

INDUSTRIALIZATION STRATEGY & COMPETITIVENESS OF ECONOMY

By

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Abstract

The aim of this research is to analyse scientific production, in English and French, on INDUSTRIALIZATION STRATEGY and COMPETITIVENESS OF ECONOMY behaviours. A bibliometric study, with a mixed approach, was carried out with a search on the SCOPUS portal, this is a systematic review of the literature. In order to support researchers seeking to study these behaviours, this research generated a synthesis table of the main findings and gaps found in the literature on the subject. being to our knowledge the first such study to be carried out.

Keywords: the industrialization strategy; competitiveness of the economy; Bibliometric study.

Introduction

Industrialization, conceived both as an increase in industrial activities and as the transformation of production processes through the use of machinery, is at the heart of all economic developments. For a developing country, industrialization means more than simply increasing income and the volume of production. It is a means of modernizing its primitive structure of production and transforming the whole socio- economic tradition associated with it (UNIDO 1990 /1991).

Between 1850 and 1940, Europe and then other countries such as the United States and Japan experienced significant economic growth thanks to the industrialization of their economies. This phenomenon, based on two major industrial revolutions, led to the transformation of society. Faced with the appearance of social inequalities, many reflections

were developed in order to improve society.

Literature review: Industrialization strategy

The end of the 19th century was marked by two industrial revolutions that led to a strong growth of the economy.

- **Industrial revolution:** phase of intense transformation of industry, characterized by the use of new techniques, the development of new branches of activity and a strong growth of the activity.
- **Economic growth:** lasting and irreversible increase in production. It is accompanied by transformations in the organization of the economy.

The first industrial revolution

This industrial revolution mainly concerned the United Kingdom in the second half of the 18th century. It was made possible by the profits from agriculture and trade and was based on coal and the steam engine developed by James Watt in 1769. New machines were developed for the textile and steel industries. It was the appearance of the "Black Countries" like Wales. This revolution spread to other countries much later, in the middle of the 19th century.

The second industrial revolution

It began around 1880 and was based on new sources of energy, oil and electricity. It is also the time of the development of the automobile, chemistry and machine tools.

The transport and communication revolution

Transportation modified commercial relations by allowing for more distant exchanges. Moreover, new trade routes, with the construction of the Suez (1869) and Panama (1914) canals, shortened distances.

Data Analysis Methodology

The purpose of this study is to explain behavior. To do so, we used the Scopus Portal - large and recognized databases that index national and international journals. The keywords searched were: strategy and industrialization and competitiveness and economy, separately and jointly. The filters used were: peer-reviewed texts of articles in French or English and only scientific articles.

For the data analysis we adopted a mixed approach based on quantitative and qualitative analysis tools. The quantitative analysis was carried out using IBM SPSS Statistics 25 software, following an approach that aims to provide a description of the data by presenting flat sorting in the form of frequency tables and univariate statistics, in order to identify the characteristics of the articles that are the object of our study, and to make a breakdown by type of document, year of publication, and number of citations, as well as an analysis of the temporal evolution of the themes.

The quantitative approach was completed by a qualitative analysis via the Nvivo software, which aims first to make a lexical analysis by frequency of words to determine the main concepts made objects of scientific research. This analysis allows to give a cloud of point which emphasizes the concepts which have a high number of occurrence and gives a first report on the general tendency of the research subjects.

A content analysis was then carried out to understand the general context of each concept and to identify the major idea developed by the researchers as well as to make comparisons between the theoretical approaches mobilized by each of the research works.

Presentation and analysis of results

To collect our data we proceeded to a search of scientific articles that deal with the following concepts: (strategy, industrialization, competitiveness, economy, and competitiveness) on the scientific portal (Scopus), the research allowed us to collect the following data:

Table 1: Refinement analysis		
Thématiques	Number of articles on scopus	Number of selected items
Competitiveness & Economy	103	30
Strategy & Industrialization	14	9
Strat & indust & competit & eco	15	10

Source : ourselves

According to our research of the articles dealing with the different concepts object of the research, and after organizing and sorting the themes according to their closeness to our research topic, we were able to identify 49 articles published between the year 2018 and 2021 that we present their characteristics in the following table :

Table 2 : Characteristics of the items			
		Frequency	Pourcentage
Data base	Scopus	49	100%
Type of document	Article	49	100%
Publication stage	Final publication	49	100%
Years	2018	36	73%
	2019	4	8%
	2020	5	10%
	2021	4	8%

Source : ourselves

The selected documents are mainly final articles in the form of scientific papers indexed

on the Scopus portal. These articles are interested in themes integrating concepts such as: (strategy, industrialization, competitiveness, economy, and competitiveness) published mainly during the year 2018. That is to say 73% of the articles were published during the year 2018, 8% in 2019, 10% in 2020 and finally 8% in 2021.

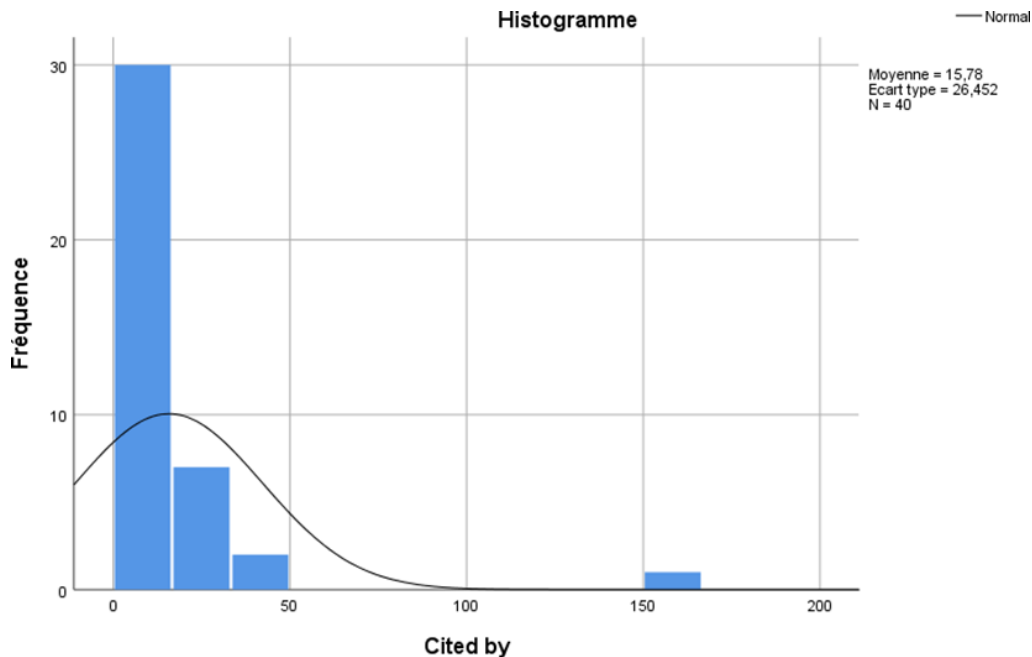
Table 3: Number of article citations

	Average	Median	N	Ecart type	Minimum	Maximum
Number of citations of the article	15,78	10,00	40	26,452	1	165

Source : ourselves

Most of the articles processed were used as a research reference for at least 16 scientific works, the descriptive analysis of the number of citations per article gives us a median value of 10 things which shows that 50% of the articles analyzed were used as a reference for more than 10 scientific works published on scopus.

Figure 1: Number of citations for articles



The histogram reflects the results of the table of the number of citations already presented, we can clearly read that more than 30 articles have been cited in more than 35 scientific research works, as well as some articles exceed 100 citations.

Table 4: Distribution of articles by theme

	Frequency	Percentage	
Themes	Competitiveness & Economy	30	61%
	Strategy & Industrialization	5	18%

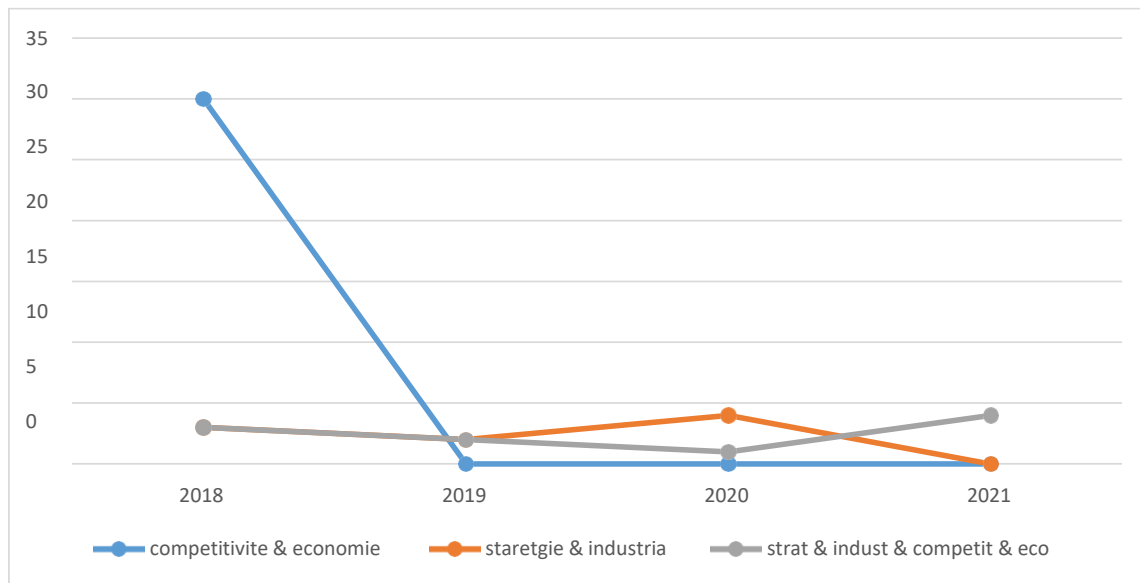
Strat & indust & competit & eco	10	20%
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Source : ourselves

The selected articles are divided according to 3 research themes, namely: (Competitiveness, economy), (Strategy, industrialization), (Strategy, industrialization, competitiveness and economy).

Our article base includes 30 documents related to the subject of Competitiveness, economy, as well as 10 articles dealing with Strategy, industrialization, competitiveness and economy), and finally 5 articles dealing with Strategy and industrialization. A large part of the researches have been realized during the year 2018, after this date the researches on these themes have known a strong decrease.

Figure 2: Temporal evaluation of the theme



Source : ourselves

The comparative analysis of the temporal evolution of the articles dealing with the different concepts, has shown that the year 2018 is undoubtedly the year that has been the most widely published on the topics of economy and competitiveness.

According to the evolution of the time curves, we found that the 30 articles dealing with the topics of competitiveness and economy were all published during the year 2018, no other publication of this theme was recorded during the 3 years 2019, 2020 and 2021.

As for the theme (strategy and industrialization), we have 9 articles, 3 of which were published during the year 2018, two in 2019 and four in 2020. We have not recorded any publication of this theme during the year 2021.

The themes related to the strategy, industrialization, competitiveness and economy are in number of 10 articles distributed as follows: three articles in 2018, two in 2019, one article in

2020 and four articles for the year 2021.

This temporal evolution shows that the pace of research on the three themes has decreased in recent years, particularly in 2019 and 2021.

A textual analysis of the content of the abstracts of the 49 articles allowed us to identify the concepts frequently used in the articles, as well as the general context of the research.



Figure 1: Keyword cloud

The cloud of keywords shows that the words competitiveness, economics countries and development, are the most cited in the different documents analyzed, this result shows that the concept of competitiveness and economy are widely treated in the different articles analyzed and constitute a fertile field of research for the different works related to the field of economics and management.

Also at the level of words we could identify the omnipresence of the year 2018 which constitutes the flagship year of the evolution of works on competitiveness and strategy.

Tableau 1: Articles les plus cités			
Auteurs	Titre	Années	Nombre de citation selon (Scopus)
Mani V., Gunasekaran A., Delgado C.	Enhancing supply chain performance through supplier social sustainability: An emerging economy perspective	2018	165
Andreoni A., Chang H.-J.	The political economy of industrial policy: Structural interdependencies, policy alignment and conflict management	2019	49
Dávila E., Korinek A.	Pecuniary externalities in economies with financial frictions	2018	38
Abreu-Ledón R., Luján-García D.E., Garrido- Vega P., Escobar-Pérez B.	A meta-analytic study of the impact of Lean Production on business performance	2018	33
Drechsel T., Tenreyro S.	Commodity booms and busts in emerging economies	2018	31
Rusu V.D., Roman A.	An empirical analysis of factors affecting competitiveness of C.E.E. countries	2018	25
Nassif A., Bresser-Pereira L.C., Feijo C.	The case for reindustrialisation in developing countries: Towards the connection between the macroeconomic regime and the industrial policy in Brazil	2018	19
Asada R., Stern T.	Competitive Bioeconomy? Comparing Bio-based and Non-bio-based Primary Sectors of the World	2018	17
Pegels A., Altenburg T.	Latecomer development in a “greening” world: Introduction to the Special Issue	2020	17
Bolea L., Duarte R., Chóliz J.S.	From convergence to divergence? Some new insights into the evolution of the European Union	2018	15
Baba Z.U., Shafi W.K., Haq M.I.U., Raina A.	Towards sustainable automobiles-advancements and challenges	2019	15
Tsai D.H.A.	The effects of dynamic industrial transition on sustainable development	2018	14
Biggeri M., Burchi F., Ciani F., Herrmann R.	Linking small-scale farmers to the durum wheat value chain in Ethiopia: Assessing the effects on production and wellbeing	2018	14
Lucarelli S., Andrini F.U., Bianchi A.	Euro depreciation and trade asymmetries between Germany and Italy versus the	2018	13

	US: industry-level estimates		
Bailey D., Corradini C., De Propris L.	Home-sourcing' and closer value chains in mature economies: The case of Spanish manufacturing	2018	12
Flachenecker F.	The causal impact of material productivity on macroeconomic competitiveness in the European Union	2018	12
Lazzeroni M.	Industrial Decline and Resilience in Small Towns: Evidence From Three European Case Studies	2020	12
Nielsen M., Ankamah-Yeboah I., Staahl L., Nielsen R.	Price transmission in the trans-atlantic northern shrimp value chain	2018	11
Guan Z., Xu Y., Jiang H., Jiang G.	International competitiveness of Chinese textile and clothing industry – a diamond model approach	2019	11
Kowalska A., Kovarnik J., Hamplova E., Prazak P.	The selected topics for comparison in visegrad four countries	2018	9
Madau F.A., Furesi R., Pulina P.	The technical efficiency in Sardinian fisheries cooperatives	2018	8
Tan K.G., Gopalan S., Nguyen W.	Measuring ease of doing business in India's sub-national economies: a novel index	2018	7
Neilson J., Dwiartama A., Fold N., Permadi D.	Resource-based industrial policy in an era of global production networks: Strategic coupling in the Indonesian cocoa sector	2020	7
Fischer A.M.	Debt and development in historical perspective: The external constraints of late industrialisation revisited through South Korea and Brazil	2018	7
Mulliqi A., Adnett N., Hisarciklilar M., Rizvanolli A.	Human Capital and International Competitiveness in Europe, with Special Reference to Transition Economies	2018	6
Roman A., Rusu V.D., Stoica O.	Institutional environment and economic development in EU countries: The impact on new business formation [Institucinė aplinka ir ekonominė plėtra ES valstybėse: Įtaka naujo verslo kūrimui]	2018	6
Hurley C.O.	MSME competitiveness in small island economies: a comparative systematic review of the literature from the past 24 years	2018	5
Kraftová I., Doudová I., Miláček R.	At the threshold of the fourth industrial revolution: Who gets who loses [Na prahu čtvrté průmyslové revoluce: kdo získává,	2018	5

	kdo ztrácí]		
Onyiriuba L., Okoro E.U.O., Ibe G.I.	Strategic government policies on agricultural financing in African emerging markets	2020	5
Geda A., Senbet L.W., Simbanegavi W.	The illusive quest for structural transformation in Africa: Will China make a difference?	2018	5
Fischer C., Hossfeld O., Radeck K.	On the Suitability of Alternative Competitiveness Indicators for Explaining Real Exports of Advanced Economies	2018	4
Lábaj M., Silanič P., Weiss C., Yontcheva B.	Market structure and competition in the healthcare industry: Results from a transition economy	2018	3
Etemad H., Keen C.	Managing rapid change and rapid-growth in emerging industries	2018	3
Falkowski K.	Trade interdependence between russia vs. The european union and china within the context of the competitiveness of the Russian economy	2018	2
Bardazzi R., Ghezzi L.	Trade, competitiveness and investment: an empirical assessment	2018	2
Cammack P.	The OECD and the world market: antecedents of deep marketization	2019	2
Srivastav S., Fankhauser S., Kazaglis A.	Low-carbon competitiveness in Asia	2018	1
Karanina E.V., Loginov D.A., Timin A.N.	Overcoming the threats and risks of the strategy of education quality management in a region in Industry 4.0	2020	1
Sato H.	Industrialization of Developing Economies in the Global Economy with an Infectious Disease	2021	1

Source : ourselves

The encoding of the content of the articles allowed us to classify the research works in 4 thematic groups:

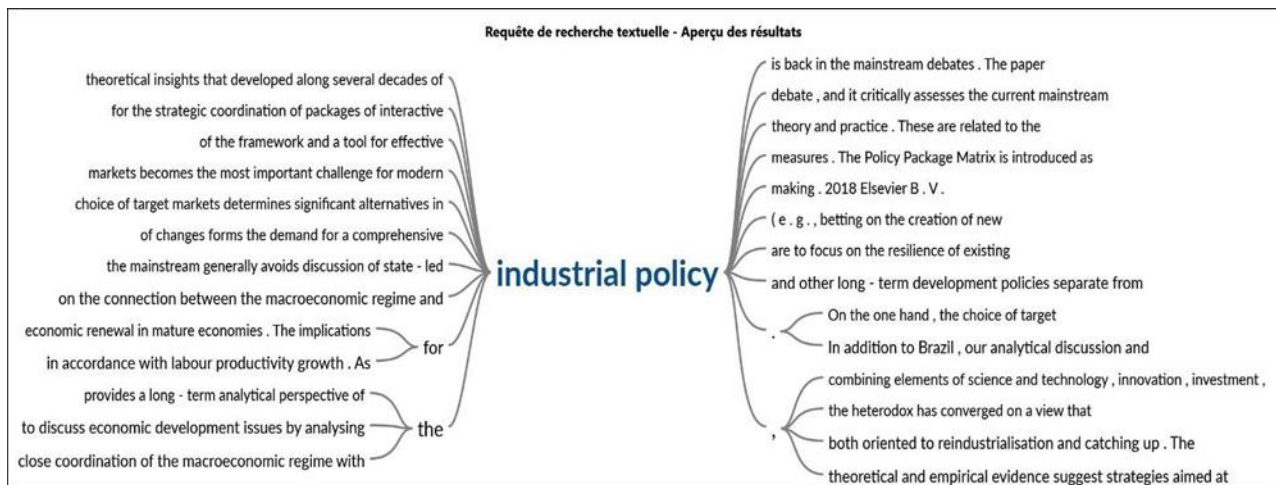
Themes	Number of references
industrial policy	19
emerging economies and developingeconomies	18
international competitiveness	7
world market	5

Source : ourselves

The themes related to industrial policy are those that have received the most interest from researchers, we find 19 references that deal with this theme, followed by the articles comparing emerging economies and developed economies, then international competitiveness, and finally the global market.

After having grouped the works by themes, we proceeded to a content analysis of the articles.

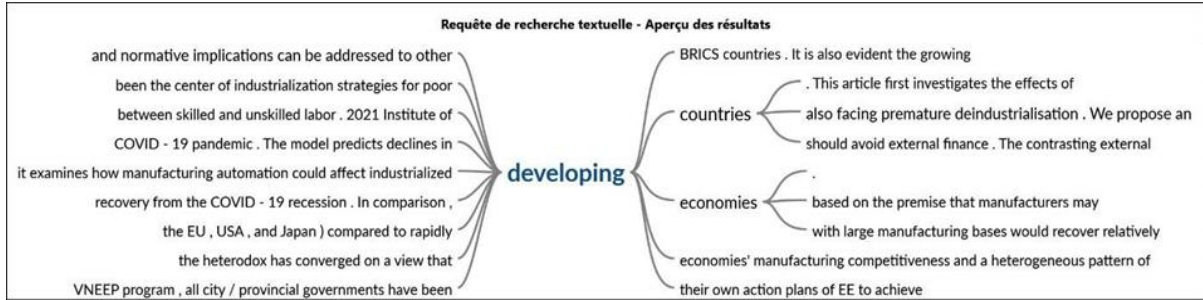
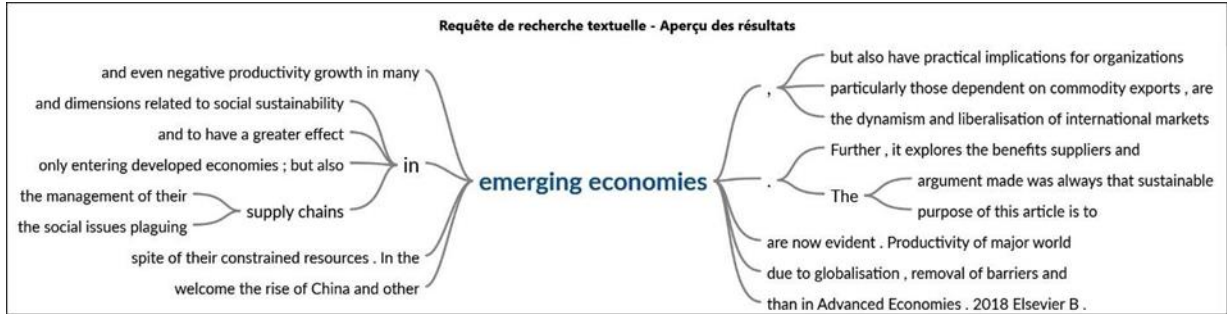
The industrial policy



Source : ourselves

Most of the work focuses on the problems and challenges of industrial policy, as well as the tools that promote the increase of the productivity of the industrial system and the development of efficiency.

Emerging economies & developing economies



Source : ourselves

A large part of the articles present comparative analyses between the economies of emerging countries and developed countries, this comparison is based mainly on the development programs adopted in each group of countries as well as the economic impact of each strategy, the comparison touches different levels: industrial, economic and social .

International competitiveness



Source : ourselves

The research projects also focus on international competitiveness and the various implications of trade agreements between countries, as well as the competition from Chinese products, particularly in the textile sector.

World market



Source : ourselves

The studies also focus on the development of the global market and all the strategies and partnerships implemented to ensure the competitiveness and development of economies.

Conclusion:

The present work aimed at analyzing the scientific production, in English and in French, on the themes of strategy, industrialization, competitiveness, and economy. To do so, we used a bibliometric study, with searches in the SCOPUS databases. After selecting the results, a final sample of 49 articles was obtained, which was used for the analyses presented here.

This study has made it possible to examine how the development of scientific publications on the topic in question has proceeded and the possibilities for improvement in this aspect of research. As a conclusion of the results obtained, it was found that the majority of the works are mainly interested in the problems of industrial policy, as well as the tools that promote the increase of the productivity of the industrial system and the development of efficiency.

Other research opportunities that deserve to be highlighted concern the empirical verification of theoretical studies, the use of other research methodologies would also allow the development of science on strategy, industrialization, competitiveness, economics and competitiveness.

The present article was limited to the language of the selected works, it was chosen only for works in English and French. It is therefore possible to include other languages in future research, in order to enrich the results obtained here.

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