

APPLICATION RESEARCH ON CHEMICAL AND CHEMICAL MATERIALS IN THE NEW ERA

Lauri Foster
Nanolayers Research Computing Ltd., United Kingdom.

Abstract: With the in-depth adjustment of China's industrial structure, chemical and chemical materials. The development of materials has entered a new historical stage. In addition to being widely used in the industrial field In addition, it has also been widely used in other fields. Focused on chemistry and chemical materials in the new era. The application of materials is the research content, and the application of chemical materials in different fields is analyzed. situation and give a brief discussion.

Keywords: New era; Chemistry and chemical materials; Application

1 APPLICATION OF CHEMICAL CHEMICAL MATERIALS IN AGRICULTURE

In people's lives, the application of chemical materials can be seen everywhere. In traditional On the basis of the development of chemical and chemical materials, China has conducted a relatively in-depth study of the relevant industrial structure. Adjustments to income include the chemical industry. Guidance on sustainable development thinking Under the current situation, the application of traditional chemical and chemical materials is developing in a green direction. In addition to traditional In addition to its wide range of applications in traditional industrial fields, it is also widely used in agriculture, construction industries and other fields. It has also been applied to a certain extent.

In daily life, people are most concerned about the quality of life- related products problems, especially the safety and health issues of chemical and chemical materials products are more serious With the green transformation of chemical and chemical materials, this also provides development opportunities for them. Encounter. Among them, taking the application of chemical materials in the agricultural field as an example, traditional chemical The focus of industrial materials is on the effects of use, and for the large-scale use of chemical Environmental pollution, pesticide residues and other problems caused by chemical materials have not been given a high degree of Pay attention to. In recent years, due to the excessive use of chemical materials in agricultural production, The problem of environmental pollution has gradually attracted people's attention, and due to problems such as agricultural residues The resulting agricultural export problems have directly affected China's economic development, and the traditional chemical The transformation of industrial materials is imminent.

Taking pesticides as an example, researchers before carefully analyzing the mechanism of action of traditional pesticides Under the premise, combined with the functional requirements for new pesticides in the agricultural production field, we develop and issue Organic pesticides that have the same effect. Depending on the environment in which they are used, organic pesticides are not only grown There are many categories and their composition is relatively complex. They are mainly divided into five categories: insecticides, fungicides, etc. type. The extensive use of organic pesticides not only reduces pesticide residues on crops It can also avoid soil hardening caused by the extensive use of traditional pesticides , and achieve Crop output is now stable.

In terms of effects, organic pesticides can not only achieve the purpose of killing insects and bacteria , but can also change the properties of traditional crop cells and improve the vitality of crop cells. It will not lead to character changes caused by molecular changes and promote the increase in crop yields.

In addition to organic pesticides, the application of chemical chemical materials also has other aspects. applications, among which researchers are developing a chemical based on microbial agents Chemical materials. Microbial inoculants are mainly used to balance bacterial colonies, purify soil, etc. in terms of decomposing toxic substances in the soil, and the use of microorganisms Fungicides can effectively reduce the incidence of second-generation nematodes in crops. Although , with new Microbial inoculants based on chemical materials have achieved certain results under laboratory conditions. The effect, however, did not show the ideal state in practice. However, phase Relevant experimental results have shown that microbial inoculants are useful in solving pollution problems in agricultural production. There is feasibility in dealing with contamination problems.

For example, the "magic hoe" developed by researchers "Compound microbial inoculants can Effectively reducing the content of cadmium in the soil, during the rapid development of heavy industry in the past , a large amount of cadmium is deposited in the soil, which also results in cadmium in crops content increase. Research results show that long-term intake of cadmium will lead to chronic Toxins and pulmonary fibrosis lesions, and the use of "magic hoe" "Compound microbial inoculant can be used in a short time During this period, the content of cadmium in the soil was reduced by 63% , thus effectively avoiding the The large intake of cadmium caused by contaminating crops in the area is harmful to the human body.

2 APPLICATION OF CHEMICAL CHEMICAL MATERIALS IN THE CONSTRUCTION INDUSTRY

In the construction industry, whether it is real estate construction or municipal infrastructure construction, inseparable from the support of chemical and chemical materials, in recent years, the construction industry has developed rapidly and become one of the important symbols of the improvement of my country's comprehensive economic strength. However, as people pay more attention to health, the "green" nature of chemical materials in the construction industry. The issue of "environmental protection" has become increasingly prominent.

In the construction industry, the selection of chemical materials needs to be based on actual needs. It has been determined that even "green and environmentally friendly" materials must be evaluated from aspects such as health and applicability. OK to consider.

2.1 Selection of Chemical Materials for School Campus Plastic Track

From a health perspective, in the construction industry, the choice of chemical materials must be cautious. Among them, the campus "toxic track" incident that broke out in 2015 is the most eye-catching. Shockingly, students in schools in Suzhou, Wuxi, Changzhou, Nanjing and other areas of Jiangsu have experienced pain, nosebleeds, rashes and other phenomena, the relevant schools have a common feature, that is the plastic runway that has just been built and put into use has a pungent smell. After hospital check, all students meet symptoms of harmful gas poisoning, plastic in several middle schools. After inspection of the runway, it was found that all chemical materials used in the plastic runway contained hazardous substances exceeding national regulations. It can be seen from this that the construction industry is choosing. In terms of selecting chemical materials, "green and environmentally friendly" materials should be used. Materials are strictly prohibited from being used in violation of. Among the chemical and chemical materials specified by the state, WPPU new environmentally friendly material is one. Not a bad choice.

WPPU material is a new type of "green material" commonly used in plastic sports venues. Colorful and environmentally friendly chemical material, which has ultra-high elasticity and can withstand large tearing force, strong regional adaptability, service life far longer than traditional chemical construction materials can greatly reduce project costs.

2.2 Chemical Material Selection for Insulation Layer

For example, in northern areas where winter temperatures are significantly lower, most buildings have started installing the insulation layer. The function of the insulation layer is to maintain the temperature in the room and reduce heat loss. However, in actual use, in addition to considering choosing "green environmental protection" material. In addition, issues such as heat resistance and corrosion resistance must also be considered. Because the installation of insulation layer uses tools. There are certain time requirements. If the selection of such materials cannot meet the requirements of heat resistance and corrosion resistance, corrosion and other requirements will not only greatly shorten the service life of the insulation layer, but also will affect the insulation effect. At present, in addition to using foam cotton, construction parties also use the method of spraying polyurethane foam acts as an insulation layer, and the spraying process is simple and controllable.

3 CONCLUSION

With the adjustment of my country's industrial structure, the traditional chemical industry will achieve sustainability. Important changes in development concepts, facing the challenges of the application environment of chemical materials in the new era changes, researchers should speed up the research work on new chemical and chemical materials to achieve. The application fields of chemical and chemical materials are constantly expanding.

COMPETING INTERESTS

The authors have no relevant financial or non-financial interests to disclose.

REFERENCES

- [1] Li Jinlong. Application technology of chemical chemical materials. Technological innovation and application use.2012(24).
- [2] Liu Xianze. Chemicalization work material material should use skills technique Research. Chemical pipe reason.2017(02).
- [3] Tian Zhongtao, Yang Dong Liang, Wang Yihe. Analysis on the application and development status of new chemical materials in China. Southern Agricultural Machinery. 2017(03).