

Short communication

An analysis of the influences of scholars and their academic works in Chinese entrepreneurship field: Based on the CSSCI (2009-2010)

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Entrepreneurship research has been emerging endlessly for several decades, but little about its past study review. In this article, the author points out the current Chinese venture research situation through analysing and evaluating the entrepreneurship research scholars, academic journals, academic institutions and works by CSSCI.

Keywords: academic work; CSSCI; entrepreneurship; scholar
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INTRODUCTION

The entrepreneurial activities booming are the strong supports for the prosperity of one Country. In practice, the number of entrepreneurs is increasing, all kinds of enterprises are emerging and developing; in theoretical field, venture research is growing vigorously also, as a result, entrepreneurship research can be seen everywhere in academic researches(Shane, 2000). Although Chinese academic venture research started latter than the west, it has developed rapidly under the influence of venture waves and oversea venture research through the world, especially in the 21st century. Definitely, scholarly works is the main body of scientific research. The analysis and evaluation on influences of the scholars and academic works in Chinese venture field can help us to have a deeper comprehension for the domestic entrepreneurship research status quo, so as to provide useful information for the promotion of entrepreneurship practice and flourishing of the venture theoretical research. The Chinese social sciences citation index (CSSCI), developed by China social science evaluation center of Nanjing university, provides the

conveniences for us in inspecting the current situation in academic research, development trend and influence of one of humanities and social science and data support for analyzing the influences of scholars and academic works in the venture research field in China. The author regards the database of CSSCI (2009-2010) as statistical sources, obtains the original data from it and analyzes them through statistical methods. With the purpose of observing the influences of scholars and their works in Chinese venture research field depending on statistical analysis.

In particular, the original material information can be retrieved through the CSSCI and cited document database respectively. Procedures:(1) enter the database (2009-2010) of CSSCI (except the CSSCI Expanded version) -- the "The document source " page -- the "paper" in the "document type" of retrieval item -- "title", then input "entrepreneurship" in the "key words" , at last, merge the two retrieval results and a list of screen articles, eliminate some non-academic articles, such as: Preface, book reviews, meeting minutes reports, news reports and government official reports. (2)enter the database(2009-2010) of CSSCI (except the CSSCI Expanded version) -- the "cited document"-- the "Journal articles"and "books" in the "cited document type" of retrieval item, then input twice the "entrepreneurship" in

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Table 1. the statistical data about “entrepreneurship” papers with co-authors in 2009-2010(Unit: papers)

Type	Single author	Two authors	Three authors	Four authors	Five and over five authors	Group or organization	The proportion of co-authors
2009	133	161	82	10	2	3	65.98%
2010	145	156	70	14	1	3	62.72%

Table 2. entrepreneurship scholars who have published three or over three articles in 2009-2010

Order	Author	Organization	Number of published papers(paper)		
			2009	2010	Total
1	LI Hua-jing	Beijing Forestry University	3.6	2.8	6.4
2	Zhang Yu-li	Nankai University	2.5	3.1	5.6
3	Chi Jian-xin	Chongqing University	3	2	5
4	Chen Zhong-wei	Anhui University of Finance & Economics	3.2	1	4.2
5	Ge Bao-shan	Jilin University	2.8	1	3.8
6	Li Xin-chun	Sun Yat-Sen University	1.3	2.4	3.7
7	Lin Song	Central University of Finance & Economics	2.6	1.1	3.7
8	Peng Hua-tao	Wuhan University of Technology	0.4	3.2	3.6
9	Xu Xiao-zhou	Zhejiang University	0.4	3	3.4
10	Wang Chong-ming	Zhejiang University	2.35	0.8	3.15
11	Ding Ming-lei	Nankai University	1.8	1.2	3
12	Guo Bi-yu	Nantong University	0	3	3
13	Li Xue-ling	Jilin University	1.2	1.8	3
14	Liu Jing-jian	Harbin Engineering University	0	3	3
15	Mei Qiang	Jiansu University	1.3	1.7	3

“document name”, check the information of “cited journal articles” and “cited books”.

The analysis of influences of scholars and their works in entrepreneurship field

The academic level of Scholars depends more on the quality of findings rather than the quantity of published research. For the scholars studying philosophy, the higher the number of publications and citations, the greater the breadth and depth we can prove its academic influence. In this paper, analyzing the statistical data from the quantities of article and the citation with the help of CSSCI, then we can observe the academic influence force in the business field, from the “quantity” and “quality” separately.

The statistical data about the published articles

After merging the authors with the same name, the number of published articles is 602 in 2009; 606 in 2010.

From table 1, we can get that the co-authors which is 65.98% in 2009 and 62.72% in 2010 to the whole published papers. Two-authors as the main stream in co-authors, as of 2009 it constituted 62.4% and 63.93% in 2010.

In table 2, the author gives a list of scholars who have published three or over three articles, involving the name, institution, the number of research finding. It needs to be explained that, firstly, the numbers only relate to the articles about entrepreneurship in the table, secondly, appearing in the decimal statistical results. The number of co-author and anonymous position lead to the different weight and scores; thirdly, the specific calculation method is regarding each of the literature score as 1, if over one author in one paper, the statistical system distributes weight for the one based on the author's signature position. Such as, two-authored is the 0.6 and 0.4; three-authored is the 0.6、0.25 and 0.15;four-authored is the 0.6、0.2、0.1 and 0.1;five-authored is the 0.6、0.1、0.1、0.1 and 0.1;six-authored is the 0.6、0.1、0.1、0.1、0.05 and 0.05.

In table 2, the 15 authors, there are eight scholars

Table 3. the authors with cited over 10 articles in 2009-2010

Order	Author	Organization	Number of cited papers		
			2009	2010	Total
1	Zhang Yu-li	Nankai University	28	30	58
2	Cai Li	Jilin University	16	12	28
3	Yang Jun	Nankai University	11	11	22
4	Li Xin-chun	Sun Yat-Sen University	3	16	19
5	Chen Zhong-wei	Anhui Un. of Finance & Economics	8	10	18
6	Lin Song	Tsinghua University / Central University of Finance & Economics	8	8	16
7	Peng Hua-tao	Wuhan University of Technology	4	10	14
8	Wang Xi-yu	Industry Policy and Law Office of Agriculture Department	6	8	14
9	Zhang Wei	Hangzhou Dianzi University / Zhejiang University	4	10	14
10	Li Zheng	Jilin University / Nankai University	8	4	12
11	Mei Wei-hui	Zhejiang University	1	11	12
12	Xue Hongzhi	Nankai University	5	7	12
13	Gu ShengZu	Wuhan University	5	6	11
14	Zheng Feng-tian	Renmin University of china	7	4	11
15	Wei Jiang	Zhejiang University	3	7	10
16	Zhang Ying-hong	Capital Un. of Economics and Business	7	3	10

borne in the 1960s, six in 1970s. From this point, it can be concluded that the middle-aged and young scholars with keen on innovation take the majority. And most of these scholars have become the academic leaders in their own universities and responsible for the teaching task of master's degree or doctorate. These scholars with academic golden age devoted themselves to the field of venture research, on the one hand, the venture research shows up the important academic and practical value; On the other hand also means that the team of Chinese venture research scholars is growing.

The statistical data about cited scholars

"Cited scholars" statistic refers to the statistic for the cited times of scholars' production by the papers which are published in source journals – CSSCI. The "cited" not only includes the cited paper but also the cited works and other production types. After merging the authors with same name, the number of cited journal article is 498 in 2009 and 611 in 2010; the number of Chinese book author is 115 in 2009 and 2010. These are the statistical results of the scholars' cited in 2009 and 2010 and can reflect partly academic influence of the scholars in venture research.

Table 3 lists the authors cited in over 10 articles in 2009-2010. Lin Song, the associate professor of the China Central University of Finances and Economics; the management doctor of Tsinghua University. In 2009 and 2010, his five articles were cited with the "Tsinghua University" signing and the "business" as the title.

The cited times of the five articles is up to 13 in "cited journal articles". Two of them are signed for the Central University of Finance and Economics, the cited number is 3. Zhang wei, the associate professor of Hangzhou Electronic Science and Technology University, management doctor of Zhejiang University. In 2009 and 2010, Zhang wei's one article was cited accumulatively up to three times signed for "Zhejiang University", other four papers up to 11 times signed by "Hangzhou Electronic Science and Technology University". LiZheng, associate professor of economics academy;Jilin University, the postdoctoral of Nankai University. In 2009 and 2010, Li Zheng's five cited journal articles were marked by double identities. The academic achievements of above three scholars, done during their doctoral or postdoctoral period, have laid a solid foundation for their academic influence in the field. Among them, Zhang Yu-Li, the professor of Nankai University; Li Xin-Chun, the professor of Zhongshan University; Chen Zhong-Wei, the professor of Anhui Finance and Economics University;

Table 4 the survey of published papers about entrepreneurship supported by funds in CSSCI from 2009 -2010

Type data	Number of published papers(article)	accepted research fund(article)	no research fund(article)	accepted national natural science funds or national social science funds(article)	The proportion of papers accepted national natural science funds or national social science funds in total
2009	391	223	168	111①	28.39%
2010	389	249	140	117②	30.08%

Note: ①90 papers accepted national natural science funds in 2009, national social science funds was 25, 4 papers were both. ②98 papers accepted national natural science funds in 2010, national social science funds was 26, 7 papers were both.

Lin Song, the doctor of the Central University of Finance and Economics, Peng Hua-Tao, the doctor of Wuhan University of Technology, again appear in table 3 as cited author. 2009-2010, the five scholars posted the top in the published quantity as well the citation. It reflects the great academic influence of these scholars in the business field in the two years.

The analysis of academic influences of scholars' works in entrepreneurship field

The survey for "entrepreneurship" papers

In 2009 and 2010, there were respectively 391 articles and 389 essays about "entrepreneurship" in CSSCI. Table 4 shows that nearly one third of papers from the research results are supported by the national natural science fund or national social science fund. This point not only reflects that the nation is paying more attention to entrepreneurship research, but also shows that the entrepreneurial achievements have had a deep research foundation and a fertile research soil. Meanwhile, there are more and more entrepreneurship papers published in Chinese core journals in CSSCI. Table 5 shows some journals published entrepreneurship research papers more than 10 pieces from 2009 to 2010. Among them, "Science and Technology Progress and Policy", "Science and Technology Management Research", "Foreign Economics and Management", "Science and Management of S.and.T." and "Statistics and Decision" were up to 20 articles in them in the two years.

In addition, it is worth noticing that these "entrepreneurship research papers" are classified as several existing subjects at the same time, such as the management, pedagogy, economics, psychology, sociology, law, journalism and communication and culture in CSSCI from the disciplinary property perspective. The management, education and economics are the three major subject sources for these papers. The specific statistical data: 160 articles are classified as management in 2009, 126 articles as economics discipline, 68 articles as education subject, accounted for 90.54% in all of

articles throughout the year. In 2010, 147 articles as the management, 100 articles are classified as economics, 106 articles as education subject, accounted for 90.75% in all of articles throughout the year. This phenomenon has proven the inseparable, countless relationship again between the entrepreneurship research and management, economics, education.

Some important works in entrepreneurship field

How to judge reasonably for the quality of the papers or works in one field. One method is to inspect it in time and practice with a long term, but in the short term, we can judge from the number of citations by counterparts. The papers or works cited the most times have proved themselves not only being highly studied at the academic level but also the involved subjects of important theoretical value. Here, we have a statistical analysis for single papers or books about entrepreneurship by using the "cited document" in CSSCI. In particular, we got the total number of citations for each paper or book by merging papers and books about "entrepreneurship" (as cited by CSSCI in 2009-2010), and then generated Table 6, Table 7 and Table 8 according the total cited times.

As Table 6 shows, in the published papers in CSSCI from 2009 to 2010, the article "Jobbing and Homing: Employment Transfer and Rural Growth" published in "Management World" in 2008 is the number one—14. the following two articles-10: "Empirical Study of Relationship Between Entrepreneurship of Entrepreneurial Team and Corporate Performance" by Profess Chen Zhong-wei of Anhui University of Finance and Economics in 2008; and "An Empirical Study on Moderating Role of Environment Dynamism on Relationship of Entrepreneurial Strategy and Performance" by Zhang Ying-hong in China Industrial Economics in 2008. Profess Zhang Yu-li has three articles in Table 6, both Profess Li Xin-chun and Profess Mei Wei-hui have two articles. These frequently cited articles involve the entrepreneurial behavior, entrepreneurial opportunity, entrepreneurial environment, entrepreneurial theory, entrepreneurial process, entrepreneurship education and so on. Empirical research and theoretical construction research are both

Table 5. the journals published over 10 articles about entrepreneurship in 2009-2010

Order	Journal	Number of published papers about Entrepreneurship(article)		
		2009	2010	Total
1		22	26	48
2	Science and Technology Progress and Policy			
	Science and Technology Management Research	26	0	26
3	Foreign Economies and Management	11	14	25
4	Science of Science and Management of S. & T.	11	13	24
5	Statistics and Decision	11	9	20
6	China Higher Education	5	14	19
7	China Higher Education Research	9	9	18
8	Research in Educational Development	2	14	16
9	Studies in Science of Science	7	9	16
10	Modern Management Science	15	0	15
11	R & D Management	7	8	15
12	Jiangsu Higher Education	3	11	14
13	Economic Geography	14	0	14
14	Soft Science	7	6	13
15	Social Science Front	5	7	12
16		3	8	
	Research in Higher Education of Engineering			11
17	Forum on Science and Technology in China	4	11	11
18	Management World	6	4	10
19	Chinese Journal of Management	2	8	10
20	East China Economic Management	5	5	10
21	Scientific Management Research	4	6	10
22	Modern Economic Research	6	4	10

Note: It was ordered by the total of published "entrepreneurship" papers in 2009-2010.

Table 7. Translations about Entrepreneurship with two and over two cited times in 2009-2010

Order	Translations	Cited times
1	Burton R. Clark. <i>Creating Entrepreneurial Universities: Organizational Pathways of Transformation</i> , 1998.	30
2	Peter F. Drucker. <i>Innovation and Entrepreneurship</i> , 1985	23
3	Jeffrey A. Timmons. <i>New Venture Creation</i> , 1985	13
4	Henry Etzkowitz. <i>MIT and the Rise of Entrepreneurial Science</i> , 2007	12
5	Sheila Slaughter. <i>Academic Capitalism: Politics, Policies, and Entrepreneurial University</i> , 1999	8
6	Burton R. Clark. <i>Sustaining Change in Universities: Continuities in Case Studies and Concepts</i> , 2004	6
7	Jeffrey A. Timmons. <i>Financing Entrepreneurial Ventures</i> , 2002.	3
8	Michael H. Morris. <i>Corporate Entrepreneurship: Entrepreneurial Development within Organizations</i> , 2002.	3
9	Robert A. Baron. <i>Entrepreneurship: A Process Perspective</i> , 2007.	2
10	Marc J. Dollinger. <i>Entrepreneurship: Strategies and Resources</i> , 2003.	2
11	Steve Mariotti. <i>The Young Entrepreneur's Guide to Starting and Running a Business</i> , 2000	2

Table 6. Papers about Entrepreneurship with six and over six cited times in 2009-2010

Order	Paper	Cited time
1	Wang Xi-yu. Jobbing and Homing: Employment Transfer and Rural Growth. Management World,2003(7).	14
2	Chen Zhong-wei. Empirical Study of Relationship Between Entrepreneurship of Entrepreneurial Team and Corporate Performance. Journal of Management Sciences, 2008(1).	10
3	Zhang Ying-hong. An Empirical Study on Moderating Role of Environment Dynamism on Relationship of Entrepreneurial Strategy and Performance. China Industrial Economics, 2008(1).	10
4	Guo Yuan-Yuan. The Assessment of Entrepreneurial Environments of Cities in China. Science and Technology Progress and Policy, 2006(2).	8
5	Wei Jiang. The Study on the Entrepreneurship Instruction, learning organization and Dynamic Ability Relationship. Foreign Economies and Management, 2008(2).	8
6	Cai Li. A Framework for the Study of Entrepreneurship Environment. Jilin University Journal Social Sciences Edition, 2007(1).	8
7	Lin Pei. Empirical Study on Self-business Behavior of Return Rural Labor in 1990s.Population & Economics, 2004(2).	8
8	Zhang Yu-li. Corporate Entrepreneurial Orientation and Organizational Performance: Mediating Effect Research Based on Explorative Competence and Exploitative Competence. Journal of Entrepreneurship Research, 2006(1).	8
9	Yang Jun. The Analysis for Entrepreneurship Behavior Processes Based on the Genius Resource of Entrepreneur. Foreign Economies and Management, 2004(2).	8
10	Li Xin-chun. Starting an Undertaking in Terms of Strategy, and the Succession of Entrepreneurialism of Clannish Firms. Management World, 2008(10).	8
11	Lin Qiang. The Theory of Entrepreneurship and an Analysis of Its Conceptual Framework. Economic Research Journal, 2001(9).	7
12	Li Xin-chun. Regional differences of High-Tech Industry: Resources, Economic Development and Favorable Policy. Social Sciences In China, 2004(3).	7
13	Zhang Yu-li. Survey: Carving out of Entrepreneurs. Economic Theory and Business Management, 2003(9).	7
14	Zhang YuLi. Social capital, Experience and Entrepreneurship Chance. Manage World, 2008(7).	7
15	Bian Yan-jie. Born out of Network: A Sociological Analysis of the Startup. Sociological Studies, 2006(6).	7
16	Xue HongZhi. The Study on Entrepreneurship instruction, Strategy Model and Organization Performance Relationship, Economics Theory and Economics Management ,2006(3).	6
17	Fan Wei. The Study of Entrepreneurial Intention and Its Determinants. Psychological Science, 2004(5).	6
18	Li Shi-chao. The Reformation Trend of University---From Research University to Entrepreneurial University Studies in Science of Science, 2006(24).	6
19	Chen Liu. The Review on the Foreign Research about Technological Members' Entrepreneurship Behavior. Foreign Economies and Management,2006(6).	6
20	Mei Wei-hui. A Study on the Models of Entrepreneurship Education in American Universities and Colleges. Comparative Education Review, 2008(5).	6
21	Jiao Hao. The analysis on Enterprise dynamic ability construction path: based on business instruction and organization learning perspective. Management World, 2008(4).	6
22	Liu Guang-Ming. Out labor venture: characteristics, reasons and its influences. Rural Economics in China,2002(3).	6
23	Mei Wei-hui. Problems and Strategies of Entrepreneurship Education in Higher Institutions in China. Educational Research, 2009(4).	6

Table 8. Chinese Writings with four and over four cited times in 2009-2010

Order	Writings	Cited times
1	Gao Jian; Jian Yan-fu. <i>Global Entrepreneurship Monitor China Report</i> ^①	29
2	Zhang Ji-jiao. <i>The migrants' adaptation in cities: employment and entrepreneurship</i> ,2004	10
3	Wang Yuan. <i>Venture Capital Development in China</i> ^②	9
4	Zhang Jing-an. <i>Entrepreneurship and Innovative Clusters</i> , 2002	7
5	Yu Yi-hong. <i>Entrepreneurship</i> , 2000	6
6	Zhang Yu-li. <i>Entrepreneurship</i> , 2006	6
7	Chen Zhong-wei. <i>A Study of Dynamics of Entrepreneurship in Entrepreneurial Team</i> , 2007	5
8	Jiang Yan-fu. <i>Entrepreneurial Management</i> , 2005	5
9	Liu Yan-jun. <i>Theory and Strategy for VC</i> , 2005	5
10	Gao Jian. <i>China City Entrepreneurship Monitor Report</i> , 2007	4
11	Lei Jia-su. <i>High-tech Entrepreneurship Management</i> , 2001	4
12	Li Zhong-wen. <i>The Silicon Valley Edge</i> ,2002	4

Peng Gang. *Entrepreneurship Education*, 1995

Note: ① is series, it has appeared in 2002,2003,2005,2007;And they are calculated by one book.

② is series, it has appeared in 2006,2007,2009;And they are calculated by one book.

included from the point of research method. From the multi-disciplinary knowledge perspective, it includes management, pedagogy, psychology, sociology, economics and other subjects. From the foregoing analysis, using multi-disciplinary knowledge and various research methods would be a major feature in entrepreneurship research. It is not only the advantage for a prosperous future, but also reflects the lack of unique paradigm.

In addition to papers, monographs are also the reflection on scholars' scientific achievement. We can find the works with important academic influence and the literatures with great reference value by CSSCI, which has been providing guidance for the following scholars to understand and explore in this field. Table 7 shows the translations about entrepreneurship with 2 and over 2 cited times in 2009-2010. The world famous scholar's works still and will continue to play a strong academic influence in China's entrepreneurship research, such as Burton R. Clark's *Creating Entrepreneurial Universities: Organizational Pathways of Transformation*, Peter F. Drucker's *Innovation and Entrepreneurship*, Jeffrey A. Timmons's *New Venture Creation* and so on. Table 8 shows Chinese writings with better academic influences in entrepreneurship research from 2009 to 2010, including the description of the Chinese entrepreneurship research(such as *Global Entrepreneurship Monitor China Report*, *China City Entrepreneurship Monitor Report*, *Entrepreneurship Venture Investment Development in China*), literature books about some aspects(such as *A Study of Dynamics of Entrepreneurship in Entrepreneurial Team*, *Theory and Strategy for VC*), teaching

material(such as *Entrepreneurship*, *Entrepreneurial Management*), which are the important signs that the transition from referencing foreign theories to combing Chinese situation with independent theoretical innovation.

CONCLUSION

This paper attempts to make a review for the entrepreneurship researches by CSSCI and have a deeper exploration for entrepreneurship research without building complex models and paradigm in order to provide useful information for the legitimacy building of the business. Meanwhile, the expansion ideas (the comparative study among similar subjects) of entrepreneurship research in the paper may make venture research withstand test better; it should pay more attention to the combination of the reference and independence in Chinese entrepreneurship system construction; More research methods remain to be used. In addition, this paper is not comprehensive because of the limitation of CSSCI, more systems (such as Cnki) can be considered.

Reference

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