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# Analysis and suggestions on typical problems of high-level papers published during the period of 12th Five-Year in Inner Mongolia

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## Abstract

Basic research covers the broad context of "12th Five-Year Inner Mongolia area arranged in a crisscross pattern, select the" period of high level papers as the research object, through the statistical analysis of the high level during 12th Five-Year in Inner Mongolia published on the whole, the whole development status and trend, analyzes the typical problems and its main characteristic, proposed the development of the corresponding suggestions.

## Keywords

high-level papers, typical problems, countermeasures and suggestions.

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## 1. SCI papers published features and typical problems

### 1.1 The contingent of scientific and technological personnel has grown rapidly

Inner Mongolia area during 12th Five-Year SCI papers published every year in the steady growth, with the overall scientific research ability of social development and social improvement, publishing high level papers difficulty increased year by year, the researchers of the autonomous region unremitting hard work, Inner Mongolia in the development of basic scientific research work quickly, maintain and develop the traditional advantages of discipline, fast emerging discipline follow up research strategy has expanded, based on increasingly deep accumulation, constant growth of talents.

### 1.2 The output of this paper is mainly concentrated in the major disciplines of various universities

Inner Mongolia area during 12th Five-Year SCI papers respectively in the form of statistical school, college, individual, keywords and research summary, according to the statistical results can be seen, each school or individual output high, or high frequency keywords and research direction are characteristic disciplines in universities, such as Inner Mongolia University of Technology main output focus on Chemical Engineering, College of science and College of materials science and engineering, the published output higher also focused on the school, such as Zhao Tianxiang, Institute of Chemical Science College and Hou Qingyu College of materials science and engineering of marvin.

### 1.3 The frequency of citations is related to school and personal output

Citations are usually used to measure the academic level and the degree of attention, Inner Mongolia University, Inner Mongolia Agricultural University and the Inner Mongolia University of Technology cited among the top three, the individual citation frequency is still high, the major colleges and universities characteristic discipline leader in the field, such as Inner Mongolia University, College of chemistry and Chemical Engineering College of chemistry and chemical engineering, Liu Baocang and Ceng Shanghong School of chemistry and chemical engineering, Jiangsu Yiguo, so the academic level of citation and the author's personal popularity and the inseparable.

#### **1.4 The output of one region and two regions is lower**

In order to effectively distinguish the quality and influence of the JCR partition according to the impact factor and cited frequency of the calculation will be divided into four areas, the quality level of a region and the two region is higher, so the area is difficult, and the four district three District, relatively reduce the difficulty, so in the paper summary statistics can partition SCI see, each university published a paper in the area accounted for a lower proportion of the output of less high level.

### **2. EI papers published features and typical problems**

#### **2.1 The level of scientific research improved rapidly and published more difficult**

The relative number of published in Inner Mongolia during 12th Five-Year related scholars in EI on Compendex in a rapid growth trend, but overall growth rate gradually decline, shows that in recent years the top journals academic requirements more and more high level, in the published papers is becoming more and more difficult.

#### **2.2 College and individual outputs are mainly concentrated in the field of school discipline**

College or individual each school output high, are characteristic disciplines in universities, such as Inner Mongolia University of Technology output mainly concentrated in the school, School of materials science and engineering, energy and power engineering machinery institute, The personal papers output higher also focused on the school, such as school of materials science and engineering, Han Yongquan, School of energy and power engineering machinery and Ma Jianlong Sun Pengwen school, the school is the specialty of Inner Mongolia University of Technology.

#### **2.3 Published EI papers, language categories Chinese accounted for relatively large**

EI papers mainly include Chinese, English two SCI articles, which included foreign language journals more, so English is relatively high, and the EI included journals are more domestic journals, so the statistical result shows, which included Inner Mongolia University of Technology, Inner Mongolia University of Science and Technology and Inner Mongolia University EI journal papers based on Chinese.

### **3. Countermeasures and suggestions**

Analysis on the typical problems and main characteristics of Inner Mongolia region through the "12th Five-Year" published during high level papers, to accurately grasp the characteristics of its development, focus on the development and research team, this paper put forward corresponding countermeasures and suggestions, promote its further perfection and improvement, to enhance the "13th Five-Year" development plan of science and technology the systematic, scientific and effectiveness has important significance for improving the utilization of funds, science and technology is of great significance to improve the science and technology plan.

#### **3.1 The government should take countermeasures**

Inner Mongolia "12th Five-Year" during the overall research level was significantly improved, in view of the above situation, the Inner Mongolia Autonomous Region wants to speed up the construction of the new development pattern of the transformation and upgrading of traditional industries, I think the Inner Mongolia Autonomous Region should make fund plan more reasonable according to the "12th Five-Year" fund during the input and output performance, and according to the present situation of the quantity and quality of output high level the major colleges and universities, give encouragement to the strong strength of the field of scientific research, scientific research ability for weak fields can be the key support to the scientific research system, stable and balanced development.

#### **3.2 Colleges and universities should take countermeasures**

Inner Mongolia area universities: high level to the main thesis of Inner Mongolia University, Inner

Mongolia University of Technology, Inner Mongolia Agricultural University and Inner Mongolia University of Science and Technology and other eight universities, the output of major colleges and universities mainly focus on some characteristics of each university college or professional disciplines, and other colleges published very little volume, subject distribution is not balanced, the field of specialty of colleges and universities the only big, the output is high, the road or academic level relatively weak subjects output less, published papers cited by the higher the number, the overall output of major colleges and universities cited low.

### **3.3 People should take countermeasures**

Universities and research institutions in Inner Mongolia, the number of teacher scholars published high level papers are numerous, but the more the output and the visibility and academic ability caused a high degree of concern is one of the few, in view of this situation I think personally, everyone should raise the awareness of scientific research, broaden their field of study and in the foundation to ensure the professional learning well and deeply, horizontal expand to other areas of interest, strive to become talents, as a force of China's scientific and technological innovation contribution to the cause of their own.

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