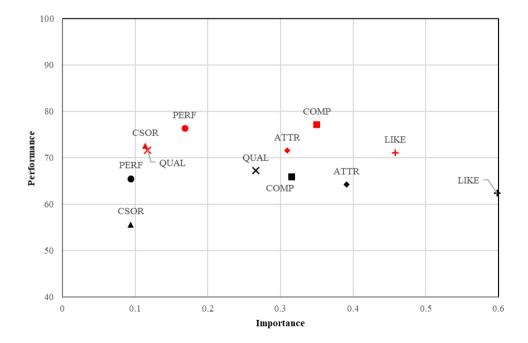
*LIKE* perceived likeability, *COMP* perceived competence, *SUSSAT* sustainable satisfaction

The IPMA results in Fig. 4 clearly show that, in respect of China, all of the constructs that affect SUSSAT show a higher performance. In respect of this country, the LIKE construct is clearly of the greatest importance for SUSSAT, followed by COMP and ATTR. The other constructs are of less importance. LIKE also has the greatest importance in the German sample, but this construct is followed by ATTR, COMP, and QUAL. While there is a large overlap in both countries' set of important constructs, LIKE is of far greater importance in Germany, while the QUAL construct clearly has additional relevance. In general, the IPMA results indicate that managers in both countries should focus on improving the LIKE construct, as it has greater importance with regard to increasing the SUSSAT levels. The second highest priority should be improving the ATTR and the COMP in both countries. QUAL only has the third highest priority in Germany.

#### Discussion

Our results show that, with two exceptions, we can confirm most of our hypotheses. The first exception is that higher levels of CSOR do not lead to higher levels in customerperceived reputation's (H3a) cognitive dimension in either China or Germany. One of the reasons for this result could be that commercial bank customers do not truly value CSR measures. A customer segment that does value this measure highly would rather choose another bank type, such as cooperative banks (Damberg et al. 2022). We could not confirm hypothesis H4b either, i.e., that, according to the German dataset, higher levels of ATTR do not lead to higher levels of customer-perceived reputation's affective dimension. Germany's low-context culture might explain this result. The outer appearance that leads to ATTR is not as relevant for LIKE, while a factor, such as the quality (of the relationship) with the bank, is. Two decades ago, Wang et al. (2003) already found that PERF was the most important driver of corporate reputation in China, especially in respect of COMP. With reference to Hall's context theory (Hall 1976; Hall and Hall 1990), which argues that people from different

Fig. 4 Importance-performance map analysis results (standardized). *Red color* China; *black* Germany. *QUAL* perceived quality; *PERF* perceived performance; *CSOR* perceived corporate social responsibility; *ATTR* perceived attractiveness; *COMP* perceived competence; *LIKE* perceived likeability; *SUSSAT* sustainable satisfaction. (Color figure online)



cultures might react differently to complex messages (Kim et al. 1998), we argue that these initial results revealed that people in high-context cultures rely on pre-established information, including unwritten traditional habits, self-evident values, and universally recognized behavior patterns in their society. Low-context cultures, on the other hand, emphasize rationality and logic, i.e., drawing logical conclusions based on rational practices and conveying precise information through clear language. In these cultures, people tend to include most of the information directly and try—as far as possible—to express their meaning fully through (textual) information. These cultures rarely hide information in the transmission process.

Interestingly, CSOR was not confirmed as a significant driver of bank reputation in either of the two countries. Regarding the reputation dimensions, LIKE is more important for building SUSSAT in Germany than in China. In addition, we found that QUAL is important for LIKE, but only for the sample of German commercial bank customers. This might be explained by taking commercial banks in China's state-owned nature into account. The homogenization of the banking segment has made it difficult for banking institutions to provide the quality of services required to retain consumers (Agarwal et al. 2010).

As mentioned above, Chinese bank customers value the cognitive aspects and drivers more, whereas German bank customers rate affective aspects higher. In terms of the indirect effect results, we could also see a difference between the Chinese and German subsamples, in that the indirect effect of perceived performance, perceived likeability, and sustainable customer satisfaction is significant for the Chinese subsample, but not the German one. This finding points to Chinese customers being more interested in performance-related aspects than in, for example, their relationship with the bank, which relates back to the cultural differences between low and high context societies.

Our model and its empirical results have implications from a theoretical, practical, and methodological perspective. From a theoretical perspective, we offer a simplified, but robust, model for future research to investigate the specific cultural similarities and differences in customer perceptions in low-context (China) and high-context (Germany) cultures. Scholars in the field of bank marketing could apply and extend our robust model further. The identified similarities and differences offer practitioners (i.e., marketing managers of internationally operating banks) insights, because we offer empirical evidence of their decision making in terms of building customer relationships in two different cultural settings. For example, Deutsche Bank operates in both cultures and might therefore need to adopt different communication strategies in terms of corporate reputation to ensure long-term customer satisfaction in each country.

These implications are part of the strategic decisions banks need to consider in a highly competitive international market, because (long-term) customer satisfaction is linked to the firm performance (Otto et al. 2020). To be more precise, in respect of bank managers and board members, this study's findings emphasize that LIKE is the most important aspect driving the SUSSAT of bank customers, which is, in turn, strongly driven by ATTR. Bank managers could address this by designing their stores, internet presence, and logos in line with customer preferences, thereby using a holistic approach to enhance the bank's corporate reputation (Balmer 1998).

From a methodological perspective, we validate the relationships in our model by using one target construct (i.e., SUSSAT) instead of two (i.e., satisfaction and loyalty, on which prior research normally focused), and confirm our developed model's explanatory and predictive power in two culturally diverse settings.

#### **Conclusions and future research**

Customer satisfaction and loyalty are a central research object in marketing since companies' success is rooted in these key elements (Fornell et al. 2006). The American Customer Satisfaction Index (ACSI) is one of the most important models to explain customer satisfaction and loyalty, as well as support analyses across different industries (Fornell et al. 1996, 2020). In addition, the related European customer satisfaction index (ECSI) model encourages comparisons of customer satisfaction's and loyalty's drivers of industries across countries (Cassel and Eklöf 2001; Eklöf and Westlund 2002; Johnson et al. 2002). Schwaiger's (2004) corporate reputation model does not generally explain customer satisfaction and loyalty; instead, it focuses exclusively on corporate reputation's relevance through its core dimensions COMP and LIKE, as well as on their central drivers to explain customer satisfaction and loyalty. Similar to the ACSI and ECSI models, the corporate reputation model's analysis and comparison across different industries and countries are also valuable and important research areas with high practical relevance (e.g., Carreras-Romero et al. 2019; Swoboda et al. 2016, 2017). With this study, we answer Damberg et al.'s (2022) research call to undertake future research and to not only make cross-country comparisons, but to also verify a robust research model that would further validate SUSSAT as a theoretically and methodologically useful measure for assessing long-term bank customer satisfaction. With this study, we verify a well-established reputation-satisfaction model with a long-term focus on the Chinese and German commercial banking sectors, which will ensure robust results.

Our study not only contributes to strategic bank marketing research, but also offers bank managers valuable support. On the one hand, we show ATTR is a specifically important driver of bank reputation in both China and Germany. On the other hand, we also confirm that, in both countries, the affective reputation dimension is more important for SUSSAT. Moreover, we apply the IPMA from a more practical perspective. The results indicate that bank managers might prioritize LIKE to enhance the SUSSAT construct. To improve LIKE's performance, bank managers should thereafter prioritize ATTR. In contrast, COMP improvements depend particularly strongly on the COMP construct. Managers should therefore give the highest priority to focusing on ATTR and COMP's performance improvements.

This research focuses on identifying the key drivers of customer-based reputation and SUSSAT in two culturally different countries. From a marketing perspective (Kemper et al. 2011), the cultural differences between China and Germany impact the perception of reputation and customer satisfaction (Zhang and Schwaiger 2009). This is also true of the banking sector. Understanding the differences in corporate reputation's relevance for SUSSAT could be useful for banks operating in both these countries or planning to expand internationally. Consequently, understanding and comparing corporate reputation's relevance in a country-specific context could help bank managers formulate effective strategies (Dolphin 2004) in order to maintain customer satisfaction and build a positive reputation in different markets. Our study confirms the extended corporate reputation model's relevance for both cultures. The results also suggest that there is a large overlap in the set of important constructs and identify ATTR as the most important driver of customer-perceived bank reputation. We also reveal the differences between the two countries in respect of certain constructs' relative importance, such as that of LIKE and QUAL. Our confirmation of the extended corporate reputation model's general applicability in culturally different countries and our insights into country-specific effects could be useful for banks in both countries when designing their marketing campaigns and communication strategies to target customers effectively.

Referring to Hall's context theory once again, we understand that different cultures have different contextual characteristics. There are many significant differences between Western (e.g., Germany) and Eastern (e.g., Chinese) cultures. The variety of influencing cultural aspects, such as a country's history, geography, customs, and values, all of which are covered in high- and low-context cultures, could, for example, explain these significant differences. According to Hall, the difference between lowand high-context cultures lies in their different ways of disseminating information. In low-context cultures, information dissemination is less dependent on the context and, instead, incorporated in a clear and concise language/communication. By adapting communication strategies that fit each cultural setting, commercial banks with a low degree of differentiation products could target specific consumer groups in their specific countries/cultures.

Future research could distinguish between the two countries' informal and formal institutional environments (see Schlägel and Sarstedt 2016). Furthermore, future research could relate to signaling theory and emphasize the signal fit's importance. In this context, signal fit would mean that the signals a bank sends match the reputation it endeavors to develop. Given the different cultural contexts in which the study was conducted, there might also be differences in the effects that the two corporate reputation dimensions have on SUSSAT, the target construct. Such future research results could be possible, because they show whether banks need to prioritize increasing their perceived competence or their perceived likability in order to improve their SUSSAT, which depends on the cultural context. Given the relationships between the four antecedents and corporate reputation's two dimensions, suggestions could subsequently be developed regarding how banks could ensure the signal fit in each of the two countries. Finally, future research could apply the SUSSAT model in other cultural settings. Marketing researchers could also gain additional insights by comparing different industries, which the ACSI model data could provide (Fornell et al. 1996, 2020). Finally, future research could extend the model to include additional important target variables (e.g., bank performance).

#### Appendix

See Tables 9, 10, 11.

Table 9 Demographics

| Sample criteria                            | China (n)  | China (%)  | Germany (n) | Germany (%) |
|--|------------|------------|-------------|-------------|
| Gender                                     |            |            |             |             |
| Male                                       | 302        | 41.1       | 301         | 48.2        |
| Female                                     | 432        | 58.9       | 322         | 51.6        |
| Diverse                                    | 0          | 0          | 1           | 0.2         |
| Age  |            |            |             |             |
| 18–24                                      | 137        | 18.7       | 18          | 2.9         |
| 24–34                                      | 336        | 45.7       | 70          | 11.2        |
| 35–44                                      | 188        | 25.6       | 97          | 15.5        |
| 45–54                                      | 58         | 7.9        | 136         | 21.8        |
| 55–65                                      | 13         | 1.8        | 182         | 29.2        |
| >65  | 2          | 0.3        | 121         | 19.4        |
| Living status                              |            |            |             |             |
| Preferred not to answer                    | 0          | 0.0        | 4           | 0.6         |
| Living alone                               | 176        | 24.0       | 145         | 23.2        |
| Living with a partner                      | 41         | 5.6        | 89          | 14.3        |
| Registered civil partnership               | 0          | 0.0        | 3           | 0.5         |
| Married                                    | 497        | 67.7       | 283         | 45.4        |
| Divorced                                   | 15         | 2.0        | 75          | 12.0        |
| Widowed                                    | 5          | 0.7        | 25          | 4.0         |
| Education (highest level)                  |            |            |             |             |
| Preferred not to answer                    | 0          | 0.0        | 0           | 0.0         |
| No education                               | 0          | 0.0        | 1           | 0.2         |
| "Hauptschule" (finished 9th grade)         | 60         | 8.2        | 34          | 5.5         |
| "Mittlere Reife" (finished 10th grade)     | 0          | 0.0        | 126         | 20.1        |
| "Fachhochschulreife" (finished 12th grade) | 67         | 9.1        | 28          | 4.5         |
| Abitur (high school diploma)               | 0          | 0.0        | 20<br>77    | 12.3        |
| Ausbildung                                 | 0          | 0.0        | 180         | 28.9        |
| University degree                          | 607        | 82.7       | 178         | 28.5        |
| Occupational status                        | 007        | 02.7       | 170         | 20.5        |
| Preferred not to answer                    | 0          | 0.0        | 8           | 1.3         |
| Unemployed                                 | 16         | 2.0        | 25          | 4.0         |
| Retired                                    | 6          | 1.0        | 190         | 30.5        |
| Houseman/housewife                         | 29         | 4.0        | 23          | 3.7         |
| In education                               | 8          | 4.0<br>1.0 | 6           | 0.9         |
| Student studying at a university           | 8<br>68    | 9.3        | 13          | 2.1         |
|  |            |            |             |             |
| Self-employed                              | 62<br>5.45 | 8.4        | 42          | 6.7         |
| Employed                                   | 545        | 74.3       | 317         | 50.8        |
| Monthly household income (after taxes)     | 0          | 0.0        | (2)         | 10.0        |
| Preferred not to answer                    | 0          | 0.0        | 62<br>22    | 10.0        |
| <750EUR/1000CNY                            | 59<br>52   | 8.0        | 32          | 5.1         |
| 750–1250/EUR1000–2000CNY                   | 53         | 7.2        | 92          | 14.7        |
| 1250–2000/EUR2000–3000CNY                  | 55         | 7.5        | 155         | 24.8        |
| 2000–3500/EUR3000–5000CNY                  | 162        | 22.1       | 167         | 26.8        |
| 3500-5000/EUR5000-10,000CNY                | 265        | 36.1       | 85          | 13.6        |
| >5000EUR/10,000CNY                         | 140        | 19.1       | 31          | 5.0         |

| Independent constructs | China  |       |                | Germany | Germany |         |  |  |
|------------------------|--------|-------|----------------|---------|---------|---------|--|--|
|                        | SUSAT* | CI    | <i>p</i> value | SUSAT*  | CI      | p value |  |  |
| СОМР                   | 0.298  | 0.11  | 0.000          | 0.197   | 0.016   | 0.000   |  |  |
| LIKE                   | 0.134  | 0.07  | 0.000          | 0.133   | 0       | 0.000   |  |  |
| Independent constructs | China  |       |                | Germany |         |         |  |  |
|                        | COMP*  | CI    | <i>p</i> value | COMP*   | CI      | p value |  |  |
| ATTR                   | 0.191  | 0.122 | 0.000          | 0.237   | 0.032   | 0.000   |  |  |
| CSOR                   | 0.213  | 0.083 | 0.000          | 0.109   | 0.019   | 0.000   |  |  |
| PERF                   | 0.329  | 0.109 | 0.000          | 0.233   | 0.04    | 0.000   |  |  |
| QUAL                   | 0.158  | 0.055 | 0.000          | 0.244   | 0.035   | 0.000   |  |  |
| Independent constructs | China  |       |                | Germany |         |         |  |  |
|                        | LIKE*  | CI    | <i>p</i> value | LIKE*   | CI      | p value |  |  |
| ATTR                   | 0.227  | 0.126 | 0.000          | 0.295   | 0.032   | 0.000   |  |  |
| CSOR                   | 0.178  | 0.108 | 0.000          | 0.108   | 0.019   | 0.000   |  |  |
| PERF                   | 0.250  | 0.139 | 0.000          | 0.212   | 0.043   | 0.000   |  |  |
| QUAL                   | 0.163  | 0.076 | 0.000          | 0.328   | 0.035   | 0.000   |  |  |

Table 10 Necessary condition analysis results of the CR-FDH ceiling line

*CI* 95% permutation confidence interval (one-sided, 10,000 permutations), *QUAL* perceived quality, *PERF* perceived performance, *CSOR* perceived social responsibility, *ATTR* perceived attractiveness, *COMP* perceived competence, *LIKE* perceived likeability, *SUSSAT* sustainable satisfaction

\*Dependent construct

Table 11 PLS<sub>predict</sub> results of the target construct (SUSSAT)

| $Q^2_{\rm predict}$ | RMSE <sub>PLS</sub>                       | RMSE <sub>LM</sub>  | RMSE-<br><sub>PLS</sub> – RMSE <sub>LM</sub>  |
|---------------------|---|---|---|
|                     |   |   |   |
| 0.415               | 0.868                                     | 0.839   | 0.029   |
| 0.278               | 0.980                                     | 0.992   | -0.012  |
| 0.313               | 1.024                                     | 1.039   | -0.015  |
|                     |   |   |   |
| 0.652               | 0.865                                     | 0.785   | 0.080   |
| 0.565               | 0.936                                     | 0.892   | 0.044   |
| 0.668               | 1.001                                     | 0.991   | 0.010   |
|                     | 0.415<br>0.278<br>0.313<br>0.652<br>0.565 | 0.415         0.868           0.278         0.980           0.313         1.024           0.652         0.865           0.565         0.936 | 0.415         0.868         0.839           0.278         0.980         0.992           0.313         1.024         1.039           0.652         0.865         0.785           0.565         0.936         0.892 |

*RMSE* root-mean square error, *LM* linear model, *SUSSAT* sustainable satisfaction

Acknowledgements This research uses the statistical software Smart-PLS 4 (https://www.smartpls.com/). Christian M. Ringle acknowledges a financial interest in SmartPLS.

**Funding** Open Access funding enabled and organized by Projekt DEAL. This study was funded by the Förderverein Industrielles Management (FIM) e.V. and the Macau University of Science and Technology (Grant No. FRG-22-095-INTF).

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#### References

- Agarwal, J., N.K. Malhotra, and R.N. Bolton. 2010. A cross-national and cross-cultural approach to global market segmentation: An application using consumers' perceived service quality. *Journal* of International Marketing 18: 18–40.
- Ali, R., R. Lynch, T. Melewar, and Z. Jin. 2015. The moderating influences on the relationship of corporate reputation with its antecedents and consequences: A meta-analytic review. *Journal of Business Research* 68: 1105–1117.
- Balmer, J.M. 1998. Corporate identity and the advent of corporate marketing. *Journal of Marketing Management* 14: 963–996.
- Bartmann, D., M. Nirschl, and A. Peters. 2013. *Retail banking*. Frankfurt: Frankfurt School Verlag.
- Becker, J.-M., J.H. Cheah, R. Gholamzade, C.M. Ringle, and M. Sarstedt. 2023. PLS-SEM's most wanted guidance. *International Journal of Contemporary Hospitality Management* 35: 321–346.
- Boonlertvanich, K. 2019. Service quality, satisfaction, trust, and loyalty: The moderating role of main-bank and wealth status. *International Journal of Bank Marketing* 37: 278–302.
- Bugandwa, T.C., E.B. Kanyurhi, D. Bugandwa Mungu Akonkwa, and B. Haguma Mushgo. 2021. Linking corporate social responsibility to trust in the banking sector: Exploring disaggregated relations. *International Journal of Bank Marketing* 39: 592–617.

- Bundesbank, D. 2021. Marktanteile der Bankengruppen in Deutschland nach dem Geschäftsvolumen im Jahr 2020. https://de.statista.com/ statistik/daten/studie/161141/umfrage/marktanteile-vonbankeng ruppen-in-deutschland-nach-geschaeftsvolumen/#professional. Accessed 17 July 2023.
- Carreras-Romero, E., A. Carreras-Franco, and Á. Alloza-Losada. 2019. The reputation of companies across different countries: Some keys to validating the comparison of results. In *Global aspects of reputation and strategic management*, vol. 18, ed. D.L. Deephouse, N.A. Gardberg, and W. Newburry. Bingley: Emerald Publishing Limited.
- Cassel, C., and J.A. Eklöf. 2001. Modelling customer satisfaction and loyalty on aggregate levels: Experience from the ECSI pilot study. *Total Quality Management* 12: 834–841.
- Chakrabarty, A. 2004. Barking up the wrong tree-factors influencing customer satisfaction in retail banking in the UK. *International Journal of Applied Marketing* 3: 39–57.
- Chin, W., J.-H. Cheah, Y. Liu, H. Ting, X.-J. Lim, and T.H. Cham. 2020. Demystifying the role of causal-predictive modeling using partial least squares structural equation modeling in information systems research. *Industrial Management & Data Systems* 120: 2161–2209.
- Colgate, M., and R. Hedge. 2001. An investigation into the switching process in retail banking services. *International Journal of Bank Marketing* 19: 201–212.
- Cook, D.R., and L. Forzani. 2023. On the role of partial least squares in path analysis for the social sciences. *Journal of Business Research* 167: 114132.
- Damberg, S. 2021. Wahrgenommene Reputation der Genossenschaftsbanken und nachhaltige Zufriedenheit ihrer Mitglieder-Kunden in Deutschland. Zeitschrift für das gesamte Genossenschaftswesen 71: 70–89.
- Damberg, S., M. Schwaiger, and C.M. Ringle. 2022. What's important for relationship management? The mediating roles of relational trust and satisfaction for loyalty of cooperative banks' customers. *Journal of Marketing Analytics* 10: 3–18.
- Danks, N. 2021. The piggy in the middle: The role of mediators in PLS-SEM-based prediction. ACM SIGMIS Database: The DATA-BASE for Advances in Information Systems 52: 24–42.
- Dash, G., and J. Paul. 2021. CB-SEM vs PLS-SEM methods for research in social sciences and technology forecasting. *Technological Forecasting and Social Change* 173: 121092.
- Dolphin, R.R. 2004. Corporate reputation—A value creating strategy. Corporate Governance: The International Journal of Business in Society 4: 77–92.
- Dong, J., L. Yin, X. Liu, M. Hu, X. Li, and L. Liu. 2020. Impact of internet finance on the performance of commercial banks in China. *International Review of Financial Analysis* 72: 101579.
- Dul, J. 2016. Necessary Condition Analysis (NCA): Logic and methodology of "necessary but not sufficient" causality. *Organizational Research Methods* 19: 10–52.
- Dul, J. 2020. Conducting necessary condition analysis. London: Sage.
- Eberl, M. 2010. An application of PLS in multi-group analysis: The need for differentiated corporate-level marketing in the mobile communications industry. In *Handbook of partial least squares: Concepts, methods and applications (Springer handbooks of computational statistics series, vol. II)*, ed. V. Esposito Vinzi, W.W. Chin, J. Henseler, and H. Wang, 487–514. Heidelberg, Dordrecht, London, New York: Springer.
- Eklöf, J.A., and A.H. Westlund. 2002. The pan-European customer satisfaction index program: Current work and the way ahead. *Total Quality Management* 13: 1099–1106.
- Englert, M.R., C. Koch, and J. Wüstemann. 2020. The effects of financial crisis on the organizational reputation of banks: An empirical analysis of newspaper articles. *Business & Society* 59: 1519–1553.

- Fornell, C.G., M.D. Johnson, E.W. Anderson, J. Cha, and B.E. Bryant. 1996. The American Customer Satisfaction Index: Nature, purpose, and findings. *Journal of Marketing* 60: 7–18.
- Fornell, C.G., S. Mithas, F.V. Morgeson, and M.S. Krishnan. 2006. Customer satisfaction and stock prices: High returns, low risk. *Journal of Marketing* 70: 3–14.
- Fornell, C., F.V. Morgeson, G.T.M. Hult, and D. VanAmburg. 2020. The reign of the customer: Customer-centric approaches to improving satisfaction. Cham: Palgrave Macmilla.
- Franke, G., and M. Sarstedt. 2019. Heuristics versus statistics in discriminant validity testing: A comparison of four procedures. *Internet Research* 29: 430–447.
- Gray, E.R., and J.M. Balmer. 1998. Managing corporate image and corporate reputation. *Long Range Planning* 31: 695–702.
- Guenther, P., M. Guenther, C.M. Ringle, G. Zaefarian, and S. Cartwright. 2023. Improving PLS-SEM use for business marketing research. *Industrial Marketing Management* 111: 127–142.
- Hair, J.F., T.M. Hult, C.M. Ringle, and M. Sarstedt. 2022. A primer on partial least squares structural equation modeling (PLS-SEM), 3rd ed. Thousand Oaks: Sage.
- Hair, J.F., J.J. Risher, M. Sarstedt, and C.M. Ringle. 2019. When to use and how to report the results of PLS-SEM. *European Business Review* 31: 2–24.
- Hair, J.F., M. Sarstedt, C.M. Ringle, and S.P. Gudergan. 2024. Advanced issues in partial least squares structural equation modeling, 2nd ed. Thousand Oakes: Sage.
- Hall, E.T. 1976. Beyond culture. New York: Doubleday.
- Hall, E.T., and M.R. Hall. 1990. Understanding cultural differences: Key to success in West Germany, France, and the United States. Yarmouth: Intercultural Press.
- Henseler, J., C.M. Ringle, and M. Sarstedt. 2015. A new criterion for assessing discriminant validity in variance-based structural equation modeling. *Journal of the Academy of Marketing Science* 43: 115–135.
- Höck, C., C.M. Ringle, and M. Sarstedt. 2010. Management of multipurpose stadiums: Importance and performance measurement of service interfaces. *International Journal of Services Technology* and Management 14: 188–207.
- Hopkinson, G.G., D. Klarova, R. Turcan, and V. Gulieva. 2019. How neobanks' business models challenge traditional banks. https:// www.ibc.aau.dk/collaboration/Young+Graduate+News/.
- Johnson, M.D., A. Herrmann, and A. Gustafsson. 2002. Comparing customer satisfaction across industries and countries. *Journal* of Economic Psychology 23: 749–769.
- Kemper, J., A. Engelen, and M. Brettel. 2011. How top management's social capital fosters the development of specialized marketing capabilities: A cross-cultural comparison. *Journal* of International Marketing 19: 87–112.
- Kim, D., Y. Pan, and H.S. Park. 1998. High-versus low-context culture: A comparison of Chinese, Korean, and American cultures. *Psychology & Marketing* 15: 507–521.
- Kock, N., and P. Hadaya. 2018. Minimum sample size estimation in PLS-SEM: The inverse square root and gamma-exponential methods. *Information Systems Journal* 28: 227–261.
- Kocyigit, O., and C.M. Ringle. 2011. The impact of brand confusion on sustainable brand satisfaction and private label proneness: A subtle decay of brand equity. *Journal of Brand Management* 19: 195–212.
- Li, F., H. Lu, M. Hou, K. Cui, and M. Darbandi. 2021. Customer satisfaction with bank services: The role of cloud services, security, e-learning and service quality. *Technology in Society* 64: 101487.
- Liu, Y., C. Yu, and S. Damberg. 2022. Exploring the drivers and consequences of the "awe" emotion in outdoorsports–a study using the latest partial least squares structural equation modeling technique

and necessary condition analysis. *International Journal of Sports Marketing and Sponsorship* 23 (2): 278–294.

- Liengaard, B.D., P.N. Sharma, G.T.M. Hult, M.B. Jensen, M. Sarstedt, J.F. Hair, and C.M. Ringle. 2021. Prediction: Coveted, yet forsaken? Introducing a cross-validated predictive ability test in partial least squares path modeling. *Decision Sciences* 52: 362–392.
- Lohmöller, J.-B. 1989. *Latent variable path modeling with partial least squares*. Heidelberg: Physica.
- Manrai, L.A., and A.K. Manrai. 2007. A field study of customers' switching behavior for bankservices. *Journal of Retailing and Consumer Services* 14: 208–215.
- Nienaber, A.-M., M. Hofeditz, and R.H. Searle. 2014. Do we bank on regulation or reputation? A meta-analysis and meta-regression of organizational trust in the financial services sector. *International Journal of Bank Marketing* 32: 367–407.
- Otto, A.S., D.M. Szymanski, and R. Varadarajan. 2020. Customer satisfaction and firm performance: Insights from over a quarter century of empirical research. *Journal of the Academy of Marketing Science* 48: 543–564.
- Petter, S., and Y. Hadavi. 2021. With great power comes great responsibility: The use of partial least squares in information systems research. ACM SIGMIS Database: The DATABASE for Advances in Information Systems 52: 10–23.
- Raithel, S., and M. Schwaiger. 2015. The effects of corporate reputation perceptions of the general public on shareholder value. *Strategic Management Journal* 36: 945–956.
- Richter, N.F., S. Schubring, S. Hauff, C.M. Ringle, and M. Sarstedt. 2020. When predictors of outcomes are necessary: Guidelines for the combined use of PLS-SEM and NCA. *Industrial Management* & Data Systems 120: 2243–2267.
- Richter, N.F., R.R. Sinkovics, C.M. Ringle, and C. Schlägel. 2016. A critical look at the use of SEM in international business research. *International Marketing Review* 33: 376–404.
- Ringle, C.M., and M. Sarstedt. 2016. Gain more insight from your PLS-SEM results: The importance-performance map analysis. *Industrial Management & Data Systems* 116: 1865–1886.
- Ringle, C.M., M. Sarstedt, N. Sinkovics, and R.R. Sinkovics. 2023. A perspective on using partial least squares structural equation modelling in data articles. *Data in Brief* 48: 109074.
- Ringle, C.M., S. Wende, and J.-M. Becker. 2022. SmartPLS 4. Oststeinbek: SmartPLS.
- Russo, D., and K.-J. Stol. 2023. Don't throw the baby out with the bathwater: Comments on "Recent developments in PLS." Communications of the Association for Information Systems 52: 700–704.
- Santonen, T. 2007. Price sensitivity as an indicator of customer defection in retail banking. *International Journal of Bank Marketing* 25 (1): 39–55.
- Sarstedt, M., and J.H. Cheah. 2019. Partial least squares structural equation modeling using SmartPLS: A software review. *Journal of Marketing Analytics* 7: 196–202.
- Sarstedt, M., J.F. Hair, J.-H. Cheah, J.-M. Becker, and C.M. Ringle. 2019. How to specify, estimate, and validate higher-order constructs in PLS-SEM. *Australasian Marketing Journal* 27: 197–211.
- Sarstedt, M., J.F. Hair, M. Pick, B.D. Liengaard, L. Radomir, and C.M. Ringle. 2022. Progress in partial least squares structural equation modeling use in marketing research in the last decade. *Psychology* & *Marketing* 39: 1035–1064.
- Sarstedt, M., J.F. Hair, and C.M. Ringle. 2023a. "PLS-SEM: Indeed a silver bullet"—Retrospective observations and recent advances. *Journal of Marketing Theory & Practice* 31: 261–275.
- Sarstedt, M., C.M. Ringle, J.-H. Cheah, H. Ting, O.I. Moisescu, and L. Radomir. 2020. Structural model robustness checks in PLS-SEM. *Tourism Economics* 26: 531–554.
- Sarstedt, M., C.M. Ringle, and J.F. Hair. 2021. Partial least squares structural equation modeling. In *Handbook of market research*,

ed. C. Homburg, M. Klarmann, and A.E. Vomberg, 1–47. Cham: Springer.

- Sarstedt, M., C.M. Ringle, and D. Iuklanov. 2023b. Antecedents and consequences of corporate reputation: A dataset. *Data in Brief* 48: 109079.
- Sarstedt, M., and M.P. Schloderer. 2010. Developing a measurement approach for reputation of non-profit organizations. *International Journal of Nonprofit & Voluntary Sector Marketing* 15: 276–299.
- Schlägel, C., and M. Sarstedt. 2016. Assessing the measurement invariance of the four-dimensional cultural intelligence scale across countries: A composite model approach. *European Management Journal* 34: 633–649.
- Schloderer, M.P., M. Sarstedt, and C.M. Ringle. 2014. The relevance of reputation in the nonprofit sector: The moderating effect of sociodemographic characteristics. *International Journal of Nonprofit* and Voluntary Sector Marketing 19: 110–126.
- Schuberth, F., M.E. Rademaker, and J. Henseler. 2023. Assessing the overall fit of composite models estimated by partial least squares path modeling. *European Journal of Marketing* 57: 1678–1702.
- Schwaiger, M. 2004. Components and parameters of corporate reputation—An empirical study. *Schmalenbach Business Review* 56: 46–71.
- Schwaiger, M., S. Raithel, and M.P. Schloderer. 2009. Recognition or rejection: How a company's reputation influences stakeholder behavior. In *Reputation capital: Building and maintaining trust in the 21st century*, ed. J. Klewes and R. Wreschniok. Berlin, Heidlberg: Springer.
- Schwaiger, M., A. Witmaier, T. Morath, and G. Hufnagel. 2021. Drivers of corporate reputation and its differential impact on customer loyalty. *Marketing ZFP – Journal of Research and Management* 41: 3–27.
- Sharma, P.N., B.D. Liengaard, J.F. Hair, M. Sarstedt, and C.M. Ringle. 2023. Predictive model assessment and selection in compositebased modeling using PLS-SEM: Extensions and guidelines for using CVPAT. *European Journal of Marketing* 57: 1662–1677.
- Shmueli, G., S. Ray, J.M. Velasquez Estrada, and S.B. Chatla. 2016. The elephant in the room: Evaluating the predictive performance of PLS Models. *Journal of Business Research* 69: 4552–4564.
- Shmueli, G., M. Sarstedt, J.F. Hair, J.-H. Cheah, H. Ting, S. Vaithilingam, and C.M. Ringle. 2019. Predictive model assessment in PLS-SEM: Guidelines for using PLSpredict. *European Journal* of Marketing 53: 2322–2347.
- Sweeney, J., and J. Swait. 2008. The effects of brand credibility on customer loyalty. *Journal of Retailing and Consumer Services* 15: 179–193.
- Swoboda, B., C. Huber, T. Schuster, and J. Hirschmann. 2017. Corporate reputation effects across nations: The impact of country distances and firm-specific resources. *Management International Review* 57: 717–748.
- Swoboda, B., C. Puchert, and D. Morschett. 2016. Explaining the differing effects of corporate reputation across nations: A multilevel analysis. *Journal of the Academy of Marketing Science* 44: 454–473.
- Tseng, M.L., T.D. Bui, S. Lan, M.K. Lim, and A.H.M. Mashud. 2021. Smart product service system hierarchical model in banking industry under uncertainties. *International Journal of Production Economics* 240: 108244.
- Vives, X. 2017. The impact of FinTech on banking. *European Economy* 2: 97–105. https://blog.iese.edu/xvives/files/2018/02/EE\_2.2017. pdf
- Walsh, G., and S.E. Beatty. 2007. Customer-based corporate reputation of a service firm: Scale development and validation. *Journal of the Academy of Marketing Science* 35: 127–143.
- Wang, Y., H.P. Lo, and Y.V. Hui. 2003. The antecedents of service quality and product quality and their influences on bank reputation:

Evidence from the banking industry in China. *Managing Service Quality: An International Journal* 13: 72–83.

- Wold, H. 1982. Soft modeling: The basic design and some extensions. In Systems under indirect observations: Part II, ed. K.G. Jöreskog and H. Wold, 1–54. Amsterdam: North-Holland.
- Zhang, Y., and M. Schwaiger. 2009. An empirical research of corporate reputation in China. Schriften zur marktorientierten Unternehmensführung 4: 80–104.
- Zhang, Y., and M. Schwaiger. 2012. A comparative study of corporate reputation between China and developed Western countries. In *Handbook of research on international advertising*, 353–375. Cheltenham: Edward Elgar Publishing.

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