Patterns of inconsistency: a literature review of empirical studies on the multinationality– performance relationship

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Abstract

Purpose – This study aims to understand the performance implications of when a business internationalizes. Many managers take the performance implications of internationalization for granted. Whether seeking a broader customer base or cost reduction through cross-border outsourcing, the overwhelming belief is that internationalization leads to higher profits.

Design/methodology/approach – This paper offers a systematic review, content analysis and cross-tabulation analysis of 115 empirical studies from over 40 major journals in management, strategy and international business between 1977 and 2021. Focusing on research settings, sample characteristics, underlying theoretical approaches, measurements of key variables and moderators influencing the multinationality and performance relationship, this study offers a detailed account of definitions and effects.

Findings – The findings of this study suggest a tenuous connection between internationalization and performance. No strain of research literature conclusively identifies a consistent direct path from internationalization to performance. The context specificity of the relationship makes general declarations impossible.

Research limitations/implications – Future researchers should recognize that internationalization is a process taking different forms, with no specific dominant form. General declarations are misleading. The focus should be on the process of internationalization rather than on the outcome.

Originality/value – This study contributes to the international business literature by exploring reasons for the inconsistent results and lack of consensus. Through a detailed account of definitions and effects, this paper explores the lack of consensus as well as the identified shapes of the relationship.

Keywords Literature review, Internationalization, Multinationality, Context, Performance, Geographic diversification, Moderators

Paper type Literature review

1. Introduction

A substantial body of research in international business, strategy and general management is devoted to understanding firm internationalization. In this paper, understanding the

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critical perspectives on international business Vol. 19 No. 2, 2023 pp. 253-298 Emerald Publishing Limited 1742-2043 DOI 10.1108/cpoib-06.2021-0051 performance implications of internationalization is of particular interest. Over the past half century, research on the relationship between firm multinationality and performance has been growing steadily, and given the increase in internationalization activities, it is seen as a seminal issue in strategic management (Hitt *et al.*, 2006; Kirca *et al.*, 2011). The term "multinationality" is frequently used to describe the spread of a firm's international activities and refers to *the extent of value-adding activities conducted outside its home country* (cf. Hitt *et al.*, 2006; Lu and Beamish, 2004). In concrete terms, it is the extent of investment and/or control of assets and activities outside of the home market (Cantwell and Sanna-Randaccio, 1993; Teece, 1981). Multinationality measurements can be broadly divided into either scale or scope metrics (Rugman and Oh, 2011). There were only a few studies published prior to 1996 on the relationship between multinationality and performance, after which publication frequency increased dramatically.

Several theoretical perspectives, such as resource-based theory, internalization theory and organizational learning theory, offer explanations for the increased engagement in international activity. Two main arguments are that internationalization offers: increased strategic flexibility; and scale economies (Gaur *et al.*, 2011).

In addition, international expansion is argued to enable firms to acquire cheaper resources, reduce capital costs and diversify operations geographically (Benito, 2015; Dunning, 1993; Sapienza *et al.*, 2006). This, in turn, reduces risk and increases leverage. Together, these benefits are argued to have a positive effect on firm performance because they lower total costs and increase productivity (Yang and Driffield, 2012). The internationalization process also involves additional costs to a firm. International expansion generates a more complex and culturally diverse organization that is difficult to manage (Lu and Beamish, 2004). Early stages of the internationalization process are risky and carry high learning costs. Together, these costs have a negative effect on firm performance.

The contradictory outcomes of firm internationalization have triggered the interest for explaining the multinationality and performance (M–P) relationship, yet despite the large body of empirical research, results are inconclusive. Authors have found strong support for a *positive linear* relationship (Grant, 1987; Kim *et al.*, 1989; Kotabe *et al.*, 2002), a *negative linear* relationship (Michel and Shaked, 1986; Powell, 2014; Singla and George, 2013), a *U-shaped* relationship (Capar and Kotabe, 2003; Contractor *et al.*, 2007; Lu and Beamish, 2001), an *inverted U-shaped* (Geringer *et al.*, 1989; Hitt *et al.*, 1997; Tallman and Li, 1996), an *S-shaped* relationship (Contractor *et al.*, 2003; Lu and Beamish, 2004; Ruigrok *et al.*, 2007), an *M-shaped* relationship (Almodóvar, 2012; Almodóvar and Rugman, 2014; Lee, 2010) and a *W-shaped* relationship at all (Hennart, 2007; Rugman *et al.*, 2016). These inconclusive results suggest that we are far from reaching consensus on understanding the M–P relationship, and that additional empirical studies on the subject might not be the way forward, but rather to try to find the answers in the vast number of existing studies.

Tallman and Pedersen (2012, p. 313) highlight that the topic of multinationality and performance is, "[O]ne of the mainstays of studies of multinational enterprises and their strategies yet they remain disappointed by the fact that the 'empirical results [in previous studies] have largely been disappointing, perplexing, and inconclusive". Contractor *et al.* (2007) speak of previous findings as contradictory and Hennart (2007) calls them disappointing. The diversity in the results is claimed to be attributed to underlying theories (Wiersema and Bowen, 2011), measures (Rugman and Oh, 2010, p. 484; Verbeke and Forootan, 2012), sampling issues, availability of data or how the M–P relationship is moderated. We suggest that one important step forward in finding possible explanations for the incongruent results is within the vast number of existing studies and not by conducting

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yet another empirical study as there is reasons to suspect that it will only be another study with inconclusive results. In this paper, we analyze almost half a century of M–P literature, searching for patterns in the empirical studies to possibly bring clarity into why the results diverge. Through a detailed account of definitions and effects, the paper explores reasons for inconsistent results and lack of consensus within and across research streams as well as in relation to the identified shapes of the relationship. Consequently, we question the dominant academic discourse in international business focused on finding support for a relationship between internationalization and performance outcomes. It may well be futile to continue on the same path, testing new measures and moderators in pursuit of an explanation.

The paper offers a systematic review and content analysis of the international business, strategy and general management literatures, analyzing 115 empirical studies from 42 major journals between 1977 and 2021, with focus on:

- · research settings;
- · measurements of key variables;
- underlying theoretical approaches; and
- moderators influencing the M-P relationship.

By providing a systematic overview of M–P studies in the fields of international business, strategy and general management, this literature review also differs from existing review articles (Annavarjula and Beldona, 2000; Li, 2007; Nguyen, 2017; Nguyen and Kim, 2020; Sullivan, 1994) in multiple ways. First, one major contribution is to summarize and present moderators used to study the relationship between multinationality and performance. This has implications for questioning the direction of the causal link between multinationality and performance. Second, it illustrates and critically discusses the influence that different research settings, measurements, theoretical assumptions and moderators have on the M–P relationship. Third, it encompasses the most relevant empirical studies published over the past 44 years (i.e. since the start of the Uppsala School of Internationalization), investigating key constructs, measures, samples, major findings and analytical methods, making it the most recent and most comprehensive review so far.

2. Research methodology

The starting point for the systematic literature review and content analysis was a Boolean search in the *Web of Science* and *Business Source Premier* databases for peer-reviewed articles, using the self-constructed search string [(multinational* OR international*) AND performance]. The search was limited to the publication period between 1977 and 2021, and to journals in the fields of international business, general management and strategy that were rated 2, 3 or 4 in the Chartered Association of Business Schools Academic Journal Guide 2015. This was followed by an issue by issue search in the same fields in all 61 journals to ensure that no articles were overlooked. Appendix 1 presents an overview of the selected journals, as well as an indication of initial hits and articles included in this literature review.

Multinationality, internationality and performance are popular terms, especially within the international business literature and are often referred to or used for argumentation without defining or measuring the concepts. As the focus of this literature review is the relationship between the two concepts multinationality and performance, it is important that they were key concepts in the articles. As authors tend to mention their key concepts in the title, and to avoid an overly large and irrelevant sample of academic papers, the search was limited to the title of the article. This resulted in 491 articles. As some authors refer to multinationality or internationality as regional or geographic diversification, an additional Patterns of inconsistency

CPOIB Boolean search in both databases and an issue-by-issue search in the selected journals was done with the self-constructed search string $\int ((region^* OR geographic^*) diversification) AND$ 19.2 *performance*] and the same limitations. This resulted in 152 additional articles. Moreover, to capture the variety in vocabulary used to describe multinational firms, a third Boolean search in both databases and an issue-by-issue search in the selected journals was done with the self-constructed search string [(transnational* OR "born global*") AND performance], applying the same limitations as above. This resulted in 11 additional articles. As the search strings could overlap, all articles were downloaded into a citation management system and checked for duplicates. Duplicates were deleted, resulting in a sample of 654 unique scholarly articles.

The articles were confronted with a set of predefined exclusion criteria. Following Sinkovics and Reuber (2021), a search protocol with a detailed account of the exclusion criteria can be found in Appendix 2. First, both multinationality and performance had to be key variables in the study, excluding those studies where, for example, one of the concepts was used as a control variable. Second, studies included in the literature review had to measure corporate performance, meaning that those studies measuring either:

- different kinds of performance (such as corporate social performance or environmental performance); or
- the unit of analysis was not on a firm level (e.g. subsidiary performance) were excluded from the study.

Third, studies had to undergo a qualitative assessment by the researcher about their relevance for the literature review. For example, a study by Jean et al. (2015) fulfilled the previous criteria, but focused its analysis on the customer-supplier relationship. Consequently, a number of studies could not be included in the final sample because:

- either multinationality or performance were used as a moderator or control variable (-16 articles);
- different kinds of performance were measured (-110 articles);
- performance was not measured on a corporate level (-36 articles); ٠
- different kinds of diversification (e.g. product diversification or board diversification) were measured (-92 articles); and
- multinationality and/or performance were not a key variable (-261 articles).

As our focus was on the empirical findings, we limited our sample to only empirical papers. As a consequence, from the remaining 139 articles that fulfilled the requirements outlined above, conceptual papers [2] (-7 articles) and literature reviews [3] (-10 articles) were excluded. We also excluded meta-analyses[4] (-7 articles) for two reasons. First, the results of meta-analyses are based on largely the same empirical papers as are used for this literature review. Second, meta-analyses are highly criticized for investigating weakly defined and operationalized constructs that could lead to misleading results (Klein and Delery, 2012). Therefore, the final sample consists of 115 empirical studies. Table 1 provides an overview of the search results and exclusion criteria, and their effect on the final sample. Appendix 3 summarizes the 115 empirical articles in the final sample, highlighting their theoretical perspective, dependent and independent variables, moderators and the form of their relationship.

Stage	Task description	+/-	Total	Patterns of inconsistency
1	Systematic Boolean search in journals in the fields of General Management, International Business and Strategy that are rated 2, 3 or 4 in the Chartered Association of Business Schools Academic Journal Guide 2015 ranking, using the self-constructed search string [(multinational* OR international*) AND performance] in TITLE from 1977-01-01 to 2021-12-31	+491	491	inconcisconcy
2	Systematic Boolean search in journals in the fields of General Management, International Business and Strategy that are rated 2, 3 or 4 in the Chartered Association of Business Schools Academic Journal Guide 2015 ranking, using the self-constructed search string [((region* OR geographic*) diversification) AND performance] in TITLE from 1977-01-01 to 2021-12-31	+152	643	257
3	Systematic Boolean search in journals in the fields of General Management, International Business and Strategy that are rated 2, 3 or 4 in the Chartered Association of Business Schools Academic Journal Guide 2015 ranking, using the self-constructed search string [(transnational* OR "born global*") AND performance] in TITLE from 1977-01-01 to 2021-12-31	+11	654	
4	Exclusion due to: M or P is moderator or control variable Different kinds of performance P is measured not on a firm level Different kinds of diversification M and P are not key variables	$-16 \\ -110 \\ -36 \\ -92 \\ -261$		Table 1.
5	Exclusion due to Conceptual paper Literature review Meta-analysis	-515 -7 -10 -7 -24	139 115	Overview of search results, exclusion criteria and their effect on the final sample

Each article underwent a content analysis where information about different parameters was collected and coded categorically. In a first step, each article was given equal attention and coded descriptively and attributively (Saldaña, 2015, pp. 59-64). In a next step, the initial descriptive and attributive codes were categorized into clusters based on similar attributes. In a final step, the clusters were aggregated to a topical, descriptive level, and organized into main categories and subcategories. Table 2 shows the three levels of the categorization scheme. The categories included information about the underlying theoretical arguments and information about the sample and research context, for example, the region where the research was conducted, firm size and industry. Fundamental to understanding the relationship is to also understand how it has been measured. Thus, the categorical codes include different types of performance (e.g. accounting-based, market-based or operational performance) and their measures (e.g. return on assets, return on sales, return on equity, Tobin's Q), different types of multinationality (e.g. structural or financial measures, or index-based) and their measures (e.g. foreign sale to total sales, foreign assets to total assets, ratio of foreign to total employees, number of countries the firm has operations/subsidiaries in) and finally the shape of the identified relationship between multinationality and performance. The codes for the moderators (e.g. firm characteristics, home-country context or strategy) and their measures (e.g. firm size, firm age, family ownership, entry mode or cultural diversity) were derived descriptively and attributively in order to cover the full range of moderators applied to the M-P relationship literature.

2. ization for content	Level 2	
Country/Region	USA (1/0) EU (1/0) ASIA (1/0) Other(1/0)	USA (1/0) e.g. UK, Germany, Switzerland, Spain, France, Italy e.g. Japan, India, Singapore, Taiwan, China Other (1/0)
Multiple vs single country focus (1/0) Size of firm	Multiple = 1 Single = 0 SME (1/0) Large firms/MNE (1/0)	
Industry	SMEs and large firms (1/0) Not stated (1/0) Manufacturing (1/0) Service (1/0)	SME = 1 AND large firm = 1
	Manufacturing and service (1/0) Not stated (1/0)	Manufacturing = 1 AND service =1
Performance measurements	Financial (1/0) Operational (1/0) Overall effectiveness (1/0)	e.g. ROA, ROI, earnings per share, Tobin's Q e.g. product-market outcomes, internal process outcomes e.g. reputation survival nerrevied oversil nerformance achievement of voals
Multinationality measurements	Structural (1/0) Financial (1/0) Index (1/0)	e.g. rupatuou), survay, proceeded over a performance active of source e.g. number of regions, number of countries with subsidiaries e.g. FSTE, FOTO e.g. romfinions index
Theory	Economic theories (1/0) Behavioral theories (1/0) Resource-based view (1/0) Phenomenon-driven (1/0) 3-stage theory (1/0) Unclear (1/0) Other (1/0)	e.g. organizational learning, internalization theory e.g. organizational learning, internalization theory
Moderators	Firm characteristics (1/0) Home-country context (1/0) Strategy (1/0)	e.g. firm size, firm age, leverage, family ownership e.g. home country legal institutions, normative institutional distance e.g. advertising intensity, entry mode, R&D intensity, product diversification, cultural diversity.

	$\begin{array}{c} \text{POS LIN} \\ N = 38 \end{array}$	NEG LIN $N = 12$	U N = 15	$INV \\ U \\ N = 29$	S N=19	M = 3	NONE $N = 10$	No. of published articles $N = 115$
1977–1987	1	1						3
1983								1
1986		1						1
1987	1							1
1988-1998	2			3	1		4	10
1989	1			1			1	3
1995							1	1
1996	1			1			1	3
1997				1				1
1998					1		1	2
1999-2009	13	3	8	9	7		1	36
1999				1				1
2000	1	1		-				2
2001	1	_	1					2
2002	1		_					1
2003	_		3	1	1			4
2004		1	Ū	-	2			3
2005	2	_			_			2
2006	2		1	2				4
2007	2		2	2	2			5
2008	3		_	1	2		1	7
2009	1	1	1	2	_		-	5
2010-2021	22	8	7	17^{-}	11	3	5	66
2010 2010		U		3	2	0	0	5
2011	2	1		1	_			4
2012	3	1		2	3	1	1	11
2013	3	1		-	1	1	-	6
2014	1	1		3	-	1		5
2015	1	1		1	1	-		3
2016	1	1	3	2	2		1	7
2010	5	-	1	1	1		2	8
2018	3	1	-	1	1		-	6
2010	2	T	2	1	Ŧ			4
2019	4	1	4	T			1	2
2020	1	T	1	2			T	5
2021	T		T	4				0

Table 3 provides an overview of the identified shapes of the M–P relationship by the year of the published articles. It shows that, although there were some studies published earlier, it was during the late 1990s that the M–P relationship as a research topic became more and more popular. This can be explained with the general raise of globalization that triggered

3. Results

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Notes: Some papers have either found multiple different shapes or have not made a clear statement about the identified shape of the relationship. Therefore, the amount of papers published per period does not match the total amount of identified shapes per period. POS LIN = The paper has found a positive linear relationship between M and P; NEG LIN = The paper has found a negative linear relationship between M and P; U = The paper has found a U-shaped relationship between M and P; IV U = The paper has found a u-shaped relationship between M and P; S = The paper has found a S-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = Th

Table 3.Shape of the M–Prelationship by yearof published articles

research projects associated with the performance outcomes of global activities. During the past 12 years, the research field grew even more, peaking with 11 publications in 2012. The identified shapes of the relationship however are scattered across the whole spectrum, leading to no clear pattern that could be associated with the year of publishing and the identified shape. In most recent years, a positive linear shape, along with an inverted U-shape and S-shape are the most dominant found relationships. Part of the explanation for this finding is due to the evolution of statistical analysis that has allowed for more complex investigation of nonlinear relationships, which indicates that a continuous development in statistical methods also in the future might contribute to our findings rather than the factual relationship between multinationality and performance.

The content analysis presented in Table 4 shows a summary of the frequency of the coded categories, such as type of theory, cross-tabulated with the shapes of the relationships between multinationality and performance. To test for whether there is an association between the identified relationships between multinationality and performance (including no relationship), and the theory used, the region, firm size, industry, measurement type for performance and multinationality, and type of moderator, we did a cross-tabulation analysis. Using the data from Table 4, we applied the chi-square test for independence to all possible 2×2 cross-tabulation tables. This tests for a statistically significant association between categories, for example, the type of theory and the form of the relationship between multinationality and performance. No chi-square test indicated a statistically significant pattern between categories.

Findings reveal a great variety of empirical studies investigating the M–P relationship. This can be observed in:

- different research settings;
- measurements of key variables;
- underlying theoretical approaches and identified shapes of the M–P relationship; and
- moderators influencing the M-P relationship.

All of these approaches contribute to diverse and inconsistent findings, thereby confounding the search for a unified theory for the relationship between multinationality and performance. Below, the diverse approaches are presented in more detail. They are contrasted with the outcomes presented in the papers to identify possible patterns in previous findings.

3.1 Research settings

Variety within the research setting is beneficial to the overall validity of findings. While the majority of studies still choose to focus on a single country as their research setting (81 studies), using comparative studies in the form of investigating and comparing multiple countries has been on the rise. With a dramatic increase from three studies between 1988 and 1998 to 11 studies in 1999–2009, and even 17 studies between 2010 and 2021.

Yang and Driffield reported in 2012 that 42% of studies use a US sample, indicating an overrepresentation of US firms. Our results show 38.3% of empirical studies focus on US firms, 35.6% on European firms and 42.6% on Asian firms, indicating that since 2012 the research settings have become more balanced. Table 5 shows that the amount of positive linear relationships and inverted-U shaped relationships is also quite evenly distributed between Asian, European and US firms.

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		POS LIN	NEG LIN	n	UU	S	Μ	NONE
Country/region	TISA (44)	12	4	er.	14	~		, L
	EU (41) EU (41) Asia (49) Other (21)	13 19 10	- n Q u		$13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\$	o ∩ ⊲ 0	1 5	0400
ultiple vs single counti	Multiple vs single country focus Multiple countries (32) Single country (81)	11 27	2 10	14	11 17	4 15	က	3 0
Size of firm	SMEs (10) Large firms (62) SMEs and large firms (6) Not stated (37)	19 14 14	н 9 н 4	ら コ く ち	5 18 6	1 9 8 6	1 5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Manufacturing (44) Service (14) Manufacturing and service (36) Not stated (20)	12 12 9	N N N N	01 01 17 4	14 3 10 2	8 4 L 0	က	4 H W 2
1 ume frame	1–6 years (59) 7–35 years (55)	19 18	4 8	9 0	18 11	7 12	2 1	3 7
Performance measurements Fin Ope Ove	<i>tents</i> Financial (110) Operational (11) Overall effectiveness (4)	න ව 33 33	11 2 2	15 1	29	19 3	က	10
Multinationality measurements Structu Financ Index-I	<i>rements</i> Structural (43) Financial (74) Index-based (26)	14 26 9	N C C	9 6 4	11 20 5	5 12 6	က	5 5 3 (continued)
Table 4. Categorization of results for cross tabulation							261	Patterns of inconsistency

CPOIB 19,2	NONE	Q 17 C - T	33	1	tive linear U-shaped ound a S- elationship
262	Μ	1 1 2	5 1		ionship. The cound a posi has found a paper has f found no re
	S	ດ ດ ດ ບ ປ	8	7 1 2	e of the relat paper has f The paper S = The he paper has
	UU	7 8 9 8 17	15 14	5 4 10	entified shap S LIN = Theand P: U =en M and PNONE = ThNONE = Th
	U	サ サ の サ サ	7 8	сс 4	t about the id r period. POS between M nship betwee en M and P;
	NEG LIN	o o a a	-7 2	4 2	le a clear statemen antified shapes per linear relationship U-shaped relatio relationship betwe
	POS LIN	15 10 2 9 8 0 2	22 16	8 10	es or have not mac total amount of id found a negative found an inverted found a M-shaped
		Economic theories (41) Behavioral theories (40) Resource-based view (24) Phenomenon-driven (32) 3-stage theory (14)	<i>derators</i> With moderators (54) Without moderators (61)	Firm characteristics (22) Home country context (12) Strategy (29)	Notes: Some papers have either found multiple different shapes or have not made a clear statement about the identified shape of the relationship. Therefore, the amount of papers published per period does not match the total amount of identified shapes per period. POS LIN = The paper has found a positive linear relationship between M and P; NEG LIN = The paper has found a U-shaped relationship between M and P; NFG LIN = The paper has found a U-shaped relationship between M and P; S = The paper has found a S shaped relationship between M and P; NNU U = The paper has found a N-shaped relationship between M and P; NS = The paper has found a S shaped relationship between M and P; NOU = The paper has found a M-shaped relationship between M and P; NOU = The paper has found a M-shaped relationship between M and P; NOU = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; N = The paper has found a M-shaped relationship between M and P; N = The paper has found a M-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; N = The paper has found a M-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; N = The paper has found a M-shaped relationship between M and P; N = The paper has found a M-shaped relationship between M and P; N = The paper has found a M-shaped relationship between M and P; N = The paper has found a M-shaped relationship between M and P; N = The paper has found here M = M-shaped relationship between M and P; N = The paper has found here M = M-shaped relationship between M and P; N = The paper here M = M-shaped relationship between M and P; N = The paper here M = M-shaped relationship between M and P; N = The paper here M = M-shaped relatio
able 4.		Theory	With or without moderators Wi Wi	Moderators	Notes: Some papers have amount of papers publis relationship between M a relationship between M shaped relationship betw between M and P

	POS LIN	NEG LIN	U	INV U	S	М	NONE	No. of published articles	Patterns of inconsistency
USA	12	4	3	14	8		5	44	
1977–1987	12	1	5	14	0		0	2	
1977-1987 1988-1998	1	1		3	1		3	8	
1999–2009	6	1	2	7	3		1	16	263
2010-2021	5	2	1	4	4		1	18	
Europe	13	3	5	13	7	2	4	41	
1977–1987	10	0	0	10	'	4	т	2	
1988–1998	1			1			2	4	
1999–2009	4	1	2	3	1		1	11	
2010-2021	7	2	3	9	6	2	1	24	
Asia	19	6	5	13	5	2	5	49	
1977–1987	10	0	0	10	0		0	10	
1988–1998							3	3	
1999–2009	5	2	3	4	2		0	15	
2010-2021	14	4	2	9	3		2	31	
Other countries	10	1	1	5	3	1	2	21	
1977–1987	10	-	-	0	0	-	-		
1988–1998									
1999–2009	4	1	1	2	1			7	
2010-2021	6	-	-	3	2	1	2	14	
Emerging market countries	13	4	3	11	3		4	38	
1977–1987									
1988–1998							1	1	
1999-2009	4	1	2	3	1			10	
2010-2021	9	3	1	8	1		3	24	
Multiple countries; comparative studies	11	2	0	11	4	0	6	32	
1977–1987								1	
1988–1998				1			2	3	
1999-2009	5	1		5	1		1	11	
2010-2021	6	1		5	3		3	17	

Notes: Some papers have either found multiple different shapes or have not made a clear statement about the identified shape of the relationship. Therefore, the amount of papers published per period does not match the total amount of identified shapes per period. POS LIN = The paper has found a positive linear relationship between M and P; NEG LIN = The paper has found a negative linear relationship between M and P; U = The paper has found a u-shaped relationship between M and P; U = The paper has found a U-shaped relationship between M and P; S = The paper has found a S-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; S = The paper has found a S-shaped relationship between M and P and P. NONE = The paper has found no relationship between M and P and P. NONE = The paper has found no relationship between M and P.

Table 5.Country/region byshape of the M–Prelationship

In total, 38 studies out of 115 explicitly state that they investigate emerging markets. Between 1988 and 1998, there was only one study with an emerging market setting. During the following decade there were 10 studies, and the decade after that there were 24. The most dominant identified shapes of the M–P relationship were positive linear (9 studies) and inverted-U shaped (8 studies). This indicates that, as with many other field of research, emerging markets have become more and more relevant to the research setting and are likely to continue to grow in importance in the future. Overall, positive linear and inverted-u shaped relationships are the dominant forms throughout the different research settings. Nevertheless, no consistent linear or nonlinear pattern is observed for the M–P relationship when investigating different countries. Furthermore, there is no difference in papers focusing on single or multiple countries (see Table 4).

CPOIB 3.2 Sample characteristics

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Concerning characteristics of the samples used in the empirical studies, 7% of the studies solely investigate small- and medium-sized firms, while 45% focus on large firms. As many large firms might be publicly listed, financial information is easier to obtain from their annual reports than for small- and medium-sized firms. This might explain an overrepresentation of large firms in previous empirical studies. Interestingly, 27% of the studies were not clear in reporting the size of the firm. Comparing firm size with the identified relationship shapes, no clear pattern can be observed. Interestingly, the category for large firms is the largest group in the sample and finds all the different relationships except for an M-shape. Again, positive linear and inverted-U shaped relationships are the most commonly identified M–P relationships for empirical studies investigating large firms. However, it may simply mean that none of the studies tested for the M-shape. Those studies that have not stated any firm size explicitly found an S-shaped relationship as the second most prominent relationship identified (after positive linear).

Concerning industry, there is a bias toward manufacturing firms. Forty-four studies solely consider manufacturing, whereas only 14 solely look at the service industry. Thirty-six are blended studies and 20 do not reveal the industry the study was investigating. Comparing the different shapes to the industries, no clear pattern is observed (see Table 6). All industries are represented in every category, except for the M-shaped relationship.

	POS LIN	NEG LIN	U	INV U	S	М	NONE	No. of published articles
Manufacturing	12	5	2	14	8	3	4	44
1977–1987	1	1						2
1988–1998				2			3	5
1999-2009	6	2	1	3	4			14
2010-2021	5	2	1	9	4	3	1	23
Service	4	2	2	3	4		1	14
1977-1987								
1988–1998								
1999-2009	1		1	1	1		1	5
2010-2021	3	2	1	2	3			9
Manufacturing and service	12	3	7	10	5		3	36
1977–1987								
1988–1998					1		1	2
1999–2009	5		4	4	1			11
2010-2021	7	3	3	6	3		2	23
Not stated	9	2	4	2	2		2	20
1977-1987								1
1988–1998	2			1				3
1999–2009	1	1	2	1	1			6
2010-2021	6	1	2		1		2	10

Notes: Some papers have either found multiple different shapes or have not made a clear statement about the identified shape of the relationship. Therefore, the amount of papers published per period does not match the total amount of identified shapes per period. POS LIN = The paper has found a positive linear relationship between M and P; NEG LIN = The paper has found a negative linear relationship between M and P; U = The paper has found a U-shaped relationship between M and P; NV U = The paper has found a ninverted U-shaped relationship between M and P; S = The paper has found a S-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M

Table 6.

Industry by shape of the M–P relationship

Between 2010 and 2021, there were three published articles finding an M-shaped M–P relationship for manufacturing firms.

When comparing the time-span of the samples in each of the empirical studies, no pattern emerges. As can be seen in Table 6, papers divided into long-term perspective (from 7 years up to 35 years) and short-term perspective (from 1 year up to 6 years) are quite homogenously distributed. Though, there is a slight trend for long-term perspective studies to more frequently find an S-shaped relationship. This could be explained with that to identify an S-shaped M–P relationship, longitudinal data is required, to fully plot an S-shaped relationship.

3.3 Underlying theories

Within the internationalization process literature, multiple theories have been applied to explain both the benefits and drawbacks of an increased degree of multinationality and its effect on performance. Although many studies apply different theories in an attempt to explain the assumed causal relationship between multinationality and performance, there are no conclusive results connected to the use of the underlying theory. However, certain trends can be observed. For example, it is not surprising that no study using the resource-based view found a negative linear relationship between M and P. Although the sample is quite small, the logics behind the resource-based view, advocating for benefits of internationalization stemming from the exploitation of firm strategic advantages, indicates a positive relationship. Finding a negative linear relationship would contradict the theory.

Economic theories, such as transaction-cost theory, mainly found a positive linear and an inverted-U shaped M–P relationship. Interestingly, only 1 out of 41 studies using an economic theory found no relationship at all. Table 7 provides a detailed account of the theories and the identified shapes of the M–P relationship over the years.

3.4 Measures of multinationality and performance

Findings related to the broad variety of measures used for both key variables are presented in Table 8. To capture the depth of the key variable *Multinationality*, it was split into structural, financial and index-based measurements. Financial measurements are the most dominant (64%), followed by structural (37%) and index-based measures (23%). The ratio between foreign sales to total sales is the key financial measure for multinationality, employed in 84% of the studies. The number of foreign subsidiaries is measured in 58% of the studies and is the leading measure for structural multinationality. For index-based measures, an entropy measure is most popular.

For the key variable *Performance*, we followed Hult *et al.* (2008), and split the performance measure into financial performance, operational performance and overall performance. By far (110 studies), financial performance is the dominant measure. The most popular measurement for financial performance is return on assets (57%). Comparing the different types of measures, no patterns are identified concerning the M–P relationship. Note that many studies use multiple measures, so the totals exceed the 115 papers included in Table 8.

3.5 Moderators

M–P research strongly suggests a dynamic relationship that requires going beyond simple linear explanations (Lu and Beamish, 2004). Given their fundamental importance to understanding the M–P relationship, we documented all moderating variables. We report a detailed record in Appendix 4. In total, 54 out of the 115 empirical studies (i.e. 47%) have introduced at least one moderator, and 90 unique moderators are identified. It is important to

Patterns of inconsistency

CPOIB 9,2		POS LIN	NEG LIN	U	INV U	S	М	NONE	No. of published articles
	Economic theories	15	5	4	12	7		1	41
	1977-1987		1						1
	1988–1998	1			3	1			5
	1999-2009	5	1	3	4	3			13
66	2010-2021	9	3	1	5	3		1	22
	Behavioral theories	10	7	4	8	6	2	$\frac{1}{3}$	40
	1977-1987								1
	1988–1998				1	1			2
	1999-2009	5	2	3	1	2		1	13
	2010-2021	5	5	1	6	3	2	$\frac{2}{2}$	24
	Resource-based view	8		3	6	3	1	2	24
	1977-1987								
	1988–1998				2				2
	1999-2009	4		2	2	1		1	10
	2010-2021	4		1	2	2 5	1	1	12
	Phenomenon-driven	9	3	4	9	5	1	5	32
	1977-1987	1							1
	1988–1998	1			1			4	6
	1999-2009	6	1	2	6	3			14
	2010-2021	1	2	2	2	2	1	1	11
	3-stage theory	2	3	4	2	5	0		14
	1977–1987								
	1988–1998								
	1999-2009	1		3	1	2			7
	2010-2021	1	3	1	1	2 3			7

Notes: Some papers have either found multiple different shapes or have not made a clear statement about the identified shape of the relationship. Therefore, the amount of papers published per period does not match the total amount of identified shapes per period. POS LIN = The paper has found a positive linear relationship between M and P; U = The paper has found a U-shaped relationship between M and P; INV U = The paper has found a U-shaped relationship between M and P; S = The paper has found a S-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; NONE = The paper has found a M-shaped relationship between M and P; M = The paper has found a M-shaped relationship between M and P; NONE = The paper has found no relationship between M and P

Table 7. Theories by shape of the M–P relationship

		Mult		Performan	ce Overall		
Table 8.		Structural	Financia	Index-based	Financia	Operational	effectiveness
Overview of the performance and	Number of studies	43	74	26	110	11	4
multinationality measurements used in the studies	Commonly used measures in %	Number of foreign subsidiaries 58%	FSTS 84%	Entropy measure 38%		Survey questions 18%	Survey questions 100%

note that, although researchers sometimes use the same moderators, the measurements are different. Given the sensitivity to context and measurement, it is no surprise that the findings are inconsistent. No patterns connected to the identified shapes of the M–P relationship are identified. Furthermore, there is no difference between papers that include

moderators and papers that do not include moderators. Again, positive linear and inverted U-shaped M–P relationships are marginally more common than the other shapes, although all shapes are represented. However, it is evident that adding moderators to the model became more popular during the past 12 years than it was before.

In the examination of the moderators, it is possible to identify and group them into three clusters based on shared features, which are shown in Appendix 4. The first cluster includes moderators that are commonly listed as *firm characteristics* (Kogan and Tian, 2012; Subrahmanyam and Titman, 2001; Zou and Stan, 1998). For example, the size of the firm (Fisch, 2012; Kirca et al., 2012; Singla and George, 2013), the age of the firm (Singla and George, 2013) or business group affiliations (Gaur and Kumar, 2009; Kim et al., 2004; Singla and George, 2013). The second cluster is associated with factors usually described as the institutional or the *home*country context (Devinney et al., 2010; Ghemawat, 2001; Scott, 2008). For example, home-country legal institutions (Li and Yue, 2008; Marano et al., 2016), home-country political stability (Chao and Kumar, 2010; Tan and Chintakananda, 2016) and home-country governance (Chao and Kumar, 2010; Li and Yue, 2008). In the last cluster, the moderators are linked to strategic decisions a firm makes in diverse areas, and includes, for example, advertising intensity (Kirca et al., 2016; Lu and Beamish, 2004), R&D intensity (Bae et al., 2008; Berry and Kaul, 2016; Kirca et al., 2016; Kotabe et al., 2002; Lu and Beamish, 2004; Pattnaik and Elango, 2009) and entry mode decisions (Jain and Prakash, 2016). The three clusters have been compared for patterns, but again, no clear pattern emerges (see Table 9).

In sum, there is a broad variety of moderators that have a positive, negative or no effect on the M–P relationship. It is interesting to see that although many researchers use the same moderators, the results are different. Hence, the random use of moderating variables has made it difficult to identify consistent patterns in relation to the identified shape of the M–P relationship.

4. Concluding remarks

4.1 Discussion

This literature review and content analysis encompasses the 115 most relevant empirical studies publish over the past 44 years on the relationship between multinationality and performance at the firm level. Categorizing for different research settings, measurements, theories and moderators, we search for patterns that may explain the variety of incongruent findings in the extant literature. We test for patterns through cross-tabulation analysis and chi-square tests. Our findings challenge the prevalent belief in the international business literature that a direct and overall positive relationship exists for multinationality on performance.

First, we investigated different research settings, defined as different countries or regions, and found no clear linear or nonlinear pattern for identified shapes of the M–P relationship, neither from the content analysis nor from the cross-tabulation analysis. This includes single and multiple country settings. We conclude that there are no systematic patterns between the type of research setting and the nature of the M–P relationship.

Second, for sample characteristics we compared firm size and industry to the shape of the M–P relationship. We also considered whether the data represented a short-term (up to and including 6 years) or long-term (7–35 years) perspective. Many studies claim that firm-specific characteristics of small- and medium-sized enterprises (SMEs) impact their internationalization (Cavusgil and Knight, 2015; Chetty and Campbell-Hunt, 2004; Hilmersson and Johanson, 2020; Hilmersson *et al.*, 2022). Size is a boundary condition to firm internationalization as size often implies limited resources, including assets, finances and infrastructure (Knight and Kim, 2009). However, size also impacts firm governance, organization and decision-making (Verbeke and Ciravegna, 2018). Given this, it is somewhat surprising that we could not identify any patterns in the content analysis or the cross-

CPOIB 19,2		POS LIN	NEG LIN	U	INV U	S	М	NONE	No. of published articles
	With moderators	22	5	7	15	8	1	3	54
	1977-1987								0
	1988–1998	-	2		1			1	2
268	1999-2009	7	2	4	3	3			15
200	2010-2021	15	3	3	11	5	1	2	37
	 Without moderators 	16	7	8	14	11	2	7	61
	1977-1987	1	1		-			0	3
	1988–1998	2			2	1		3	8
	1999-2009	6	1	4	6	4		1	21
	2010-2021	7	5	4	6	6	2	3	29
	Firm characteristics	8	4	3	5	2		2	22
	1977-1987								
	1988–1998								
	1999-2009		1	1					2
	2010-2021	8	3	2	5	2 1		2	20
	Home country context	7			4	1	1	1	12
	1977-1987								
	1988–1998							1	1
	1999-2009	2			1				2
	2010-2021	5			3	1	1		9
	Strategy	10	2	4	10	7			29
	1977-1987								
	1988–1998				1				1
	1999-2009	5	1	3	2	3			11
	2010-2021	5	1	1	7	4			17
Table 9. Moderators by shape	Notes: Some papers have the identified shape of the match the total amount relationship between M and P; U = The paper has an inverted U-shaped re	he relationsl of identified and P; NEG is found a U-	hip. Therefor shapes per p LIN = The p shaped relat	e, the eriod. aper l ionshi	e amoun POS LI has foun ip betwe	t of paj N = Th d a neg en M ai	pers p ne pap ative l nd P; I	ublished p er has four inear relat NV U = TI	er period does no nd a positive linea ionship between l ne paper has four

of the M–P relationship

lationship between M and P; S The pape er has to between M and P; M = The paper has found a M-shaped relationship between M and P; NONE = The paper has found no relationship between M and P

tabulation analysis. The limited number of articles in the size category may very well have contributed to not finding significant patterns in our data. Another explanation may be the diversity of definitions and measures of SMEs (Zahoor et al., 2020), what Child et al. (2022) describe as inconsistencies in conceptualizing SMEs. We conclude that sample characteristics do not systematically influence the shape of the relationship between multinationality and performance. One common problem concerning samples, and thus results, lies in the ambiguity of definitions and measures of sample characteristics. That is, ambiguity in the sample creates ambiguity in the results (Sumpter et al., 2019). Klein and Delery (2012, p. 58) explain it as, "(...) the most serious consequence of construct ambiguity is the lack of confidence that can be placed in the conclusions drawn from the extant literature."

Third, we scrutinized the underlying theories applied to explain the relationship between multinationality and performance. The several shapes of the relationship are explained by the authors utilizing many different and sometimes contradicting theories. Among others, the most popular explanations are derived from transaction cost theory, internalization

theory and the resource-based view of the firm. All theories share the common denominator that multinationality affects performance. Interestingly, almost all the theories have results across the spectrum of shapes of the relationship, leading us to conclude that there is no systematic relationship between the applied theory and the shape of the multinationality and performance relationship. This finding is in line with several researchers arguing that there is no systematic relationship between the two concepts (cf. Hennart, 2007; Rugman *et al.*, 2016). The results of the cross-tabulation analysis support this conclusion. However, one interesting observation is the lack of consideration of the individual manager playing a vital role in the decision-making process concerning internationalization. Bridging the existing macro-level theories with micro-level foundations would allow for a more detailed understanding of how multinationality and performance interact (cf. Cowen *et al.*, 2022).

Fourth, we examined the measurements used for multinationality and performance. We found that most of the studies applied financial measures for both concepts. Return on assets is most popular for performance and the ratio between foreign sales to total sales is the most popular for multinationality. The ease of access to this kind of financial data would explain these preferred measures, in spite of the possibility that they may not represent the most accurate depiction of the degree of multinationality or performance. Hult et al. (2008) advocate for incorporating operational performance and overall performance to compliment financial performance, thus depicting a more accurate and holistic view for measuring performance. We could not identify any statistically significant pattern between these types of measures and the shape of the relationship between multinationality and performance. One possible explanation is a lack of clarity when it comes to the definition and measurement of the constructs. There are limited discussions on what constitutes the constructs and how they are actually being measured (Klein and Delery, 2012; Suddaby, 2010). Promising progress has been made by Miller et al. (2016) who split multinationality into international intensity, international distance and international diversity to capture a more holistic picture of the different aspects that constitute multinationality. Giachetti and Spadafora (2017) suggest conformity in multinationality as a new measure that captures the extent to which a firm's multinationality resembles the multinationality of its peers at a particular point in time. This allows for more comparative analyses of individual firms in relation to their competitors.

Last, we investigated the effect of different moderators or no moderator on the shape of the relationship between multinationality and performance. No patterns emerged. We conclude that there are no systematic effects of moderators on the shape of the multinationality and performance relationship. Although investigating different moderators is crucial for the development of future research (Zahoor *et al.*, 2020), instead of enlarging the spectrum of applied moderators to the M–P relationship, it is imperative that researchers fundamentally question the nature and direction of the relationship between multinationality and performance.

4.2 Conclusions and suggestions for future research

We set out to explore reasons for inconsistent results in research on the M–P relationship. Given the absolute lack of any consistent results, our conclusion is that the relationship is so complex and contextually bound that it is neither possible nor fruitful to strive for a unifying theory. The content analysis shows that despite the variety of results there is consistency in the importance of the variables we have identified. The relationship between multinationality and performance can take many forms; however, it is an oversimplification of the relationship to examine it as simply two variables and a possible moderator.

The inconsistency may also be a function of the dynamics in the relationship. Internationalization is an evolving process, yet the vast majority of the published research relies on cross-sectional research designs. Findings at one time in the relationship will most Patterns of inconsistency

CPOIB likely differ from findings at a different time, depending on where the relationship is in terms of the stage of the process. Frankly, the form of the relationship may simply be a function of the analytical choices made by the researchers. If the researchers are only testing linear relationships, then they may just see the linear part of what in actuality is a nonlinear relationship. This could even be a function of the available analytical tools and computing power. Future researchers should recognize that the relationship is a process taking different forms. There is no specific dominant form. The context specificity of the relationship makes general declarations difficult, if not impossible.

> Over the past four decades, the M–P paradigm has been a major focus of practitioners and researchers (Elango and Sethi, 2007). Paradigms, to some degree, are immune to contradictory empirical evidence (cf. Håkanson and Kappen, 2017). By their nature, they are accepted as the established norm. Our findings concur with a growing body of evidence (cf. Hennart, 2011; Tallman and Pedersen, 2012; Verbeke and Brugman, 2009) that we are due for a paradigmatic shift (Kuhn and Hacking, 2012), which would allow the international business research field to develop in a fruitful new direction. Specifically, there is a small but growing literature arguing to turn the tables and investigate the performance–multinationality relationship (cf. Grant, 1987; Lu and Beamish, 2001, 2004; Morck and Yeung, 1991; Schmuck et al., 2022). A handful empirical studies have empirically investigated either a dual or a reversed causality (Grant et al. 1988; Hong Luan et al., 2013; Jung and Bansal, 2009). Though promising, the outcomes from these studies require further investigation.

> We suggest that future research focus more on the process of internationalization rather than on the outcome. Although the goal of internationalization is to achieve a particular outcome, multiple contextual factors need to be considered in the model. Depending on, for example, financial assets, strategic decisions or time since the founding of the company, firms reside in different stages of their internationalization processes. Taking cross-sectional observations fails to properly represent the process, distorting general conclusions. Moreover, a successful and sustainable internationalization process should be the focus of strategic decision making, rather than potential financial gains or losses. After all, as other literature reviews have shown, and as our findings show, after 44 years the international business research community still cannot agree on the effect of multinationality on firm performance. A theme for future consideration is to capture the time dimension in the internationalization process and the effect of time on performance. That is, the speed and timing of internationalization (Hilmersson et al., 2017; Hult et al., 2020).

> We have endeavored to provide an overview and classification of the M–P moderators. Due to the large diversity in the moderators, we suggest researchers use more diligence in selecting and measuring moderators, multinationality and performance. In sum, we do not see a fruitful future for research on the M–P relationship, as long as researchers continue to rely on the dominant paradigm and other underlying assumptions. We advocate a critical reevaluation of the current oversimplifications of the M-P relationship and suggest future research to critically assess the choices of theories, methods, models and statistical analyses.

Notes

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- 1. Previous literature reviews have dedicated a lot of attention to the different shapes of the M-P relationship. In particular, Cardinal et al. (2011) and Nguyen and Kim (2020) provide a detailed description and analysis of the different shapes of the M-P relationship found in previous research.
- 2. The conceptual papers are Contractor (2012), Hennart (2007), Hitt et al. (1994), Richter et al. (2017), Verbeke and Brugman (2009), Verbeke et al. (2009) and Yildiz (2013).

- 3. The literature reviews are Cardinal *et al.* (2011), Glaum and Oesterle (2007), Hennart (2011), Hult *et al.* (2008), Jiang *et al.* (2020), Li (2007), Nguyen (2017), Nguyen and Kim (2020), Tallman and Pedersen (2012) and Verbeke and Forootan (2012).
- 4. The meta-analyses are Bausch and Krist (2007), Geleilate *et al.* (2016), Kirca *et al.* (2011), Kirca *et al.* (2012), Marano *et al.* (2016), Palich *et al.* (2000a) and Yang and Driffield (2012).
- Elango (2006) identified a positive linear relationship for service firms, and an inverted U-shaped relationship for manufacturing firms.
- 6. Elango and Sethi (2007) identified a positive linear relationship for firms operating in countries with relatively small economies and which have extensive trade in their economy, and an inverted U-shaped relationship for firms in countries with larger economies which have relatively moderate trade in their economy.
- 7. Banalieva and Sarathy (2011) identified a positive linear relationship for non-electronic emerging market multinational firms, and an inverted U-shaped relationship for electronic emerging market multinational firms.
- 8. Benito-Osorio *et al.* (2016) identified a negative linear relationship for small and medium-sized firms, an U-shaped relationship for medium-sized firms and an S-shaped relationship for large firms. Moreover, they found an S-shaped relationship for all firms included in their sample.
- 9. Sun *et al.* (2019) identified an U-shaped relationship for firms with low marketing capabilities and an inverted U-shaped relationship for firms with high marketing capabilities.
- 10. Shin *et al.* (2017) identified an U-shaped relationship for capital-intensive service firms, an inverted U-shaped relationship for knowledge-intensive service firms and an inverted S-shaped relationship for the whole sample of service firms.
- 11. The statistical analysis used by Dikova and Veselova (2021) did not allow for making conclusions on the relationship between multinationality and firm performance.

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Appendix 1

	hits	included	(%)	
General Management, ethics and social responsibility		ŀ		
Academy of Management Journal (4*)	32	5	3.60	281
Academy of Management Review (4*)	4	0	0	201
Administrative Science Quarterly (4*)	3	Ő	ů '	
Journal of Management (4*)	14	2	1.44	
British Journal of Management (4)	7	2	1.44	
Business Ethics Quarterly (4)	1	0	0	
Journal of Management Studies (4)	14	0	0	
Academy of Management Perspectives (3)	3	0	0	
Business and Society (3)	4	0	0	
			0	
European Management Review (3)	2	0	*	
International Journal of Management Reviews (3)	3	1	0.72	
Journal of Business Ethics (3)	13	0	0	
Journal of Business Research (3)	51	6	4.32	
Business Horizons (2)	1	0	0	
Canadian Journal of Administrative Sciences (2)	4	0	0	
European Business Review (2)	3	1	0.72	
European Management Journal (2)	10	2	1.44	
International Studies of Management and Organization (2)	3	1	0.72	
Journal of General Management (2)	2	0	0	
Journal of Intellectual Capital (2)	2	0	0	
Management Decision (2)	15	2	1.44	
Scandinavian Journal of Management (2)	1	0	0	
Subtotal	192	22	15.83	
International business and area studies				
Journal of International Business Studies (4*)	79	11	7.92	
Journal of World Business (4)	44	10	7.20	
Asia Pacific Journal of Management (3)	9	3	2.16	
International Business Review (3)	90	16	11.51	
Journal of Common Market Studies (3)	2	0	0	
Journal of International Management (3)	30	8	5.76	
Management and Organization Review (3)	5	3	2.16	
Management International Review (3)	62	24	17.27	
Asian Business and Management (2)	1	1	0.72	
0 ()	2	0	0.72	
Asia Pacific Business Review (2)	4	1	0.72	
Critical Perspectives on International Business (2)	-	-		
Multinational Business Review (2)	24	15	10.79	
Thunderbird International Business Review (2)	15	4	2.88	
Subtotal	367	96	69.06	
Strategy Strategic Management Journal (4*)	62	9	6.47	
Global Strategy Journal (3)	18	11	7.92	
Long Range Planning (3)	7	0	0	
Business Strategy and the Environment (2)	3	0	0	Table A1.
Journal of Economics and Management Strategy (2)	1	0	0	
Strategic Change (2)	2	0	0	Overview of initial
			(continued)	hits and included articles per journal

CPOIB 19,2		hits	included	(%)
10,2	Technology Analysis and Strategic Management (2) <i>Subtotal</i> Total	2 95 654	0 <i>20</i> 139	$0 \\ 14.39 \\ 100$
282 Table A1.	 Notes: Latest ranking according to the Academic Journal Guid The following journals had no initial hits and are therefore excl ethics and social responsibility: <i>California Management Review</i> <i>Management Inquiry</i> (3), <i>MIT Sloan Management Review</i> (3) <i>Competition and Change</i> (2), <i>Journal of Revenue and Pricing N</i> area studies: <i>African Affairs</i> (3), <i>China Quarterly</i> (2), <i>Emergin</i> <i>and Economics</i> (2), <i>Europe-Asia Studies</i> (2), <i>Journal of Latin</i> <i>African Studies</i> (2), <i>Journal of World Trade</i> (2), <i>Third World Quarterly</i> (3), <i>Strategy: Strategic Organization</i> (3), <i>Advances in Strategic Mana</i> 	uded from th (3), Harvard , Business Ei Aanagement (g Markets Ra American S warterly (2), 7	is table: General Business Review thics: A Europed (2); International eview (2), Eurasi tudies (2), Journ	management, (3), <i>Journal of</i> <i>an Review</i> (2), business and <i>ian Geography</i> <i>nal of Modern</i>

Appendix 2

Search protocol and creation of database, with selection and exclusion criteria:

- (1) Full search of articles in the databases Web of Science and Business Source Premier with the following restrictions:
 - Time period 1977-01-01 to 2021-12-31
 - · Peer-reviewed journal articles only
 - Journals that are ranked 2 or higher in the Chartered Association of Business Schools Academic Journal Guide 2015 ranking (for a detailed list, please refer to Appendix A)
 - Keyword search in title field of a record, with the search string [(multinational* OR international*) AND performance]. Initial search results: *n* = 491 articles
 - Keyword search in title field of a record, with the search string [((region* OR geographic*) diversification) AND performance]. Initial search results (after deleting duplicates): *n* = 152 articles
 - Keyword search in title field of a record, with the search string [(transnational* OR "born global*") AND performance]. Initial search results (after deleting duplicates): n = 11
 - Total of initial search results: n = 654 articles
- (2) Downloading the bibliographic information (title, year, author, abstract, journal) of the 654 articles into the EndNote reference manager software and exporting into an excel file to create a database
- (3) Manual reading and checking of all articles included in the initial database against the following exclusion criteria:
 - Studies using one of the key concepts multinationality or firm performance as a moderator or control variable (16 articles)
 - Studies not measuring corporate performance
 - Studies measuring different kinds of performance (e.g. corporate social performance, or environmental performance) (110 articles)
 - Studies where the unit of analysis is not on a firm level (e.g. subsidiary performance) (36 articles)
 - Studies measuring different kinds of diversification (e.g. product diversification, or board diversification) (92 articles)
 - Studies not using both key concepts multinationality and firm performance as key variables (261 articles).
 - Total of articles that fulfilled the selection criteria: n = 139 articles
- (4) Selection of empirical articles, due to the focus of the literature review
 - Exclusion of conceptual papers (7 articles)
 - Exclusion of literature reviews (10 articles)
 - Exclusion of meta-analyses (7 articles)
 - Final sample: n = 115 articles

CPOIB 19,2	Append	lix 3									
284	s Relation-ship	Positive linear Positive linear Positive linear	Positive linear	Positive linear Positive linear	Positive linear	Positive linear Positive linear Positive linear Positive linear	Positive linear Positive linear Positive linear	Positive linear Positive linear	Positive linear Positive linear	Positive linear	Positive linear (continued)
	Moderators included	on on	no	yes yes	no	yes yes no	no ves	no ves	yes Ves	yes	ou
	Dependent variable Independent variable	FSTS Entropy measure for DOI FSTS	FORSUB	FITI FSTS	Entropy measure for DOI	FSTS FSTS, FORSUB FSTS FSTS	FSTS, FATA, FETE International price exposure FSTS, FATA, FORSUB	FORSUB	FSTS, FATA, FORSUB, composite measure for DOI FSTS, FATA, composite	measure for DOI FSTS, FATA, FORSUB, connosite measure for DOI	FORSUB
	Dependent variable	ROA, ROE, ROS OPM, ROA ROA	Tobin's Q, ROOA	ROA, OPSALINV Survey-based measure for	pertormance ROA, Tobin's Q,	snare price ROE Tobin's Q ROA, ROS ROA, ROS	ROA, ROE Sales growth, NPM, labor productivity ROA	Downside risk, upside potential ROA	ROA, Tobin's Q ROA	ROA, Tobin's Q	ROS
Table A2. Empirical studies on	Theoretical perspective	Phenomenon driven Economic theory Phenomenon driven	Resource-based view)2) Resource-based view ossUnspecified	Tongli et al. (2005) Phenomenon driven	Economic and behavioral theories Internalization theory Resource-based view Internationalization process and location theory	 Phenomenon driven Foreign direct investment and Uppsala model Behavioural theory of the firm 	Eclectic paradigm Institutional theory	Agency theory Upper echelons theory and information	processing theory Agency theory	Foreign direct investment
the relationship between multinationality and firm performance, their dependent and independent	Study	Grant (1987) Kim <i>et al.</i> (1989) Riahi-Belkaoui	(1990) Ramírez-Alesón and Espitia-Escuer (2001)	e <i>et al.</i> (200 sen and F	Tongli <i>et al.</i> (2005)	Hsu (2006) Chari <i>et al.</i> (2007) Li and Yue (2008) Pangarkar (2008)	Venzin et al. (2008) Väätänen et al. (2009) Lin et al. (2011)	Andersen (2012) Chao <i>et al</i> (2012)	Tsao and Chen (2012) Hsu <i>et al.</i> (2013)	Tsao and Lien (2013)	Yang et al. (2013)
variables and the found relationship	#	00 10 11	4	6 5	7	8 11 11	12 13	15 16	17 18	19	20

Study	Theoretical perspective	Dependent variable	Dependent variable Independent variable	Moderators included	s Relation-ship
O'Brien et al.	Resource-based view, agency theory and	Tobin's Q	Entropy measure for DOI	yes	Positive linear
(2014) Tan and Chintakananda (2016)	Resource-based view and transaction cost theory	ROA	Entropy measure for DOI	yes	Positive linear
Upadhyayula <i>et al.</i> (2017)	Upadhyayula <i>et al</i> . Phenomenon driven 2017)	Total sales per total FORSUB employees	FORSUB	yes	Positive linear
Buckley and Tian (2017a)	Buckley and Tian Internalization theory 2017a)	ROÂ	FSTS	no	Positive linear
Chang and Chung Unspecified (2017)	Unspecified	ROA	FSTS	no	Positive linear
Dittfeld (2017) Giachetti and		ROA, Tobin's Q ROA	FSTS, FATA FSTS, FORSUB	yes no	Positive linear Positive linear
Spadafora (2017) Batsakis <i>et al.</i> (2018)	information-based theories of imitation Resource dependence theory	ROA	FSTS	yes	Positive linear
Cuervo-Cazurra et al. (2018)	Organizational learning theory	EBITOA	Dummy variable	yes	Positive linear
Fuad and Akbar (2018)	Resource-based view	ROE	FSTS	no	Positive linear
Cos et al. (2019) Tashman et al. (2019)	Unspecified Resource-based view	FSTS ROS	Entropy measure FSTS	no yes	Positive linear Positive linear
Ioulianou <i>et al.</i> (2021)	Real options theory	A set of asymmetric FORSUB performance	FORSUB	yes	Positive linear
Elango (2006)[5]	Phenomenon driven	GPM	FSTS	yes	Positive linear, inverted II
Elango and Sethi (2007)[6]	Phenomenon driven	GPM, OPM	FSTS	no	Positive linear, inverted U
Banalieva and Sarathy (2011)[7]	Transaction cost theory, new trade theory and three-stage theory	ROA	FSTS	yes	Positive linear, inverted U
					(continued)

Patterns of inconsistency

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Table A2.

CPOIB 19,2	1														
286	rrs Relation-ship	Positive linear,	Positive linear, Negative linear,	þ	Negative linear	Negative linear	Negative linear	Negative linear	Negative linear	Negative linear	Negative linear	Negative linear	Negative linear	Negative linear, U-shaped, S-	U-shaped
	Moderators included	yes	yes		no	yes	no	yes	no	yes	no	no	no	no	yes
	Dependent variable Independent variable	FSTS	FUKSUB FDI FDI		FSTS	FORSUB, number of regions in which the firm has	subsidiaries FSTS	Geographic distribution of	rotergii subsidial les FSTS	FSTS, FATA, FOTO	FOTO	FORSUB	FSTS	FSTS	FORSUB
	Dependent variable	IROE	KUE Survey-based measure for firm	growth Survey-based measure for firm montrability (ROI)	Risk-adjusted returns FSTS	ROA	ROA	ROA	Tobin's Q	ROA	Profits-per-lawyer,	revenue-per-lawyer Tobin's Q	ROA, ROE	ROA	ROA, ROS
	Theoretical perspective	1 ' ' '	Jearning Contingency theory		d Portfolio theory	Power-dependence perspective	Unspecified	Internalization theory and eclectic paradigm ROA	Institutional theory, Uppsala model, and	Foreign direct investment and three-stage	Internalization theory and transaction cost	uneory Unspecified	New internalization theory	eo20) Benito-Osorio <i>et al</i> , Three-stage theory (2016)[8]	Foreign direct investment
	Study	Zahra <i>et al.</i> (2000)	Lu <i>et al.</i> (2015)		Michel and Shaked Portfolio theory	Kim et al. (2004)	Banalieva and Soutoro (2000)	Li et al. (2011)	Chen and Tan	Singla and George	(2013) Powell (2014)	Ral-Trebacz et al.	Wei and Nguyen	Benito-Osorio <i>et al.</i> (2016)[8]	Lu and Beamish (2001)
Γable A2.	#	37	38		39	40	41	42	43	44	45	46	47	48	49

CPOIB 19,2	1					
288	s Relation-ship	U-shaped,	D-Sudped Inverted U-	Inverted U-	snapeu Inverted U- shaped	Inverted U- shaped
	Moderators included	no	no	no	yes	no
	Dependent variable Independent variable	FSTS	FSTS	FSTS	Entropy measure for DOI	FSTS, FATA, FORSUB
	Dependent variable	ROA BOA		ROS	ROA	ROA, OPSAL
	rspective	lriven	investment	d view and transaction cost	d view, foreign direct insaction cost theory, and	learning investment

Study	(0100)	Theoretical perspective	Dependent variable	Dependent variable Independent variable	included	
Muller <i>et al.</i> (2016) Phenomenon driven	Phenome	non driven	KUA ROA	FORSUB	no	U-shaped, S-shaped
Geringer <i>et al.</i> Foreign d (1989)	Foreign c	Foreign direct investment	ROS	FSTS	no	Inverted U- shaped
Tallman and Li Resource (1996) theory	Resource theory	Resource-based view and transaction cost theory	ROS	FSTS	no	Inverted U- shaped
Hitt et al. (1997) Resource investme organizal	Resource investme organizat	Resource-based view, foreign direct investment, transaction cost theory, and organizational learning	ROA	Entropy measure for DOI	yes	Inverted U- shaped
Gomes and Foreign c Ramaswamy (1999)	Foreign c	Foreign direct investment	ROA, OPSAL	FSTS, FATA, FORSUB	по	Inverted U- shaped
Brock et al. (2006) Phenomenon driven	Phenome	non driven	ROS, PEP	FSTS, FORSUB	no	Inverted U- shaped
Qian et al. (2008) Resource- theory	Resource. theory	Resource-based view and transaction cost theory	ROA, ROS	FSTS, FATA, FETE	no	Inverted U- shaped
Garbe and Richter Foreign d (2009) theory, th learning,	 Foreign d theory, th learning, a 	Garbe and Richter Foreign direct investment, transaction cost (2009) theory, three-stage theory, organizational learning, and Uppsala model	ROS	FATA, FETE, Berry index	no	Inverted U- shaped
Pattnaik and Resource-h Elango (2009)	Resource-	Resource-based view	ROS	FSTS	yes	Inverted U- shaped
Chao and Kumar Institutional theory (2010)		aal theory	ROA	FORSUB	yes	Inverted U- shaped
Qian et al. (2010) Phenomenon driven	Phenomen	on driven	ROA	Entropy measure for DOI	no	Inverted U- shaped
Singh et al. (2010) Upper echelons literature	Upper ech	elons literature	ROA	FSTS	yes	Inverted U- shaped
Elango (2012) Contingency theory	Contingen	cy theory	OPM	FSTS	yes	Inverted U- shaped
Li et al. (2012) Resource-1 theory	Resource-l theory	Resource-based view and transaction cost theory	ROA, ROS	FSTS, Entropy measure for DOI	no	Inverted U- shaped
Chen et al. (2014) phenomer	phenomer	phenomenon driven	ROA	FSTS	yes	Inverted U- shaped
						(continued)

Table A2.

Study	Theoretical perspective	Dependent variable	Dependent variable Independent variable	included	Relation-ship
de Jong and van Houten (2014)	Resource-based view and transaction cost	EBITOA	Composite measure for DOI	yes	Inverted U- shaned
Chen <i>et al.</i> (2015)	Institutional theory	ROE	FSTS	yes	Inverted U-
Jain and Prakash	Eclectic paradigm	ROS	FORSUB	yes	shaped Inverted U-
(2016) Kirca <i>et al.</i> (2016)	Internalization theory	ROA, ROE	FATA	yes	shaped Inverted U-
Gu et al. (2018)	Foreign direct investment	ROA	FORSUB	yes	shaped Inverted U-
Freixanet and Rialn (2022)	Organizational learning	ROS	FSTS	no	snapea Inverted U- shaped
Lee and Hemmert (2021)	tranp.eo.co. Lee and Hemmert Knowledge-based view (2021)	ROA	FSTS	no	Inverted U- shaned
Almodóvar and Rugman (2014)	Organizational learning	ROS	FSTS	no	Inverted U- shaped, M- shaped
Riahi-Belkaoui (1998)	Foreign direct investment, internalization theory, and eclectic naradism	ROA	FRTR	no	S-shaped
Contractor <i>et al.</i> (2003)	Three-stage theory	ROA, ROS	FSTS, FETE, FOTO	no	S-shaped
Lu and Beamish (2004)	Phenomenon driven	ROA Tohin's Q	FORSUB	yes	S-shaped
Thomas and Eden (2004)	Thomas and Eden Foreign direct investment and international (2004) trade theory		FSTS, FATA, FORSUB e	no	S-shaped
Ruigrok <i>et al.</i> (2007)	Mid-range contingency theory	ROA	FSTS	no	S-shaped
Bae <i>et al</i> . (2008)	Resource-based view, internalization theory, ROA, ROS, ROE and eclectic paradizm	, ROA, ROS, ROE	FSTS	yes	S-shaped
Kumar and Singh (2008)	Uppsala model	ROA, ROE	FSTS	no	S-shaped
					(continued)

Patterns of inconsistency

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Table A2.

Study	Theoretical perspective	Dependent variable	Independent variable	Moderators included	s Relation-ship
Bobillo et al. (2010)	Bobillo et al. (2010) Resource-based view and social capital	ROA	FSTS	no	S-shaped
Rugman and Oh	meory Internalization theory	Tobin's Q	RSTS	no	S-shaped
2012)	Foreign direct investment, transaction cost	ROE	Gini coefficient for DOI	yes	S-shaped
d Contractor	meory and meory or miorination costs Resource-based view and transaction cost	Firm market value	FSTS	yes	S-shaped
(2012) Outreville (2012)	theory Eclectic paradigm and Uppsala model	Combined ratio for	GSI	no	S-shaped
Xiao <i>et al.</i> (2013) Oh <i>et al.</i> (2015)	Phenomenon driven Three-stage theory and regional	performance ROA, ROS ROS	ESTS Entropy measure for DOI	yes yes	S-shaped S-shaped
and Aulakh	multinational enterprise theory Three-stage theory	ROA	FSTS	yes	S-shaped
(2018) Almodóvar (2012) Lee (2013)	Resource-based view and Uppsala model Phenomenon driven	ROS ROE	Export intensity FSTS	no ves	M-shaped M-shaped
	Phenomenon driven	Net profits to assets	FSTS FSTS	no	No relationship
Sambharya (1995) Peterson <i>et al.</i> (1996)	rnenomenon driven Phenomenon driven	kua, kus, kue Roa, roe	F515, FA1A, FUK5UB Survey-based measure for DOI	no	No relationship No relationship
1998) and Yaffe	Phenomenon driven Resource-based view	ROE PEP	Entropy measure for DOI FORSUB, percentage of lawvers abroad	yes no	No relationship No relationship
-Bullón 22-Bueno	and Phenomenon driven	ROA	Entropy measure for DOI	yes	No relationship
Rugman <i>et al.</i> (2016)	New internalization theory	ROA	FSTS	no	No relationship
et al. (2017)	Resource-based view and transaction cost	ROA	FSTS	yes	No relationship
Buckley and Tian	Internalization theory	ROA	FSTS, FATA, FETE	no	No relationship

endix 4			Patterns of inconsistency
	s Relation-ship	No relationship Not stated Not stated Not stated Not applicable	port sales to total = ratio of foreign M = gross profit ii. OPSAL = ratio ROE = return on RAT = total asset 531
	Moderators included	no no no no d no and	tts; ESTS = ex ncome; FOTO g profit margi rn on Assets, o total sales; T
	Dependent variable Independent variable	FORSUB FSTS FORSUB FORSUB FORSUB FSTS, FRTR, survey-based measure for internationalization scope and scale	taxes divided by total asse = ratio of foreign to total in SSTS = ratio of foreign to otal sales; OPM = operatin quity partner; ROA = retu ss; RSTS = regional sales t ae book value of assets
	Dependent variable	ROA ROE ROA, ROS ESTS Survey-based measure for organizational	aings before interest and to total employees; FTT1 regin to total revenues; I TTS = operating costs to to sts; REP = return on sale ets; ROS = return on sale alue of debt divided by th
	y Theoretical perspective	Pisani <i>et al.</i> (2020) Unspecified Rugman (1983) Internalization theory Palich <i>et al.</i> (2000) International impediments theory Wiersema and Resource-based view, foreign direct Bowen (2011) investment, three-stage theory and organizational learning Dikova and Contingency theory Veselova (2021)[11]	Motes: ATMITA = after-tax net income to total assets; BBITOA = earnings before interest and taxes divided by total assets; ESTS = export sales to total assets; FBTB = ratio of foreign to total assets; FBTB = ratio of operating costs to total asset; FBTB = ratio of operating costs to total asset; FBTB = ratio of operating costs; PEP = profit margin; OCTS = operating costs; PEP = profit partner; ROA = return on Assets; ROA = return on the asset; ROA = return on the asset; ROA = return on asset; ROA = return on the asset; ROA = return on asset; ROA = return on the asset; ROA = return on
	# Study	111 Pisa 112 Rug 113 Pali 114 Wie Bow 115 Dik Vess	Notes: ATNITA = afte sales; FATA = ratio of to total offices; FORSU margin; GSI = Geograp of operating costs to sa equity; RONA = return turnover; Tobin's Q = s

Appendix 4

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#	Moderator	Measurement	Effect	Findings significant	Study
Firm char	Firm characteristics $N = 32$	-			
1	attainment discrepancy	difference between firm aspirations and the firm's actual performance	positive	yes	Lin <i>et al.</i> (2011)
2	bank debt	sum of all bank loans divided by the MVF	negative	yes	O'Brien <i>et al.</i> (2014)
33	bond debt	sum of all bonds and long-term notes divided by the MVF	negative	yes	O'Brien et al. (2014)
4	firm age	natural logarithm of the number of years of operation since the firm's inception	positive	yes	Singla and George (2013)
5	firm size	total number of employees, logarithmized	positive	yes	Fisch (2012)
9	firm size	natural logarithm of total sales	positive	no	Singla and George (2013)
2	firm type	dummy variable	negative	yes	Fisch (2012)
x	high-discretion slack	current assets divided by current liabilities	positive	yes	1711 <i>et a</i> r. (2011)
6	intangible assets in the field of R&D	ratio of expenses for R&D to total sales	negative	yes	Dittfeld (2017)
10	intangible assets in the field of	ratio of selling, general, and	positive	yes	Dittfeld (2017)
;	marketing	administrative expenses to total sales	-		
11	international asset dispersion	total number of countries in which a firm operates subsidiaries	negative	yes	Kirca <i>et al.</i> (2016)
12	international expansion	firm's relative increase in the spread of international operations (inverted Gini coefficient measure)	positive	yes	Fisch (2012)
13	leverage	total debt (bank loans plus bond debt) divided by the total MVF	negative	yes	O'Brien <i>et al.</i> (2014)
14 15	low-discretion slack marketing advantages	equity to debt ratio selling, general, and administrative expenses (SGA) stock	positive positive	yes yes	Lin <i>et al.</i> (2011) Li <i>et al.</i> (2011)
16	marketing capabilities	dummy variable	positive	yes	Sun <i>et al.</i> (2019)
17 18	technological advantages primarv industrv	patent count and R&D stock dummv variable	positive positive	yes ves	Li <i>et al.</i> (2011) Borda <i>et al.</i> (2017)
					(continued)

Table A3.Moderators andeffect on the M-

relationship

1												\$							(pən	Patterns of inconsistency
Study	Pangarkar and Yuan (2021)	Gaur and Kumar (2009) Singla and George (2013), Deteolvic of al (2018)	Dausakus <i>et u</i> . (2010) Kim <i>et al</i> . (2004)	Borda <i>et al.</i> (2017)		Hsu <i>et al.</i> (2013) Hsu <i>et al.</i> (2013)	Hsu et al. (2013) Hsu et al. (2013)	Hsu $et al. (2013)$	Hsu <i>et al.</i> (2013)	Tsao and Chen (2012)	Lu <i>et al.</i> (2015)	Muñoz-Bullón and Sánchez- Buono (2019)	Tsao and Lien (2013)	Tsao and Lien (2013)	Xiao <i>et al.</i> (2013) Chen <i>et al.</i> (2015)	Teac and Chan (9019)	1 200 0110 CIICH (2017)	Gu <i>et al.</i> (2018) Chen <i>et al.</i> (2015)	(continued)	293
Findings significant	yes	yes	yes	yes		yes	yes Ves	yes	no	yes	yes	I	ves	yes	yes Yes	2011	y co	yes –		
Effect	positive	negative positive	positive	positive		negative	positive	positive	negative	negative	negative	none	positive	positive	positive Positive	nocitiva	DAMISON	positive none		
Measurement	total sales growth in each industry to identify stage in the industry life cycle	dummy variable dummy variable	dummy variable	number of industries in which the business group affiliates participate	pagingo grad armano barno bar	number of years from the date of birth	categorical variable	dummy variable	OFD has been in that monition	ratio of voting rights to cash flow	rights dummy variable	dummy variable	dummy variable	percentage of common stock owned by	family members Dummy variables share of foreign-owned paid-in capital	over the total paid-in capital of the firm	ultimoto ormon	dummate owner dummy variable share of state-owned paid-in capital over the total paid-in capital of the firm		
Moderator	industry life cycle	<i>Dustriess group aljuation</i> business group affiliation business group affiliation	business group affiliation	(keiretsu membersnip) business group diversification	Corporate governance	CEO age	CEO educational level	CEO international experience	CEO tenure	entrenchment effect	family dominance in the TMT	family firm	family firm	family ownership	firm's governance structure foreign ownership	incentive elicement effect		ownership structure state ownership		
#	19	20	21	22		23	52 74	26	27	28	29	30		31	33 33	76	[‡]	35 36		Table A3.

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294	Study	Singh <i>et al.</i> (2010)	Upadhyayula <i>et al.</i> (2017) Xiao <i>et al.</i> (2013)	Lee (2013)	Elango (2012)	Elango (2006)	Li and Yue (2008)	Tan and Chintakananda (2016)	Cuervo-Cazurra <i>et al.</i> (2018) Cuervo-Cazurra <i>et al.</i> (2018) Tan and Chintakananda (2016)	Chao and Kumar (2010)	Chao <i>et al.</i> (2012)	Chao and Kumar (2010)	Chao <i>et al.</i> (2012))	Wan (1998) Upadhyayula <i>et al.</i> (2017) Banalieva and Sarathy (2011)	(continued)
	Findings significant	yes	yes	yes	yes	yes	yes	yes	yes yes	yes	yes	yes	yes	yes –	
	Effect	positive	none positive	positive	negative	positive	positive	positive	positive positive positive	positive	positive	negative	negative	none positive negative	
	Measurement	average number of years for which the TMT members have worked in a particular industry	dummy variable scale ranging from 1 to 10	magnitude of foreign export sales	[(Global industry growth rate)] –	[[LIDILE COULU] ILLUGEL Y BLOW ULLARE] mean average score of 6 governance	dummy variables	Index	Index Index combination of four indices	Index	Index	Index	Index	entropy measure dummy variable	
	Moderator	TMT Experience	 Home-country context N = 15 38 cluster presence 39 degree of centralized 	degree of home-region	difference in growth rate	home country governance	home country legal	home country political stability	home country political risk home country corruption home country regulatory offeoritymeses	normative institutional	uistance normative institutional	uistance regulative institutional	regulative institutional	industrial diversification quality certification trade liberalization	
Table A3.	#	37	Home-cou 38 39	40	41	42	43	44	45 46 47	48		49		50 52	

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296	Study	Pattnaik and Elango (2009)	Chen et al. (2014)	Berry and Kaul (2016)	Kirca <i>et al.</i> (2016) Kotabe <i>et al.</i> (2002) Lu and Beamish (2004), Bae	et ut. (2006) Ioulianou <i>et al.</i> (2021) Chen <i>et al.</i> (2015)	Pattnaik and Elango (2009) Abdi and Aulakh (2018)	Chen et al. (2014)	Fisch (2012)	Thomas (2006)	Gu <i>et al.</i> (2018)	Chang and Wang (2007)	Hitt <i>et al.</i> (1997), Hsu (2006) Oh and Contractor (2012) Oh <i>et al.</i> (2015)	(continued)
	Findings significant	yes	yes	I	yes no yes	yes yes	yes	yes	yes	110	yes	no	yes no yes	
	Effect	negative	positive	none	positive negative positive	positive positive	none positive	positive	negative	negative	positive	positive	positive positive negative	
	Measurement	annual advertising expenditure divided by sales marketing expenditures divided by	logarithm of (advertisement cost to	number of employees) parent firm's R&D spending as a	per centage of its safes firms' unique technological assets R&D expenditure divided by sales R&D expenditures divided by sales	dummy variable marketization index for Chinese regions	developed by Fan et al. (2011) research expenditures divided by sales instural logarithm of the firm's annual	sates ratio of R&D cost to annual sales revenue	mean distance between a firm's HQ	and its foreign subsidiaries location data, where each firm reports	up to turee country export destinations dummy variable	not specified	entropy measure Herfindahl type index entropy index	
	Moderator	marketing intensity	marketing resources	R&D intensity	R&D intensity R&D intensity R&D intensity	real options awareness region-specific marketization	research intensity scale of operations	technological resources	Location strategies geographic distance	geographic distance	location choice	r rought unersquared overall effect of product diversification (related and	unctated) product diversification product diversification product diversification	
Table A3.	#		68	69	70 71	72 73	74 75	76	77	78	62	80	81 82 83 83	

#	Moderator	Measurement	Effect	Findings significant	Study
84	related product diversification	entropy index; weighted average of the positive firm's degree of diversification within	positive	yes	Chang and Wang (2007)
85	related product diversification	related business segments dummy variable	positive	yes	Chen <i>et al.</i> (2014)
86	umrelated product diversification	entropy index; weighted average of the firm's degree of diversification within	negative	yes	Chang and Wang (2007)
		unrelated business segments			
87	unrelated product diversification	dummy variable	negative	yes	Chen <i>et al.</i> (2014)
	Cultural diversity				
88	cultural diversity	cultural distance index	negative	yes	de Jong and van Houten
89	computer-mediated	5-point Likert scale	positive	yes	Andersen and Foss (2005)
06	Tinvestment	IT investment made in 1997 divided by positive number of employees	positive	yes	Chari <i>et al.</i> (2007)
Notes: T sometime	Notes: The coding of the effect (positive, sometimes reported insignificant results	Notes: The coding of the effect (positive, negative or none) is based on the claims made by the authors in the respective paper, even though they sometimes reported insignificant results	s made by the au	thors in the resp	ective paper, even though they

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