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Invited paper

Industrial marketing management: Bibliometric overview since its foundation

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ABSTRACT

Industrial Marketing Management (IMM) is an outstanding journal in the field of business-to-business marketing. This paper focuses on this journal, with an extensive bibliometric analysis of IMM from its foundation in 1971 to 2017, the last year analyzed in this study. It identifies, among others, the annual evolution of publications, the most influential countries, the most relevant authors, the most prominent institutions supporting research, as well as the citations of IMM papers in major marketing, but also other, business and management journals. To do so, this research uses the Web of Science Core Collection and Scopus databases, and analyzes a wide range of bibliometric indicators, including the total number of publications and citations, citations per paper, the h-index, m-value and citation thresholds, and also develops a graphical analysis of the bibliographical material using the visualization of similarities (VOS) viewer software. Finally, by applying a cluster analysis by fractional accounting, this research identifies trends and proposes future topics and research lines, such as: trust, innovation, performance, relationship marketing, the future role of new technologies in industrial marketing research, online marketing and corporate image.

1. Introduction

Industrial Marketing Management (IMM) is the first journal to focus on the field of business-to-business marketing (Lindgreen & Di Benedetto, 2018). The journal published its first issue in September 1971 and the first editor-in-chief was R. Derek Medford. In 1994, Peter LaPlaca stepped down as editor-in-chief of the Journal of Business & Industrial Marketing and became the editor-in-chief of IMM; his tenure has been key to strengthening its international image and position in the most prestigious journals rankings (Beverland, 2018). In 2015, Adam Lindgreen from Copenhagen Business School became co-editor of the journal, and in 2017 Anthony Di Benedetto, from Temple University (USA), was appointed co-editor-in-chief, replacing LaPlaca (LaPlaca & Lindgreen, 2016).

The journal has grown significantly over time, and today, it

publishes more than 100 articles per year. The journal is well-recognized as one of the leading journals in marketing, especially in the context of B2B marketing (Di Benedetto & Lindgreen, 2018). According to the Journal Citation Reports of the Web of Science Core Collection of Clarivate Analytics, the journal has a 2-year impact factor of 3.678 and a 5-year impact factor of 4.488. Examining the results of the 2-year impact factor, the journal ranks 30th out of 140 journals in the field of Business, and 37th out of 210 journals in Management, which demonstrates the relevance of this journal in the field of Business and Industrial Marketing. In fact, IMM's position as measured by Thomson's JCR Impact Factor has strengthened steadily in recent years, from 1930 (2015) to 3166 (2016), 3678 (2017) and 4779 (2018), which confirms the increasing influence of the journal during the tenure of Lindgreen and Di Benedetto.

This prominent role in the areas of business and marketing is even

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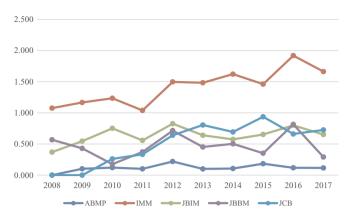


Fig. 1. Evolution of Impact Factor in Scopus (2008-17).

more evident in other search engines, such as Google Scholar, or in the evolution of the number of citations of IMM. Considering the impact factor in Scopus, a comparative analysis with some of the most relevant journals in this area of research, as identified in LaPlaca and Katrichis (2009), shows IMM's prominent position (see Fig. 1) with respect to journals such as: Advances in Business Marketing & Purchasing (ABMP), the Journal of Business and Industrial Marketing (JBIM), the Journal of Business-to-Business Marketing (JBBM), and the Journal of Customer Behavior (JCB), all of which have grown modestly, with the exception in recent years of the latter.

Considering that IMM is approaching its 50th anniversary, it seems reasonable to develop some retrospective evaluation of the journal (Schwert, 1993). Therefore, the aim of this study is to present a full bibliometric overview of IMM, from its foundation, in order to identify the leading actors in the journal in terms of authors, institutions, countries and documents. Moreover, the work also aims to analyze how IMM connects with other journals in terms of citations and determine the most popular topics. Additionally, the article also develops a graphical mapping of the bibliographic data by using co-citation analysis (Small, 1973), co-occurrence of author keywords (Wang et al., 2018) and bibliographic coupling (Kessler, 1963). The work builds these maps by using the visualization of similarities (VOS) viewer software (Van Eck & Waltman, 2010). This paper offers a complementary and incremental contribution to others providing some bibliometric data and previously published in IMM, many of them published in 2018 to pay tribute to Peter LaPlaca's tenure as Editor-in-Chief of the journal (see next section).

The remainder of this article is structured as follows. First, we provide a brief recap of the main papers using bibliometric data in marketing-related topics. Then we briefly describe relevant bibliometric-related papers published in IMM and in other business marketing journals, some of them written by editors of IMM, to show the interestingness of this paper in closing the loop in terms of detailed bibliometric data and full lifespan of the journal. Section 3 briefly reviews the bibliometric methods used in the analysis. Section 4 presents the bibliometric results available in Web of Science Core Collection database, identifying key authors, institutions, countries and documents. Section 5 develops a graphical visualization of the results focusing on journals and keywords. Section 6 summarizes the main findings and conclusions of the article. Finally, we acknowledge some limitations.

2. Background

2.1. General considerations on bibliometric studies in marketing-related topics

Bibliometrics is the research field of information and library science that studies bibliographic material by using quantitative and statistical

methods (Broadus, 1987; Pritchard, 1969). Bibliometrics is a highly useful approach for developing an overview of a research field as it identifies the leading trends by using different bibliometric indicators such as the number of publications and citations. In the marketing literature, there are several bibliometric studies. Some of them focus on the analysis of journals, including the work of Tellis, Chandy, and Ackerman (1999), which analyzes diversity between marketing journals. Theoharakis and Hirst (2002) study the perceptions of leading marketing journals. Moussa and Touzani (2010) rank marketing journals by using Google Scholar. Svensson and Wood (2007, 2008) develop a method for distinguishing between leading and top journals in the field of marketing. Theubl. Reutterer, and Hornik (2014) consider methods for reaching consensus in rankings of marketing journals. Di Benedetto, Sarin, Belkhouja, and Haon (2018) study how IMM influences other marketing journals. Other works analyze the leading scholars and institutions in marketing, including Bakir, Vitell, and Rose (2000), Chan, Lai, and Liano (2012) and Saad (2010). Other studies analyze a specific marketing topic (Coombes & Nicholson, 2013; Sinkovics, 2016), such as consumer research (Baumgartner, 2010; Jia, Zhou, & Allaway, 2018; Zuschke, 2019), brand personality (Radler, 2018), international marketing (Samiee & Chabowski, 2012), sustainability research in marketing (Chabowski, Mena, & &Gonzalez-Padron, T.L., 2011), business-to-business (Backhaus, Lugger, & Koch, 2011; Kumar, Sharma, & Salo, 2019; Moller & Halinen, 2018), business capabilities (Kouropalatis, Giudici, & Acar, 2019), financial marketing (Munoz-Leiva, Sanchez-Fernandez, Liebana-Cabanillas, & Martinez-Fiestas, 2013) and global branding (Chabowski, Samiee, & Hult, 2013).

In the field of marketing, several journals have published bibliometric analyzes of themselves, including the Journal of Consumer Research (Hoffman & Holbrook, 1993), Journal of Advertising (Zinkhan & Leigh, 1999), Journal of Public Policy & Marketing (Sprott & Miyazaki, 2002), International Marketing Review (Malhotra, Wu, & Whitelock, 2005, 2013), Journal of Food Products Marketing (Dabirian, Diba, Tareh, & Treen, 2016), Journal of Business & Industrial Marketing (Valenzuela, Merigó, Johnston, Nicolás, & Jaramillo, 2017) and the European Journal of Marketing (Martínez-López, Merigó, Valenzuela, & Nicolás, 2018). Moreover, other journals have published particular discussions on themselves motivated by a significant anniversary; some examples include the Journal of Marketing for its 75th anniversary (Bolton, 2011), the Journal of Management for its 30th anniversary (Van Fleet et al. 2006) and Marketing Science (Shugan, 2006) and the Journal of Marketing Research (Meyer & Winer, 2014) for their 50th anniversary.

2.2. Main bibliometric-related works

There are previous works reviewing the existing literature on industrial marketing; six articles with a specific bibliometric approach, related to industrial marketing, have been identified (see Table 1). However, this paper provides several incremental contributions.

Two of these works do not focus on IMM, but on identifying the main research areas and topics within industrial marketing. LaPlaca and Katrichis (2009) evaluated 31 journals –24 general marketing journals and 7 journals focusing specifically on industrial or B2B marketing—, beginning in 1936 with the publication of Journal of Marketing); it was not until 1972, with the introduction of IMM, when a continuous stream of industrial marketing research began. Lichtenthal, Tzempelikos, and Tellefsen (2018) analyzed the proliferation of related journals and associated titles within the subfields related to industrial marketing. They observed societal forces driving the creation of this type of publication. These authors showed the evolution of this kind of journal, provided a retrospective and qualitative analysis, and described the impact of industrial forces on publishing this type of journal between 1971 and 2016.

The other four works focused on IMM, but with quite different perspectives. LaPlaca (1997), published in the Journal of Business

Table 1Bibliometric-related papers on industrial marketing published in IMM and other journals.

| Paper | Analyzed journals | Key statement |
|--------------------------------------|--|---|
| LaPlaca (1997) | Industrial Marketing Management (IMM) (1971–1994). | Major research areas in IMM: marketing management, market segmentation, strategic marketing planning, selling and sales management, purchasing and industrial buying behavior, global and international, researching industrial markets, innovation and new product development, distribution, pricing, and promotions and advertising. |
| LaPlaca and Katrichis (2009) | 31 marketing journals (1936–2006). | Main trends in industrial marketing research: buyer behavior, sales management, marketing relationships, innovation and new product development, marketing strategy, and channels of distribution. |
| Lindgreen and Di Benedetto (2018) | Top 30 citation classics from IMM (1971–2016). | Topics in which 30 citation classics are framed: firm performance, goods-dominant and service-dominant logics, Internet and high-technology markets, product innovation, relationships and business networks, supply chains, system sellers and systems integrator, third-party logistics providers, and value. |
| Di Benedetto and Lindgreen (2018) | IMM (1994–2016). | Analysis of statistics and content in IMM, 1994–2016. |
| Lichtenthal et al. (2018) | Journals within subfields related to industrial marketing (1971–2016). | Analysis of the proliferation of journals within subfields related to industrial marketing. Description of the associated impact of industrial forces in the last 45 years (1971–2016) for the publication of journals. |
| Di Benedetto et al. (2018) | Tracing the impact that IMM has had on marketing literature (1999–2013), considering self- and cross-citation rates in top tier, second tier and specialized marketing journals. | The results showed relatively low citation patterns for IMM in some of the top-tier marketing journals. IMM has retained a strong and growing presence in the second-tier and specialized B2B marketing journals. |

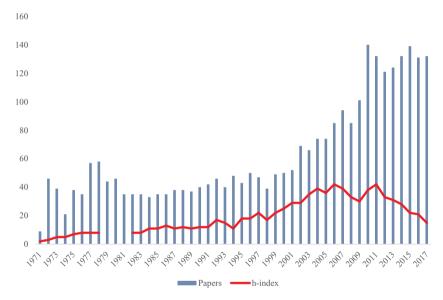


Fig. 2. Annual number of papers published in IMM and h-index. 1979, 1980 and 1981 do not have h-index because WoS do not provide them during these years.

Research, analyzes the first years of IMM and aimed to identify its contribution to the field of marketing applied to the industry. This articles provided information about the major topical areas in IMM; La-Placa found that > 30% of IMM's articles focused on the management of marketing and sales functions. Logically, this work focused on the first stage of the journal (1971–1994). In more recent works, Lindgreen and Di Benedetto (2018) have also studied IMM, but focused on the top 30 citation classics from this journal, from 1971 to 2016. They have analyzed several aspects and classified them according to the topics in which they are framed (i.e., firm performance, goods-dominant/service-dominant logics, Internet and high-technology markets, product innovation, relationships and networks, supply chains, system sellers and systems integrator, third-party logistics providers, and value), and fields related to (e.g., supply chain management, strategic management, and innovation).

Di Benedetto et al. (2018) have provided a citation analysis of the impact of IMM on marketing literature (1999–2013). This research has analyzed the evolution that IMM has had in terms of its Impact Factor (JCR, SSCI), and citations in major industrial/business marketing

journals. They provided article-by-article citation data from 336 journals in major business disciplines from the Web of Science, considering self-and cross-citation rates in top tier, second tier and specialized marketing journals. Finally, Di Benedetto and Lindgreen (2018) have studied in depth the evolution of business-to-business marketing, not only looking at the statistics, but also at the content of IMM publications, although this study was limited to the period in which Peter J. LaPlaca was editor-in-chief of the journal (1994–2016).

Our paper expands and enriches the view of both industrial/business marketing, and especially of IMM itself, provided by the above papers. It covers the lifespan of IMM and all the articles published within, from its foundation to 2017, the last year of the bibliometric analyses. Among other fields, it shows the annual evolution of publications in the journal, the most influential countries publishing in it, the most relevant authors, institutions supporting research, and citations in relevant major marketing journals focusing on industrial/business-to-business marketing. Finally, by using a bibliometric analysis and a cluster analysis by fractional accounting, this research identifies trends and proposes future topics and research lines.

Table 2The 50 most frequently cited documents in IMM.

| R | TC | Title | Author/s | Year | C/Y |
|----|-----|---|--|------|------|
| 1 | 833 | Issues in supply chain management | Lambert, DM; Cooper, MC | 2000 | 49.0 |
| 2 | 756 | Learning orientation, firm innovation capability, and firm performance | Calantone, RJ; Cavusgil, ST; Zhao, YS | 2002 | 50.4 |
| 3 | 563 | The agile supply chain – Competing in volatile markets | Christopher, M | 2000 | 33. |
| 4 | 530 | Innovativeness: Its antecedents and impact on business performance | Hult, GTM; Hurley, RF; Knight, GA | 2004 | 40. |
| 5 | 475 | "Coopetition" in business networks – To cooperate and compete simultaneously | Bengtsson, M; Kock, S | 2000 | 27.9 |
| 6 | 342 | It's all B2B and beyond: Towards a systems perspective of the market | Vargo, SL; Lusch, RF. | 2011 | 57. |
| 7 | 333 | The role of trust and relationship structure in improving supply chain responsiveness | Handfield, RB; Bechtel, C | 2002 | 22. |
| 8 | | | | 2002 | 20. |
| 0 | 330 | Value creation in buyer-seller relationships – Theoretical considerations and empirical results from a supplier's perspective | Walter, A; Ritter, T; Gemunden, HG | 2001 | 20. |
| 9 | 285 | From goods to service(s): Divergences and convergences of logics | Vargo, SL; Lusch, RF. | 2008 | 31 |
| 10 | 260 | Managing in complex business networks | Ritter, T; Wilkinson, IF; Johnston, WJ | 2004 | 20 |
| 11 | 252 | The asymmetric relationship between attribute-level performance and overall customer satisfaction: a | Matzler, K; Bailom, F; Hinterhuber, HH; et | 2004 | 19 |
| | | reconsideration of the importance-performance analysis | ál | | |
| 12 | 246 | Capturing value creation in business relationships: A customer perspective | Ulaga, W | 2003 | 17 |
| 13 | 245 | Value in business markets: What do we know? Where are we going? | Lindgreen, A; Wynstra, F | 2005 | 20 |
| 14 | 238 | The benefits of Guanxi – The value of relationships in developing the Chinese market | Davies, H; Leung, TKP; Luk, STK | 1995 | 10 |
| 15 | 231 | The impact of information technology on supply chain capabilities and firm performance: A resource- | Wu, F; Yeniyurt, S; Kim, D | 2006 | 21 |
| J | 231 | based view | wu, r, Temyurt, 3, Kiii, D | 2000 | 21 |
| 6 | 228 | A portfolio approach to supplier relationships | Olsen, RF; Ellram, LM | 1997 | 11 |
| 7 | 212 | Business relationships and networks: Managerial challenge of network era | Moller, KK; Halinen, A | 1999 | 11 |
| 8 | 210 | Business suppliers' value creation potential – A capability-based analysis | Moller, KEK; Torronen, P | 2003 | 15 |
| 9 | 208 | Measuring customer-perceived value in business markets – A prerequisite for marketing strategy | Ulaga, W; Chacour, S | 2001 | 13 |
| | | development and implementation | 0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| 20 | 200 | Organizing for solutions: Systems seller vs. systems integrator | Davies, A; Brady, T; Hobday, M | 2007 | 20 |
| 1 | 198 | Success factors in product innovation | Cooper, RG; Kleinschmidt, EJ | 1987 | 6. |
| 2 | 193 | The influence of brand image and company reputation where manufacturers market to small firms: A | Cretu, Anca E.; Brodie, Roderick J. | 2007 | 19 |
| _ | 1,0 | customer value perspective | Greta, Finea E., Droate, Roderick V. | 2007 | |
| 23 | 191 | Strategic development of third party logistics providers | Hertz, S; Alfredsson, M | 2003 | 13 |
| 4 | 190 | A service perspective on business relationships: The value creation, interaction and marketing interface | Gronroos, C | 2011 | 31 |
| 5 | 189 | Critical realism in case study research | Easton, Geoff | 2010 | 27 |
| 26 | 185 | Functions of industrial supplier relationships and their impact on relationship quality | Walter, A; Muller, TA; Helfert, G; et ál | 2003 | |
| 7 | 178 | Strategizing in industrial networks | Gadde, LE; Huemer, L; Hakansson, H | 2003 | 12 |
| 28 | 177 | An evaluation of divergent perspectives on customer relationship management: Towards a common | Zablah, AR; Bellenger, DN; Johnston, WJ | 2004 | 13 |
| 20 | 176 | understanding of an emerging phenomenon | Corre D. Colle D | 2000 | 1.0 |
| 29 | 176 | Marketing solutions in accordance with the S-D logic: Co-creating value with customer network actors | Cova, B; Salle, R | 2008 | 19 |
| 0 | 173 | Making the most of supplier relationships | Gadde, LE; Snehota, I | 2000 | 10 |
| 1 | 169 | Rise of strategic nets – New modes of value creation | Moller, K; Rajala, A | 2007 | 16 |
| 2 | 169 | Leadership and organizational learning's role on innovation and performance: Lessons from Spain | Aragon-Correa, JA; Garcia-Morales, VJ; Cordon-Pozo, E | 2007 | 1 |
| 33 | 167 | Deconstructing the relationship between entrepreneurial orientation and business performance at the | Hughes, M; Morgan, RE. | 2007 | 10 |
| ,, | 107 | embryonic stage of firm growth | riagnes, w, morgan, res. | 2007 | 1, |
| 34 | 162 | Modeling agility of supply | Agarwal, A; Shankar, R; Tiwari, M. K. | 2007 | 16 |
| 35 | 161 | Identifying industrial new product success: Project NewProd | Cooper, RG | 2007 | |
| | | | = | 2006 | 1. |
| 36 | 159 | Removing the fuzziness from the fuzzy front-end of service innovations through customer interactions | Alam, I | 2006 | 14 |
| 7 | 157 | Antecedents of commitment and trust in customer-supplier relationships in high technology markets | de Ruyter, K; Moorman, L; Lemmink, J | 2001 | 9. |
| 8 | 156 | Managing your corporate images | Dowling, GR | 1986 | 5. |
| 9 | 153 | Guanxi vs. relationship marketing: Exploring underlying differences | Wang, CL | 2007 | 1: |
| 0 | 152 | Branding importance in business-to-business markets – Three buyer clusters | Mudambi, S | 2002 | 10 |
| 1 | 151 | Demand chain management-integrating marketing and supply chain management | Juttner, U; Christopher, M; Baker, S | 2007 | 1 |
| 2 | 150 | Value co-creation in knowledge intensive business services: A dyadic perspective on the joint problem solving process | Aarikka-Stenroos, L; Jaakkola, E | 2012 | 3 |
| 3 | 150 | Global sourcing strategy and sustainable competitive advantage | Kotabe, M; Murray, JY | 2004 | 1 |
| 4 | 147 | Predevelopment activities determine new product success | Cooper, RG | 1988 | 5. |
| 5 | 146 | New managerial challenges from supply chain opportunities | Ballou, RH; Gilbert, SM; Mukherjee, A | 2000 | 8. |
| 6 | 146 | Supplier relationships – Emerging issues and challenges | Sheth, JN; Sharma, A | 1997 | 7. |
| | | | Sheth, JN; Sharma, A | | |
| 7 | 145 | Usage, barriers and measurement of social media marketing: An exploratory investigation of small and medium B2B brands | onem, Jiv, Sharma, A | 2011 | 2 |
| 8 | 145 | Moving from basic offerings to value-added solutions: Strategies, barriers and alignment | Matthyssens, P; Vandenbempt, K | 2008 | 10 |
| | | | Kjellberg, H; Helgesson, CF | 2006 | 13 |
| 19 | 144 | Multiple versions of markets: Multiplicity and performativity in market practice | Kjenberg, n; neigesson, Cr | 2000 | 1, |

Abbreviations: R = Rank; TC = Total citations; C/Y = Citations per year.

3. Methodology

Bibliometrics is a research field of information and library sciences that analyzes bibliographic data with quantitative methods (Broadus, 1987; Pritchard, 1969). To develop a bibliometric analysis, it is important to select the bibliometric indicators that will be used in the study (Bar-llan, 2008; Ding, Rousseau, & Wolfram, 2014). The objective is to choose those indicators that best represent the information considered in the problem. This issue has several complexities because today there is a lack of consensus regarding the optimal bibliometric

indicator that represents the information. The two main directions concern the number of publications that measure productivity and the number of citations that measure popularity and influence (Blanco-Mesa, Merigó, & Gil-Lafuente, 2017; Merigó, Mas-Tur, Roig-Tierno, & Ribeiro-Soriano, 2015). From a general point of view, it is clear that both indicators are relevant, for example, for the analysis of authors, universities or countries. However, the importance of each case in the problem is not clear because sometimes we may assign more importance to productivity and sometimes to the number of citations. Therefore, each decision maker may assign different importance to

Table 3Top 40 most frequently cited documents in IMM publications.

| Rank | Year | First author | Reference | Vol | Page | Type | TC | Co-citations |
|------|------|---------------|--|------|-------|------|-----|--------------|
| 1 | 1994 | Morgan RM | J Marketing | v58 | p20 | A | 358 | 352 |
| 2 | 1981 | Fornell C | J Marketing Res | v18 | p39 | A | 272 | 269 |
| 3 | 1977 | Armstrong JS | J Marketing Res | v14 | p396 | A | 268 | 250 |
| 4 | 1987 | Dwyer FR | J Marketing | v51 | p11 | A | 263 | 253 |
| 5 | 1995 | Hakansson H | Dev Relationships in Business Networks | | | В | 247 | 244 |
| 6 | 1989 | Eisenhardt KM | Acad Manage Rev | v14 | p532 | Α | 207 | 204 |
| 7 | 1988 | Anderson JC | Psychol Bull | v103 | p411 | Α | 198 | 197 |
| 8 | 1990 | Anderson JC | J Marketing | v54 | p42 | Α | 197 | 194 |
| 9 | 1991 | Barney J | J Manage | v17 | p99 | Α | 192 | 191 |
| 10 | 1994 | Ganesan S | J Marketing | v58 | p1 | Α | 187 | 185 |
| 11 | 1982 | Hakansson H | Int Marketing and Purchasing of Industrial Goods | | | В | 186 | 181 |
| 12 | 2003 | Podsakoff PM | J ApplPsychol | v88 | p879 | Α | 179 | 175 |
| 13 | 1994 | Anderson JC | J Marketing | v58 | p1 | Α | 165 | 161 |
| 14 | 1990 | Kohli AK | J Marketing | v54 | p1 | Α | 158 | 155 |
| 15 | 2004 | Vargo SL | J Marketing | v68 | p1 | Α | 155 | 150 |
| 16 | 2002 | Hakansson H | J Bus Res | v55 | p133 | Α | 150 | 149 |
| 17 | 1994 | Day GS | J Marketing | v58 | p37 | Α | 149 | 146 |
| 18 | 1997 | Doney PM | J Marketing | v61 | p35 | Α | 149 | 149 |
| 19 | 1998 | Dyer JH | Acad Manage Rev | v23 | p660 | Α | 144 | 143 |
| 20 | 1993 | Jaworski BJ | J Marketing | v57 | p53 | Α | 144 | 141 |
| 21 | 1979 | Churchill GA | J Marketing Res | v16 | p64 | Α | 143 | 140 |
| 22 | 2002 | Dubois A | J Bus Res | v55 | p553 | Α | 141 | 139 |
| 23 | 1978 | Nunnally J | Psychometric Theory | | | В | 137 | 126 |
| 24 | 1990 | Narver JC | J Marketing | v54 | p20 | Α | 135 | 131 |
| 25 | 1994 | Miles MB | Qualitative Data Analysis | | | В | 131 | 128 |
| 26 | 1992 | Anderson E | J Marketing Res | v29 | p18 | Α | 121 | 121 |
| 27 | 1997 | Teece DJ | Strategic Manage J | v18 | p509 | A | 116 | 116 |
| 28 | 1986 | Podsakoff PM | J Manage | v12 | p531 | A | 107 | 106 |
| 29 | 2003 | Ford D | Managing Business Relationships | | | В | 104 | 103 |
| 30 | 2009 | Hakansson H | Business in Networks | | | В | 102 | 100 |
| 31 | 1988 | Bagozzi RP | J Acad Market Sci | v16 | p74 | Α | 101 | 100 |
| 32 | 1978 | Pfeffer J | External Control of Organizations | | | В | 99 | 96 |
| 33 | 1999 | Cannon JP | J Marketing Res | v36 | p439 | Α | 98 | 94 |
| 34 | 1994 | Yin RK | Case Study Research Design | | | В | 97 | 92 |
| 35 | 1980 | Ford D | Eur J Marketing | v14 | p339 | A | 96 | 94 |
| 36 | 1985 | Granovetter M | Am J Sociol | v91 | p481 | A | 96 | 96 |
| 37 | 2005 | Halinen A | J Bus Res | v58 | p1285 | Α | 96 | 96 |
| 38 | 1995 | Wilson D | J Acad Market Sci | v23 | p335 | Α | 95 | 95 |
| 39 | 1980 | Porter ME | Competitive Strategy | | - | В | 94 | 83 |
| 40 | 1992 | Heide JB | J Marketing | v56 | p32 | Α | 92 | 92 |

Abbreviations: $TC = Total \ citations$; A = Article; B = Book.

these variables and obtain different interpretations of the results according to their attitude and interests. For this reason, this work presents the results considering different bibliometric indicators for the same problem, with the objective of providing a complete picture of the problem but also allowing readers to focus more on those variables that are more relevant for them.

Apart from the number of publications and citations, the study also considers the average number of citations per paper, the h-index (Hirsch, 2005) and several citation thresholds. Recall that the h-index is a measure that is intended to integrate productivity and influence in the same indicator (Alonso, Cabrerizo, Herrera-Viedma, & Herrera, 2009; Martinez, Herrera, Lopez-Gijon, & Herrera-Viedma, 2014). If an author has an h-index of X, of the set of papers that he/she has published, he/she has X papers that have received X or more citations. At the same time, the author does not have X + 1 articles that have received X + 1 citations or more.

Moreover, this work also presents several additional specific bibliometric indicators in order to analyze specific variables, including the average number of citations per year, general university rankings and the average number of papers and citations per person. The average number of citations per year is an indicator that aims to normalize the results according to time, because it is more difficult for newer documents to be highly cited than older ones. The general university rankings provide a global picture of the universities that lead in IMM. The objective is to see the current general ranking of the leading universities in IMM. This study uses the Academic Ranking of World Universities

(ARWU) (http://www.shanghairanking.com/ARWU2017.html) and the Quacquarelly & Symonds (QS) University Ranking (https://www.topuniversities.com/university-rankings/world-university-rankings/2019). The number of articles and citations per person normalizes the size of the countries. Otherwise, bigger countries would perform much better than smaller ones. Since the number of publications and citations in one journal is a very low number compared to the total population of a country, this work considers the number of publications and citations per million inhabitants.

To analyze the information, the work uses the Web of Science Core Collection database, a leading database for academic research. The search process uses the journal name "Industrial Marketing Management" and selects the option of "Publication Name" in the basic search of the Web of Science Core Collection. The search finds all documents published in the journal since its origin in 1971. Accounting for the journal's publications up to 31 December 2017, the search obtains 3122 documents. However, many of the documents are not strictly scientific contributions; therefore, we have filtered this result considering only articles, reviews, letters and notes. We obtained 2834 documents published in IMM between 1971 and 2017. Note that the journal has been indexed in Web of Science since 1971, but the documents published in 1979, 1980 and 1981 are not indexed. Therefore, for the documents of these years, the search employs manual search by using the Cited Reference Search of Web of Science Core Collection, which identifies all the documents that have received at least one citation in the database, and the webpage of the journal for those

Table 4Citing articles of IMM: universities, countries and journals.

| R | University | TP | Country | TP | Journal | TP |
|----|------------------------------|-----|-----------------|------|---|------|
| 1 | Aalto U | 313 | USA | 5934 | Industrial Marketing Management | 1950 |
| 2 | U of Manchester | 282 | United Kingdom | 3665 | J Business Research | 671 |
| 3 | Michigan State U | 264 | Peoples R China | 2937 | J Business Industrial Marketing | 522 |
| 4 | Hong Kong Polytechnic U | 260 | Taiwan | 1740 | Int J Production Economics | 391 |
| 5 | U of North Carolina | 233 | Australia | 1490 | J Product Innovation Management | 375 |
| 6 | Lappeenranta U of Technology | 207 | Spain | 1365 | European J Marketing | 263 |
| 7 | City U of Hong Kong | 196 | Germany | 1263 | Int J Production Research | 258 |
| 8 | National Cheng Kung U | 163 | Finland | 1242 | Int J Operations Production Management | 253 |
| 9 | Xi An Jiaotong U | 163 | Sweden | 1030 | Industrial Management Data Systems | 218 |
| 10 | Cranfield U | 157 | Italy | 953 | Supply Chain Management Int J | 212 |
| 11 | Cardiff U | 156 | Canada | 907 | Service Industries Journal | 190 |
| 12 | U of Leeds | 151 | Netherlands | 881 | Procedia Social and Behavioral Sciences | 187 |
| 13 | U of Nottingham | 151 | France | 762 | Expert Systems with Applications | 182 |
| 14 | Georgia State U | 148 | South Korea | 690 | J Marketing | 173 |
| 15 | U of Southern Denmark | 148 | India | 534 | J Business Ethics | 172 |
| 16 | Lancaster U | 146 | Denmark | 508 | J Cleaner Production | 161 |
| 17 | Monash U | 145 | Turkey | 496 | J The Academy of Marketing Science | 158 |
| 18 | Loughborough U | 143 | Malaysia | 489 | International Business Review | 157 |
| 19 | Copenhagen Business School | 141 | Iran | 418 | Management Decision | 154 |
| 20 | Arizona State U | 138 | Norway | 409 | Int J Physical Distribution LogisManag | 151 |
| 21 | U of Turku | 138 | Brazil | 368 | J Business To Business Marketing | 151 |
| 22 | Linkoping U | 135 | Switzerland | 362 | Production Planning Control | 150 |
| 23 | Penn State U | 135 | New Zealand | 352 | Int J Technology Management | 135 |
| 24 | Polytechnic U of Milan | 134 | Portugal | 346 | International Marketing Review | 135 |
| 25 | U of Cambridge | 134 | Greece | 313 | J Purchasing And Supply Management | 135 |
| 26 | U of Oulu | 132 | Belgium | 284 | Technovation | 134 |
| 27 | U of Warwick | 132 | Ireland | 208 | J Operations Management | 132 |
| 28 | Erasmus U Rotterdam | 130 | Austria | 197 | R&D Management | 130 |
| 29 | Univ Vaasa | 126 | Poland | 193 | Tech Forecasting Social Change | 119 |
| 30 | Aston U | 123 | Singapore | 189 | J Service Management | 117 |
| 31 | U of Tennessee Knoxville | 123 | Japan | 182 | African J Business Management | 114 |
| 32 | HankenSch Econ | 121 | South Africa | 173 | Int J Logistics Management | 114 |
| 33 | U of Granada | 118 | Thailand | 145 | IEEE Trans Engineering Management | 110 |
| 34 | BI Norwegian Business School | 116 | Slovenia | 141 | Sustainability | 110 |
| 35 | U of Birmingham | 116 | Czech Republic | 128 | J International Marketing | 109 |
| 36 | U of New South Wales Sydney | 116 | U Arab Emirates | 120 | Total Quality Manag Business Excellence | 103 |
| 37 | Wageningen U Research | 115 | Indonesia | 118 | European J Operational Research | 97 |
| 38 | Zhejiang U | 115 | Israel | 110 | British Food Journal | 96 |
| 39 | Florida State U | 112 | Romania | 104 | Tourism Management | 94 |
| 40 | Lund U | 112 | Saudi Arabia | 91 | J Supply Chain Management | 91 |

Abbreviations available in previous tables.

documents that still have zero citations in Web of Science. The results of these 3 years are manually added into the tables in order to obtain the complete results of IMM between 1971 and 2017.

To develop a graphical mapping of the bibliographic data, the work uses the VOS viewer software (Van Eck & Waltman, 2010). VOS viewer collects the data and builds graphical maps by using different bibliometric techniques, including co-citation (Small, 1973), bibliographic coupling (Kessler, 1963) and co-occurrence of author keywords (Wang et al., 2018). Recall that co-citation occurs when two documents receive a citation from the same third publication. Bibliographic coupling analyzes those documents that cite the same documents, and co-occurrence of author keywords presents those keywords that appear more frequently in the same documents.

4. Results

This section presents the results of the Web of Science Core Collection database. First, the analysis focuses on the publication and citation structure of IMM. In the second subsection, the work identifies the leading authors, institutions and countries of IMM in terms of publications and citations.

4.1. Publication and citation structure of IMM

In this subsection, the work analyzes the bibliometric results of IMM according to the data available in Web of Science Core Collection. First,

we look at the annual number of documents published by the journal since 1971, as well as the h-index (Fig. 2).

During the first 3 years, the journal published a stable number of documents, approximately 40 every year. Since 2002, the journal has been growing significantly, and since 2010, IMM has been publishing more than 100 articles per year. Currently, the number is close to 130 documents published annually.

Next, we analyze the citations of these documents by developing an annual citation threshold analysis. The work considers the minimum citation threshold of 1, 5, 10, 25, 50 and 100 citations. Additionally, it also considers the citations that the documents published in one specific year obtained until March 2018, and according to the Web of Science Core Collection.

The documents published in IMM during the seventies and eighties are less frequently cited than those published in the nineties, especially since the beginning of the new millennium. The main reason for this is that the scope of old papers is often quite obsolete, as topics such as modern technologies and internet were not available at that time. Moreover, the growth of research worldwide has increased the number of documents published about marketing, generating a higher volume of citations that usually cite more recent papers than older ones. Note that the majority of documents above the 100 citation threshold are published between 1999 and 2011. Currently, approximately 3% of the articles have received more than 100 citations, 25% > 25 citations, and 90% at least have been cited once, according to the Web of Science Core Collections.

Table 5Top 50 leading authors in IMM.

| R | Full name | University | Country | TP | TC | Н | m-Value | C/P | > 50 | > 10 |
|----|---------------|------------------------------|-------------|----|------|----|---------|--------|------|------|
| 1 | Naude P | U of Manchester | UK | 42 | 788 | 16 | 0.593 | 18.76 | 4 | 23 |
| 2 | Henneberg SC | U of Manchester | UK | 30 | 501 | 14 | 1.273 | 16.70 | 1 | 16 |
| 3 | Sharma A | U of Miami | USA | 24 | 865 | 16 | 0.593 | 36.04 | 4 | 20 |
| 4 | Johnston WJ | Georgia State U | USA | 22 | 844 | 13 | 0.325 | 38.36 | 3 | 14 |
| 5 | Cooper RG | McMaster U | Canada | 18 | 1264 | 15 | 0.366 | 70.22 | 9 | 15 |
| 6 | Mouzas S | Lancaster U | UK | 18 | 396 | 10 | 0.625 | 22.00 | 2 | 10 |
| 7 | Matthyssens P | U of Antwerp | Belgium | 17 | 554 | 12 | 0.375 | 32.59 | 3 | 13 |
| 8 | Ford D | Kedge Business School | UK | 17 | 546 | 14 | 0.483 | 32.12 | 4 | 15 |
| 9 | Honeycutt ED | Old Dominion U | USA | 17 | 220 | 10 | 0.526 | 12.94 | 0 | 10 |
| 10 | Laplaca PJ | U of Connecticut | USA | 17 | 66 | 2 | 0.056 | 3.88 | 1 | 2 |
| 11 | Moller K | Aalto U | Finland | 16 | 770 | 14 | 0.778 | 48.13 | 6 | 14 |
| 12 | Woodside AG | Boston College | USA | 14 | 182 | 7 | 0.179 | 13.00 | 1 | 6 |
| 13 | Ritter T | Copenhagen Business School | Denmark | 13 | 1124 | 10 | 0.667 | 86.46 | 5 | 10 |
| 14 | Ulaga W | EDHEC Business School | France | 13 | 987 | 11 | 0.688 | 75.92 | 6 | 11 |
| 15 | Hakansson H | BI Norwegian Business School | Norway | 13 | 532 | 9 | 0.225 | 40.92 | 4 | 9 |
| 16 | Araujo L | Lancaster U | UK | 13 | 408 | 9 | 0.500 | 31.38 | 2 | 8 |
| 17 | Pardo C | Emlyon Business Sch | France | 13 | 250 | 7 | 0.304 | 19.23 | 2 | 7 |
| 18 | Morris MH | U of Central Florida | USA | 13 | 167 | 8 | 0.533 | 12.85 | 0 | 6 |
| 19 | Bellizzi JA | Colorado State U | USA | 13 | 90 | 6 | 0.500 | 6.92 | 0 | 4 |
| 20 | Hult GTM | Michigan State U | USA | 12 | 796 | 10 | 0.714 | 66.33 | 1 | 11 |
| 21 | Lindgreen A | Cardiff U | UK | 11 | 524 | 9 | 0.818 | 47.64 | 2 | 9 |
| 22 | Snehota I | U of Lugano | Switzerland | 11 | 414 | 9 | 0.563 | 37.64 | 2 | 9 |
| 23 | Avlonitis GJ | Athens U Economics Business | Greece | 11 | 319 | 7 | 0.259 | 29.00 | 3 | 6 |
| 24 | Leek S | U of Birmingham | UK | 11 | 223 | 8 | 1.333 | 20.27 | 1 | 8 |
| 25 | Ivens BS | Otto Friedrich U Bamberg | Germany | 11 | 198 | 6 | 0.500 | 18.00 | 1 | 6 |
| 26 | Dubinsky AJ | U of Kentucky | USA | 11 | 127 | 7 | 0.250 | 11.55 | 0 | 7 |
| 27 | Calantone RJ | Michigan State U | USA | 10 | 905 | 8 | 0.400 | 90.50 | 2 | 5 |
| 28 | Cova B | Kedge Business School | France | 10 | 343 | 8 | 0.889 | 34.30 | 2 | 7 |
| 29 | Salle R | Emlyon Business School | France | 10 | 341 | 8 | 0.381 | 34.10 | 2 | 8 |
| 30 | Eggert A | U of Paderborn | Germany | 10 | 321 | 7 | 0.500 | 32.10 | 2 | 6 |
| 31 | Andersen PH | Aarhus U | Denmark | 10 | 304 | 7 | 0.636 | 30.40 | 2 | 7 |
| 32 | Corsaro D | U of Lugano | Switzerland | 10 | 295 | 9 | 1.800 | 29.50 | 1 | 8 |
| 33 | Moncrief WC | Texas Christian U | USA | 10 | 227 | 6 | 0.188 | 22.70 | 3 | 4 |
| 34 | Ingram TN | Colorado State U | USA | 10 | 174 | 7 | 0.226 | 17.40 | 1 | 6 |
| 35 | Purchase S | U of Western Australia | Australia | 10 | 130 | 6 | 0.462 | 13.00 | 1 | 3 |
| 36 | Cavusgil ST | Michigan State U | USA | 9 | 1171 | 8 | 0.348 | 130.11 | 3 | 8 |
| 37 | Gadde LE | Chalmers U of Technology | Sweden | 9 | 574 | 8 | 0.500 | 63.78 | 3 | 7 |
| 38 | Vandenbempt K | U of Antwerp | Belgium | 9 | 418 | 8 | 0.533 | 46.44 | 3 | 8 |
| 39 | O'Cass A | U of Tasmania | Australia | 9 | 349 | 8 | 0.667 | 38.78 | 2 | 8 |
| 40 | Lancioni RA | Temple U | USA | 9 | 342 | 8 | 0.615 | 38.00 | 3 | 8 |
| 41 | Smith MF | Temple U | USA | 9 | 312 | 7 | 0.333 | 34.67 | 3 | 6 |
| 42 | Dion PA | McMaster U | Canada | 9 | 223 | 6 | 0.375 | 24.78 | 2 | 4 |
| 43 | Medlin CJ | U of Adelaide | Australia | 9 | 204 | 6 | 0.462 | 22.67 | 2 | 5 |
| 44 | Ramos C | U of Manchester | UK | 9 | 173 | 6 | 1.000 | 19.22 | 0 | 5 |
| 45 | Kohtamaki M | U Vaasa | Finland | 9 | 172 | 6 | 1.200 | 19.11 | 1 | 5 |
| 46 | Tanner JF | Baylor U | USA | 9 | 170 | 8 | 0.727 | 18.89 | 0 | 7 |
| 47 | Banting PM | McMaster U | Canada | 9 | 97 | 5 | 0.192 | 10.78 | 0 | 4 |
| 48 | Stevenson TH | U of North Carolina | USA | 9 | 92 | 6 | 0.250 | 10.22 | 0 | 3 |
| 49 | Lambert DM | Ohio State U | USA | 8 | 1003 | 6 | 0.200 | 125.38 | 2 | 6 |
| | | | | _ | 1000 | 9 | JJU | 120.00 | - | - |

Abbreviations are available in previous tables except for: H = H-index; C/P = Citations per paper.

To identify more specifically the documents published in IMM with the highest number of citations according to the Web of Science database, Table 2 shows a list with the 50 most frequently cited documents.

The most frequently cited article of IMM, with 833 citations, is an article about supply chain management written by Douglas M. Lambert and Martha C. Cooper and published in 2000. The second most frequently cited paper has 756 citations and is about learning organization, firm innovation capability and firm performance; this article, published in 2002, was written by Roger J. Calantone, S. Tamer Cavusgil and Yushan Zhao. These two papers receive approximately 50 citations per year on average. However, the article with the highest number of citations per year places sixth in the ranking and was published in 2011. This paper focuses on issues related to business-to-business. Note that only four papers published before 1990 appear in the Top 50. However, only one article was published before 1985.

Another interesting issue is to analyze the most frequently cited documents in IMM. To do so, the analysis looks into the references of the articles published in IMM. Table 3 presents the 40 most frequently

cited documents in IMM. Note that any document is considered regardless of whether it is an article, book or conference article.

The list of documents in Table 3 includes 31 articles and nine books. The most frequently cited document is an article by Rob M. Morgan and Shelby D. Hunt entitled "The commitment-trust theory of relationship marketing" published in the Journal of Marketing in 1994. The Journal of Marketing has 11 articles on the list and the Journal of Marketing Research has five. Hakan Hakansson has four documents on the list, including three books.

A further interesting issue is to analyze who cites the journal more frequently. To do so, Table 4 shows the citing articles of IMM, ordered by universities, countries and journals that give more citations to IMM.

Aalto University (Finland) and the University of Manchester (UK) are the universities that cite the journal most frequently. European institutions dominate the university list although there are also universities from the USA and the Asia-Pacific region. The USA, the UK and China are the countries that give more citations to IMM. Considering country size, it is worth mentioning Taiwan, Finland and Sweden,

Table 6The most productive and influential institutions in IMM.

| R | University | Country | TP | TC | Н | C/P | > 100 | > 10 | 88–97 | 98–07 | 08–17 | ARWU | QS |
|----|--------------------------------|---------|----|------|----|-------|-------|------|-------|-------|-------|---------|---------|
| 1 | U of Manchester | UK | 77 | 1525 | 22 | 19.81 | 1 | 45 | 8 | 14 | 47 | 38 | 29 |
| 2 | Aalto U | FIN | 63 | 2082 | 24 | 33.05 | 5 | 39 | 1 | 13 | 49 | 401-500 | 133 |
| 3 | Lancaster U | UK | 55 | 1257 | 19 | 22.85 | 3 | 29 | 1 | 7 | 46 | 301-400 | 129 |
| 4 | Michigan State U | USA | 47 | 2593 | 25 | 55.17 | 3 | 36 | 12 | 21 | 11 | 101-150 | 160 |
| 5 | Georgia State U | USA | 41 | 1130 | 16 | 27.56 | 3 | 25 | 5 | 10 | 23 | 501-600 | 701 + |
| 6 | Temple U | USA | 38 | 1172 | 17 | 30.84 | 3 | 24 | 2 | 5 | 31 | 301-400 | 651-700 |
| 7 | BI Norwegian Business School | NOR | 38 | 792 | 16 | 20.84 | 1 | 20 | 4 | 18 | 15 | - | - |
| 8 | U of North Carolina | USA | 35 | 914 | 15 | 26.11 | 1 | 19 | 11 | 10 | 7 | 33 | 78 |
| 9 | Kedge Business School | FRA | 30 | 602 | 14 | 20.07 | 1 | 15 | 0 | 2 | 28 | - | - |
| 10 | U of Strathclyde | UK | 30 | 436 | 13 | 14.53 | 0 | 19 | 2 | 6 | 16 | 501-600 | 272 |
| 11 | U of Bath | UK | 28 | 997 | 17 | 35.61 | 2 | 21 | 1 | 12 | 12 | 501-600 | 159 |
| 12 | Cardiff U | UK | 28 | 762 | 14 | 27.21 | 1 | 17 | 2 | 12 | 14 | 99 | 140 |
| 13 | U of Miami | USA | 27 | 891 | 17 | 33.00 | 1 | 21 | 6 | 11 | 10 | 151-200 | 252 |
| 14 | U of Birmingham | UK | 27 | 579 | 12 | 21.44 | 2 | 15 | 0 | 5 | 22 | 101–150 | 82 |
| 15 | U of Leeds | UK | 27 | 579 | 11 | 21.44 | 0 | 11 | 2 | 5 | 20 | 101–150 | 93 |
| 16 | U of Oulu | FIN | 27 | 355 | 13 | 13.15 | 0 | 15 | 0 | 4 | 23 | 401-500 | 411-420 |
| 17 | Florida State U | USA | 26 | 1318 | 15 | 50.69 | 2 | 20 | 5 | 12 | 7 | 201-300 | 431-440 |
| 18 | Cranfield U | UK | 26 | 1209 | 14 | 46.50 | 2 | 15 | 1 | 10 | 15 | - | - |
| 19 | Uppsala U | SWE | 26 | 652 | 14 | 25.08 | 1 | 17 | 1 | 7 | 16 | 63 | 98 |
| 20 | McMaster U | CAN | 25 | 1151 | 16 | 46.04 | 3 | 17 | 13 | 3 | 2 | 66 | 149 |
| 21 | U of Turku | FIN | 25 | 769 | 12 | 30.76 | 2 | 12 | 0 | 2 | 23 | 401–500 | 234 |
| 22 | HankenSch Econ | FIN | 25 | 681 | 10 | 27.24 | 2 | 10 | 0 | 0 | 25 | - | - |
| 23 | U of Warwick | UK | 25 | 602 | 12 | 24.08 | 1 | 16 | 3 | 7 | 14 | 101-150 | 51 |
| 24 | Monash U | AUS | 25 | 478 | 14 | 19.12 | 0 | 15 | 0 | 8 | 16 | 78 | 65 |
| 25 | City U of Hong Kong | CHN | 24 | 423 | 13 | 17.63 | 0 | 14 | 1 | 6 | 17 | 201-300 | 55 |
| 26 | Copenhagen Business School | DEN | 23 | 1197 | 13 | 52.04 | 3 | 14 | 0 | 9 | 11 | 601-700 | |
| 27 | U of New South Wales Sydney | AUS | 23 | 936 | 13 | 40.70 | 3 | 15 | 2 | 7 | 12 | 101–150 | 49 |
| 28 | Colorado State U | USA | 23 | 351 | 11 | 15.26 | 0 | 11 | 0 | 9 | 7 | 201-300 | 386 |
| 29 | Stockholm School of Economics | SWE | 21 | 861 | 13 | 41.00 | 3 | 14 | 0 | 7 | 14 | 401–500 | - |
| 30 | Bocconi U | ITA | 21 | 514 | 14 | 24.48 | 0 | 15 | 0 | 8 | 13 | - | - |
| 31 | U Vaasa | FIN | 21 | 316 | 9 | 15.05 | 0 | 8 | 0 | 1 | 20 | - | - |
| 32 | U of Southern Denmark | DEN | 21 | 272 | 9 | 12.95 | 0 | 9 | 0 | 3 | 18 | 301-400 | 390 |
| 33 | Virginia Polytech Inst State U | USA | 20 | 252 | 9 | 12.60 | 0 | 7 | 6 | 2 | 4 | 301-400 | 361 |
| 34 | Texas Christian U | USA | 19 | 353 | 10 | 18.58 | 0 | 10 | 4 | 6 | 3 | - | - |
| 35 | Texas A M U College Station | USA | 19 | 176 | 7 | 9.26 | 0 | 5 | 1 | 1 | 3 | 101–150 | 160 |
| 36 | Hong Kong Polytechnic U | CHN | 18 | 579 | 11 | 32.17 | 1 | 11 | 1 | 4 | 13 | 201-300 | 111 |
| 37 | Linkoping U | SWE | 18 | 555 | 10 | 30.83 | 1 | 11 | 0 | 3 | 14 | 201-300 | 282 |
| 38 | Penn State U | USA | 18 | 550 | 13 | 30.56 | 2 | 13 | 5 | 5 | 4 | - | - |
| 39 | U of Houston | USA | 18 | 533 | 10 | 29.61 | 1 | 12 | 0 | 9 | 4 | 201-300 | 601–650 |
| 40 | U of Bradford | UK | 18 | 380 | 10 | 21.11 | 1 | 10 | 3 | 4 | 0 | - | 551–600 |
| 41 | U of North Texas Denton | USA | 18 | 373 | 9 | 20.72 | 0 | 9 | 3 | 3 | 9 | - | - |
| 42 | Chalmers U of Technology | SWE | 17 | 699 | 11 | 41.12 | 3 | 11 | 0 | 5 | 12 | 201-300 | 139 |
| 43 | U of Antwerp | BEL | 17 | 546 | 12 | 32.12 | 1 | 12 | 0 | 5 | 12 | 201–300 | 209 |
| 44 | Aston U | UK | 17 | 255 | 9 | 15.00 | 0 | 9 | 0 | 3 | 13 | - | 358 |
| 45 | Baruch College | USA | 17 | 248 | 8 | 14.59 | 0 | 7 | 4 | 6 | 1 | - | - |
| 46 | Oklahoma State U Stillwater | USA | 17 | 218 | 10 | 12.82 | 0 | 10 | 1 | 4 | 9 | 401-500 | 461–470 |
| 47 | U of Nottingham | UK | 16 | 393 | 8 | 24.56 | 1 | 8 | 0 | 2 | 14 | 101–150 | 75 |
| 48 | Florida Atlantic U | USA | 16 | 352 | 9 | 22.00 | 0 | 9 | 4 | 3 | 6 | - | - |
| 49 | Baylor U | USA | 16 | 345 | 11 | 21.56 | 0 | 12 | 7 | 7 | 2 | - | 701 + |
| 50 | Loughborough U | UK | 16 | 192 | 7 | 12.00 | 0 | 7 | 0 | 4 | 9 | 601–700 | 237 |

Abbreviations are available in previous tables except for: ARWU and QS = Academic Ranking of World Universities and QS University Ranking.

which give many citations to IMM, taking into account the fact that their publication volume is much lower than the previous three countries. From the journal point of view, the self-citations of IMM are the most remarkable result. This is a very common result because publications of the same journal usually represent the most influential documents for future documents published in the journal (Merigó, GilLafuente, & Yager, 2015; Merigó, Mas-Tur, et al., 2015). Other journals that give many citations to IMM are the Journal of Business Research and the Journal of Business & Industrial Marketing. Most of the journals in the list come from the field of marketing and operations management.

4.2. Leading authors, institutions and countries

In this section, we analyze the leading actors of IMM in terms of authors, universities and countries. First, we focus on the authors that have published the highest number of articles in IMM. Table 5 presents the results considering a wide range of bibliometric indicators,

although the ranking is according to the number of documents. Note that in the case of a tie in the number of articles, the ranking is according to the number of citations.

Peter Naude from the University of Manchester is the most productive author in IMM, followed by Stephan C. Hennenberg, from Queen Mary University of London. However, when looking at the number of citations, other authors in the list have received more citations, such as S. Tamer Cavusgil from Michigan State University, Thomas Ritter from Copenhagen Business School, and Robert G. Cooper from McMaster University. All the authors in the list work at an English-speaking country or in Europe.

The index most-frequently used is the h-index. However, there are other indicators that measure the influence and impact of authors from a different perspective. This is the case of researchers' m-value (Hirsch, 2005), that is, the author's h-index divided by the number of years since his/her first publication. Thus, m-value helps normalize authors' h-index score by considering whether they are in the early or later stages of their careers, and projects their likelihood for future growth. In m-

Table 7The most productive and influential countries in IMM.

| R | Country | TP | TC | Н | C/P | > 100 | > 10 | Population | TP/Pop | TC/Pop |
|----|----------------------|------|--------|----|-----|-------|------|---------------|--------|--------|
| 1 | USA | 1279 | 25,512 | 66 | 20 | 29 | 606 | 323,127,510 | 3.96 | 7.90 |
| 2 | United Kingdom | 548 | 11,301 | 81 | 66 | 15 | 280 | 66,500,000 | 8.24 | 16.99 |
| 3 | Finland | 182 | 4921 | 36 | 27 | 10 | 96 | 5,495,100 | 33.12 | 89.55 |
| 4 | Australia | 167 | 3885 | 36 | 23 | 4 | 91 | 24,127,160 | 6.92 | 16.10 |
| 5 | Sweden | 141 | 4062 | 33 | 29 | 8 | 86 | 9,903,120 | 14.24 | 41.02 |
| 6 | Canada | 129 | 3018 | 33 | 23 | 4 | 70 | 36,286,430 | 3.56 | 8.32 |
| 7 | China | 117 | 2323 | 25 | 20 | 3 | 58 | 1,378,665,000 | 0.08 | 0.17 |
| 8 | France | 103 | 2447 | 26 | 24 | 5 | 56 | 66,896,110 | 1.54 | 3.66 |
| 9 | Germany | 92 | 2665 | 27 | 29 | 7 | 55 | 82,667,680 | 1.06 | 3.20 |
| 10 | Taiwan | 83 | 1532 | 23 | 18 | 1 | 56 | 23,540,000 | 3.53 | 6.51 |
| 11 | Netherlands | 73 | 2319 | 27 | 32 | 7 | 45 | 17,018,410 | 4.29 | 13.63 |
| 12 | Italy | 70 | 1141 | 19 | 16 | 0 | 38 | 60,600,590 | 1.16 | 1.88 |
| 13 | Denmark | 69 | 2240 | 23 | 32 | 4 | 36 | 5,731,120 | 12.04 | 39.08 |
| 14 | Norway | 60 | 1249 | 19 | 21 | 2 | 33 | 5,232,930 | 11.47 | 23.87 |
| 15 | Switzerland | 51 | 1323 | 21 | 26 | 2 | 34 | 8,372,100 | 6.09 | 15.80 |
| 16 | Spain | 46 | 1292 | 19 | 28 | 2 | 32 | 46,443,960 | 0.99 | 2.78 |
| 17 | New Zealand | 44 | 1156 | 20 | 26 | 2 | 25 | 4,692,700 | 9.38 | 24.63 |
| 18 | Belgium | 37 | 1150 | 18 | 31 | 3 | 22 | 11,348,160 | 3.26 | 10.13 |
| 19 | South Korea | 37 | 860 | 18 | 23 | 0 | 25 | 51,245,710 | 0.72 | 1.68 |
| 20 | Ireland | 31 | 464 | 13 | 15 | 0 | 17 | 4,773,100 | 6.49 | 9.72 |
| 21 | Greece | 22 | 820 | 15 | 37 | 1 | 18 | 10,746,740 | 2.05 | 7.63 |
| 22 | Portugal | 21 | 502 | 13 | 24 | 0 | 14 | 10,324,610 | 2.03 | 4.86 |
| 23 | Turkey | 16 | 451 | 10 | 28 | 0 | 10 | 79,512,430 | 0.20 | 0.57 |
| 24 | Austria | 15 | 677 | 11 | 45 | 1 | 12 | 8,747,360 | 1.71 | 7.74 |
| 25 | Brazil | 15 | 210 | 9 | 14 | 0 | 7 | 207,652,860 | 0.07 | 0.10 |
| 26 | Singapore | 13 | 279 | 8 | 21 | 0 | 7 | 5,607,280 | 2.32 | 4.98 |
| 27 | South Africa | 12 | 356 | 8 | 30 | 1 | 8 | 55,908,860 | 0.21 | 0.64 |
| 28 | India | 12 | 269 | 7 | 22 | 1 | 6 | 1,324,171,350 | 0.01 | 0.02 |
| 29 | Poland | 10 | 110 | 5 | 11 | 0 | 4 | 37,948,020 | 0.26 | 0.29 |
| 30 | Israel | 9 | 26 | 3 | 3 | 0 | 0 | 8,547,100 | 1.05 | 0.30 |
| 31 | Cyprus | 8 | 278 | 6 | 35 | 0 | 6 | 1,170,130 | 6.84 | 23.76 |
| 32 | Slovenia | 8 | 188 | 7 | 24 | 0 | 6 | 2,064,840 | 3.87 | 9.10 |
| 33 | United Arab Emirates | 8 | 71 | 5 | 9 | 0 | 2 | 9,269,610 | 0.86 | 0.77 |
| 34 | Chile | 6 | 87 | 5 | 15 | 0 | 4 | 17,909,750 | 0.34 | 0.49 |
| 35 | Russia | 5 | 68 | 4 | 14 | 0 | 2 | 144,342,400 | 0.03 | 0.05 |
| 36 | Hungary | 5 | 25 | 3 | 5 | 0 | 0 | 9,817,960 | 0.51 | 0.25 |
| 37 | Malaysia | 4 | 122 | 3 | 31 | 0 | 2 | 31,187,260 | 0.13 | 0.39 |
| 38 | Japan | 3 | 14 | 2 | 5 | 0 | 0 | 126,994,510 | 0.02 | 0.01 |
| 39 | Croatia | 2 | 92 | 2 | 46 | 0 | 2 | 4,170,600 | 0.48 | 2.21 |
| 40 | Iran | 2 | 43 | 2 | 22 | 0 | 1 | 80,277,430 | 0.02 | 0.05 |

Abbreviations are available in previous tables except for: TP/Pop and TC/Pop = Total papers and citations per million inhabitants. Note that the population is given in thousands.

value, the author with the strongest projection, or highest m-value ranking, is Professor D. Corsaro, of the University of Lugano (Switzerland). However, the top spots also include three professors at British universities: S. Leek (University of Birmingham), S.C. Henneberg and C. Ramos (University of Manchester), which reveals the growing interest in these topics in British academia. Also prominent in the m-value listing is Professor M. Kohtamaki, of the University of Vaasa (Finland). Of the top 20 hi-index authors, only S.C. Henneberg also figures as a top h-value academic.

Next, we analyze the most productive institutions in IMM. Recall that by institution we refer to the author affiliation at the time of publication in IMM. Table 6 presents the 50 institutions with the highest number of publications in IMM.

The University of Manchester (UK) is the most productive institution in IMM, followed by Aalto University (Finland) and Lancaster University (UK). Eight of the Top 20 universities are from the UK and six from the USA. Twelve institutions from Scandinavian countries appear in the Top 50. All of the universities on the list are from English-speaking countries or Europe with the exception of two Chinese universities: City University of Hong Kong and Hong Kong Polytechnic University. Looking at the temporal evolution, it should be noted that Aalto University and Lancaster University have greatly grown their number of publications in IMM during the last decade.

It is also interesting to generalize these results at a country level. For doing so, Table 7 shows the 40 countries with the highest number of

publications in the journal. Note that in the case of a tie, the ranking is according to the number of citations.

The USA is by far the country with the highest number of publications followed by the UK. However, when normalizing per capita, the countries with the best performance are the Scandinavian countries, especially Finland. Most of the leading countries are English-speaking or from Europe, although some Asian countries also achieve noteworthy results, including China, Taiwan and South Korea, all of them in the top 20. Some developing countries also appear in the list although far from the top; e.g., Turkey, Brazil and India.

The USA and the UK have always been the main leaders of the journal, although the influence of the latter is growing over time, while the USA is losing ground if we consider the percentage of documents from the total of each year. Scandinavian countries and China are also growing their publications over time. Most of the publications from developing countries are from recent years, which indicates that research in marketing is growing over time, although still they have to improve in order to reach the standards of European and English-speaking countries.

5. Mapping IMM citations

In this section, we graphically map the bibliographic data of IMM by using co-citation analysis, bibliographic coupling and co-occurrence of author keywords. For doing so, the work uses the VOS viewer software

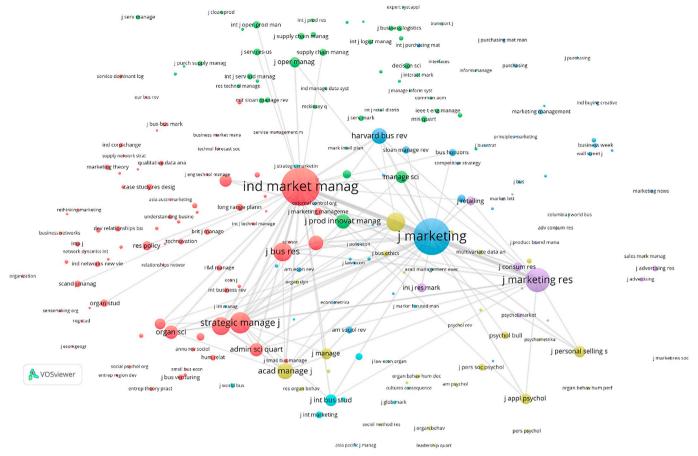


Fig. 3. Co-citation of journals in IMM for its lifespan (minimum citation threshold of 50 and 100 links).

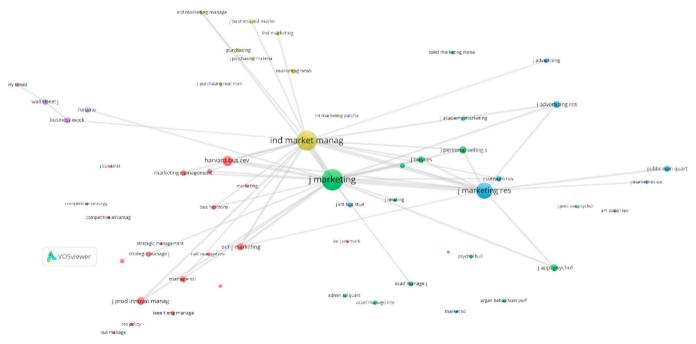


Fig. 4. Co-citation of journals in IMM: 1988-1997 (minimum citation threshold of 20 and 100 links).

(Van Eck & Waltman, 2010). However, note that in the literature there is other software for mapping the bibliographic data (Cobo, Lopez-Herrera, Herrera-Viedma, & Herrera, 2011).

5.1. Connections between journals cited in IMM

Here we develop a co-citation analysis of journals. Fig. 3 shows the results, considering a minimum citation threshold of 50 citations and the 100 most representative co-citation links, for the journal's lifespan.

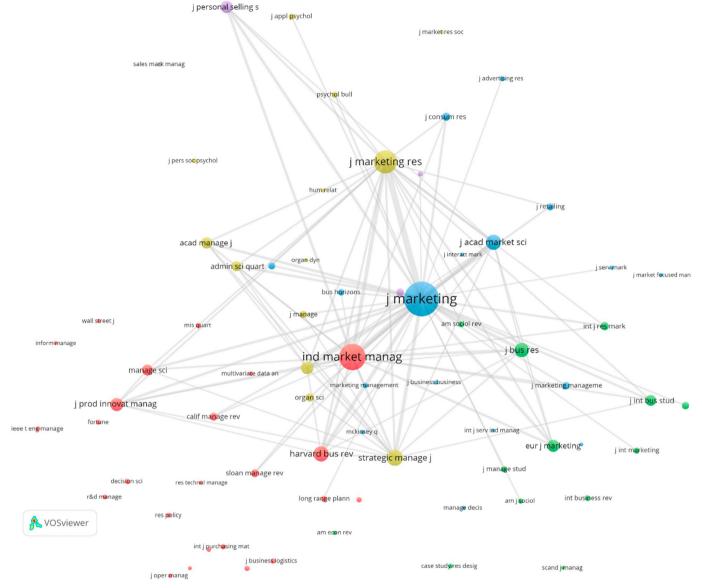


Fig. 5. Co-citation of journals in IMM: 1998-2007 (minimum citation threshold of 40 and 100 links).

Note that the size of the circles measures the number of citations received by every journal in IMM, and the nodes visualize the co-citations.

The self-citations of IMM are the most significant, followed closely by those received by the Journal of Marketing. Together with the Journal of Marketing Research, Strategic Management Journal and the Journal of Business Research, they form the main core of citations of the journal. However, it should be noted that IMM also cites journals in other neighbouring areas, including the Academy of Management Review and Journal, Organization Science, the Journal of Operations Management and the Journal of Applied Psychology.

To dive more deeply into these results, we have analyzed their temporal evolution by considering the last three decades of IMM: 1988–1997, 1998–2007 and 2008–2017. Fig. 4 presents the results between 1988 and 1997 with a citation threshold of 20 citations and 100 co-citation links.

In this period, IMM cited the Journal of Marketing more than itself. The Journal of Marketing Research and Harvard Business Review were also significantly cited in the journal. This trend also appears between 1998 and 2007, where the Journal of Marketing achieved even more importance. Fig. 5 shows the results considering a threshold of 40

citations and 100 co-citation links.

For this timespan, the influence of the Journal of Marketing is higher, and now more journals are increasing their influence in the journal, including the Strategic Management Journal, the Journal of the Academy of Marketing Science and the Journal of Business Research.

For the last 10 years, from 2008 until 2017, Fig. 6 shows the cocitation results, with a threshold of 50 citations and the 100 most representative co-citation links.

Over time, the journal has greatly grown its number of publications per year. Therefore, the number of citations generated in IMM has also grown considerably. This is the reason for the much bigger co-citation structure in Fig. 5 than in Figs. 3 and 4. However, the trend is similar, although now the self-citations of IMM are more significant, which reflects the consolidation of IMM as an influential journal in marketing. Note that Fig. 5 primarily visualizes journals from three areas. The first is marketing, which is the most significant one, with IMM and the Journal of Marketing. The second is journals in management, such as the Strategic Management Journal, Harvard Business Review and the Academy of Management Review. Although the number of citations is lower, it is also worth mentioning the third group of journals, which are those connected to operations management such as the Journal of

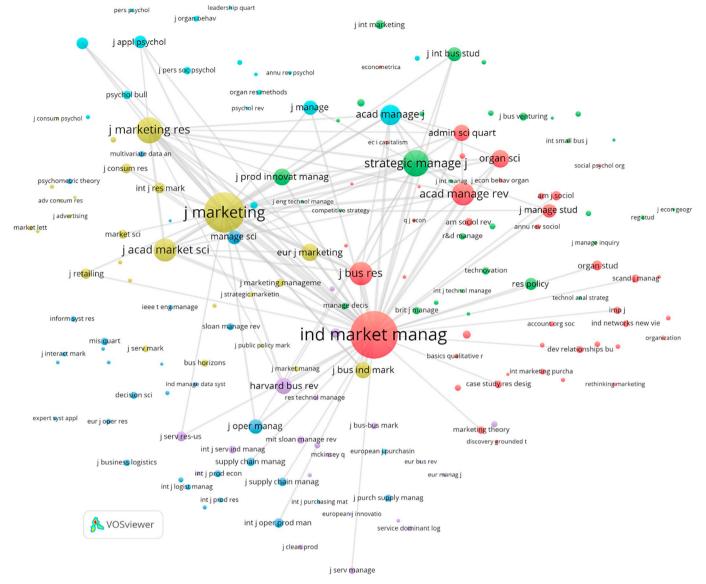


Fig. 6. Co-citation of journals in IMM: 2008-2017 (minimum citation threshold of 50 and 100 links).

Operations Management and the Journal of Supply Chain Management. To more clearly specify the most frequently cited journals in IMM, Table 8 shows the Top 40 from a global perspective, also considering the periods mentioned above: 1988–1997, 1998–2007 and 2008–2017.

Finally, Table 9 measures the number of other journals' citations of IMM each year, including the number of self-citations by IMM. To carry out this analysis, journals with 4 stars in the ABS¹ ranking (2018) in the disciplines of International Business, Innovation, Marketing, Operations & Technology, Organization & Management Science, and Strategy have been considered. The International Journal of Operations and Production Management, the European Journal of Operations Research, and the Journal of Operations Management are the publications that most cite IMM papers. However, those broadly known as the top marketing journals (i.e., the Journal of Marketing, the Journal of Marketing Research, Marketing Science, the Journal of Consumer Research and the Journal of Consumer Psychology) hardly cite IMM papers; in fact, in the last decade considered here, no paper published in JM, JMR and JCP cited any IMM paper. Finally, the following journals have been also analyzed, though not included in this table due to not citing any IMM

paper in the three time periods considered: the Journal of International Business Studies, the Journal of World Business, the Journal of Product Innovation Management, the Journal of the Academy of Marketing Science, the International Journal of Research in Marketing, the Journal of Retailing, and Production and Operations Management.

5.2. Connections between institutions and countries of citations in IMM

Next, we look into the most productive universities and see how they connect in terms of citation profile (Tur-Porcar, Mas-Tur, Merigó, Roig-Tierno, & Watt, 2018). To do so, this work develops a graphical visualization of bibliographic coupling of institutions that publish in IMM. Fig. 7 shows the results considering a minimum publication threshold of five documents and the 100 most significant bibliographic coupling links.

The results are consistent with those of Table 6, although the figure provides a picture of how the universities tend to connect between each other. From a general point of view, it is worth mentioning that universities from the same country or region tend to appear close to each other, although there are some exceptions. The left side of the figure presents a core of universities from the USA, while the right side shows UK institutions with some other European connections.

¹ Association of Business Schools' Academic Journal Guide.

Table 8Co-citation of journals in IMM: global and temporal analysis.

| R | Global | | | 2008–2017 | | | 1998–2007 | | | 1988–1997 | | |
|----|----------------------|--------|---------|----------------------|------|---------|----------------------|------|---------|----------------------|-----|--------|
| | Journal | Cit | CLS | Journal | Cit | CLS | Journal | Cit | CLS | Journal | Cit | CLS |
| 1 | Ind Market Manag | 12,213 | 9757.4 | Ind Market Manag | 9398 | 7474.98 | J Marketing | 2996 | 2278.06 | J Marketing | 863 | 650.65 |
| 2 | J Marketing | 10,989 | 9077.1 | J Marketing | 6760 | 5713.11 | Ind Market Manag | 1776 | 1406.55 | Ind Market Manag | 764 | 548.88 |
| 3 | J Marketing Res | 4872 | 4350.13 | Strategic Manage J | 2990 | 2722.04 | J Marketing Res | 1311 | 1131.91 | J Marketing Res | 501 | 392.54 |
| 4 | Strategic Manage J | 3699 | 3369.93 | J Marketing Res | 2805 | 2588.37 | Strategic Manage J | 651 | 576.72 | Harvard Bus Rev | 202 | 181.44 |
| 5 | J Bus Res | 2909 | 2771.55 | J Bus Res | 2278 | 2166.4 | J Acad Market Sci | 597 | 551.86 | J Prod InnovatManag | 125 | 92.59 |
| 6 | J Acad Market Sci | 2867 | 2703.12 | J Acad Market Sci | 2218 | 2092.19 | Harvard Bus Rev | 579 | 529.68 | J Personal Selling S | 109 | 93.97 |
| 7 | Acad Manage Rev | 2654 | 2516.37 | Acad Manage Rev | 2192 | 2069.17 | J Bus Res | 522 | 492.3 | Eur J Marketing | 107 | 102.45 |
| 8 | Acad Manage J | 2137 | 2032.76 | Acad Manage J | 1742 | 1656.33 | J Prod InnovatManag | 432 | 335.32 | J ApplPsychol | 95 | 80.2 |
| 9 | Harvard Bus Rev | 1994 | 1882.62 | Organ Sci | 1330 | 1266.4 | Acad Manage Rev | 419 | 399.88 | J Advertising Res | 94 | 75.03 |
| 10 | Eur J Marketing | 1773 | 1706.45 | Eur J Marketing | 1242 | 1197.63 | Eur J Marketing | 386 | 365.99 | J Bus Res | 89 | 84.63 |
| 11 | J Prod InnovatManag | 1736 | 1482.04 | J Prod InnovatManag | 1176 | 1035.76 | J Personal Selling S | 377 | 290.98 | Business Week | 80 | 68.31 |
| 12 | Organ Sci | 1515 | 1445.58 | Admin Sci Quart | 1134 | 1095.48 | Acad Manage J | 322 | 302.54 | Manage Sci | 71 | 62.15 |
| 13 | Admin Sci Quart | 1470 | 1414.63 | Harvard Bus Rev | 1130 | 1087.67 | Manage Sci | 300 | 278.35 | Public Opin Quart | 71 | 56.35 |
| 14 | J Bus Ind Mark | 1249 | 1195.38 | J Bus Ind Mark | 1112 | 1060.62 | J Int Bus Stud | 293 | 258.79 | Wall Street J | 70 | 53.11 |
| 15 | Manage Sci | 1232 | 1179.59 | J OperManag | 872 | 815.93 | Admin Sci Quart | 267 | 257.36 | Fortune | 69 | 61.83 |
| 16 | J Int Bus Stud | 1178 | 1060.34 | J Manage | 860 | 840.9 | Organ Sci | 184 | 175.4 | J Consum Res | 69 | 62.22 |
| 17 | J Personal Selling S | 1072 | 927.24 | Manage Sci | 837 | 808.56 | J Consum Res | 176 | 161.52 | Strategic Manage J | 56 | 50.89 |
| 18 | J Manage | 1017 | 995.53 | J Manage Stud | 828 | 798.43 | Int J Res Mark | 170 | 166.52 | J Acad Market Sci | 54 | 50.27 |
| 19 | J Manage Stud | 949 | 918.28 | J Int Bus Stud | 825 | 746.52 | Calif Manage Rev | 159 | 156.32 | Acad Manage J | 52 | 49.57 |
| 20 | J ApplPsychol | 924 | 864.91 | J ApplPsychol | 689 | 652.67 | Sloan Manage Rev | 159 | 155.84 | J Int Bus Stud | 52 | 41.04 |
| 21 | J OperManag | 918 | 862.12 | Res Policy | 617 | 584.77 | J Bus Ind Mark | 141 | 136.64 | Marketing News | 51 | 45.55 |
| 22 | Res Policy | 708 | 671.51 | J Personal Selling S | 578 | 522.53 | J Manage | 139 | 135.86 | Bus Horizons | 48 | 44.65 |
| 23 | Int J Res Mark | 689 | 675.62 | Int J Res Mark | 495 | 484.71 | Int Market Rev | 138 | 128.11 | J Advertising | 44 | 37.74 |
| 24 | J Consum Res | 656 | 625.22 | J Retailing | 458 | 440.6 | J Marketing Manageme | 136 | 131.5 | Sloan Manage Rev | 44 | 43.23 |
| 25 | J Retailing | 631 | 608.23 | Organ Stud | 429 | 418.12 | J Retailing | 134 | 128.96 | Long Range Plann | 43 | 34.78 |
| 26 | Calif Manage Rev | 573 | 565.14 | J Serv Res-US | 398 | 386.06 | Market Sci | 133 | 123.28 | Acad Manage Rev | 38 | 36.69 |
| 27 | Market Sci | 508 | 482.31 | J Consum Res | 396 | 384.22 | Bus Horizons | 118 | 114.18 | NY Times | 36 | 24.82 |
| 28 | Am J Sociol | 473 | 464.05 | Int J Oper Prod Man | 386 | 371.7 | J Manage Stud | 104 | 101.55 | IEEE T Eng Manage | 35 | 32.3 |
| 29 | Organ Stud | 464 | 452.88 | Am J Sociol | 384 | 376.55 | Psychol Bull | 102 | 100.38 | Organ Behav Hum Perf | 32 | 28.77 |
| 30 | Psychol Bull | 455 | 450.8 | Calif Manage Rev | 364 | 360.31 | J Int Marketing | 101 | 96.65 | Calif Manage Rev | 31 | 30.24 |
| 31 | J Marketing Manageme | 443 | 434.36 | Market Sci | 354 | 336.07 | Am Sociol Rev | 100 | 96.14 | Admin Sci Quart | 30 | 28.57 |
| 32 | Sloan Manage Rev | 443 | 436.86 | J Int Marketing | 328 | 318.69 | J ApplPsychol | 93 | 88.63 | J Retailing | 30 | 28.84 |
| 33 | Int J Oper Prod Man | 434 | 418.22 | Supply Chain Manag | 319 | 306.88 | Long Range Plann | 92 | 87.9 | Psychol Bull | 29 | 28.24 |
| 34 | J Int Marketing | 430 | 417.66 | Psychol Bull | 314 | 311.66 | Int Business Rev | 86 | 81.69 | J Market Res Soc | 27 | 24.35 |
| 35 | J Serv Res-Us | 428 | 415.16 | J Supply Chain Manag | 306 | 293.38 | J Business Logistics | 78 | 71.83 | J Purchasing Materia | 26 | 23.94 |
| 36 | Am Sociol Rev | 421 | 412.44 | Am Sociol Rev | 283 | 279.48 | Decision Sci | 77 | 73.58 | Res Policy | 26 | 21.49 |
| 37 | Bus Horizons | 419 | 408.76 | J Marketing Manageme | 283 | 278.6 | Int J Phys Distrib | 77 | 70.51 | J Marketing Manageme | 24 | 23.06 |
| 38 | J Business Ind Marke | 402 | 393.85 | Scand J Manag | 268 | 263.6 | Supply Chain Manag | 77 | 67.29 | Int J Res Mark | 23 | 22.7 |
| 39 | Long Range Plann | 401 | 386.67 | J Bus Venturing | 266 | 256.03 | J Advertising Res | 76 | 65.36 | Am Sociol Rev | 22 | 21.59 |
| 40 | Int Market Rev | 399 | 384.55 | Long Range Plann | 264 | 258.55 | Am J Sociol | 74 | 72.08 | J Pers Soc Psychol | 22 | 20.94 |
| | | | | | | | | | | | | |

Abbreviations: R = Rank; Cit = Citations; CLS = Citation link strength.

Table 9Citations to IMM in other journals (including IMM).

| Citing journal | 1971–20 | 17 | | 2008–20 | 17 | | 1998–2007 | | |
|---|---------|--------|-------|---------|--------|-------|-----------|------|-------|
| | TC | TP | TC/TP | TC | TP | TC/TP | TC | TP | TC/TP |
| Industrial Marketing Management | 3884 | 2911 | 1.334 | 1161 | 1229 | 0.945 | 1552 | 637 | 2.436 |
| Int. J. of Operations and Production Management | 210 | 1113 | 0.189 | 0 | 548 | 0.000 | 210 | 498 | 0.422 |
| European Journal of Operat. Research | 127 | 14,690 | 0.009 | 19 | 6248 | 0.003 | 65 | 4226 | 0.015 |
| Journal of Operations Management | 91 | 3306 | 0.028 | 0 | 1765 | 0.000 | 91 | 1097 | 0.083 |
| Journal of Marketing | 44 | 29,480 | 0.001 | 0 | 15,121 | 0.000 | 44 | 7351 | 0.006 |
| Strategic Management Journal | 39 | 2954 | 0.013 | 12 | 1468 | 0.008 | 0 | 662 | 0.000 |
| Management Science | 28 | 13,915 | 0.002 | 0 | 7780 | 0.000 | 12 | 3192 | 0.004 |
| Journal of Marketing Research | 22 | 2517 | 0.009 | 0 | 1522 | 0.000 | 22 | 595 | 0.037 |
| Marketing Science | 16 | 2575 | 0.006 | 2 | 1080 | 0.002 | 7 | 569 | 0.012 |
| Journal of Consumer Research | 10 | 1829 | 0.005 | 5 | 998 | 0.005 | 3 | 642 | 0.005 |
| Journal of Consumer Psychology | 3 | 916 | 0.003 | 0 | 505 | 0.000 | 0 | 312 | 0.000 |
| Operations Research | 2 | 22,622 | 0.000 | 0 | 9935 | 0.000 | 2 | 5977 | 0.000 |

Again, it should be remembered that this institutional analysis considers the affiliation of authors at the time of publication in IMM. To provide a more general perspective, we have completed a country analysis by using bibliographic coupling of countries. Fig. 8 shows the results considering a minimum publication threshold of five documents and the 50 top bibliographic coupling links.

The USA publishes the highest number of documents in IMM,

although the UK (particularly England) obtains better results when normalizing according to the population size of the country. Note that the right side of the figure visualizes mostly European countries, while the left side shows some Asian countries.

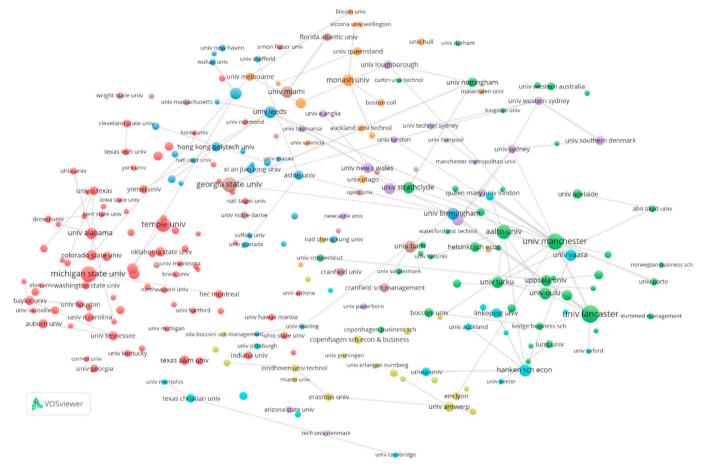


Fig. 7. Bibliographic coupling of institutions publishing in IMM for its lifespan (minimum publication threshold of 5 documents and 100 links).

5.3. Keywords - topics

Another interesting issue is to analyze the most popular keywords of IMM. By doing so, we can identify the most popular topics published in the journal, providing a general idea of the leading themes studied. To carry out the analysis, Fig. 9 shows a co-occurrence of author keywords with a minimum co-occurrence threshold of five appearances and the top 100 co-occurrence links. Note that author keywords are the selected keywords that authors present on the first page of the paper to represent the leading topics of their article. The co-occurrence of keywords appears when two keywords appear in the same document (Cancino, Merigó, Coronado, Dessouky, & Dessouky, 2017).

The most frequent keyword is "Trust" followed by "Innovation", "Performance" and "Relationship Marketing". From this perspective, the journal shows significant diversity publishing papers that connect with different issues related to marketing, with a special focus on business-to-business and industrial marketing. Note that the keyword "Business-to-Business" appears under different expressions, including its abbreviation "B2B".

To analyze these results more deeply, we look into the temporal evolution to see how the popularity of keywords has changed over time (see Figs. 10 and 11); these figures consider a minimum occurrence threshold of five and the 100 most representative co-occurrence links.

Between 1998 and 2007, the most popular keywords were "Relationship Marketing", "Market Orientation" and "Trust". However, over time, other keywords have become more popular, such as "Innovation" and "Interaction". In any case, note that from a general point of view, the journal shows considerable diversity, with many different keywords becoming relevant in the journal. As a comparative example, we note that in other studies, such as Martínez-López et al.

(2018) for the European Journal of Marketing and Valenzuela et al. (2017) for the Journal of Business & Industrial Marketing, the authors found that the diversity is lower with some specific keywords strongly leading the journal. In the Journal of Business & Industrial Marketing, the leading keywords were "Business-to-Business Marketing" and "Relationship Marketing" while in the European Journal of Marketing the leading keyword was "Consumer Behaviour" followed by "Marketing".

To visualize better the most popular keywords of IMM, Table 10 presents the 40 most common keywords in IMM from a global point of view but also shows the two periods mentioned above (1998–2007 and 2008–2017).

Over the years, the main research topics have changed to reflect the main social and business needs, and in response to emerging management models. Some of these topics have disappeared from the highest positions, while others have evolved and are still current. Based on the results of LaPlaca (1997), from 1971 to 1994, over 30% of IMM's articles focused on the management of marketing and sales functions. Thus, some of the most relevant topics were: management, sales management, global marketing, buyer behavior, marketing research, product development, distribution, promotions, pricing, and other topics, including case stories.

Expanding the period of time analyzed and focusing on the top 30 citation classics of IMM, from 1971 to 2016, Lindgreen and Di Benedetto (2018) identified eight major categories (supply chains, relationships and business networks, firm performance, value, goods-dominant and service-dominant logic, product innovation, Internet and high-technology markets), and two minor categories (third-party logistics providers, system sellers and systems integrator).

In the evolutionary analysis carried out in this research on the main topics published in IMM and the most important trends, it is observed

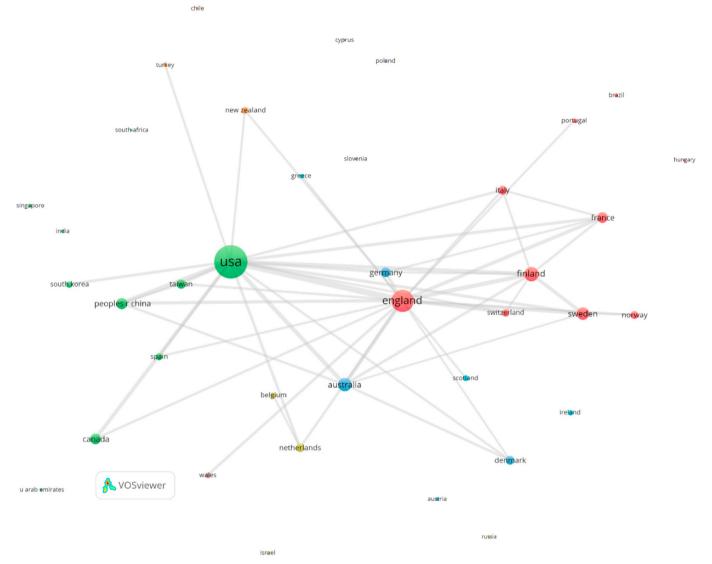


Fig. 8. Bibliographic coupling of countries publishing in IMM: minimum publication threshold of 5 documents and 50 links.

that only four of the topics in the top 10 during 1998–2007 were still prominent in the last decade (2008–2017), which is a sign of the important changes that have taken place in the journal's field of research in recent years. The topics that are still relevant are: Relationship Marketing, Trust, Performance, and Innovation. Market Orientation does not appear in the top 10 topics of the last decade yet occupies a prominent position (6th) in IMM's global list given its important role during the life of the journal. On the contrary, topics such as Sales Management, New Product Development, and Supply Chain Management have been relegated to less relevant positions, although they continue to be important research areas. It is surprising that "E-Commerce", in 9th place in 1998–2007, disappeared from the top 40 in the next decade, not appearing in the global list either. Nevertheless, the term "Networks" has entered with more force in the last decade.

Over time, other keywords have also become more popular, such as "Innovation" (leading the ranking during the last decade), "Business networks", "Business relationships", "Case Study", or "China". In addition, during 2008–2017 a new topic appears in the list of the most relevant, "Interaction". Therefore, the 10 most important topics during the last decade have been, in this order: Innovation, Trust, Interaction, Performance, Networks, Business Networks, Business Relationships, Relationship Marketing, Case Study, and China. Although the concepts related to sales, such as "Sales" or "Sales Management", continue to be

important, they have become less prominent in the last few years. On the contrary, terms related to collaboration, cooperation and the establishment of networks have grown strongly, consolidating their positions. Thus, we can find topics such as: Value Co-creation, Coopetition, Relationships, or Industrial Networks.

Considering the period globally and analyzing the most relevant terms in IMM throughout its history (1971–2017), it can be observed that the top 10 most relevant topics are: Trust, Innovation, Performance, Relationship Marketing, Interaction, Market Orientation, Networks, Business Relationships, China, and Business Networks. However, it is important to note that many of these terms overlap and appear in numerous articles.

Trust is the most relevant research topic during IMM's lifespan (309 articles) and has always been among the topics most frequently addressed by the journal. The paper published in IMM about trust with the highest number of citations (379) is Handfield and Bechtel (2002), "The role of trust and relationship structure in improving supply chain responsiveness", which presents a model based on trust in order to build better relationships in supply chain entities. Moller and Halinen (1999) argued that traditional markets were being rapidly replaced by networks; this paper focused on the management capabilities required in network environments. Other articles have addressed topics such as: trust among members of industrial suppliers and its impact on

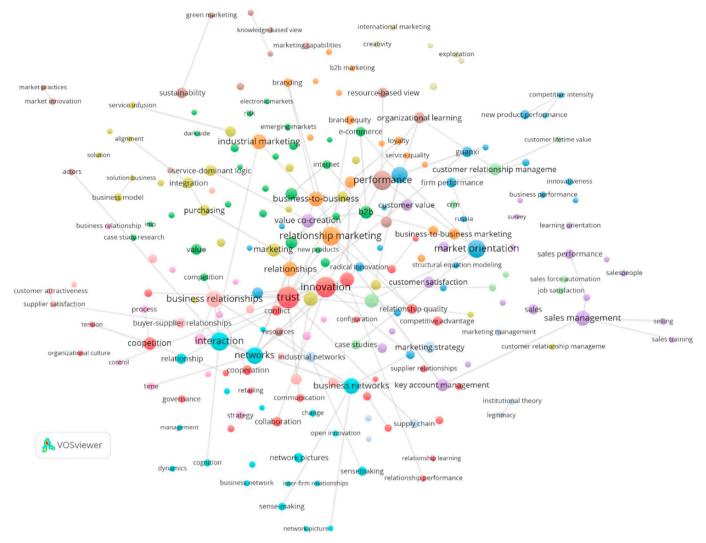


Fig. 9. Co-occurrence of author keywords in IMM for its lifespan (minimum occurrence threshold of 5 and 100 links).

relationship quality; the roles of trust and commitment in corporate reputation and customers' behavioral intentions; antecedents of commitment and trust in customer-supplier relationships; the role of trust in the underlying mechanism between Western relationship marketing and Chinese *Guanxi*; or trust, commitment and satisfaction as key variables of relationship marketing for building customer relations over the Internet.

Innovation is the second most frequent topic in IMM and is closely related to another of the most important topics, Performance. Calantone, Cavusgil, and Zhao (2002), with a very high number of citations (943), examined the effect of learning orientation on firm innovativeness, which in turn affects firm performance. Other papers studied the role of innovation in different topics, such as: the possibility that the collective capability of organizational learning plays a key role in determining innovation; the positive and significant influence of innovation on performance; the positive influence of relationship learning and absorptive capacity on the innovation performances of companies; service innovations through customer interactions; success factors in product innovation; innovation, imitation, and new product performance in China; or factors affecting innovativeness among small businesses.

Relationship Marketing is a topic that is quite transversal, so it relates directly to many other subjects treated in IMM, such as Business Relationships, Networks, or Business Networks. Windahl and Lakemond (2006) researched the relationships within the business network in

order to uncover some of the complex issues related to integrated solutions. At the same time, the term Market Orientation is related to relationship marketing; for example, Sanzo, Santos, Vázquez, and Álvarez (2003) analyzed the effect of market orientation on buyer-seller relationship satisfaction and confirmed the indirect influence that the buyer firm's cultural market orientation exerts on the level of satisfaction with its main supplier.

Interaction is sometimes analyzed together with other relevant topics, such as cooperation, or competition, as in Bengtsson and Kock (2000), who described "coopetition" in business networks –i.e. to cooperate and compete simultaneously–, or in Bengtsson and Kock (2014), on the future challenges of coopetition.

Finally, China is also a relevant topic. Several papers focus on the benefits of *Guanxi* (Davies, Leung, Luk, & Wong, 1995), or the impact of *Guanxi* on behaviors among firms in a Chinese marketing channel (Zhuang, Xi, & Tsang, 2010). Other subjects related to China addressed the influence of market orientation, marketing innovation and business strategy on Chinese manufacturing in small and medium-sized enterprises, or focused on the relationship between environmental orientation, green supply chain management activities and corporate performance.

A final caveat: keywords are presented in the original form as the authors used in their article. Therefore, some keywords may appear several times under different denominations. For example, it is worth noting the case of "Business-to-Business", which appears individually in

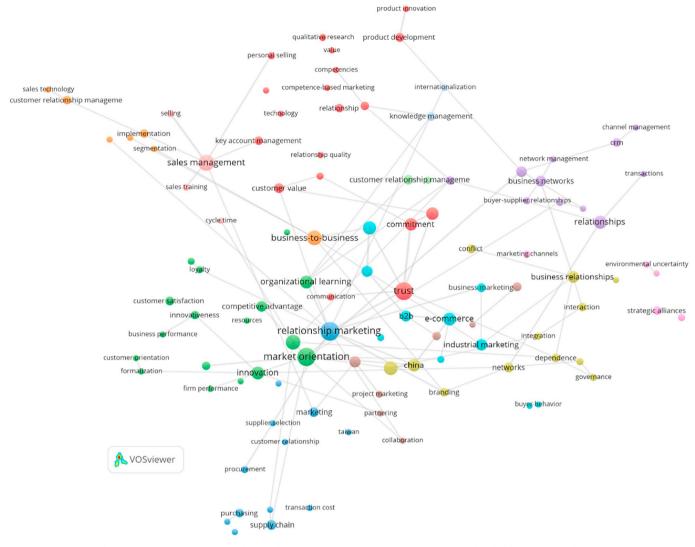


Fig. 10. Co-occurrence of author keywords in IMM: 1998–2007 (minimum occurrence threshold of 5 and 100 links).

the global list in its abbreviated form and together with "Marketing". "Relationship Marketing" also presents this issue with the keywords "Relationship" and "Customer Relationship Marketing". If these two terms were unified, "Business-to-Business" and "Relationship Marketing" would be the most popular keywords in the journal.

6. Conclusions

This study presents a bibliometric overview of the publications in IMM between 1971 and 2017. The main goal has been to identify the journal's leading actors in terms of documents, journals, authors, universities and countries. IMM is a leading journal in the field of business-to-business and industrial marketing, with publications from all over the world, although Europe is the leading region in the journal. The journal has been growing significantly in recent years, becoming one of the leading international journals in marketing.

The UK is currently publishing the highest number of articles in IMM. The University of Manchester and Lancaster University achieve the most noteworthy results, with other institutions from the UK in the top 20. Many other European countries publish significantly in the journal. In particular, it is worth noting the results of Finland and Scandinavian countries in general. Finland achieves significant results, especially considering that it has fewer than 6 million people and has the highest number of articles and citations per million inhabitants.

The USA has published the highest number of articles of any

country, but considering its size, the results are less significant than in many other journals where its relevance is extremely high (Merigó & Yang, 2017). Some universities achieve remarkable results, such as Michigan State University and Georgia State University. Other English-speaking countries, such as Australia, Canada and New Zealand, perform well in the journal, but none of their institutions are among the top 20 most productive institutions. Australia has two universities in the Top 50, but Canada and New Zealand do not have any.

Some Asian countries regularly publish in IMM, but their results are very low compared to Europe and English-speaking countries. China and Taiwan are growing considerably, but still they need to improve. Some developing countries have also published articles in the journal, but the current number is very low. However, the expectations for the future are that these countries will perform better once they achieve a better economic development, with higher investment in research and development.

Analyzing the journal connections of IMM, it is clear that the journal is primarily oriented towards marketing, with significant connections in operations management and other management areas. As expected, IMM is mostly influenced by the Journal of Marketing, although it also frequently cites the Journal of Marketing Research, Strategic Management Journal, the Journal of Business Research, the Journal of the Academy of Marketing Science and the Academy of Management Journal and Review. The keyword analysis proves that the journal aligns with topics connected to business-to-business marketing and

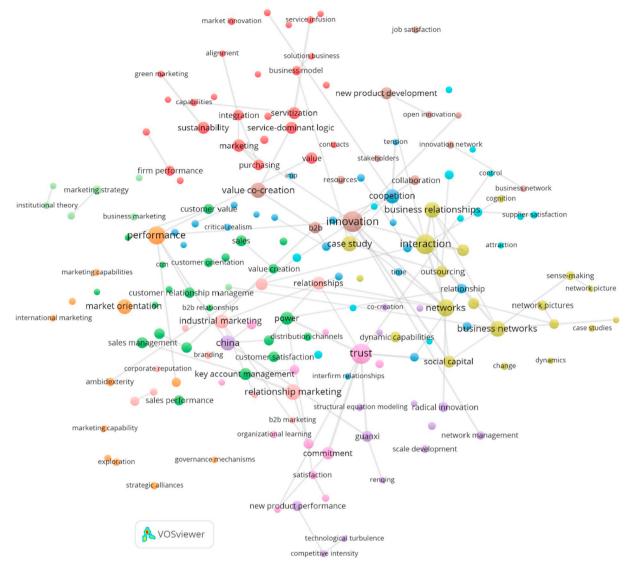


Fig. 11. Co-occurrence of author keywords in IMM: 2008–2017 (minimum occurrence threshold of 5 and 100 links).

relationship marketing.

It is worth asking, which will be the most relevant research streams in IMM in the future? Which papers, authors and institutions will be the most influential in these topics? Given the increasing complexity of business-to-business marketing management research, addressing increasingly diverse topics and fields, which areas of knowledge will the journal have a closer relationship with in terms of future research?

Research in industrial marketing is characterized by its proximity to the business world, so that advances in applied marketing tend to respond relatively rapidly to trends and topics of interest in research. In this sense, it seems that the future opens up new fronts in research in this field to address new challenges. Undoubtedly, one of the subjects of interest will continue to be the future role of new technologies in industrial marketing research. In recent years, different technological tools have appeared that are transforming the way companies relate to each other. It is essential to know how business-to-business will be affected by online marketing, content marketing, the use of digital communication tools, the incorporation of marketing apps as part of the business strategy, and the efficient use of big data, since the correct measurement and analysis of data is increasingly necessary for business success.

Relationship Marketing will continue to be relevant in the future of industrial marketing, as companies have understood that organizations

behave, in this sense, in a similar way to the final consumer. Companies are increasingly aware that customer experience can be a determining factor in achieving greater differentiation with respect to competitors, while the creation of added value can generate higher revenues and stronger customer loyalty. Therefore, it will be important to identify the best strategies to achieve these objectives.

Another key aspect for companies in industrial markets, working transversally with other areas of marketing, will be to develop and improve their image. For a long time, society in general, and customers in particular, have valued not only the economic aspects of the company but also their social and environmental commitment. Thus, management of the relationships with the different participants will also be essential for business success.

In any case, we must concur with Lindgreen and Di Benedetto (2018, p. 6) regarding the enduring influence of IMM on business scholars of diverse disciplines.

7. Research limitations

This work provides a quick overview of the leading trends occurring in the journal. However, it is worth noting several limitations. First, the results represent the current picture up to 31 December 2017; however, these results are dynamic and may change over time. For instance,

Table 10
Most common keyword occurrences in IMM.

| R | Global | | | 2008–2017 | | | 1998–2007 | | | |
|----|----------------------------------|----|----|----------------------------------|----|----|--|----|----|--|
| | Keyword | Oc | Co | Keyword | Oc | Co | Keyword | Oc | Со | |
| 1 | Trust | 73 | 63 | Innovation | 53 | 46 | Relationship Marketing | 25 | 25 | |
| 2 | Innovation | 65 | 56 | Trust | 50 | 41 | Market Orientation | 24 | 22 | |
| 3 | Performance | 56 | 42 | Interaction | 47 | 43 | Trust | 23 | 21 | |
| 4 | Relationship Marketing | 55 | 47 | Performance | 40 | 27 | Sales Management | 18 | 12 | |
| 5 | Interaction | 52 | 48 | Networks | 35 | 30 | Business-To-Business | 16 | 13 | |
| 6 | Market Orientation | 50 | 38 | Business Networks | 30 | 25 | Performance | 16 | 15 | |
| 7 | Networks | 42 | 37 | Business Relationships | 30 | 24 | New Product Development | 14 | 8 | |
| 8 | Business Relationships | 40 | 33 | Relationship Marketing | 30 | 21 | Supply Chain Management | 13 | 7 | |
| 9 | China | 39 | 34 | Case Study | 28 | 21 | E-Commerce | 12 | 10 | |
| 10 | Business Networks | 38 | 33 | China | 28 | 24 | Innovation | 12 | 9 | |
| 11 | Business-To-Business | 33 | 28 | Value Co-Creation | 28 | 18 | Organizational Learning | 12 | 10 | |
| 12 | Industrial Marketing | 33 | 25 | Market Orientation | 26 | 14 | Relationships | 12 | 9 | |
| 13 | Sales Management | 33 | 24 | Coopetition | 25 | 18 | China | 11 | 10 | |
| 14 | Relationships | 32 | 28 | Industrial Marketing | 23 | 18 | Commitment | 11 | 11 | |
| 15 | Case Study | 31 | 24 | Power | 20 | 19 | Satisfaction | 11 | 10 | |
| 16 | New Product Development | 31 | 21 | Relationships | 20 | 18 | Business Relationships | 10 | 9 | |
| 17 | Commitment | 30 | 27 | Commitment | 19 | 16 | Industrial Marketing | 10 | 6 | |
| 18 | Value Co-Creation | 28 | 19 | Marketing | 19 | 17 | B2B | 9 | 9 | |
| 19 | Marketing | 26 | 23 | Key Account Management | 18 | 16 | Internet | 9 | 7 | |
| 20 | B2B | 25 | 24 | Service-Dominant Logic | 18 | 15 | Marketing Strategy | 9 | 7 | |
| 21 | Coopetition | 25 | 19 | Business-To-Business | 17 | 14 | Business Networks | 8 | 6 | |
| 22 | Key Account Management | 23 | 19 | New Product Development | 17 | 13 | Case Studies | 8 | 7 | |
| 23 | Power | 22 | 21 | Servitization | 17 | 13 | Competitive Advantage | 8 | 5 | |
| 24 | Supply Chain Management | 22 | 15 | Social Capital | 17 | 14 | Customer Relationship Management | 7 | 6 | |
| 25 | Customer Relationship Management | 21 | 16 | Sustainability | 17 | 15 | Customer Value | 7 | 7 | |
| 26 | Customer Satisfaction | 20 | 12 | B2B | 16 | 15 | Marketing | 7 | 6 | |
| 27 | Customer Value | 20 | 18 | Network | 16 | 14 | Networks | 7 | 7 | |
| 28 | Marketing Strategy | 20 | 14 | Outsourcing | 16 | 11 | Supply Chain | 7 | 5 | |
| 29 | Satisfaction | 20 | 17 | Value | 16 | 14 | Business Marketing | 6 | 4 | |
| 30 | Business-To-Business Marketing | 19 | 18 | Guanxi | 15 | 12 | Conflict | 6 | 5 | |
| 31 | Organizational Learning | 19 | 18 | Industrial Networks | 15 | 11 | Customer Satisfaction | 6 | 3 | |
| 32 | Purchasing | 19 | 15 | Sales | 15 | 12 | Flexibility | 6 | 6 | |
| 33 | Value | 19 | 17 | Sales Management | 15 | 9 | Knowledge Management | 6 | 6 | |
| 34 | Integration | 18 | 14 | Business-To-Business Marketing | 14 | 13 | Product Development | 6 | 5 | |
| 35 | Knowledge Management | 18 | 16 | Customer Relationship Management | 14 | 10 | Branding | 5 | 4 | |
| 36 | Network | 18 | 16 | Customer Satisfaction | 14 | 8 | Business-To-Business Marketing | 5 | 5 | |
| 37 | Outsourcing | 18 | 13 | Dynamic Capabilities | 14 | 10 | CRM | 5 | 4 | |
| 38 | Service-Dominant Logic | 18 | 15 | Integration | 14 | 12 | Customer Relationship Management (CRM) | 5 | 4 | |
| 39 | Social Capital | 18 | 15 | Purchasing | 14 | 12 | Dependence | 5 | 5 | |
| 40 | Buyer-Seller Relationships | 17 | 13 | Social Media | 14 | 11 | Implementation | 5 | 3 | |

Abbreviations: R = Rank; Oc = Author keyword occurrences; Co = Author keyword co-occurrences links.

when we were closing the reviews for this paper, the 2018 edition of this journal's 2-year impact factor (SSCI, JCR) was released, showing an impressive all-time record for IMM, beating top marketing journals such as the Journal of Consumer Research, the Journal of Marketing Research, the Journal of Consumer Psychology and the Journal of Retailing. This impact factor is the result of citations from 2017, the last year considered in our study, and 2018. If IMM continues to maintain such high impact factors in future years, the bibliometric analyses of the next decade will differ significantly from those of the last one.

Second, the bibliometric methodology of the study follows the guidelines of Web of Science Core Collection. Although this approach is robust, it may also have some weaknesses. For example, Web of Science uses a full counting system giving one unit to any co-author of the document. Therefore, documents with more co-authors tend to have more influence on the results. However, we have addressed this weakness by developing a fractional counting in the graphical analysis with the VOS viewer. Different perspectives could still be considered, although from a general point of view, no significant deviations are expected.

Finally, bibliometrics is an approach to identify leading trends in a field, but it also has weaknesses due to the specific characteristics of academic research that sometimes may over-estimate a sub-area and/or underestimate another one. In any case, considering these specific limitations, it is clear that the information provided in this article will

be of great utility for any reader of the journal interested in obtaining a quick overview of the leading trends of IMM.

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