



**Key Research Institute of Humanities and Social Science in Universities,**

**Ministry of Education, P R CHINA**

**Research Center for Technological Innovation,**

**Tsinghua University**

**Annual Report**

**(2014)**

**January 2015**

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# Forewords

The Research Center for Technological Innovation of Tsinghua University (short for “the Center”) was established in 2000 and got approved by the Ministry of Education of China as a key Research Institute of Humanities and Social Science in China in 2004. With diversified professional expertise and abundant academic resources, the Center is endeavored to improve its position in the field of technological innovation research at home and abroad and gradually becoming a new innovation Institute for China’s fundamental theories of technological research, a talent training Institute for high level innovation of the economic management and policies research, a think tank for key decisions on national innovation and entrepreneurship and a center for academic exchanges in technological innovation research at home and abroad and for information collection. The Center endeavors to make contribution to China’s innovation development strategy and has completed several important and key projects supported by China’s national science foundation and lots of projects assigned by other countries or China’s governmental organizations and subject research commissioned by enterprises.

By the end of 2014, the Center had 31 researchers in total with 14 full-time researchers and 17 part-time researchers; 48 academic committee members (including advisors) in total with another 11 joining in 2014. There were 7 world renowned scholars joining the newly established International Advisory Committee of the Center in 2014, namely Eric Von Hippel from Massachusetts Institute of Technology, Bengt-Ake Lundvall from Aalborg University of Denmark, Robert Burgelman from Stanford University, Joe Tidd from Sussex University, Keun Lee from Seoul University, Hang Chang Chieh from National University of Singapore and Arie Y. Lewin from Duke University (details in attachment 1 and attachment 2).

As the drawing near of China’s “13<sup>th</sup> Five-year Plan”, the Academic Committee of the Center discussed and formulated its “13<sup>th</sup> Five-year” strategic objectives, which are to explore the independent innovation theories and methods with Chinese characteristics under the guidance of development driven by innovation actively, to lead the development of China’s technological innovation science, to cultivate high level talents on innovation

research, to improve its international status and become an international top-ranked research institute; and to bring forward with the strategic development advices to concise the discipline orientation and strengthen the open-up strategy and cooperation.

The year 2014 witnessed the endeavors by the Center to lay a foundation of a new building, unify construction and become first class and many fruitful achievements, thanks to the united efforts and heartfelt contributions from all researchers and staff of the Center, supports and guidance of leaders from all relevant fields, close cooperation and supports from all coordinating parties and sincere help from all sectors of the society.

This annual report gives a brief introduction of the major works of the Center in 2014 regarding mainly with aspects including scientific research, academic effects and social services, teaching and talent training, academic platform construction and etc. It is not only a record and conclusion of the Center's works in 2014, but also a report to relevant governing organizations and the society extending their supports and care to us including experts and scholars at home and abroad, entrepreneurs and governmental authorities. It will be a mirror for us to be better in the next year. For any negligence and imperfection, we appreciate your supplements and corrections. Hereby we extend our heartfelt and sincere thanks to all of you!

This year we will redouble our efforts to become an international first-class innovation research organization with full spirit.



Director

Research Center for Technological Innovation, Tsinghua University

January 30, 2015

# **1. Scientific Research Achievements**

In 2014, as a key research Institute of humanities and social Science under China's Ministry of Education, the research center for technological innovation of Tsinghua University (short for "the Center") has obtained lots of improvements related with scientific research, academic effects and social services, teaching and talent training, academic platform construction and etc, thanks to the considerable supports from China's Ministry of Education, China's Ministry of Science and Technology, China's Ministry of Finance and as well as leaders and relevant departments of Tsinghua University, including the Scientific Research Institute, the Financial Department, the International Affairs Department, the School of Economics and Management and etc. Presently, the Center is on a good and rapid track toward its objective of becoming an international first-class research organ in the field of technological innovation management with great steps.

In August 2014, at the annual meeting of the Academic Committee of the Center, all members discussed about the development strategy of the Center, and formulated the "13<sup>th</sup> Five-year Plan" strategic objectives for the Center, which are to explore the independent innovation theories and methods with Chinese characteristics under the guidance of development driven by innovation actively, to lead the development of China's technological innovation science, to cultivate high level talents on innovation research, to improve its international status and become an international top-ranked research institute; and to bring forward with the strategic development advices to concise the discipline orientation and strengthen open-up and cooperation.

## **1.1 Scientific Research Projects**

In 2014, based on the major practical problems of China's innovation development, the Center aimed at the international leading edge of the disciplines and conducted lots of high-standard scientific researches, and finally obtained lots of exciting new achievements, especially some new breakthroughs on major international scientific research and important scientific research projects at national level or provincial level, further strengthening its

domestic leading position in the field of technological innovation management and expanding its international influence significantly.

From 2014, the Center launched 6 research projects with the support of the National Natural Science Foundation of China. The project of “Research on the Abilities Upgrading and Management Learning Scheme of China’s Domestic Retail Enterprises” chief-conducted by Professor Xie Wei with support from the National Natural Science Foundation of China got approved with a research term of 4 years (from January 2014 to December 2017) due to its important scientific research meanings and application prospects on subject and powerful innovation on academic ideas. Meanwhile, the National Natural Science Foundation of China also supported some other projects of the Center, namely, the project of “Research on Effect Mechanism of the Heterogeneity of External Factors of Innovation towards the Open Innovation Performance” by Professor Chen Jin, the project of “Research on Theories and Counter Policies of Cooperated Innovation Mechanism taking the Local Enterprises as the Main Body” by associate professor Gao Xudong, the project of “Research on Technological Innovation Platform based on the Generality of the Knowledge Flow Industry ” by associate professor Li Jizhen, the project of “Empirical Research of Impacts of Technology Transfer and Knowledge Spillover on Technological entrepreneurship” by associate professor Li Xibao, and project of “research on innovation search among the complex innovation activities of Chinese enterprises” by associate professor Wang Yi.

The Research Institute of Humanities and Social Science under China’s Ministry of Education launched an important project “Research on Strategy and Countermeasures for the Innovation-oriented Country Building under an Open-up Circumstance” directed by Professor Chen Jin and participated by some other key members of the Center. The Center, as a key research institute under the Ministry of Education, set up 3 independent projects, namely, “Research on R&D History of China’s Mobile Phone Industry: from the Perspective of Strategic Factors Market” by associate professor Zhu Hengyuan, “Research on Entrepreneurial Opportunity of the Strategic Emerging Industries” by Associate professor Li Xibao, “Research on Special Rules of Technological Innovation of Major Powers” by Associate professor Gao Xudong., which demonstrate the scientific research level and strength of the technological innovation research team of the Center and manifest the

gradually improving abilities of the Center to undertake major issues of the Ministry of Education as a key research Institute of humanities and social science of the Ministry.

The Center is active to undertake the “13<sup>th</sup>Five-year Plan” projects for national ministries including a project of the National Development and Reform Commission --“Research on Strategic Priorities and Innovation-oriented Country Building Driven by Innovation during China’s 13<sup>th</sup> Five-year Plan”, a project of the Ministry of Science and Technology --“Research on Policies System in Favor of Innovation Driven during China’s 13<sup>th</sup>Five-year Plan”, and a major project of the Ministry of Education--“Current Situation Analysis and System Design for Transformation of Science and Technology Achievements of China’s Universities”, all led by Professor Chen Jin and got approved.

According to incomplete statistics, in 2014, key members of the Center participated in 37 research projects among which 22 were on national and provincial levels. The center also launched another 17 new projects with a supplementary fund of ¥3,788,900 in 2014.

Details in Attachment 3.

## **1.2 Academic Achievements**

A lot of high quality papers on scientific research have been published, such as “A latecomer’s strategy to promote a technology standard: The case of Datang and TD-SCDMA” by Associate professor Gao Xudong on RESEARCH POLICY, “The effect of R&D novelty and openness decision on firms' catch-up performance: Empirical evidence from China” by Professor Chen Jin on TECHNOVATION, “The evolution of R&D capability in multinational corporations (MNCs) in emerging markets: evidence from China” by Associate professor Wang Yi on INTERNATIONAL JOURNAL OF TECHNOLOGY MANAGEMENT and etc. In 2014, there were 49 papers published by key members of the Center, with 9 included by SSCI or SCI, and 30 included by CSSCI. There were 10 books published (by means of monograph, compilation, translation and teaching material) with 7 monographs and 3 translation books. Professor Chen Jin compiled and completed China’s first “*Blue Book of National Innovation*”, and the Taiwan version of his “*Innovation Management*” will be published in May 2015.

Details in attachment 4.

The first publication of the *Bluebook of National Innovation: Annual Report on China's Innovation Development (2014)* consists of one general report and nine special reports.

The general report evaluates the basic situation of China's innovation development and nine special reports about the innovation situation of China from three aspects of state, industry and enterprise, especially making thorough comparative analysis of the self-renovation and services innovation of the electronic information and manufacturing industry, the automobile industry and the recent attractive high speed train industry, the achievements and shortcomings of innovations by small and medium sized enterprises as well as the large scaled enterprises, and comparative analysis of China's comprehensive competitive strength on innovation with other international leading innovation oriented countries.



### 1.3 Honors and Awards

Academic achievements by members of the Center have been granted with lots of awards: the book *To Leverage Innovation Capabilities of Chinese Small & Medium-Sized Enterprises by Total Innovation Management* (Zhejiang University Press and Singapore World Scientific Press) co-authored by Academician Xu Qingrui, honorary advisor of the Academic Committee of the Center, Professor Chen Jin, Director of the Center and etc has won the third session of Chinese publishing government nomination by the State General Administration of Press and Publication, Radio and Television of the People's Republic of China and got award certificate in the morning of May 13<sup>th</sup>, 2014. The Governmental Award of Book Published is the highest award in the field of news and publication of China. The first session of this award begun in 2007 with a selection term of once every three years for recognizing and rewarding excellent publications, publishers and individuals among the domestic news and publication industry.

In the fifth session of China's National One Hundred Excellent Management Cases



Selection, sponsored by the National Steering Committee of Graduate Education for Professional Degree of Business Administration and organized by China's Management Cases Sharing Center, the case study of *Grandpa Diao's Sirloin: Thinking on Internet Catering* co-authored by Professor Chen Jin, Associate professor Li Jizhen from Tsinghua University and He Jie, Song Xudong, Lv Ping from Hebei University of Technology was nominated and received the "One Hundred Excellent Management Cases Award".

The paper of "Fraud and Innovation: Is There a Cheater's Discount?" co-authored by Associate professor Li Jizhen and Yanbo Wang from Boston University won the Best Paper for the "Excellence in Ethics Best Paper Award", the Excellence in Ethics Research Conference, University of Notre Dame, 2014; "The Relationship between Management System and Performance of the Innovation Team for New Enterprises" co-authored by Shi Shude, Zhang Wei and Professor Gao Jian won the best paper Award in the Seventh Session of China's Strategic Management Forum AIB 2014 China branch.

## 2. Academic Effects and Social Services

### 2.1 Increasing Academic Effects

#### 2.1.1 Major Effects

① The Ministry of Education announced its annual Chang Jiang (Cheung Kong) scholars Name List of Distinguished Professors and Chair Professors for 2013 and 2014; Professor Chen Jin was honored as a distinguished professor of Chang Jiang scholars, and actually he is the first Chang Jiang scholar in the field of China's technological innovation management.

② The Center sponsored the Top 10 Most Innovative Enterprises Selection for 2013 in the first half year of 2014 jointly-held by Economic Daily and published the selection list



on the Fourth Session of China's Self Innovation Meeting on May 15<sup>th</sup>, 2014. Xu Guanhua, former Minister of the Ministry of Science and Technology, Zhang Laiwu, vice Minister of the Ministry of Science and Technology, Mao Weimin, Vice Minister of the Ministry of Industry and Information Technology, Professor Chen Jin, director of the Center and etc. made keynote speeches respectively. Professor Chen Jin gave a speech of "Prospects of Technological Innovation for Chinese Enterprises during China's 13<sup>th</sup> Five-Year Plan". Professor Wu Guisheng, honorary director of the Center and Professor Li Xibao were invited to attend the meeting. Entrusted by the Economic Daily, the Center will provide academic supports to the meeting for the next successive three years since the second session of the meeting.

③ Both "Promoting the Transformation of Scientific and Technological Abilities of Universities by Strengthening Production-Study Coordinative Innovation Organization Construction" and "Accelerating Innovation Driven by Talents: Suggestions on Policy of Improving High level Innovative Talents Plan" by Professor Chen Jin were taken as professional proposals via the Ministry of Education and were submitted to relevant state leaders, and national commissions, ministries and departments.

④ On October 17<sup>th</sup>, 2014, Jeremy Rifkin, one of the most renowned contemporary thinkers and the author of *The Third Industrial Revolution* and *The Zero Marginal Cost Society* struck a brilliant dialogue with Professor Chen Jin on Current Affairs Lecture of Tsinghua University.

⑤ On July 11<sup>th</sup>, 2014, People's Daily published an article of Professor Chen Jin "Making Contribution to Innovation-oriented Country Construction by Research on Innovation Theories".

⑥ On July 13<sup>th</sup>, 2014, on the first meeting of "Innovation Roundtable Workshop" initiated by the research department of the general office of the Ministry of Science and Technology and the Chinese Academy of Science and Technology Development Strategy, Professor Chen Jin and Professor Lei Jiasu were invited to attend the meeting and made suggestions on "How to Support and Promote Micro-innovation".

⑦On September 25<sup>th</sup>, 2014, Social Sciences Weekly published an article of Professor Chen Jin “Counter Measures for Promoting Production-Study-Research Coordinative Innovation”.

### **2.1.2 Meetings by the Center**

In 2014, lots of famous scholars from America, Canada, England, Denmark, Switzerland, Japan, Israel and other countries, China Hong Kong, Macao and Taiwan and China Mainland came to visit the Center.

#### **①The 10<sup>th</sup> session of the CICALICS Academy &Workshop**

The Center organized and hosted 10successful sessions of the CICALICS(China`s Innovation Circles and Academy-a Network on Learning, Innovation and Competence Building Systems).

CICALICS is the first national-level network of GLOBELIC Sand holds its international Academy and Workshop once a year in China which forms



increasing international effects. The 10<sup>th</sup> Session of CICALICS Academy with the International Workshop was held during August 24<sup>th</sup>, 2014 to August 31<sup>st</sup>, 2014 jointly hosted by the Center, China Institute for Science and Technology Policy at Tsinghua University and the Sino-Danish Center for Education and Research (SDC).

More than 50 doctoral students (including 8 foreigners) and scholars from Tsinghua University, Zhejiang University, Chinese Academy of Science, SDC, Seoul University of Korea, University of Southern Denmark and other schools and organizations attended the Youth Academy. More than 80 scholars and doctoral students from different countries and organizations participated into 8 academic exchanges on the theme of “Development of Emerging Economies Driven by Innovation”.

#### **②The 4<sup>th</sup> Session of Chinese Service Innovation Forum**

On October 31<sup>st</sup>, 2014, the 4<sup>th</sup> Session of Chinese Service Innovation Forum was successfully held in Tsinghua University, Which was sponsored by the Chinese Services Innovation Team and jointly hosted by the Center and the Chinese Society of Technology Economics with the purpose of making exploration and exchanges on theories, practices and policies of services innovation in the age of internet economy



This session themed “Services Innovation in the Age of Internet Economy” receiving 19 guests from governmental departments, famous universities, top think-tanks and industrial circles to make a themed report, and more than 140 delegates attending the forum, who gave enthusiastic and profound discussions on other topics.

### ③ The International Conference of China’s Technology Management 2014

During May 27<sup>th</sup> – 28<sup>th</sup>, 2014, the Center and China Society of Technology Management jointly hosted the International Conference of China’s Technology Management entitled “Integration of Thoughts and Wisdom on



Management of the East and West: Strategic Management and Sustainable Development of Technological Innovation and Entrepreneurship” participated by delegates from dozens of universities and scientific research organizations of China, America, Canada, England, Germany, Denmark, Japan, Korea and other countries.

### ④ The Second Academic Conference of Cross-Strait Science and Technology Management with the Doctoral Forum on Cross-Strait Science and Technology Management and Policy

During November 22<sup>nd</sup>–23<sup>rd</sup>, 2014, the Second Academic Conference of Cross-Strait Science and Technology Management with the Doctoral Forum on Management and Policy of Cross-Strait Science and Technology was convened.

The conference was hosted by University of Chinese Academy of Sciences and Chinese Association for Science of Science and S&T Policy. Over 300 leaders, researchers, professors, students and other delegates from universities, S&T Academies and related S&T management organs of Cross-Strait attended the conference.



**⑤The International Academic Conference of Information Service, Knowledge Management and Coordinative Innovation 2014**

During October 14<sup>th</sup>–15<sup>th</sup>, 2014, the International Academic Conference of Information Service, Knowledge Management and Coordinative Innovation 2014 was held in Nanjing sponsored by Nanjing University of Posts and Telecommunications, co-sponsored by the Chamber of Commerce of Jiangsu Province Promotion Association and Jiangsu University of Science and Technology, with fund from National Natural Science Foundation of China and a total of more than 200 attendances.

**2.1.3 Serial Lecture of “Innovation @ Tsinghua”**

The Center created the serial lecture of “Innovation @ Tsinghua” and was conducted five times successfully by inviting several famous scholars at home and abroad to give academic speech and facilitated brilliant exchanges on frontier questions of the field of technological innovation in various and diversified patterns, which gained good response among teachers and students.

**①The First Lecture: How to promote entrepreneurship—the case of Israel (by Shlomo Maital)**

On May 4<sup>th</sup>, Shlomo Maital, a senior researcher at the S&T Department of Samuel Niemann Advance Institute under Israel Institute of Technology gave an academic report entitled “how to carry forward the entrepreneur



spirit—by experiences from Israel” which was presided by Professor Chen Jin.

Shlomo Maital is a senior researcher and emeritus professor at the S&T Department of Samuel Niemann Advance Institute under Israel Institute of Technology From 1988 to 2009, he was the director of TIM (Institute of Technology School of Business), a leading institute for management development in Israel. He was a visiting professor of MIT Sloan’s S&T management master’s program for summer classes, taught 1000 R&D engineers from 40 countries. Professor Maital co-authored 12 books including *Science and Technology, Global Risks/ Global Opportunities, Innovation Management, Managerial Economics, The Imagination Elevator and etc. which were translated into seven languages and distributed worldwide.*

**②The Second Lecture: All Technologies are descended from Earlier Technologies (by Brian Arthur)**

On May 14<sup>th</sup>, Brian Arthur, a famous economist and a pioneer in positive feedback system of the economy had a close communication with students in Tsinghua University's School of Economics and Management and Tsinghua University and shared his three core ideas in his new book *The Nature of Technology*: first, technologies are put together from pieces - themselves technologies - that already exist. For example, the C language achieved one function by mobilizing multiple functions; second, technology creates itself from itself , a tough world to understand, taking the invention of train for example, it consists of many technologies like the steam technology which could be divided into the fuel technology, the hybrid technology and etc; third, technology could evolve like organisms, while technology evolves from combination of different technologies and organisms evolve from heteromorphosis.

**③The Third Lecture: Innovation Structuring and Measures for Industrial Transformation (By Cheng Liping)**

On November 21<sup>st</sup>, Cheng Liping, associate professor of Institute of Finance of National Chiao Tung University(Hsingchu, Taiwan) gave an academic report entitled “Innovation Structuring and Measures for Industrial Transformation” and Professor Wu Guisheng, honorary director of the Center, presided the lecture and made wonderful comments.

Cheng Liping graduated from Northern Illinois University of America and received a



PhD in economics. He is long engaged in research on Economics, Individual Economy, Game Theory and etc.

**④The Fourth Lecture: Development Opportunities for Electric Vehicles (by Yuan Jianzhong)**

On November 21<sup>st</sup>, Professor Yuan Jianzhong from S&T Management Institute of National Chiao Tung University (Hsingchu, Taiwan) gave an academic report entitled “Development Opportunities for Electric Vehicles” and Professor Wu Guisheng presided the lecture.



Professor Yuan took the development history of Tesla electric cars and the formation of its competitive advantages for example, introduced the competitive advantages of Tesla electric cars including powerful battery system, excellent ability on design and testing, wonderful experience of free battery charging on super charging network, marketing modes like apple retail store experience and etc., and believed that Tesla realized the concept change from “owning” a car to “driving” a car. Professor Yuan also pointed out that there are lots of opportunities for electric cars to promote their competitiveness in mainland China, as it requires some time to occupy the market, obtain and establish technological trajectory.

**⑤The Fifth Lecture: China’s Innovation Strategy and State Policy based on National Conditions (by Chen Xiaohong)**

On December 18<sup>th</sup>, Research Professor Chen Xiaohong, former director of the State Council's Development Research Center gave an academic report entitled “China’s



Innovation Strategy and State Policy based on National Conditions” and Professor Chen Jin presided the lecture while GaoXudong, Li Jizhen, Wang Yi, Li Donghong and other teachers attended the forum.

From 2000 to 2014, Researcher Chen Xiaohong kept a position in the State Council's

Development Research Center as director. He graduated from Huazhong University of Science and Technology, taught in Huazhong University of Science and Technology, the State Council's Development Research Center and the Economics Department of Tokyo University of Japan and took on other positions like vice researcher, researcher, department director, deputy chief, vice director, director and etc. successively. He mainly engaged in research works related with such fields as the industrial economy and relevant policies, the technology economy, the enterprise management, the enterprise economy and etc. and his book won the Sun Yefang Economy Science Award.

#### **2.1.4 Foreign Visits of Key Members**

More than 20 key members of the Center visited abroad and joined academic meetings at globally, they took such visiting opportunities to fulfill the propaganda of the Center actively, thus the academic standard of the Center as well as the academic impacts and reputation have been promoted further.

(1) Professor Wu Guisheng, the honorary director of the Center chaired the theme report meeting of the Annual Meeting of Management of Technology in China (2014'MOT) which Professor Chen Jin, director of the Center was invited to attend and made a keynote speech entitled "Contribution of Management of Technology in Asia".

(2) The 22<sup>nd</sup> Annual Academic Meeting of Chinese Society of Technology Economics ("CSTE") was held in Yantai City, Shandong Province with the theme of "Strategic Theories and Practices of Development Driven by Innovation". Professor Wu Guisheng, executive vice chairman of CSTE pointed that there are two directions of research on technology economics, namely, academy-oriented and application-oriented. For several decades of development, the technology economics have gained certain achievements while few original findings and conclusions were witnessed with insufficient combination with practices. To fore a prospective consciousness and make academic researches based on social requirements should be the right direction for experts and scholars in the field of technology economy to move on.



(3) Professor Wu Guisheng gave a keynote speech entitled “Coordinative Innovation and Crossover Management Mode” on the Smith Lecture of the International Business School for 70<sup>th</sup> anniversary of Tsinghua University.

(4) The 2014 International Conference on Developing China’s Innovation Based Economy through Technology Entrepreneurship was held successfully in Jilin University, at which Professor Chen Jin gave an academic report entitled “Entrepreneurship and Innovation: Theories and Prospects”.

(5) China Sixth (2014) Annual Meeting of Evolutionary Economics was held in Beijing, at which Professor Chen Jin gave a speech on behalf of the meeting and made an academic speech entitled “The Reconstruction of Schumpeter’s Economics”.

(6) Professor Chen Jin, director of the Center was invited by the Institute of Environment and Sustainable Development in Agriculture, CAAS to extend a keynote speech entitled “Considerations on Realizing Innovation-oriented Strategy”.

(7) The Tenth Annual Meeting of Science and Technology Policy and Management in China was held in Changchun City, Jilin Province, where Professor Chen Jin was invited to give a report entitled “Prospects of Science and Technology Innovation during China’s 13<sup>th</sup> five-year”.

(8) Professor Chen Jin was invited to attend the Asian Alliance of Technology Management Conference (held in National University of Singapore) which has four founding members namely, National University of Singapore, Nippon Institute of Technology, Korea Institute of Science and Technology, and Tsinghua University.

(9) Professor Chen Jin delivered a wonderful speech to explain the innovation of management and future of management at the 12<sup>th</sup> Annual Conference of the Institute for Industrial Technologies among China’s Economic Management Universities with the First International Academic Conference on “Management • Innovation • Development (MID2014)”.

(10) The “Mastery Journey with the Second Forum of China’s Management Research and Practices” was held in University of Electronic Science and Technology, at which Professor Chen Jin was invited to make a speech entitled “Strategy Analysis based on Innovation” as a keynote speaker.

(1)The 12<sup>th</sup> Lecture by the Development Strategy Research Institute of Zhejiang University was held in the Hall of the Alumni Building at Zijingang Campus of Zhejiang University, at which Professor Chen Jin made a management talk themed on “Research-Oriented University” based on management experiences of Tsinghua University and Zhejiang University.

(2)The 37<sup>th</sup> Conference of Innovation and Strategy Forum was held by College of Technology Management, UCAS, at which Professor Chen Jin made a report entitled “Reconsiderations on Open Innovation”.

(3)The Sixth Session of CKJ Workshop on Asian Management Research was held, at which Professor Gao Jian made a keynote speech entitled “China’s Innovation Systems and Technological Entrepreneurship”.

(4)The Eighth Forum on Theories and Practices of China’s Forestry Technology Economics was held at Jiyang College of Zhejiang A&F University for profound exchanges and research on “Management Innovation and Growth of Forestry Economics”, at which Professor Yang Delin made a report themed “Some Questions on Innovation”.

(5)At the international workshop themed “Innovation Technology Management and Data Science”, Associate professor Li Jizhen was invited to make an academic report entitled “The consequence of governmental support in China: Evaluation of Innofund”.

(6)At the Panel session in Aalborg University, Associate professor Li Jizhen made a theme report “Outward Foreign Direct Investment from Emerging Economies: the Case of China” and joined the panel discussion.

(7)At the Workshop of “Performance Evaluation of Public Administration and Quality Optimization of Public Services” held in Macau’s World Trade Center, Associate professor Li Jizhen made an academic report entitled “Government Support and Development of Enterprise: Performance Evaluation of China’s Innovation Fund”.

(8)At the Exchange Meeting of “R&D through collaboration- best practice sharing” held in Embassy of Denmark in China, Associate professor Li Jizhen made a theme report entitled “University-Industry Collaboration in China”.

(19) On October 14<sup>th</sup>, at the meeting of "Science, Technology and Innovation Performance of China -STI China" with delegation of European Union to China, Associate professor Li Jizhen made a theme report entitled "Measuring China's STI development".

(20) Associate professor Li Jizhen came to the National University of Singapore for academic exchanges and came to visit the newly formed Singapore University of Technology and Design.

## **2.2 Pragmatic and Efficient Social Services**

Last year, key members of the Center conducted site researches for several times national wide and were invited to lecture on technological innovation and technical consultation to different levels of governmental departments, large and small and medium sized enterprises successively. The Center has established cooperation with some major innovation oriented enterprises such as Qingdao Haier Group, Sinopec, CSR Sifang Co., Ltd., Huawei Technologies Co., Ltd., Silver Group and so on.

### **① To Sign the Cooperation Agreement with Haier Group**

Professor Chen Jin was invited to attend the "Haier Technological Innovation Summit 2014" in Qingdao's Haier Industrial Park on September 22<sup>nd</sup>. At the beginning of 2014, Haier Group ascertained its strategic development theme to be "Enterprise Platformization, Staff Entrepreneurization, and User Personalization"; this summit shared the theme of "Focusing on Users by Means of Parallel and Interaction" and consisted of three aspects: Module Products Display, road show of entrepreneurization and investors and demands of users, innovation plans and brain storming. At the meeting, Professor Chen Jin, director of the Center signed the Mutual (Research Center for Technological Innovation of Tsinghua University-Haier Group) Strategic Cooperation Agreement with Haier Group to make joint exploration of the new entrepreneurship and innovation mode and contribute to make Haier Group a new enterprise under new ecological innovation system.

### **② To Sign the Agreement with CNPC Economics and Technology Research Institute for Establishment of the Enterprise Research Base**

At the “International Institute of Technological Innovation Management of Chinese Oil Enterprises” held by CNPC Economics and Technology Research Institute on October 30<sup>th</sup>, Professor Chen Jin, on behalf of the Center and Sun Xiansheng, President and on behalf of CNPC Economics and Technology Research Institute signed the agreement to establish the enterprise research base at the signing ceremony.



**③ To Sign the Consultation Agreement with CSR Sifang Co., Ltd. for Construction of Innovation Oriented Enterprise.**

The Center signed the consultation agreement with CSR Sifang Co., Ltd. to provide consultation services on technological innovation and management projects of the company.

**④ To Undertake Innovation Management Projects of Huawei Technologies Co., Ltd.**

The Center signed the consultation contract with Huawei Technologies Co., Ltd. on Innovation Management projects to provide general introduction of industrial innovation theories to Huawei and make detailed analysis of applications of such theories, thus to help Huawei to have a better understanding of innovation management methods and practices of the academic circle and large-scaled enterprises, to master topics and trends of the innovation engineering field and make sufficient guidance on the methodology of innovation for Huawei.

**⑤ To Sign the Cooperation Research Agreement on “Enterprise Innovation System” with Silver Group**

Silver Group convened the Second Technological Innovation Meeting in the morning of September 17<sup>th</sup>. To push forward the construction of technological innovation system of the Group and improve its technological research and development capacity, the Group employed Professor Wu Guisheng, honorary director of the Center, Li Xinnan, inspector of the Policy and Regulation Department under the Ministry of Science and Technology, Professor Chen Jin, director of the Center as senior advisors on technological innovation for

the Group. At the meeting, Silver Group and the Center entered the cooperation research agreement on “Enterprise Innovation System”, and both are committed to make contribution to the development of Silver Group from the aspects of S&T Innovation Driven, Technological Advantages and Personnel Advantages.

### **3. Talents Training and Teaching**

The course “Start-up of Entrepreneurship” by Professor Chen Jin and Associate professor Wang Yi was selected as the online course of Tsinghua University, which adopts the method of “theories + cases” combining entrepreneurs’ own entrepreneurship methods or their own cases of entrepreneurship with professional comments. This course could motivate interest of students on entrepreneurship and let them experience such spirits of entrepreneurship as foresight, adventure, insistence and persistence. This course introduces such key factors of entrepreneurship as identification of entrepreneurship opportunity, design of entrepreneurial enterprise, operation of entrepreneurial enterprise and etc for students, by which students could make theoretical research, analyze and solve problems encountered during every phase of entrepreneurship. The purpose of the course is to help students understand the value of entrepreneurship and be active to the coming era of entrepreneurship; to motivate the entrepreneurial interest of students and foster their entrepreneurial spirits; to know and master main knowledge and skills of entrepreneurship; to comprehend the basic phases of entrepreneurship and master modes of entrepreneurship. This course will be released online in March 2015.

### **4. Academic Platform Construction**

#### **4.1 Construction of “Five Journals and One Database”**

In 2014, in accordance with the academic platform construction idea of “five journals and one database”, the Center built one innovation management database, and strengthened the advertising of its five journals.

①Volume 1 to Volume 12 of Technical Economy have been published as scheduled. Technical Economy is regarded as the source journal of the extended version of CSSCI (2014-2015) , one of China's 2014 Excellent Journal with Internal Impacts, one important source journal for Duplicating the Press 2014, a cited journal by Chinese Science Abstracts (2014-2015), a statistic source journal of China's scientific and technological periodicals (the Key Magazine of China Technology), a core journal of RCCSE, a source journal of Chinese Humanities and Social Science Citation Database Source Journals, a cited journal of Chinese Journal Full-text Database (CJFD), a cited journal of Chinese Science and Technology Periodicals Database, CNKI, full-text cited by Wan-fang Database, a cited journal by RCCSE Database (for selection.)

②Collected papers of *Innovation and Entrepreneurial Management* was ranked as the source collected papers of CSSCI(2014-2015)with a biannual publish frequency by Tsinghua University Press. Presently, 11 series of *Innovation and Entrepreneurial Management* have been published.

③Science and Management was co-organized by the Center in 2014 which was regarded as a core journal of RCCSE (the extended version) and an important source journal for Duplicating the Press. In 2014, ratio of fund and papers of the magazine reached 0.65 with 49 articles by authors with the title of doctor, associate professor and above accounting for 72% of total articles. Two articles inside the magazine were full-text reprinted by Duplicating the Press of Renmin University of China. The latest statistics impact factor of the magazine increased to 0.561, by a 15% growth compared with the previous year, ranking 16<sup>th</sup> among S&T Management magazines and was selected as the statistics source journal of 2014 Annual Report for *Chinese Academic Journals Impact Factors*.

④*Review of Evolutionary Economics and Economics of Innovation* was sponsored by the Center since 2014 and published by the Science Publishing House with 12 published series, is active to apply for the source collected papers by CSSCI.

⑤Volume 1 to Volume 12 of Science Research Management have been published as scheduled, which is regarded as the source journal by CSSCI, top class important journal on management science by national natural science foundation of China, with the Center as one of organizers.

## 4.2 Achievements in International Journals

① Professor Chen Jin took on the deputy editor of the famous engineering management journal *ENGINEERING MANAGEMENT REVIEW*, the guest editor of *TECHNOVATION*, *INTERNATIONAL JOURNAL OF TECHNOLOGY MANAGEMENT*, *TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE* and the editorial board member of the *Frontiers of Engineering Management* founded by Chinese Academy of Engineering.

② Professor Gao Jian took on the joint editor of *Journal of Chinese Entrepreneurship*.

## 4.3 Basic Platform Construction

1. The website of the Center has been reconstructed and upgraded thoroughly, the new website of the Center (<http://www.innovation.tsinghua.edu.cn/>) could not only make functional optimization but also realize open search function based on the newly added four databases such as Innovation Database, Entrepreneurship Database, S&T Database and Innovation Cases Database.

2. Advertising Mailbox of the Center: [rcti@tsinghua.edu.cn](mailto:rcti@tsinghua.edu.cn)

3. The WeChat Public Number of the Center: RCTI\_THU

## Attachment 1: List of International Advisory Committee

### **Keun Lee, Seoul National University**

- Professor of Economics
- Director, Center for Economic Catch-up
- Editor, Seoul Journal of Economics
- Editor, Research Policy
- Associate Editor-in-Chief, Asian Journal of Technology Innovation



#### **RESEARCH INTEREST**

- Economics of Catch-up; Economics of Innovation; Corporate Organization and growth; Economics of Intellectual Property Right; Economics of Health Policy; Area Studies (China, South and North Korea, Japan)

### **Chang Chieh Hang, National University of Singapore**

- Professor, Head of Department

#### **RESEARCH INTEREST**

- Social Robotics
- Innovation Strategy and Management
- Intellectual Properties and Innovation
- R&D for Creating Disruptive Technologies
- Connecting Disruptive and Open Innovations



### **Eric Von Hippel, MIT**

- T. Wilson (1953) Professor in Management
- Professor of Management of Innovation and Engineering Systems

#### **RESEARCH INTEREST**

- Innovation by users and lead users
  - Sticky information and its uses
  - Innovation toolkits
  - Measurements of innovation and innovation indicators
- Innovation strategies and lead user identification





**Robert Burgelman, Stanford University**

- Edmund W. Littlefield Professor of Management
- Executive Director of the Stanford Executive Program

**RESEARCH INTEREST**

- Nonlinear strategic dynamics



**Joe Tidd, SPRU, Sussex University**

- Professor of Science & Technology Policy Research

**RESEARCH INTEREST**

- Industrial Innovation
- Innovation Management
- New Product Development



**Bengt-Åke Lundvall, Aalborg University**

- Professor of Innovation, Knowledge, and Economic Dynamics, Department of Business and Management, The Faculty of Social Science

**RESEARCH INTEREST**

- Innovation Systems
- Learning Economies
- Economic Development



**Arie Y. Lewin, Duke University**

- Professor; Director of The Center for International Business Education and Research

**RESEARCH INTEREST**

- Firm Wealth Creation in Chaotic Environments through Strategies of Exploitation and Exploration
- Coevolution of Organizations and their Environments
- Designing the Super Adaptive Firm



## **Attachment 2: List of Academic Committee**

### **Senior Adviser:**

FU Jiaji (Professor emeritus, Tsinghua University)

XU Qingrui (Professor, Zhejiang University, and Academician, China Academy of Engineering)

### **Director:**

FANG Xin (Research Professor, Deputy Secretary of Party Committee, China Academy of Science)

### **Associate Director:**

WU Guisheng (Professor, School of Economics and Management, Tsinghua University)

CHEN Jin (Professor, Assistant Dean, School of Economics and Management, Tsinghua University)

### **Committee Member:**

CAI Li (Professor, Jilin University, Deputy Secretary of Party Committee)

CHEN Fan (Professor, Northeastern University School of Humanities and Law)

CHEN Song (Professor, Deputy Secretary of Party Committee, School of Economics and Management, Tsinghua University)

CHEN Xiangdong (Professor, School of Economics and Management, Beihang University)

CHEN Yantai (Professor, Technology College of Economics and Management, Zhejiang University)

CHI Renyong (Professor, Associate Dean, Technology College of Economics and Management, Zhejiang University)

DONG Jielin (Director, Professor, Center for Enterprise Innovation and Development, Soochow University)

GAO Jian (Professor, Associate Dean, School of Economics and Management, Tsinghua University)

GUAN Jiancheng (Professor, School of Management, University of Chinese Academy of Sciences)

HUANG Can (Professor, School of Management, Zhejiang University)

HUANG Lucheng (Professor, Beijing University of Technology)

HUANG Maoxing (Associate Dean, Professor, School of Economics Fujian Normal University)

JIA Genliang (Professor, School of Economics, Renmin University of China)

LEI Jiasu (Professor, School of Economics and Management, Tsinghua University)

LI Yuan (Executive Dean, Professor, Antai College of Economics & Management, Shanghai

Jiaotong University)

LI Lianshui (Professor, Secretary of Party Committee, Nanjing University of Information Science & Technology)

LI Xinnan (Research Professor, Department of Policy Planning, Ministry of Science and Technology of China)

LI Zhengfeng (Research Professor, Center of Science, Technology and Society, Tsinghua University)

LIU Yun (Professor, School of Management and Economics, Beijing Institute of Technology)

LIU Fengchao (Professor, Faculty of Management and Economics, Dalian University of Technology)

LIU Yulin (Professor, School of Management, University of Chinese Academy of Sciences)

LU Ruoyu (Professor, Dean, School of Management, University of Electronic Science and Technology of China)

LU Feng (Professor, School of Government, Peking University)

LV Wei (Research Professor, Director, Research Department of Technology and Economics, Development Research Center of the State Council)

MU Rongping (Research Professor, Institute of Policy and Management, Chinese Academy of Sciences)

SU Jingqin (Dean, Professor, Faculty of Management and Economics, Dalian University of Technology)

SU Jun (Professor, School of Public Policy & Management Tsinghua University, Director, The Construction of Liberal Arts of Tsinghua University)

SUN Wei (Secretary of Party Committee, Professor, School of Management, Xi'an Jiaotong University)

TAN Runhua (Vice President, Professor, Hebei University of Technology)

WANG Fenyu (Research Professor, Vice President, Chinese Academy of Science and Technology for Development)

WANG Zongjun (President, Professor, School of Management, HUST)

WANG Yuan (Research Professor, Former Executive Vice President, Chinese Academy of Science and Technology for Development)

WU Xiaobo (Dean, Professor, School of Management, Zhejiang University)

WU Yishan (Vice President, Research Professor, Chinese Academy of Science and Technology for Development)

XIE Wei (Department Chair, Professor, Department of Innovation Entrepreneurship and Strategy, School of Economics and Management, Tsinghua University)

XU Jianguo (Research Professor, Director, Office for Innovation System, Ministry of Science and Technology of China)

XUE Lan (Dean, Professor, School of Public Policy and Management, Tsinghua University)

YANG Delin (Professor, School of Economics and Management, Tsinghua University)

YU Jiang (Research Professor, Institute of Policy and Management, Chinese Academy of Sciences)

ZHANG Yuming (Professor, School of Management, Shandong University)

ZHANG Zhihe (Dean, Professor, International Business School, Shaanxi Normal University)

ZHANG Zongyi (President, Professor, Southwest University of Finance and Economics)

ZHU Guilong (Dean, Professor, School of Business Administration, South China University Of Technology)

### Attachment 3: List of Projects under Research

SN	Person in Charge	Title of Research	Period	Source of Research	Notes
1	Chen Jin	Research on the Impacts Mechanism between the Heterogeneity of External Innovation Factors and Performance of Innovation	2013-01-01-2015-12-31	National Natural Science Foundation of China	
2	Xie Wei	Research on the Abilities Upgrading and Management Learning Scheme of China's Domestic Retail Enterprises	2014-01-01-2017-12-31	National Natural Science Foundation of China	
3	Wang Yi	Research on Innovation Exploration among Complex Technological Innovations of Chinese Enterprises	2012-01-01-2015-12-31	National Natural Science Foundation of China	
4	Li Xibao	Empirical Research of Impacts of Technology Transfer and Knowledge Spillover on Technological entrepreneurship	2013-01-01-2016-12-31	National Natural Science Foundation of China	
5	Li Jizhen	Research on Technological Innovation Platform based on the Generality of the Knowledge Flow Industry	2013-01-01-2016-12-31	National Natural Science Foundation of China	
6	Gao Xudong	Research on Theories and Counter Policies of Cooperated Innovation Mechanism taking the Local Enterprises as the Main Body	2013-01-01-2016-12-31	National Natural Science Foundation of China	
7	Lei Jiasu	Research on China's International Strategy on Economy Safety	2014-01-24-2014-12-31	Comprehensive Department of National Development and Reform Commission	New Project, RMB 300,000
8	Chen Jin	Research on Focuses of Strategic Innovation Driven and Construction of the Innovation-oriented during "China's 13 <sup>th</sup> Five-year Plan"	2014-01-01-2015-12-31	Development Planning Department of National Development and Reform Commission	New Project, RMB100,000

SN	Person in Charge	Title of Research	Period	Source of Research	Notes
9	Chen Jin	Current Situation Analysis and System Design for Transformation of Science and Technology Achievements of China's Universities	2014-05-01-2014-08-31	Ministry of Education	New Project, RMB 300,000
10	Zhu Hengyuan	Research on R&D History of China's Mobile Phone Industry: from the Perspective of Strategic Factors Market	2012-11-01-2015-10-31	Social Science Department of Ministry of Education	
11	Chen Jin	Research on Strategy and Countermeasures for the Innovation-oriented Country Building under an Open-up Circumstance	2013-01-01-2015-12-31	Ministry of Education	
12	Tong Yunheng	Inclusive Innovation Research based on Chinese Cases	2014-09-30-2017-09-29	Social Science Department of Ministry of Education	New Project, RMB20 0,000
13	Yang Delin	Research on Social Capital and Social Network Building for Technological Entrepreneurship	2012-01-01-2014-12-31	Social Science Department of Ministry of Education	
14	Xie Wei	Research on Technological Evolution Rules led by Strategic Emerging Industry	2014-09-30-2017-09-28	Social Science Department of Ministry of Education	New Project, RMB20 0,000
15	Xie Wei	Research on Management Learning Behaviors and related Influence Factors of China's Domestic Auto Manufacturing Industry	2014-01-01-2016-12-31	Ministry of Education	
16	Li Xibao	Research on Entrepreneurial Opportunity of the Strategic Emerging Industries	2012-11-01-2015-10-31	Social Science Department of Ministry of Education	
17	Gao Xudong	Research on Special Rules of Technological Innovation of Major Powers	2013-01-01-2015-12-31	Social Science Department of Ministry of Education	
18	Chen Jin	Research on Policies System in Favor of Innovation Driven during China's 13th Five-year Plan	2014-08-01-2014-12-31	Development Planning Department of Ministry of S&T	New Project, RMB10 0,000

SN	Person in Charge	Title of Research	Period	Source of Research	Notes
19	Gao Jian	Research on New Modes of Chinese Enterprises	2012-02-29-2014-12-30	Social Science Department of Ministry of Education	
20	Li Jizhen	Research of Innovation Resources Acquisition and Central Financial Support Policies for Technology based Small and Medium Sized Enterprises	2014-01-01-2014-12-31	Science and Technology Department	New Project, RMB60,000
21	Lei Jiasu	Risks and Strategic Opportunities for the Economic Development of China	2013-08-01-2014-08-0	Science and Technology Department	
22	Gao Jian	Index Research of Global Innovation Centers	2014-07-21-2015-07-21	Policies, Regulations and System Reform Department of Beijing Municipal Science and Technology Commission	New Project, RMB150,000
23	Wang Yi	Research on Development History of China's Complex Technology Industry from Backward to Excellent (Continued)	2012-01-01-2014-12-31	Office of Scientific R&D, Tsinghua University	
24	Li Xibao	Research on Opportunities Out-coming of China's Technological Entrepreneurial Activities	2011-11-01-2014-12-31	Office of Scientific R&D, Tsinghua University	
25	Li Jizhen	Innovation Sources Acquisition of S&T based Small and Medium Sized Enterprises: Networks and Systems	2012-07-01-2015-06-30	Office of Scientific R&D, Tsinghua University	
26	Gao Jian	2012 Global Entrepreneurship Review the Case of China	2012-07-01-2015-06-30	Office of Scientific R&D, Tsinghua University	
27	Li Jizhen	Research on the State Grid's Accelerating Endeavors to Global First Class S&T Innovation System	2013-01-01-2014-07-30	Beijing Electric Power Company	

SN	Person in Charge	Title of Research	Period	Source of Research	Notes
28	Li Jizhen	Opening Features and Evaluation of China's Innovation System	2014-06-02-2014-10-31	Chinese Academy of Science and Technology Development Strategy	New Project, RMB100,000
29	Li Jizhen	Research on the Development Strategy of Suzhou Automobile Research Institute of Tsinghua University	2014-02-25-2014-06-01	Suzhou Automobile Research Institute of Tsinghua University(Wu Jiang)	New Project, RMB300,000
30	Li Jizhen	Research on China's Science, Technology and Innovation Performance	2013-01-01-2014-06-30	SOCIEDADE PORTUGUESA DE INOVACAO	New Project, RMB98,800
31	Lei Jiasu	Research on the Excellent Way of the Technology Based Industry Transforming to Independent Innovation Oriented Industry and related Strategies	2012-09-01-2015-12-31	National Planning Office of Philosophy and Social Science	
32	Gao Xudong	Theoretical Analysis of Technological Innovation Features of Large Scaled Enterprises and Problem Diagnosis of the Technological Innovation System of Sinopec	2014-02-18-2015-06-08	CNPC Economics and Technology Research Institute	New Project, RMB600,000
33	Chen Jin	Comprehensive Evaluation Index Research of China's Innovation Oriented Enterprises	2014-01-01-2014-12-31	Economic Daily	New Project, RMB300,000
34	Chen Jin	Technology Commissioned Development Contract for the Innovation Management Project	2014-10-01-2015-3-31	Huawei Technologies Co., Ltd.	New Project, RMB350,000
35	Chen Jin	Innovation Oriented Enterprise Construction of CSR Sifang Co., Ltd.	2014-04-01-2015-04-30	CSR Sifang Co., Ltd.	New Project, RMB510,000



SN	Person in Charge	Title of Research	Period	Source of Research	Notes
36	Yang Delin	Preliminary Study on Learning Oriented Construction of Credit Ease	2014-05-01-2014-09-30	Credit Ease Benefit Investment Management (Beijing) Co., Ltd.	New Project, RMB60,000
37	Yang Delin	Schedule of 2015 Innovation and Entrepreneurship Day of Tsinghua University	2014-05-01-2015-08-19	Meng Chuang Technology Co., Ltd.	New Project, RMB60,000

## Attachment 4: List of Publications

### Articles in Major English Journals (Published)

Name of Author	Name of Article	Name of Journal	Vol.& No.	Index
Wang Y, Pan X, Ning L, Chen Jin	Visualizing knowledge space: A case study of Chinese licensed technology, 2000-2012	Scientometrics	2014, 98(3)	SSCI
Wang Fangrui, Chen Jin	The effect of R&D novelty and openness decision on firms' catch-up performance: Empirical evidence from China	Technovation	2014, 34(1)	SCI; SSCI
Wang Y, Ning L, Chen Jin	Product diversification through licensing: Empirical evidence from Chinese firms	European Management Journal	2014, 32(4)	SSCI
Hao Jiao, Yu Cui, Yunxia Zhu, Chen Jin	Building Entrepreneurs' Innovativeness through Knowledge Management: the Mediating Effect of Entrepreneurial Alertness	Technological Analysis & Strategic Management	2014, 26(5)	SSCI
Gao Xudong, Martina Gerst, Rongling Sun	Understanding MNEs' declined position in the adoption of locally developed technology standard in China: A positioning and cognitive perspective	Telecommunications Policy	2014, 38	SCI
Xiaolan Fu, Li Jizhen, Xiong Hongru, Henry Chesbrough	Open Innovation as a Response to Constraints and Risks: Evidence from China	Asian Economic Papers	2014, 13(3)	SSCI
Li Jizhen, Zhang Si, PohKam Wong, Xiaolan Fu	Harnessing internal and external resources for innovation in emerging economies	Journal of Chinese Economic and Business Studies	2014, 12(2)	
Gao Xudong	A latecomer's strategy to promote a technology standard: The case of Datang and TD-SCDMA	Research Policy	2014, 43(3)	SSCI
Gao Xudong	The Rules Have Changed: A Case Study of Chinese Government Support of Local Technologies	Research Technology Management	2014, 57(1)	SCI; SSCI
Qi Meng, Zhang Yue, Wang Yi	The evolution of R&D capability in multinational corporations (MNCs) in emerging markets: evidence from China	International Journal of Technology Management	2014, 64	SCI

### Papers for Major English Journals (Accepted)

Name of Author	Name of Article	Name of Journal	Index
Huang Shufang, Chen Jin, Wang Yuandi, Ning Lutaο, Dylan Sutherland, Zhou Zengjun, Zhou Yisha	External Heterogeneity and Its Impact on Open Innovation Performance	Technology Analysis & Strategic Management	SSCI
Wang Y, Li-Ying J, Chen Jin, Lu Z	Technology Licensing in China	Science and Public Policy	SSCI
Chen Jin, Zhao Xiaoting, Wang Yuandi	A new measurement of intellectual capital and its impact on innovation performance in an open innovation paradigm	Int. J. of Technology Management	SSCI
Wang Y, Pan X, Ning L, Li J, Chen Jin	Technology exchange patterns in China: An analysis of regional data	Journal of Technology Transfer	
Cui Tingru, Jonathan Ye, Teo Hock Hai, Li Jizhen	Information Technology and Open Innovation: A Strategic Alignment Perspective	Information and Management	SSCI
Fu Xiaolan, Li Jizhen	Collaboration with Foreign Universities for Innovation: Evidence from Chinese Manufacturing Firms	International Journal of Technology Management	SSCI
Hu Simei, Zhang Si, Li Jizhen, Olav Sørensen	Gaining Relational Competitive Advantages: A Conceptual Framework on Rents Generation and Appropriation	European Journal of International Management	SSCI
Elaine Walsh, Caroline Hargreaves, Li Jizhen	Doctoral researchers and entrepreneurship: a responsibility to improve the future or a dirty word	Studies in Higher Education	SSCI
Li Jiapeng, Wu Rui, Yang Delin	The effects of family background on entrepreneurs' strategic choices and performance		
Yang Delin, Charles Eesley, Tian Xiaocong, Edward Roberts	Institutional Flexibility and Entrepreneurship	Organization Science	SSCI

## Papers in Major Chinese Journals

Name of Author	Name of Article	Name of Journal	Vol.& No.	Index
Chen Jin, Wang Kun, Hang Chang Chien	Frugal innovation a rising innovation paradigm	Technology Economics	2014,33(1): 1-6	CSSCI (Expanded Version)
Hu Xiaojun, Chen Jin	An investigation on indicators for patent value based on structured data of patent documents	Studies in Science of Science	2014,32(3): 343-351	CSSCI; Chinese Core Journal
Wu Hang, Chen Jin, Liang Liang	The Impact of Degree of Internationalization on Innovation Performance: A Case Study of Four Chinese Manufacturing Firms	Science of Science and Management of S. & T.	2014,35(3): 69-76	CSSCI; Chinese Core Journal
Chen Jin, Wu Hang, Liu Wenlan	Zhongguancun: future world's first innovation cluster	Studies in Science of Science	2014,32(1): 5-12	CSSCI; Chinese Core Journal
Yan Guolong, Chen Jin	Technological innovation system of enterprise implementing diversification strategy case of founder group	Management of Innovation and Entrepreneurship	2014,10: 21-39	CSSCI (Collected Papers)
Mei Liang, Chen Jin, Sheng Weizhong	Responsible Innovation Emerging Paradigm of Research and Innovation	Studies in Dialectics of Nature	2014,30(10): 83-88	CSSCI; Chinese Core Journal
Chen Jin, Zhao Chuang	Development Mode of Innovative Clusters in the U. S. and China: A Comparative Study and Analysis of Sino-U. S. Cooperative Strategy	Jilin University Journal Social Sciences Edition	2014,54(6): 55-62	CSSCI; Chinese Core Journal
Mei Liang, Chen Jin	Reflection and Reconstruction of Innovation Paradigm: The Emerging Research on Responsible Innovation	Science and Management	2014,34(3): 3-11	
Mei Liang, Chen Jin, Liu Yang	Innovation ecosystem: origin, knowledge evolution and theoretical framework	Studies in Science of Science	2014,32(12): page 1771-1780, 2014	CSSCI; Chinese Core Journal
Chen Jin, Dong Fuquan	research on collaborative mechanism of open service innovation: taking reading base of company D as an example	Studies in Science of Science	2014,32(9): page 1390-1395, 2014	CSSCI; Chinese Core Journal
Chen Jin	Research on Evolution of Enterprise Technology Innovation System	Journal of Industrial Engineering and Engineering Management	2014,28(4): page 219-227, 2014	CSSCI; Chinese Core Journal

Name of Author	Name of Article	Name of Journal	Vol.& No.	Index
Jian Zhaoquan, Chen Jianhong, Zheng Xueyun	The Impact of Network Competence and Relationship Learning on Service Innovation Performance	Journal of Industrial Engineering and Engineering Management	2014 ,28(3): page 100-101,2014	CSSCI; Chinese Core Journal
Xiang Yangxue, Mei Liang, Chen Jin	Research on Collaborative Innovation Mode of Dynamic Knowledge Triangle Evolution of Production, Learning and Researching from the Aspect of Organizational Theories	Review of Evolutionary Economics and Economics of Innovation	2014: 125-141	
Wang Shu, Chen Jin, Liang Liang	Analysis of collaborative and self –organizing innovation effect of the network crowdsourcing model	Science Research Management	2014 ,35(4): 26-33	CSSCI; Chinese Core Journal
Zheng Zongxi, Chen Jin	Reverse Innovation in China: A Case Study of CSR Qingdao Sifang	Science and Management	2014 ,34(4): 3-8	
Hu Linna, Zhang Suodi, Chen Jin	Input and Output Analysis of Fundamental Research on the Course of Technology Economics and Management supported by NSFC	Science & Technology Progress and Policy	2014 ,34(3): 3-11	CSSCI; Chinese Core Journal
Chen Jin, Liang Liang, Wu Hang	The Governance Structure and Management Model of Major Innovation Bases in Foreign Countries	Forum on Science and Technology in China	2014 ,6 (6) : 30-36	Chinese Core Journal
Qian Xiaohong, Chen Jin	Research on the dependency relationship between the universities eith industrial features and the parent industry	Research in Higher Education of Engineering	2014 ,1: 71-75	CSSCI; Chinese Core Journal
Wu Hang, Chen Jin	The impact of international mode on innovation performance of firmsinan Emerging economy: from the perspective of dynamic capabilities	Studies in Science of Science	2014 ,32(8): 1262-1270	CSSCI; Chinese Core Journal
Wu Hang, Chen Jin, Zheng Xiaoyong	The impact of international diversification on innovation performance of firms in emerging countries: The moderating role of ownership structure	Science Research Management	2014 ,35 (11): 77-83	CSSCI; Chinese Core Journal
Hu Linna, Zhang Suodi, Chen Jin	Time and space evaluation of technical economics and management discipline in China: dynamic progress and spatial concentration	Studies in Science of Science	2014 ,32(6): 825-834	CSSCI; Chinese Core Journal

Name of Author	Name of Article	Name of Journal	Vol.& No.	Index
Chen Jin, Yang Yinjuan	Overview of Research on Relationship between the External Knowledge Acquisition and Innovation Performance of Enterprises	Science & Technology Progress and Policy	2014 ,31(1): 156-160	CSSCI; Chinese Core Journal
Lei Jiasu, Lin Bao	China should focus on technology innovation and related industry during its way to catch up with developed countries	Theoretical Investigation	2014 ,2: 76-79	CSSCI; Chinese Core Journal
Lei Jiasu	New Side and New View on Exploration of Innovation Education	Hebei Academic Journal	2014 ,34(2): 256-256	
Zhang Qingzhi, He Feng, Lei Jiasu	Research on Resources Consumption, S&T Innovation and Technological Performance of the Steel and Iron Industry	Statistics and Decision	2014 ,5: 94-97	CSSCI; Chinese Core Journal
Xiang Hui, Lei Jiasu	A Study of the Impact of Entrepreneurial Education on Entrepreneurial Intention of College Students	Tsinghua Journal of Education	2014 ,35(2): 120-124	CSSCI
Lin Bao, Lei Jiasu	Science-based innovation and technology-based innovation: sectoral patterns of science-technology relationship	Studies in Science of Science	2014 ,9: 1289-1296	CSSCI; Chinese Core Journal
Wang Yueheng, Li Jizhen	Research on Definition of Small and Medium Sized Technology Based Firms and their Life Time	Management of Innovation and Entrepreneurship	2014 ,10: 108 – 127	CSSCI (Collected Papers)
Li Jizhen, Li Yawen, Chen Sishu	Randomized Controlled Trial and its Application in Innovation Entrepreneurship and Policy Assessment	Technology Economics	2014 ,33(8): 62-67	CSSCI (Expanded Version)
Wang Yanyu, XieWei, QiaoYunbo, LiXibao	Invisible Hand: Influence of Political Genes on Enterprise Acquisition Control Tendency: Based on Empirical Data Analysis of Chinese Listing Enterprises	Management World	2014 ,23(8): 102-114	CSSCI; Chinese Core Journal
Tong Yunhuan	Green Strategy: from Idealism to Rational Selection	Management Scientists	2014 ,19	
Xing Xiaoqiang, PengMeirui, Tong Yunhuan	Reviewon Cross-sector Cooperative Network at the Bottom of the Pyramid Market	East China Economic Management	2014 ,8	CSSCI
Tong Yunhuan	Researchon Frugal Innovation in and for Emerging Market	Science of Science and Management of S.&T.	2014 ,11	CSSCI; Chinese Core Journal

Name of Author	Name of Article	Name of Journal	Vol.& No.	Index
Xiong Hongru, Wu Guisheng, Wang Yi	A Study on Evolution of Market Trajectory Driven by Market Demand and Channel Factors	Science Research Management	2014 ,35(7): 13-19	CSSCI; Chinese Core Journal
Wang Yanyu, Xie Wei	Study on Collaborative Efficiency of Military and Civilian Products Based on the 3—D House of Quality	Science and Technology Management Research	2014 ,19: 199-203	CSSCI; Chinese Core Journal
Zhang Nana, Fu Qingfen, Wang Yanyu, Xie Wei	The Collaborative Mechanism and the Key Successful Factors of Internet Firms' Innovation Subsystems	Science of Science and Management of S.&T.	2014 ,35 (30):77-85	CSSCI; Chinese Core Journal
Zhang Nana, Xie Wei	The Legitimacy Mechanism of E-business Model Innovation in China: Based on the Case Study of Taobao.com	Science of Science and Management of S.&T.	2014 ,35(10): 133—141	CSSCI; Chinese Core Journal

### Book Chapter

Author	Name of Book	Publication Unit	Type
Chen Jin	Innovation Management: Circumstances, Strategy, System and Procedures	Peking University Press	Translation
Chen Jin	(2014) National Innovation Blue Book: China's Innovation Development Report	China Social Science Press	Monograph
Chen Jin	Library of Thoughts on Sustainable Development of Economy Society	Shanxi Economy Press	Chief Edited
Zhang Xuewen, Chen Jin	Collaborative Innovation of Production, Learning and Research toward the Innovation oriented Country: Knowledge Boundary and Path Research	Economic Science Press	Monograph
Chen Jin	Enterprise Evolution Theory: How Great Companies Innovate at Every Phase of Their Evolution	Machinery Industry Press	Translation
Chen Jin	The Tinkerers: The Amateurs, DIYers, and Inventors Who Make America Great	Zhejiang People's Publication House	Translation
Chen Jin, Cheng Chunzi	The Legislation of Public Procurement Policy for Innovation in China, V. Lember et al (eds), Public Procurement, Innovation and Policy	Springer-Verlag Beilin Heidelberg	Monograph (Sections and Chapters)
Sun Zhongjuan, XieWei, Tian Kuanrong, Wang Yanyu	Capability accumulation and the growth path of Lenovo (chapter 29) in YU & Yan (2014) Handbook in East Asia Entrepreneurship	Routledge Publisher	Monograph (Sections and Chapters)
Gao Jian	'Financing Innovation'—China(chapter)	Routledge	Monograph (Sections and Chapters)

